# Chapter 8 - Appendix E

RESIDENTIAL - DEMAND RESPONSE - PRAP (Demand, Incentives, Participant Cost, Utility Cost, # of Participants)

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Residential DLC Central	AC																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Number of Control Units Per Participant If Existing Program. Total Number of Participants	YES YES NO	18																	
Age of Existing Program - Years		Year End	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Item	Calculate Eligibia	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab) Coincident Peak (CP) Load Per Eligible Customer (kW)		957,479	939,072	887,944	834,319	791,946	758,148	724,123	690,019	655,835	621,572	622,276	622,980	623,684	624,387	625,092	625,795	626,499	627,203
Concident Peak (CP) Load Per Eligible Customer (KW) Coincident Peak Load Efficiency Gain (Year 20)	3.61	0.48%	1.35%	2.44%	3.55%	4.66%	5.71%	6.70%	7.67%	8.63%	9.58%	10.49%	11.37%	12.22%	13.05%	13.87%	14.62%	15.36%	16.08%
Participant Incentive (S/participant-Yr.)	527	0.48%	1.33%	2.44%	3.55%	4.00%	5.71%	0.70%	7.67%	8.03%	9.56%	10.49%	11.37%	11.11%	13.00%	13.87%	14.02%	15.30%	10.06%
	Calculate																		
Program Participation Rate (From Market Adoption Curve Tab)		1.4%	6.0%	14.0%	18.6%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	uction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	1.06																		
LOAD REDUCTION Number of Program Participants		13,405	56,344	124,312	155,183	158,389	151,630	144,825	138,004	131,167	124,314	124,455	124,596	124,737	124,877	125,018	125,159	125,300	125,441
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW)		3,437,876 48,130	3,342,365 200,542	3,125,359 437,550	2,903,388 540,030	2,724,154 544,831	2,579,192 515,838	2,437,455 487,491	2,298,615 459,723	2,161,958 432,392	2,027,734 405,547	2,009,707 401,941	1,992,222 398,444	1,975,252 395,050	1,958,600 391,720	1,942,519 388,504	1,927,655 385,531	1,913,222 382,644	1,898,961 379,792
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction@ Gen (kW)		14,127 14,984	58,863 62,434	128,429 136,221	158,509 168,126	159,918 169,620	151,408 160,594	143,088 151,769	134,937 143,124	126,915 134,615	119,036 126,257	117,977 125,135	116,951 124,046	115,955 122,990	114,977 121,953	114,033 120,952	113,161 120,026	112,313 119,127	111,476 118,239
BENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$273,058,418	\$1,326,909	\$9,122,087	\$23,474,648	\$29,627,918	\$30,527,818	\$29,437,015	\$28,431,705	\$27,361,302	\$26,257,584	\$25,216,082	\$25,509,418	\$25,745,145	\$26,050,486	\$26,359,469	\$26,780,510	\$27,144,508	\$27,508,166	\$27,868,983
COSTS	NPV																		
Newly installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR P		13405	42940	67968	30871	3206	0	0	0	0	0	13546	43080	68108	31012	3347	141	141	141
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$70 \$200	\$71 \$204	\$73 \$208	\$74 \$212	\$76 \$216	\$77 \$221	\$79 \$225	\$80 \$230	\$82 \$234	\$84 \$239	\$85 \$244	\$87 \$249	\$89 \$254	\$91 \$259	\$92 \$264	\$94 \$269	\$96 \$275	\$98 \$280
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$68,051,113	\$270 \$3,619,270	\$275 \$11,825,577	\$281 \$19,092,697	\$287 \$8,845,431	\$292 \$936,881	\$298 \$0	\$304 \$0	\$310 \$0	\$316 \$0	\$323 \$0	\$329 \$4,458,254	\$336 \$14,462,557	\$342 \$23,322,070	\$349 \$10,831,672	\$356 \$1,192,261	\$363 \$51,139	\$371 \$52,162	\$378 \$53,205
Amortized Utilitity/PA Installed Equipment Cost	\$71,998,077	\$487,094	\$2,078,621	\$4,648,183	\$5,838,631	\$5,964,720	\$5,964,720	\$5,964,720	\$5,964,720	\$5,964,720	\$5,964,720	\$6,077,634	\$6,432,528	\$7,001,731	\$7,269,046	\$7,303,416	\$7,310,299	\$7,317,319	\$7,324,479
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment		\$0	\$0	\$0	50	50	50	50	50	\$0	50	\$0	\$0	\$0	\$0	50	50	\$0	\$0
Partcipant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 \$0.00
Non-Equipment Participant Incentives (5/participant-Yr.) Total Non-Equipment Program Incentive Costs	\$37,575,648	\$27 \$366,350.56	\$27 \$1,539,890.93	\$27 \$3,397,450.77	\$27 \$4,241,163.03	\$27 \$4,328,774.25	\$27 \$4,144,035.75	\$27 \$3,958,058.66	\$27 \$3,771,643.56	\$27 \$3,584,794.05	\$27 \$3,397,511.01	\$27 \$3,401,362.64	\$27 \$3,405,208.81	\$27 \$3,409,054.04	\$27 \$3,412,899.21	\$27 \$3,416,750.85	\$27 \$3,420,597.01	\$27 \$3,424,443.18	\$27 \$3,428,289.35
Proeram Development	\$37,575,648	\$300,350.56	\$1,539,890.93	\$3,397,450.77	54,241,183.03	\$4,328,774.25	\$4,144,035.75	\$3,938,058.00	\$3,771,043.30	\$3,384,794.05	\$3,397,511.01	\$3,401,302.04	\$3,403,208.81	53,403,054.04	55,412,899.21	53,410,750.85	\$3,420,597.01	23,424,443.18	33,426,289.35
Consulting Marketing		\$64,763 \$670,235	\$66,058 \$2,189,922	\$67,379 \$3,535,685	\$68,727 \$1,638,043	\$70,102 \$173,497	\$71,504 \$0	\$72,934 \$0	\$74,392 \$0	\$75,880 \$0	\$77,398 \$0	\$78,946 \$8,590	\$80,525 \$8,749	\$82,135 \$8,922	\$83,778 \$9,100	\$85,453 \$9,298	\$87,162 \$9,470	\$88,906 \$9,660	\$90,684 \$9,853
Evaluation Fixed Program Costs	\$9,075,992	\$50,000 \$864,998	\$51,000 \$2,306,980	\$52,020 \$3,655,084	\$53,060 \$1,759,830	\$54,122 \$297,720	\$55,204 \$126,708	\$56,308 \$129,242	\$57,434 \$131.827	\$58,583 \$134,463	\$59,755 \$137,152	\$60,950 \$148,485	\$62,169 \$151,442	\$63,412 \$154,469	\$64,680 \$157,558	\$65,974 \$160,725	\$67,293 \$163,926	\$68,639 \$167,205	\$70,012 \$170,549
Central Controller Software Costs	*****	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$6,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
Central Controller Hardware Cost Central Controller Costs	\$106,370	\$25,000 \$30,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$25,000 \$31,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$114,809,123 \$118,756,087	\$4,880,619 \$1,748,443	\$15,677,548 \$5,930,592	\$26,150,434 \$11,705,920	\$14,851,730 \$11,844,931	\$5,568,787 \$10,596,626	\$4,276,264 \$10,240,984	\$4,092,931 \$10,057,651	\$3,909,214 \$9,873,934	\$3,725,115 \$9,689,836	\$3,540,639 \$9,505,359	\$8,039,197 \$9,658,576	\$18,025,425 \$9,995,396	\$26,891,934 \$10,571,596	\$14,408,597 \$10,845,972	\$4,776,334 \$10,887,490	\$3,642,392 \$10,901,551	\$3,650,674 \$10,915,831	\$3,659,045 \$10,930,319
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$77,233,474 \$81,180,439	\$4,514,268 \$1,382,092	\$14,137,657 \$4,390,701	\$22,752,984 \$8,308,469	\$10,610,567 \$7,603,768	\$1,240,013 \$6,267,852	\$132,228 \$6,096,948	\$134,873 \$6,099,593	\$137,570 \$6,102,290	\$140,321 \$6,105,042	\$143,128 \$6,107,848	\$4,637,834 \$6,257,214	\$14,620,216 \$6,590,187	\$23,482,880 \$7,162,541	\$10,995,698 \$7,433,073	\$1,359,583 \$7,470,739	\$221,795 \$7,480,954	\$226,231 \$7,491,387	\$230,755 \$7,502,029
UTILITY COST TEST																			
Total Benefits Total Costs	\$273,058,418 \$114,809,123																		
UCT Benefit Cost Ratio	2.38																		
TOTAL RESOURCE COST TEST																			
Total Benefits Total Costs	\$273,058,418 \$77,233,474																		
TRC Benefit Cost Ratio	3.54																		

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Residential DLC Electric	Water Heaters																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu)	YES YES YES																		
Number of Control Units Per Partcipant If Existing Program - Total Number of Partcipants Age of Existing Program - Years	1 0 20 0	18 Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		504,130	484,837	432,921	378,578	335,506	301,103	266,557	231,934	197,230	162,448	162,631	162,815	163,000	163,183	163,367	163,551	163,735	163,919
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.48%	1.35%	2.44%	3.55%	4.66%	5.71%	6.70%	7.67%	8.63%	9.58%	10.49%	11.37%	12.22%	13.06%	13.87%	14.62%	15.36%	16.08%
Participant Incentive (5/participant-Yr.)	\$8																		
Program Participation Rate (From Market Adoption Curve Tab)		1.6%	6.9%	16.1%	21.4%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	ction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	0.40																		
LOAD REDUCTION						77 165	69.254	61 308					37.447						
Number of Program Participants Base Sector CP Demand (kW)		8,116 1,810,104	33,454 1,725,643	69,700 1,523,782	80,978 1,317,433	77,166 1,154,080	69,254 1,024,341	61,308 897,253	53,345 772,626	45,363 650,168	37,363 529,948	37,405 525,235	37,447 520,665	37,490 516,232	37,532 511,878	37,574 507,674	37,617 503,792	37,659 500,019	37,701 496,291
Base Partcipant CP Demand (kW)		29,143	119,069	245,329	281,799	265,438	235,598	206,368	177,704	149,539	121,888	120,804	119,753	118,733	117,732	116,765	115,872	115,004	114,147
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction® Gen (kW)		3,247	13,382 14,193	27,880	32,391 34.356	30,867 32,739	27,701	24,523 26.011	21,338 22.633	18,145 19.246	14,945 15.852	14,962 15.870	14,979 15,888	14,996	15,013	15,030	15,047	15,064	15,081 15.995
EINERTS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$43,345,252	\$295,977	\$2,031,173	\$4,996,713	\$5,921,298	\$5,755,432	\$5,268,575	\$4,757,397	\$4,222,241	\$3,662,283	\$3,076,753	\$3,141,836	\$3,208,292	\$3,276,166	\$3,345,451	\$3,416,200	\$3,488,463	\$3,562,227	\$3,637,547
						*****													*****
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	8116	25337	36246	11278	0	0	0	0	0	0	8159	25380	36289	11320	42	42	42	42
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR P Utility/PA Per Unit Equipment Cost	A	\$70	\$71	\$73	\$74	\$76	\$77	\$79	\$80	\$82	\$84	\$85	\$87	\$89	591	\$92	\$94	596	\$98
Utility/PA Per Unit Labor Cost		\$200	\$204	\$208	\$212	\$216	\$221	\$225	\$230	\$234	\$239	\$244	587 5249	\$254	\$259	\$264	\$269	\$275	\$280
Total Utility/PA Installed Equipment Cost Per Unit		\$270	\$275	\$281	\$287	\$292	\$298	\$304	\$310	\$316	\$323	\$329	\$336	\$342	\$349	\$356	\$363	\$371	\$378
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$34,964,764 \$36,992,720	\$2,191,452 \$294,933	\$6,977,890 \$1,234,042	\$10,181,925 \$2,604,361	\$3,231,351 \$3,039,247	\$0 \$3,039,247	\$0 \$3,039,247	\$0 \$3,039,247	\$0 \$3,039,247	\$0 \$3,039,247	\$0 \$3,039,247	\$2,685,271 \$3,105,707	\$8,520,189 \$3,313,275	\$12,426,240 \$3,615,323	\$3,953,738 \$3,712,544	\$15,048 \$3,714,569	\$15,433 \$3,716,646	\$15,656 \$3,718,753	\$15,970 \$3,720,903
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment		50	50	50	50	50	50	50	\$0	50	50	50	50	50	50	50	50	50	50
Partcipant Share Installation Cost Per Unit - Labor	_	\$0	\$0	50	\$0	50	50	\$0	\$0	\$0	\$0	\$0	\$0	50	50	50	\$0	\$0	\$0
Total Participant Share of Per Unit Installed Equipment Cost Total Participant Installed Equipment Costs	60	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Costs	50	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	02.00	02.00	50.00	90.00	50.00	50.00	50.00	50.00	50.00
Participant incentive - Onity/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (\$/participant-Yr.) Total Non-Equipment Program Incentive Costs	\$4,453,809	\$8 \$64,931.92	\$8 \$267,630.25	\$8 \$557,602.06	\$8 \$647,823.52	\$8 \$617,330.17	\$8 \$554,029.11	\$8 \$490,465.67	\$8 \$426,758.46	\$8 \$362,903.18	58 \$298,903.80	\$8 \$299,241.72	\$8 \$299,579.64	\$8 \$299,919.09	\$8 \$300,256.68	\$8 \$300,594.60	58 \$300,934.36	58 \$301,272.28	\$8 \$301,610.20
Implementation		\$80,000																	
Admin Marketing		\$64,763 \$405,825	\$66,058 \$1,292,202	\$67,379 \$1.885.542	\$68,727 \$598,398	\$70,102 \$0	\$71,504 \$0	\$72,934 \$0	\$74,392 \$0	\$75,880 \$0	\$77,398 50	\$78,946 \$2,575	\$80,525 \$2,626	\$82,135 \$2,691	\$83,778 \$2,729	\$85,453 \$2,787	\$87,162 \$2,858	\$88,906 \$2,899	\$90,684 \$2,957
Evaluation Fixed Program Costs	\$5,448,435	\$50,000 \$600,588	\$51,000 \$1,409,260	\$52,020 \$2,004,941	\$53,060 \$720,186	\$54,122 \$124,223	\$55,204 \$126,708	\$56,308 \$129,242	\$57,434 \$131,827	\$58,583 \$134,463	\$59,755 \$137,152	\$60,950 \$142,470	\$62,169 \$145,319	\$63,412 \$148,238	\$64,680 \$151,188	\$65,974 \$154,214	\$67,293 \$157,314	\$68,639 \$160,444	\$70,012 \$163,653
Central Controller Software Costs		\$5,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$6,095	\$6,217	\$6.341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
Central Controller Hardware Cost Central Controller Costs	\$106,370	\$25,000 \$30,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$25,000 \$31,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$44,973,377 \$47,001,334	\$2,886,972 \$990.453	\$8,659,880 \$2,916.032	\$12,749,670 \$5.172.106	\$4,604,666 \$4,412,563	\$746,965 \$3,786,213	\$686,257 \$3,725,504	\$625,338 \$3.664.585	\$564,329 \$3.603.576	\$503,225 \$3,542,472	\$442,032 \$3,481,279	\$3,158,077 \$3,578,514	\$8,971,305 \$3,764,391	\$12,880,738 \$4,069,821	\$4,411,650 \$4,170,456	\$476,455 \$4,175,975	\$480,411 \$4,181,624	\$484,237 \$4,187,334	\$488,234 \$4,193,167
TOTAL PROGRAM COSTS - TRC (No Amortization)	\$40,519,569	\$2,822,040	\$8,392,250	\$12,192,068	\$3,956,843	\$129,635	\$132,228	\$134,873	\$137,570	\$140,321	\$143,128	\$2,858,836	\$8,671,725	\$12,580,819	\$4,111,393	\$175,860	\$179,476	\$182,965	\$186,624
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$42,547,525	\$925,521	\$2,648,402	\$4,614,504	\$3,764,739	\$3,168,883	\$3,171,475	\$3,174,120	\$3,176,817	\$3,179,569	\$3,182,375	\$3,279,272	\$3,464,811	\$3,769,902	\$3,870,199	\$3,875,381	\$3,880,689	\$3,886,062	\$3,891,557
UTILITY COST TEST	\$43,345,252																		
Total Benefits Total Costs UCT Benefit Cost Ratio	\$43,345,252 \$44,973,377 0.96																		
UCT Benefit Cost Ratio	dt.u																		
Total Benefits Total Costs	\$43,345,252 \$40,519,569																		
TRC Benefit Cost Ratio	1.07																		

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential TOU - Plug In Electric Ve	hide																	
Firm Load Reduction? (Select from drop-down menu) New Rogram? (Select from drop-down menu) Load Shifting Power? (Select from drop-down menu) Number of Control Units Per Participant I fasting (Program - Toda Number of Participants Age of Existing Program - Years	ND YES YES 1 201	8 Year End									10	11	12	13	14	15	16	17	18
Item	Carrielle Photos	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		3,014	3,630	4,337	5,562	7,303	9,283	11,502	13,961	16,300	19,613	23,335	27,065	30,098	31,994	33,889	35,784	37,680	39,575
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	4%																		
Participant Incentive (\$/kW-Yr.)	\$0																		
Program Participation Rate (From Market Adoption Curve Tab)		26.0%	28.0%	30.0%	32.0%	34.0%	36.0%	38.0%	40.0%	42.0%	44.0%	46.0%	48.0%	50.0%	52.0%	54.0%	56.0%	58.0%	60.0%
		26.0%	28.0%	30.0%	32.0%	34.0%	30.0%	38.0%	40.0%	42.0%	44.0%	40.0%	48.0%	50.0%	52.0%	54.0%	56.0%	58.0%	60.0%
Annual Number of Control Hours	1497																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Reduc	ction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	0.47																		
LOAD REDUCTION Number of Program Participants		784	1,016	1,301	1,780	2,483	3,342	4,371	5,584	6,846	8,630	10,734	12,991	15,049	16,637	18,300	20,039	21,854	23,745
Base Sector CP Demand (kW)		10,852	13,043	15,551	19,902	26,078	33,080	40,902	49,542	57,722	69,308	82,288	95,240	105,690	112,111	118,500	124,861	131,197	137,502
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction® Gen (kW)		2,822 368 391	3,652 478 507	4,665 612 649	6,369 837 887	8,867 1,167 1,238	11,909 1,571 1,655	15,543 2,054 2,179	19,817 2,625 2,784	24,243 3,218 3,413	30,496 4,056 4,302	37,852 5,045 5,351	45,715 6,105 6,475	52,845 7,073 7,502	58,298 7,819 8 294	63,990 8,601 9,123	69,922 9,418 9,990	76,094 10,272 10,895	82,501 11,160
BENEFITS	NPV	391	507	649	887	1,238	1,666	2,179	2,784	3,413	4,302	5,351	6,476	7,502	8,294	9,123	9,990	10,895	11,837
Avoided Generation Demand Firm Load Reduction?	NO																		
Coincident Peak Demand Reduction @ Gen (kW) Coincident Peak Demand Reduction @ Gen (kW) - Including Reserve Margin		391 391	507 507	649 649	887 887	1,238 1,238	1,666 1,666	2,179 2,179	2,784 2,784	3,413 3,413	4,302 4,302	5,351 5,351	6,476 6,476	7,502 7,502	8,294 8,294	9,123 9,123	9,990 9,990	10,895 10,895	11,837 11,837
Avoided Generation Cost (\$/kW-Yr.) (Nominal \$) Annual Avoided Generation Capacity Benefit	\$6,564,200	\$52.36 \$20,455	\$100.98 \$51,164	\$122.65 \$79,552	\$125.10 \$111,000	\$127.60 \$157,951	\$130.16 \$216,837	\$132.76 \$289,267	\$135.41 \$376,980	\$138.12 \$471,389	\$140.88 \$606,093	\$143.70 \$768,968	\$146.58 \$949,275	\$149.51 \$1,121,633	\$152.50	\$155.55 \$1,419,044	\$158.66 \$1,584,968	\$161.83 \$1,763,123	\$165.07 \$1,953,962
Annual Axologo Generation Capacity benet	30,304,200	444,443	222,204	410,002	,,	100,000	2220,027	*****	2010,000	,	**************************************	,,,,,,,,,	,,,,,,S	********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	**,***,**3	**,***,***
Avoided Energy Savings Coincident Peak Demand Reduction@ Gen (kW) Hours of Control		391	507	649	887	1,238	1,666	2,179	2,784	3,413	4,302	5,351	6,476	7,502	8,294	9,123	9,990	10,895	11,837
Annual Energy Saved (kWh)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost to Serve Energy During Control (S/MWh) (Nominal S) Annual Avoided Energy Benefit	50	\$35.46 \$0	\$37.51 \$0	\$41.97 \$0	\$48.44 \$0	\$52.26 \$0	\$49.85 \$0	\$55.46 \$0	\$57.69 \$0	\$59.62 \$0	\$70.33 \$0	\$73.50 \$0	\$70.12 \$0	\$72.96 \$0	\$75.65 <b>\$0</b>	\$89.00 <b>\$0</b>	\$94.68 \$0	\$99.52 \$0	\$103.60 \$0
Generation Frenze Shift																			
Coincident Peak Demand Reduction @ Gen (kW) Hours of Control		391 1,497	507 1,497	649 1,497	887 1,497	1,238 1,497	1,666 1,497	2,179 1,497	2,784 1,497	3,413 1,497	4,302	5,351 1,497	6,476 1,497	7,502 1,497	8,294 1,497	9,123 1,497	9,990 1,497	10,895 1,497	11,837 1,497
Annual Energy Shifted @ Gen		584,617	758,263	970,657	1,327,810	1,852,402	2,493,135	3,260,708	4,166,118	5,107,306	6,438,011	8,007,937	9,691,796	11,226,972	12,411,575	13,652,353	14,949,681	16,303,990	17,714,430
Cost to Serve Energy During Control (\$/MWh) (Nominal \$)		\$35.46 \$32.54	\$37.51 \$35.61	\$41.97 \$35.85	\$48.44 \$36.43	\$52.26 \$39.11	\$49.85 \$45.48	\$55.46 \$51.23	\$57.69 \$53.92	\$59.62 \$56.63	\$70.33 \$52.60	\$73.50 \$54.93	\$70.12 \$64.00	\$72.96 \$67.11	\$75.65 \$71.79	\$89.00 \$66.36	\$94.68 \$70.76	\$99.52 \$74.34	\$103.60 \$77.70
Cost to Serve Energy During Recovery (S/MWh) (Nominal S) Energy Cost Savings per MWh		\$2.92	\$1.90	\$6.13	\$12.02	\$13.15	\$4.37	\$4.23	\$3.77	52.99	\$17.72	\$18.57	\$6.12	\$5.85	\$3.85	\$22.64	\$23.92	\$25.18	\$25.90
Annual Generation Energy Shift Benefit	\$957,697	\$1,708	\$1,442	\$5,946	\$15,957	\$24,368	\$10,895	\$13,804	\$15,723	\$15,271	\$114,095	\$148,706	\$59,327	\$65,725	\$47,837	\$309,091	\$357,569	\$410,573	\$458,828
Participant Benefit per Customer (S/KW-Yr.) Total Participant Benefits	50	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 <b>\$0</b>	\$0.00 <b>\$0</b>	\$0.00 \$0	\$0.00 <b>\$0</b>	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 \$0	\$0.00 <b>\$0</b>	\$0.00 <b>\$0</b>	\$0.00 <b>\$0</b>	\$0.00 \$0	\$0.00 \$0
A sold of Western Index & Director Research																			
Annual Achievable kW Savings Annual Achievable kW Savings Avoided Transmission & Distribution (S/kW-Yr.) (Nominal S)		391	507	649	887	1,238	1,666	2,179 \$27.52	2,784	3,413 \$28.63	4,302 \$29.20	5,351 \$29.79	6,476 \$30.38	7,502	8,294	9,123	9,990	10,895	11,837 \$34.21
		\$24.43	\$24.92		\$25.93	\$26.45					\$125.628				\$31.61	\$32.24	\$32.89		
Annual Avoided T&D Benefit	\$1,367,809	\$24.43 \$9,546	\$24.92 \$12,628	\$25.42 \$16,489	\$25.93 \$23,007	\$26.45 \$32,739	\$26.98 \$44,945	\$59,958	\$78,138	\$97,707	,,	\$159,387	\$196,760	\$30.99 \$232,486	\$31.61 \$262,157	\$32.24 \$294,132	\$32.89 \$328,523	\$33.54 \$365,450	\$405,006
Annual Avoided T&D Benefit TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$1,367,809	\$24.43 \$9,546 \$81,708	\$12,628	\$25.42	\$25.93 \$23,007 \$134,007	\$26.45 \$32,739 \$190,690	\$26.98 \$44,945 \$261,781	\$59,958	\$78,138	\$97,707		\$159,387 \$928,356	\$196,760 \$1,146,036	\$232,486	\$262,157	\$294,132	\$32.89 \$328,523 \$1,913,491	\$33.54 \$365,450 \$2,128,573	\$405,026
Annual Avoided T&D Benefit		\$9,546	\$24.92 \$12,628 \$63,793	\$25.42 \$16,489	\$23,007	\$32,739	\$44,945	\$59,958	\$78,138	\$97,707	\$731,720			\$30.99 \$232,486 \$1,354,118	\$31.61 \$262,157 \$1,526,937	\$32.24 \$294,132 \$1,713,176	\$328,523	\$365,450	\$405,006
Annual Avoided T&D Benefit TOTAL UTILITY AVOIDED COSTS (BENEFITS) COSTS Newly Installed Units (Includes reglacement of units at end of useful life)		\$9,546	\$12,628	\$25.42 \$16,489	\$23,007	\$32,739	\$44,945	\$59,958	\$78,138	\$97,707				\$232,486	\$262,157	\$294,132	\$328,523	\$365,450	\$405,006
Annual Avoided T&D Bunefit TOTAL UTILITY AVOIDED COSTS (BENEFITS) COSTS Nonly for Table 1 both (Includes replacement of units at end of costni 160) Costrated That was as ONECTIC INSTALLED AND OWNED BY UTILITY OR PA		\$9,546 \$31,708 784	\$12,628 \$63,793 233	\$25.42 \$16,489 \$96,041 285	\$23,007 \$134,007 479	\$32,739 \$190,690 703	\$44,945 \$261,781 859	\$59,958 \$349,225 1029	\$78,138 \$455,119 1214	\$97,707 \$569,096 1262	\$731,720 1784	\$928,356 2104	\$1,146,036 2257	\$232,486 \$1,354,118 2058	\$262,157 \$1,526,937 1583	\$294,132 \$1,713,176 1663	\$328,523 \$1,913,491 1739	\$365,450 \$2,128,573 1815	\$405,006 \$2,358,968 1801
Annual Analosed TED Stevells  TOTAL UTILITY AVGOLG COSTS (EXTERTS)  COST Merely Installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WALL BE CONCENT VIOLATED AND CONNED BY UTILITY OF PA		\$9,546 \$31,708 784 \$252 \$48	\$12,628 \$63,793 233 5257 549	\$25.42 \$16,489 \$96,041 285 \$262 \$50	\$23,007 \$134,007 479 \$267 \$51	\$32,739 \$190,690 703 \$273 \$52	\$44,945 \$261,781 859 \$278 \$53	\$59,958 \$349,225 1029 \$284 \$54	\$78,138 \$455,119 1214 \$289 \$55	\$97,707 \$569,096 1262 \$295 \$56	\$731,720 1784 \$301 \$57	\$928,356 2104 \$307 \$59	\$1,146,036 2257 \$313 \$60	\$232,486 \$1,334,118 2058 \$320 \$51	\$262,157 \$1,526,937 1588 \$326 \$52	\$294,132 \$1,713,176 1663 \$333 \$63	\$328,523 \$1,913,491 1739 \$339 \$65	\$365,450 \$2,128,573 1815 \$346 \$66	\$405,006 \$2,358,968 1891 \$353
Annul Anside TBD Benefit  TOTAL UTILITY AUROCID COSTS (BENEFITS)  COLL Marky Installed Units (Include replacement of outs at out of used life) EQUIPMENT THAT WALL BE DESCENT VIOLATION AND OWNED BY UTILITY OF PA UTILITY AND THAT AND ADD ADD ADD ADD ADD ADD ADD ADD ADD	\$7,933,716 NPV \$4,897,615	\$3,546 \$31,708 784 \$252 548 \$300 \$235,092	\$12,628 \$63,793 233 5257 540 \$306 \$71,225	\$25.42 \$16,489 \$96,041 285 \$262 \$50 \$312 \$88,661	\$23,007 \$134,007 479	\$32,739 \$190,690 703 \$273 \$52 \$325 \$325 \$232,543	\$44,945 \$261,781 859 \$278 \$53 \$331 \$228,475	\$59,958 \$349,225 1029 \$284 \$54 \$54 \$313 \$347,505	\$78,138 \$455,119 1214 \$289 \$55 \$345 \$418,227	\$97,707 \$5569,096 1262 \$295 \$36 \$351 \$443,450	\$731,720 1784 \$301 \$57 \$359 \$639,513	\$928,356 2104 \$307 \$59 \$365 \$769,568	\$1,146,036 2257 \$313 \$60 \$373 \$841,926	\$232,486 \$1,354,118 2058 \$320 \$61 \$380 \$782,936	\$262,157 \$1,526,937 1588 \$336 \$62 \$383 \$5616,228	\$294,192 \$1,713,176 1653 5333 563 5336 5336 5658,359	\$328,523 \$1,913,491 1739 \$339 \$65 \$404 \$700,131	\$365,450 \$2,128,573 1815 \$346 \$66 \$412 \$747,630	\$405,006 \$2,358,968 1891 \$353 \$67 \$420
Annual Andread TED Sendit TOTAL UTILAT ACIDENCE COSTS (ENVIRTS) COSTS	\$7,933,716 NPV	\$9,546 \$31,708 784 \$252 \$48 \$300	\$12,628 \$63,793 233 \$257 \$49 \$306	\$25.42 \$16,489 \$96,041 285 \$262 \$50 \$312	\$23,007 \$134,007 479 \$267 \$51 \$51 \$318	\$32,739 \$190,690 703 \$273 \$52 \$325	\$44,945 \$261,781 859 \$278 \$53 \$53	\$59,958 \$349,225 1029 \$284 \$54 \$54 \$53	\$78,138 \$455,119 1214 \$289 \$55 \$345	\$97,707 \$569,096 1262 \$295 \$56 \$351	\$731,720 1784 \$301 \$57 \$339	\$928,356 2104 \$307 \$59 \$365	\$1,146,036 2257 \$313 \$60 \$373	\$232,486 \$1,354,118 2058 \$320 \$61 \$380	\$262,157 \$1,526,937 1588 \$326 \$62 \$388	\$294,132 \$1,713,176 1663 \$333 \$63 \$336	\$328,523 \$1,913,491 1739 \$339 \$65 \$404	\$365,450 \$2,128,573 1815 \$346 \$66 \$412	\$405,006 \$2,358,968 1891 \$353
Annual Annual Hib Sendit DOTAL UTILITY ALCORES COSTS (ERMIFTS) COST Howhy installed Units. Discloses registerment of units at each of used hills EQUIPADENT THAT WALL & DISCLOSE TO SIALUE DAND OWNED BY UTILITY OF AN UTILITY AND AND ALL COSTS (CONTROLMED AND OWNED BY UTILITY OF AN UTILITY AND	\$7,933,716 NPV \$4,897,615	\$3,546 \$31,708 784 \$252 548 \$300 \$235,092	\$12,628 \$63,793 233 5257 540 \$306 \$71,225	\$25.42 \$16,489 \$96,041 285 \$262 \$50 \$312 \$88,661	\$23,007 \$134,007 479 \$267 \$51 \$51 \$318	\$32,739 \$190,690 703 \$273 \$52 \$325 \$325 \$238,343	\$44,945 \$261,781 859 \$278 \$53 \$331 \$228,475	\$59,958 \$349,225 1029 \$284 \$54 \$54 \$313 \$347,505	\$78,138 \$455,119 1214 \$289 \$55 \$345 \$418,227	\$97,707 \$5569,096 1262 \$295 \$36 \$351 \$443,450	\$731,720 1784 \$301 \$57 \$359 \$639,513	\$928,356 2104 \$307 \$59 \$365 \$769,568	\$1,146,036 2257 \$313 \$60 \$373 \$841,926	\$232,486 \$1,354,118 2058 \$320 \$61 \$380 \$782,936	\$262,157 \$1,526,937 1588 \$336 \$62 \$383 \$5616,228	\$294,192 \$1,713,176 1653 5333 563 5336 5336 5658,359	\$328,523 \$1,913,491 1739 \$339 \$65 \$404 \$700,131	\$365,450 \$2,128,573 1815 \$346 \$66 \$412 \$747,630 \$688,595 \$688,595 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$420
Annual Analosed TBD Benefit  TOTAL UTILITY ANDRESS COSTS (BENEFITS)  COSTS  Cost of the Cost of Cost of the Cost of Cost o	\$7,933,716 NPV \$4,897,615	\$9,546 \$31,708 784 \$252 \$48 \$300 \$235,092 \$20,165 \$00 \$0 \$0 \$0	\$12,628 \$63,793 233 5257 540 5306 \$71,225 \$26,274 \$0 50 50 50	\$25.42 \$16,489 \$96,041 285 \$162 \$162 \$162 \$162 \$162 \$162 \$162 \$162	\$23,007 \$134,007 479 \$267 \$51 \$318 \$152,413 \$46,969 \$0 \$0 \$0 \$0	\$32,739 \$190,690 703 \$2273 \$522 \$335 \$228,348 \$66,555 \$20,348 \$66,555 \$200 \$00 \$00 \$00 \$00	\$44,945 \$261,781 859 \$278 \$53 \$331 \$228,475 \$00,956 \$00 \$0 \$0 \$0	\$\$9,958 \$349,225 1029 \$284 \$54 \$54 \$347,506 \$120,772 \$0 \$0 \$0 \$0	\$78,138 \$455,119 1214 5289 535 5345 \$418,227 \$156,645 \$0 \$0 \$0	\$97,707 \$569,096 1262 \$295 \$536 \$351 \$443,450 \$194,681 \$0 \$0 \$0 \$0	\$731,720 1784 \$301 \$305 \$359 \$639,513 \$249,535 \$0 \$0 \$0 \$0	\$928,356 2104 \$307 \$366 \$799,568 \$315,544 \$0 \$0 \$0 \$0	\$1,146,036 2257 \$313 \$50 \$373 \$841,026 \$387,760 \$0 \$0 \$0 \$0 \$0	\$232,486 \$1,334,118 2058 \$320 \$61 \$380 \$782,936 \$454,916 \$0 \$0 \$0 \$0 \$0	\$262,157 \$1,526,937 1588 \$326 \$62 \$388 \$616,228 \$507,772 \$0 \$0 \$0 \$0	\$294,132 \$1,713,176 1663 \$333 \$63 \$535 \$658,359 \$5664,243 \$0 \$0 \$0 \$0 \$0	\$328,523 \$1,913,491 1739 \$339 \$65 \$404 \$700,131 \$624,468 \$0 \$0 \$0 \$0	\$365,450 \$2,128,573 1815 \$346 \$412 \$747,630 \$688,595 \$0 \$0 \$0 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$420 \$794,189 \$756,716 \$0 \$0 \$0 \$0 \$0
Annual Analoked TED Benefit TOTAL URLAT ANODEC COSTS (BENEFITS) COSTS	\$7,933,716 NPV \$4,897,615	\$9,546 \$81,708 784 \$2552 \$48 \$300 \$235,092 \$20,165 \$235,092 \$20,165 \$30 \$20,165 \$25,092 \$20,165 \$20,105 \$	\$12,628 \$63,793 233 5257 \$40 \$306 \$71,225 \$26,274 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$25.42 \$16,489 \$96,041 285 \$162 \$162 \$162 \$162 \$162 \$162 \$162 \$162	\$23,007 \$134,007 470 \$267 \$51 \$318 \$152,413 \$46,969	\$32,739 \$190,690 703 552 552 5325 5325 542,848 546,555 50 50 50 50.00	\$44,945 \$261,781 859 \$278 \$331 \$224,475 \$20,956 \$0,956 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$59,958 \$349,225 1029 5284 534 534 534 534 544 534 544 534 544 54	\$78,138 \$455,119 2214 5289 5355 53455 53455 5418,227 5156,645 50 50 50 50 50 50	\$97,707 \$569,096 1262 \$105 \$56 \$56 \$556 \$43,450 \$44,351 \$44,351 \$44,361	\$731,720 1784 \$301 \$57 \$139 \$689,513 \$249,515 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$928,356 2104 5307 559 5366 5769,568 5315,544 50 50 50 50 50 50 00	51,146,036 2257 5313 560 5373 584,926 5387,760 50 50 50 50 50 50 50 50 00	\$232,486 \$1,354,118 2058 \$330 \$61 \$380 \$782,936 \$454,916	\$262,157 \$1,526,997 1588 \$3276 \$62 \$3388 \$616,228 \$507,772	\$294,132 \$1,713,176 1663 5333 543 543 545 5458,559 5564,243 50 50 50 50 50 50 50.00	\$328,523 \$1,913,491 1739 5339 5454 5455 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 5454 545 545 545 545 545 545 545 545 545 545 545 545 545 545 545 545 545 545 5474 5475 54757 54757 54757 54757 5475757 5475757575757575757575757	\$365,450 \$2,128,578 1815 \$346 \$462 \$412 \$747,530 \$688,595 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$420 \$794,189 \$756,716
Anaul Anakide 10.0 Bendli DOLULINUT ANORES COSTS (BENDERS) COST Merch Instantia Units (Includes replacement of units at end of unit Info EQUIPACT THAT YALE AND COST UNITS (INCLUDES AND OWNED BY UTILITY OF AN UNITS (INCLUDES AND OWNED BY UTILITY OF AN UNITS (INCLUDES AND OWNED BY UTILITY OF AN UNITS (INCLUDES AND OWNED BY UTILITY OF AND UNITS (INCLUDES AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND OWNED BY AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND OWNED BY AND OWNED BY UTILITY OF AND OWNED BY UTILITY OWNED BY UTILITY OF AND OWNED BY UTILITY OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND OWNED BY UTILITY OF AND OWNED BY UTILITY OWNED BY UTILITY OWNED BY UTILITY OWNED BY UTILITY OW	\$7,933,716 NPV \$4,897,615	\$9,546 \$31,708 784 \$252 \$48 \$300 \$235,092 \$20,165 \$00 \$0 \$0 \$0	\$12,628 \$63,793 233 5257 540 5306 \$71,225 \$26,274 \$0 50 50 50	\$25.42 \$16,489 \$96,041 285 \$162 \$162 \$162 \$162 \$162 \$162 \$162 \$162	\$23,007 \$134,007 479 \$267 \$51 \$318 \$152,413 \$46,969 \$0 \$0 \$0 \$0	\$32,739 \$190,690 703 \$2273 \$522 \$335 \$228,348 \$66,555 \$20,348 \$66,555 \$200 \$00 \$00 \$00 \$00	\$44,945 \$261,781 859 \$278 \$53 \$331 \$228,475 \$90,956 \$0 \$0 \$0 \$0	\$\$9,958 \$349,225 1029 \$284 \$54 \$54 \$347,506 \$120,772 \$0 \$0 \$0 \$0	\$78,138 \$455,119 1214 5289 535 5345 \$418,227 \$156,645 \$0 \$0 \$0	\$97,707 \$569,096 1262 \$295 \$536 \$351 \$443,450 \$194,681 \$0 \$0 \$0 \$0	\$731,720 1784 \$301 \$305 \$359 \$639,513 \$249,535 \$0 \$0 \$0 \$0	\$928,356 2104 \$307 \$366 \$799,568 \$315,544 \$0 \$0 \$0 \$0	\$1,146,036 2257 \$313 \$50 \$373 \$841,026 \$387,760 \$0 \$0 \$0 \$0 \$0	\$232,486 \$1,334,118 2058 \$320 \$61 \$380 \$782,936 \$454,916 \$0 \$0 \$0 \$0 \$0	\$262,157 \$1,526,937 1588 \$326 \$62 \$388 \$616,228 \$507,772 \$0 \$0 \$0 \$0	\$294,132 \$1,713,176 1663 \$333 \$63 \$535 \$658,359 \$5664,243 \$0 \$0 \$0 \$0 \$0	\$328,523 \$1,913,491 1739 \$339 \$65 \$404 \$700,131 \$624,468 \$0 \$0 \$0 \$0	\$365,450 \$2,128,573 1815 \$346 \$412 \$747,630 \$688,595 \$0 \$0 \$0 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$420 \$794,189 \$756,716 \$0 \$0 \$0 \$0 \$0
Annul Availed TEB Iteraffi  DECLEMENT AVAILABLE COSTS (EXHIFTS)  COST  Many Installer Utility Declear inglescener of units at our of unant life Cognitized That's Walk, ED ANCE THIS STALL DECLEAR DEC	\$7,933,716 NPV \$4,897,615	59,546 531,708 784 5255 548 520,002 520,045 50 50 50 50 50 50 50 50 50 5	\$12,628 \$63,793 233 5257 540 526,574 526,574 526,574 50 50 50 50 50 50 50 50 50 50	92542 \$16,489 \$96,641 285 \$50 \$112 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$23,007 \$134,007 479 479 5267 551 55138 546,969 50 50 50 50 50 50 50 50 50 50	\$32,739 5190,690 703 5273 553 553 555 5223,343 566,555 50 50 50 50 50 50 50 50 50	\$44,945 \$261,781 859 \$278 \$53 \$5331 \$228,475 \$50,056 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0	\$59,958 \$349,225 1029 \$284 \$54 \$547,605 \$120,772 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	578,138 5455,119 1214 5289 555 5418,227 5156,645 50 50 50 50 50 50 50 50 50 5	\$97,797 \$569,096 1255 \$255 \$556 \$555 \$556 \$555 \$556 \$566 \$5566 \$556 \$556 \$556 \$556 \$556	5731,720 1784 5301 557 5539 5649,533 5249,533 50 50 50 50 50 50 50 50 50 50	5928,356 2104 5307 559 5366 5760,568 5315,544 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,036 2257 \$313 \$60 \$50 \$373 \$841,05 \$387,760 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$232,486 \$1,354,118 2058 \$320 \$61 \$320 \$722,936 \$454,936 \$454,936 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$262,157 \$1,526,997 1588 5326 545 545 545 545 545 545 545 54	\$294,132 \$1,713,176 1063 \$333 \$433 \$433 \$433 \$433 \$433 \$434 \$434 \$5454,243 \$564,243 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$328,523 \$1,913,491 1739 5339 545 5404 5702,331 5624,468 50 50 50 50 50 50 50 50 50 50	\$365,450 \$2,128,573 1815 \$346 \$66 \$412 \$747,530 \$688,995 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$794,389 \$796,716 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Annual Andread Tab Sendit TOTAL LINET ANGREE COSTS (EMPARTS) COSTS CO	\$7,933,716 NPV \$4,897,615	59,546 531,708 784 5252 540 5300 5300 5300 500 50 50 50 50 50 50 50 50	\$12,628 \$63,799 233 5257 540 5305 5305 531,225 5305 531,225 5305 50 50 50 50 50 50 50 50 50	\$25.42 \$16,489 \$96,041 285 285 5362 550 5312 533,896 \$33,896 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23,007 \$134,007 479 \$267 \$51 \$318 \$152,413 \$46,969 \$0 \$0 \$0 \$0	\$32,739 5190,690 703 5273 552 5328,343 566,555 50 50 50 50 50 50 50 50 50	\$44,943 \$285,781 \$59 \$278 \$531 \$228,475 \$500,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	539,938 5349,225 1029 5284 5340,665 5320,775 5320,775 5320,	578,138 5455,119 1224 5289 535 535 535 535 535 535 535 535 535 53	\$97,797 \$568,096 1262 \$295 \$568,096 1262 \$295 \$556,096 \$355 \$355 \$44,860 \$519648,460 \$519648,460 \$519648,460 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	5711,720 1784 5301 5359 5589,533 5249,535 50 50 50 50 50 50 50 50 50 50 50 50 50	9928,156 2104 507 556 5765,564 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,096 2257 \$113 \$60 \$177 \$184,1206 \$387,760 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3232,485 33,354,118 2058 3320 551 5330 5720,985 5444,985 5444,985 5444,985 5444,985 5444,985 5444,985 544,985 544,985 50 50 50 50 50 50 50 50 50 5	\$242,137 \$1,526,397 51,526,397 1588 \$326 562 563 563 563 564 563 564 563 564 563 564 563 564 563 563 563 563 563 563 563 563	\$254,132 \$1,733,176 1563 5333 5563 55	\$128,523 \$1,913,491 1739 \$339 \$65 \$404 \$702,131 \$624,468 \$0 \$0 \$0 \$0.00 \$0 \$0.00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0.00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$365,450 \$2,128,573 1815 \$346 \$46 \$412 \$747,630 \$668,595 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3405,006 32,358,958 353 3574,359 3794,359 3794,359 3794,359 30 30 30 30 30 30 30 30 30 30
Anal Availed TBD Sectil	\$7,933,716 NPV \$4,897,615	59,546 531,708 784 5255 548 520,002 520,045 50 50 50 50 50 50 50 50 50 5	\$12,628 \$63,793 233 5257 540 526,574 526,574 526,574 50 50 50 50 50 50 50 50 50 50	92542 \$16,489 \$96,641 285 \$562 \$112 \$562 \$112 \$562 \$112 \$562 \$512 \$562 \$512 \$562 \$502	\$23,007 \$134,007 479 479 5267 551 55138 546,969 50 50 50 50 50 50 50 50 50 50	\$32,739 5190,690 703 5273 553 553 555 5223,343 566,555 50 50 50 50 50 50 50 50 50	\$44,945 \$261,781 859 \$278 \$53 \$5331 \$228,475 \$50,056 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0	\$59,958 \$349,225 1029 \$284 \$54 \$547,605 \$120,772 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	578,138 5455,119 1214 5289 555 5418,227 5156,645 50 50 50 50 50 50 50 50 50 5	\$97,797 \$569,096 1255 \$255 \$556 \$555 \$556 \$555 \$556 \$566 \$5566 \$556 \$556 \$556 \$556 \$556	5731,720 1784 5301 557 5539 5649,533 5249,533 50 50 50 50 50 50 50 50 50 50	5928,356 2104 5307 559 5366 5760,568 5315,544 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,036 2257 \$313 \$60 \$50 \$373 \$841,05 \$387,760 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$232,486 \$1,354,118 2058 \$320 \$61 \$320 \$722,936 \$454,936 \$454,936 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$262,157 \$1,526,997 1588 5326 545 545 545 545 545 545 545 54	\$294,132 \$1,713,176 1063 \$333 \$433 \$433 \$433 \$433 \$433 \$434 \$434 \$5454,243 \$564,243 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$328,523 \$1,913,491 1739 5339 545 5404 5702,331 5624,468 50 50 50 50 50 50 50 50 50 50	\$365,450 \$2,128,573 1815 \$346 \$66 \$412 \$747,530 \$688,995 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$405,006 \$2,358,968 1891 \$353 \$67 \$794,389 \$796,716 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Analysia Andread Tab Sensiti THE Analysia Andread Tab Sensiti THE ANALYSIA AND AND AND AND AND AND AND AND AND AN	\$7,933,716 NPV \$4,897,615	59,546 531,708 784 5252 540 5300 5300 5300 500 50 50 50 50 50 50 50 50	\$12,628 \$63,799 233 5257 540 5305 531,225 5305 531,225 5305 531,225 5305 531,225 5305 531,235 530 530 530 530 530 530 530 5	92542 \$16,489 \$96,641 285 \$50 \$50 \$512 \$523 \$512 \$512 \$512 \$512 \$512 \$512 \$512 \$512 \$512 \$512 \$512 \$515 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	\$21,007 \$134,007 479 \$267 \$513	\$32,799 \$330,690 703 \$273 \$225 \$228,144 \$56,557 \$20,144 \$56,557 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$44,943 \$285,781 \$59 \$278 \$531 \$228,475 \$500,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	539,938 5349,225 1029 5284 5340,665 5320,775 5320,775 5320,	578,138 5455,119 1224 5289 535 535 535 535 535 535 535 535 535 53	\$97,797 \$568,096 1262 \$295 \$568,096 1262 \$295 \$556,096 \$355 \$355 \$44,860 \$519648,460 \$519648,460 \$519648,460 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	5711,720 1784 5301 5359 5589,533 5249,535 50 50 50 50 50 50 50 50 50 50 50 50 50	9928,156 2104 507 556 5765,564 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,096 2257 \$113 \$60 \$177 \$184,1206 \$387,760 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3232,485 33,354,118 2058 3320 551 5330 5720,955 5444,955 5444,955 5444,955 5444,955 5444,955 5444,955 5444,955 50 50 50 50 50 50 50 50 50	\$242,137 \$1,526,397 51,526,397 1588 \$326 562 563 563 563 564 563 564 563 564 563 564 564 564 564 565 565 565 565	\$254,132 \$1,733,176 1563 5333 5563 55	\$328,523 \$1,921,492 1739 5339 5404 5504 500 500 50 50 50 50 50 50 50	\$365,490 \$2,128,373 1815 \$346 \$546 \$546 \$542 \$547,230 \$500 \$50 \$50 \$50 \$50 \$50 \$50 \$	3405,006 32,358,958 353 3574,359 3794,359 3794,359 3794,359 30 30 30 30 30 30 30 30 30 30
Anal Analaded TAD Bearlin  Torong Control (1999)  Torong Control (19	\$7,933,716 NPV \$4,897,615	59,546 531,708 784 5252 540 5300 5325,002 530,002 50 50 50 50 50 50 50 50 50 50	\$12,628 \$63,799 233 5257 540 5305 531,225 5305 531,225 5305 531,225 5305 531,225 5305 531,235 530 530 530 530 530 530 530 5	92542 \$16,489 \$96,641 285 \$50 \$50 \$512 \$512 \$548,861 \$33,896 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$21,007 \$134,007 479 \$267 \$513	\$32,799 \$330,690 703 \$273 \$225 \$228,144 \$56,525 \$228,144 \$56,525 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$44,943 \$285,781 \$59 \$278 \$531 \$228,475 \$500,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	539,938 5349,225 1029 5284 5340,665 5320,775 5320,775 5320,	578,138 5455,119 1224 5289 535 535 535 535 535 535 535 535 535 53	\$97,797 \$568,096 1262 \$295 \$568,096 1262 \$295 \$556,096 \$355 \$355 \$44,860 \$519648,460 \$519648,460 \$519648,460 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$5	5711,720 1784 5301 5359 5589,533 5249,535 50 50 50 50 50 50 50 50 50 50 50 50 50	9928,156 2104 507 556 5765,564 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,096 2257 \$113 \$60 \$177 \$184,1206 \$387,760 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	3232,485 33,354,118 2058 3320 551 5330 5720,985 5444,985 5444,985 5444,985 5444,985 5444,985 5444,985 544,985 544,985 50 50 50 50 50 50 50 50 50 5	\$242,137 \$1,526,397 51,526,397 1588 \$326 562 563 563 563 564 563 564 563 564 563 564 564 564 564 565 565 565 565	\$254,132 \$1,733,176 1563 5333 5563 5563 5563,855 5564,855 5564,855 5564,855 5564,855 5564,855 5564,855 5564,855 5564,855 5564,855 5564,855 5563 557 557 557 557 557 557 557 55	\$328,523 \$1,921,492 1739 5339 5404 5504 500 500 50 50 50 50 50 50 50	\$365,490 \$2,128,373 1815 \$346 \$546 \$546 \$542 \$547,230 \$500 \$50 \$50 \$50 \$50 \$50 \$50 \$	3405,006 32,358,958 353 3574,359 3794,359 3794,359 3794,359 30 30 30 30 30 30 30 30 30 30
Analysis and the Benefit Description of the State of the	57,483,755 NPV 54,897,655 54,793,200 50 50 50	\$9,546 <b>331,706</b> 784 3532 545 500 520,165 50 50 50 50 50 50 50 50 50 5	\$12,628 \$63,793 233 536 506 571,225 326,274 50 50 50 50 50 50 50 50 50 50	92542 316,489 996,641 285 3522 5533 5333 533,964 534,964 535,964 545,964 545,964 545,964 545,964 545,964 545,964 555,964,964 555,964,964,964,964,964,964,964,964,964,964	\$21,607 \$134,007 479 479 535 5314 535 5318 5318 5318 5318 5318 531 5318 531 5318 531 5318 531 5318 531 5318 531 5318 531 5318 531 5318 531 5318 531 5318 5	\$32,799 \$390,499 703 \$373 \$52 \$323,843 \$233,843 \$233,843 \$253,855 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	\$44,843 \$281,781 \$59 \$57 \$53 \$53 \$53 \$53 \$50 \$55 \$50 \$55 \$50 \$55 \$50 \$55 \$50 \$55 \$50 \$55 \$50 \$55 \$50 \$55 \$55	539,938 5349,225 1029 2284 538 538 538 538 538 538 538 538	578,138 5455,139 1224 5280 5285 5385 5458,257 5356,645 50 50 50 50 50 50 50 50 50 5	\$97,797 \$569,096 1252 5355 5351	5731,720 1784 3301 555 555 555 555 555 550 550 5	9228,156 2204 3203 5865 5765,564 50 50 500 500 500 500 500 500	\$1,146,096 2257 5101 5101 5341,026 5343,026 5343,026 500 500 500 500 5221,125	3232,486 353,354,118 2058 3120 5451 5454,376 5454,376 50 00 00 00 00 00 00 00 00 00	\$242,137 \$1,526,937 1588 \$155 \$255 \$567,772 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$254,132 \$1,733,176 1663 5333 5366 5368,839 5564,243 80 0 0 0 0 0 0 0 0 0 0 0 0 0	5328,533 53,931,491 1739 5339 5539 5504 503 503 503 503 500 500 500 500	5365,490 53,128,573 1815 3446 5462 541 541 541 541 541 541 541 541	5405,006 52,338,468 
Anari Ankaler HD Bentli  TUTUTT ANODEC COTS (BENTLING)  COTS  COTS COTS	57,483,755 NPV 54,897,655 54,793,200 50 50 50	39,546 311,768 784 345 346 350 3235,692 3235,692 320,592 30,00 30 30 30 30 30 30 30 30 30 30 30 30 3	512,628 543,793 233 545 545 545 545 545 545 545 556 557 557 557 557 557 557 557 557 55	525.42 516,489 586,441 285 586,441 285 580,461 580,461 580,581 580,581 590 500 500 500 500 500 500 500 500 500	\$11,607 \$114,607 4.79 4.79 5.51	\$32,799 5190,499 703 527 527 5228,143 566,59 50 50 50 50 50 50 50 50 50 50	\$44,845 5261,781 857 857 857 857 857 857 857 850 850 850 850 850 850 850 850	59,938 599,938 1009 1009 534 534 534 534 534 534 534 534	578,188 5455,113 1224 1224 555 555 555 555 555 555 555	\$97,777 \$569,096 1262 1262 5355 5555 5555 5555 555 555 555	\$731,720 1784 5101 557 559 559,933 5249,533 50 50 50 50 50 50 50 50 50 50	9238,356 2204 5307 556 5790,568 5315,546 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,086 2257 5113 560 5377 3342,026 5342,026 5342,026 5342,026 5342,026 5342,026 5342,026 50 50 50 50 50 50 50 50 50 50 50 50 50	3232,486 35,354,118 2058 353 353 353 358 358 359 350 350 350 350 350 350 350 350	5262,137 51,526,937 533,526,937 538 537 538 557 538 557 50 50 50 50 50 50 50 50 50 50	5294,132 54,713,736 5653 5533 5543 5563 5563,859 5563,859 5563,859 500 500 500 500 500 500 500 5	5328,533 51,933,491 1739 5336 5454 5702,131 52454 50 50 50 50 50 50 50 50 50 50	5365,490 52,128,573 1815 546 547 547 547 547 547 50 50 50 50 50 50 50 50 50 50	\$405,006 \$2,338,468 .801 .801 .801 .503 .5
Anala Acadea Tab Bearts	97,883,746 AVV 54,097,635 54,097,635 54,097,635 50 50 50 51,786,082 51,786,082	59,546 511,708 784 5322 545 520 520 520 500 500 500 500 50	512,628 543,793 233 5257 599 512,527 5	535.42 536,49 546,441 245 526 527 528 527 528 527 528 527 528 527 528 527 528 527 528 527 528 527 528 529 50 50 50 50 50 50 50 50 50 50	\$21,607 \$114,607 479 5267 531 535,509 50 50 50 50 50 50 50 50 50 50	\$32,799 \$390,499 703 \$273 \$23 \$23 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	544,545 5261,781 539 5278 533 533 533 533 533 533 533 53	599,938 5349,223 1023 5244 534 534 534 534 534 534 534 5	578,138 5455,119 1214 5280 5355 5355 5355 535 535 535 535	597,797 5568,095 1262 2252 5355 545463 5934,683 5934,683 5934,683 5934,683 5934,683 5934,683 5934,683 5934,683 5934,693 5935,0052 5936,005	5731,720 1734 500 5589,533 5289,535 500 500 500 500 500 500 500	9978,356 2104 507 556 5766,554 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,146,695 2257 5113 5113 5173 5173 5187,700 50 50 50 50 50 50 50 50 50	5232,486 53,354,138 51,200 50,200	5282,137 51,528,537 1583 5126 523 523 523 523 523 523 523 523	5254,132 53,733,735 1663 5333 5333 5353 5353 5353 5353 5353 5353 5353 5353 5354 535 535	5328,523 51,921,491 1739 5339 555 555 555 5524,468 50 500 500 500 500 500 500 500	3365,490 52,328,573 1815 3346 565 567 5777,587 5777,587 507 507 507 507 507 507 507 50	5405,006 52,358,668 53,358,668 55,353 55,55 50 50 50 50 50 50 50 50 50 50 50 50 5
Anal Academ Tab Beams:  To Carrier Construction of the Second Sec	57,383,716 NY 55,993,555 56,993,555 50 50 50 50 50 50 50 50 50 50 50 50	59,546 591,768 784 552,52 550,0 523,593 520,170 5204,170 500 500 500 500 500 500 500 5	512,628 543,793 233 5257 535,237 535,237 535,237 536,237 537,237 5	525.42 536,489 596,641 285 556,641 285 556,641 285 556,641 556,641 556,641 556,641 556,641 556,641 556,641 556,649 557,556 560,641 556,649 557,556 557,556 557,556 557,557,	\$21,007 \$114,007 4.73 5.2577 5.257 5.257 5.25777 5.25777 5.25777 5.25777 5.25777 5.25777 5.25777 5.257777 5.25777 5.257777 5.257777 5.2577777 5.25	532,799 5190,409 703 5275 5275	544,545 5761,781 577 577 577 577 577 577 577 57	59,938 5349,223 1033 3284 5347,665 5347,665 5347,665 5347,665 5347,665 5347,665 5347,665 5347,655 5347,121 5311,121 531 5311,121 531 531 531 531 531 531 531 53	578,138 5445,119 1224 3280 530 5448,247 5356,645 50 50 50 50 50 50 50 50 50 5	597,777 5568,095 1202 5355 5555 5555 5555 5555 5555 5555 5555 555	3731,720 1784 500 5309 530	9978,354 2.04 5.07 5.86 5.86 5.97 5.86 5.97 5.96 5.97 5.96 5.97 5.95 5.90 5.90 5.90 5.90 5.90 5.90 5.90	51,146,695 2257 5113 5173 5484,202 5484,2	3222,486 31,354,118 2053 51,20 51,20 51,20 51,20 51,20 51,20 51,20 50 50 50 50 50 50 50 50 50 5	5262,37 51,326,397 1588 5355 5355 5355 5357,772 5367,772 5367,774 5366,774 5366,774 5366,774 5368,774 5	5294,132 51,733,176 	5328,523 51,513,491 7739 5339 5434 5434 5434 5434,483 5424,483 5424,483 5424,483 5424,483 5424,487 5324	3365,490 52,128,573 1815 3346 5442 54	5405,066 52,358,568 1891 1891 5333 533 533 533 533 533 533 5
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Anale Andread Tab Sendit Description of the Sendit	97,883,746 27,70 24,007,635 54,007,635 54,007,635 50 50 50 50 50 50 50 50 50 50 50 50 50	59,546 511,768 734 5252 535 535	512,628 543,793 233 537 537 537 537 537 537 536,274 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 546,569 50 50 50 50 50 50 50 50 50 50	532,799 539,499 703 5273 522 522 522 522 522 522 522 52	544,545 5261,781 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 50 50 50 50 50 50 50 50 50 50	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5354,2433 5364,2433 5364,2433 5364,2433 530 530,007 53156,47	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 547 5474 5474 5474 5485,595 50 50 50 50 50 50 50 50 50 5	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545
Ander Starb starts: Start Star	97,883,746 27,70 24,007,635 54,007,635 54,007,635 50 50 50 50 50 50 50 50 50 50 50 50 50	59,546 511,768 734 5252 535 535	512,628 543,793 233 537 537 537 537 537 537 536,274 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 546,569 50 50 50 50 50 50 50 50 50 50	532,799 5382,499 703 5275 5275	544,545 5261,781 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 50 50 50 50 50 50 50 50 50 50	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5343 5343 5343 5343 5343 5354,2433 530 530 530 530 530 530 530 5	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 547 5474 5474 5474 5485,595 50 50 50 50 50 50 50 50 50 5	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545
Analysis and the sentit Construction of the sentite registerior of the sentite of the sentite of the sentite registerior of the	97,883,746 27,70 24,007,635 54,007,635 54,007,635 50 50 50 50 50 50 50 50 50 50 50 50 50	59,546 511,768 734 5252 535 535	512,628 543,793 233 537 537 537 537 537 537 536,274 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 535 546,569 50 50 50 50 50 50 50 50 50 50	532,799 5382,499 703 5275 5275	544,545 5261,781 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 50 50 50 50 50 50 50 50 50 50	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5343 5343 5343 5343 5343 5354,2433 530 530 530 530 530 530 530 5	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 547 5474 5474 5474 5485,595 50 50 50 50 50 50 50 50 50 5	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545
Anal Acaded Tie Dentifi Dentification of the Second Secon	97,383,746 NPC 54,197,255 54,792,208 30 30 30 51,788,981 30 51,788,981 30 51,788,981 30 51,788,981 30 51,788,981 51,788,991 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,985,985,985,985,985,985,985,985,985,9	59,546 511,768 734 5252 535 535	512,628 543,793 233 537 537 537 537 537 537 536,274 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 535 546,569 50 50 50 50 50 50 50 50 50 50	532,799 5382,499 703 5275 5275	544,545 5261,781 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 50 50 50 50 50 50 50 50 50 50	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5343 5343 5343 5343 5343 5354,2433 530 530 530 530 530 530 530 5	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 547 5474 5474 5474 5485,595 50 50 50 50 50 50 50 50 50 5	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545
Ander Stander	97,383,746 AV7 54,997,455 54,997,455 54,997,456 60 90 90 90 90 90 90 90 90 90 90 90 90 90	59,546 511,768 734 5252 535 535	512,628 543,793 233 537 537 537 537 537 537 536,274 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 535 546,569 50 50 50 50 50 50 50 50 50 50	532,799 5382,499 703 5275 5275	544,545 5261,781 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 5278 50 50 50 50 50 50 50 50 50 50	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5343 5343 5343 5343 5343 5354,2433 530 530 530 530 530 530 530 5	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 546 547 5747,333 5968,509 50 50 50 50 50 50 50 50 50 50	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545
Anal Acaded Tie Dentifi Dentification of the Second Secon	97,383,746 NPC 54,197,255 54,792,208 30 30 30 51,788,981 30 51,788,981 30 51,788,981 30 51,788,981 30 51,788,981 51,788,991 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,981 51,788,985,985,985,985,985,985,985,985,985,9	59,546 511,768 734 5252 535 535	512,628 543,793 233 5337 5337 5337 5337 5337 5337 534,224 50 50 50 50 50 50 50 50 50 50	535.42 536,49 546,441 245 530,50 540,451 5	\$31,607 5114,607 479 5267 531 532,57 531 532,638 535 535 535 535 535 535 535 5	532,799 5382,499 703 5275 5275	544,545 5261,781 5378	599,958 5349,223 1029 2244 5347,259 5347,	578,138 5465,119 1224 5280 5465,119 5468,257 5468,257 50 50 50 50 50 50 50 50 50 50	597,777 5568,095 1255 555 555 555 555 555 555 555 55 55 55	5731,720 1784 5001 5509 5509 5509 5509 5509 500 500	9978,956 2204 5007 5769,586 5769,586 500 500 500 500 500 500 500 50	\$1,146,696 2257 5313 5373 544,206 5382,7806 50 50 50 50 50 50 50 50 50 50	522,466 53,354,118 700 700 700 700 700 700 700 700 700 70	5262,137 51,326,337 1588 5126 522 5562,337 5562,37	5294,132 53,733,176 1663 5333 5333 5333 5333 5333 5333 5333 5333 5343 5343 5343 5343 5343 5343 5354,2433 53 530,077 53156,477 53 53 53 53 53 53 53 53 53 53	5328,533 51,531,453 7739 5339 5539 5539 5539,468 50 500 500 500 500 500 500 500	3365,490 32,328,573 1815 5346 547 5474 5474 5474 5485,595 50 50 50 50 50 50 50 50 50 5	\$465,06 \$2385,468 1851 5333 5542 5542 5542,185 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3544,1855 3545

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Residential Critical Peal	k Pricing with Enal																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Nember of Control Units Pr Partigaet If Existing Program - Total Number of Pantigaets Age of Existing Program - Years	NO YES YES 1.095 20	18 Year End								9	10	11	12	13	14	15	16	17	18
Item		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		91,144	182,644	274,442	366,501	458,828	551,324	643,943	736,771	829,808	923,055	924,100	925,145	926,190	927,236	928,281	929,326	930,371	931,416
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.52%	1.25%	1.99%	2.81%	3.66%	4.40%	5.14%	5.84%	6.52%	7.10%	7.63%	8.11%	8.55%	8.95%	9.39%	9.78%	10.14%	10.48%
Participant Incentive (\$/kW-Yr.)	\$0																		
Program Participation Rate (From Market Adoption Curve Tab)		1.5%	6.6%	15.4%	20.5%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%	22.0%
Annual Number of Control Hours	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	23.4%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants		1,404	12,055	42,264	74,986	100,942	121,291	141,667	162,090	182,558	203,072	203,302	203,532	203,762	203,992	204,222	204,452	204,682	204,912
Base Sector CP Demand (kW) Base Partrinant CP Demand (kW)		327,131	650,742	970,487	1,285,125	1,594,851 350.867	1,901,610	2,203,928	2,503,028	2,798,850	3,093,719	3,079,722	3,067,185	3,055,897	3,045,620	3,034,621	3,024,915	3,016,458	3,008,409
Coincident Peak Demand Reduction (kW)		1,181	10,067	35,032	61,632	82,243	98,062	113,652	129,076	144,331	159,537	158,815	158,169	157,586	157,057	156,489	155,989	155,553	155,138
Coincident Peak Demand Reduction@ Gen (kW)	NPV	1,253	10,678	37,158	65,372	87,233	104,012	120,547	136,907	153,088	169,216	168,450	167,765	167,147	166,585	165,984	165,453	164,990	164,550
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$216,203,993	\$96,406	\$1,344,369	\$5,501,960	\$9,873,203	\$13,438,478	\$16,343,747	\$19,320,920	\$22,381,863	\$25,527,620	\$28,781,390	\$29,224,198	\$29,687,341	\$30,169,642	\$30,669,541	\$31,169,963	\$31,691,671	\$32,235,126	\$32,792,092
COSTS Newly Installed Units (Includes replacement of units at end of useful life)	NPV	1537	11663	33079	35831	28422	22282	22312	22362	22413	22463	1789	11914	33331	36083	28674	22534	22564	22614
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA	A																		
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$249 \$250	\$254 \$255	\$259 \$260	\$264 \$265	\$270 \$271	\$275 \$276	\$280 \$282	\$286 \$287	\$292 \$293	\$298 \$299	\$304 \$305	\$310 \$311	\$316 \$317	\$322 \$323	\$329 \$330	\$335 \$336	\$342 \$343	\$349 \$350
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$147 153 481	\$499 \$766.944	\$509	\$519	\$530 \$18.973.852	\$540	\$551	\$562	\$573	\$585	\$596	\$608	\$620	\$633	\$646	\$658	\$672	\$685	\$699
Amortized Utility/PA Installed Equipment Cost	\$155,688,383	\$103,218	\$902,118	\$3,213,390	\$5,766,957	\$7,833,031	\$9,485,194	\$11,172,641	\$12,897,721	\$14,661,264	\$16,464,139	\$16,507,352	\$16,703,327	\$17,230,924	\$17,812,032	\$18,286,798	\$18,671,366	\$19,064,116	\$19,465,571
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment		\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	50	\$0
Partcipant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	50 50.00	\$0 \$0.00
Non-Equipment Participant Incentives (\$/kW-Yr.)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Non-Equipment Program Incentive Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Implementation Admin		\$100,000 \$23,163	\$23,626	\$24,099	\$24,581	\$25,072	\$25,574	\$26,085	\$26,607	\$27,139	\$27,682	\$28,236	\$28,800	\$29,376	\$29,964	\$30,563	\$31,174	\$31,798	\$32,434
Marketing		\$70,181	\$543,195	\$1,571,502	\$1,736,244	\$1,404,783	\$1,123,354	\$1,147,344	\$1,172,932	\$1,199,084	\$1,225,827	\$14,012	\$14,293	\$14,578	\$14,884	\$15,167	\$15,471	\$15,780	\$16,095
Evaluation OBM		\$50,000 \$35,020	\$51,000 \$306,775	\$52,020 \$1.097.090	\$53,060 \$1,985,418	\$54,122 \$2,726,113	\$55,204 \$3,341,189	\$56,308 \$3,980,537	\$57,434 \$4,645,441	\$58,583 \$5,336,693	\$59,755 \$6,055,114	\$60,950 \$6,183,209	\$62,169 \$6.314.005	\$63,412 \$6.447,560	\$64,680 \$6,583,938	\$65,974 \$6,723,186	\$67,293 \$6.865.369	\$68,639 \$7.010.551	\$70,012 \$7,158,794
Fixed Program Costs	\$55,307,953	\$278,364	\$924,597	\$2,744,710	\$3,799,303	\$4,210,090	\$4,545,320	\$5,210,275	\$5,902,414	\$6,621,500	\$7,368,378	\$6,286,407	\$6,419,267	\$6,554,927	\$6,693,467	\$6,834,890	\$6,979,308	\$7,126,768	\$7,277,335
Central Controller Software Costs		\$0 \$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Central Controller Hardware Cost Central Controller Costs	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$202,461,434	\$1,045,308	\$6,860,688	\$19,918,236	\$22,773,155	\$19,561,704	\$16,821,441	\$17,748,569	\$18,720,334	\$19,725,214	\$20,764,335	\$7,374,435	\$13,811,520	\$27,648,673	\$29,985,143	\$25,714,173	\$22,112,897	\$22,583,326	\$23,078,204
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization)	\$210,996,335 \$202,461,434	\$381,582 \$1,045,308	\$1,826,714 \$6,860,688	\$5,958,101 \$19,918,236	\$9,566,260 \$22,773,155	\$12,043,121 \$19,561,704	\$14,030,514 \$16,821,441	\$16,382,916 \$17,748,569	\$18,800,136 \$18,720,334	\$21,282,764 \$19,725,214	\$23,832,517 \$20,764,335	\$22,793,758 \$7,374,435	\$23,122,594 \$13,811,520	\$23,785,851 \$27,648,673	\$24,505,498 \$29,985,143	\$25,121,688 \$25,714,173	\$25,650,673 \$22,112,897	\$26,190,884 \$22,583,326	\$26,742,907 \$23,078,204
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$202,461,434 \$210,996,335	\$1,045,308 \$381,582	\$6,860,688 \$1,826,714	\$19,918,236 \$5,958,101	\$22,773,155 \$9,566,260	\$19,561,704 \$12,043,121	\$16,821,441 \$14,030,514	\$17,748,569 \$16,382,916	\$18,720,334 \$18,800,136	\$19,725,214 \$21,282,764	\$20,764,335 \$23,832,517	\$7,374,435 \$22,793,758	\$13,811,520 \$23,122,594	\$27,648,673 \$23,785,851	\$29,985,143 \$24,505,498	\$25,714,173 \$25,121,688	\$22,112,897 \$25,650,673	\$22,583,326 \$26,190,884	\$23,078,204 \$26,742,907
UTILITY COST TEST																			
Total Benefits	\$216,203,993																		
Total Costs UCT Benefit Cost Ratio	\$202,461,434 1.07																		
TOTAL RESOURCE COST TEST																			
Total Benefits	\$216,203,993																		
Total Costs	\$202,461,434 1.07																		
TRC Benefit Cost Ratio																			

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Residential Critical Peak	Pricing without E																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Number of Control Units Per Participant If Existing Program: Total Number of Participants	NO YES YES 1 201																		
Age of Existing Program - Years		Year End 1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)	Calculate Englishe Customers on the	104.026	199.217	2021	348.959	429,802	516,447	603.207	690.161	777,313	864,660	865,639	866.618	867.598	2032	869.556	870,535	871.514	872,493
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.52%	1.25%	1.99%	2.81%	3.66%	4.40%	5.14%	5.84%	6.52%	7.10%	7.63%	8.11%	8.55%	8.96%	9.39%	9.78%	10.14%	10.48%
Participant Incentive (5/kW-Yr.)	\$0																		
Program Participation Rate (From Market Adoption Curve Tab)		0.5%	5.1%	11.9%	15.8%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%
Annual Number of Control Hours	60	6.374	3.174	11.74	13.0.0	17.0%	17.0%	17.074	17.0.4	17.074	17.04	17.00	17.00	17.00	17.0%	17.0%	17.004	17.074	17.0.4
Type of Savines Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	13.0%																		
Per Participant CP Reduction (kW)	22.07																		
LOAD REDUCTION																			
Number of Program Participants Base Sector CP Demand (KW)		531	10,160	32,748	55,170	73,066	87,796	102,545	117,327	132,143	146,992 2,898.001	147,159 2.884.890	147,325	147,492	147,658 2.852.947	147,825	147,991	148,157	148,324 2.818.093
Base Partcipant CP Demand (kW)		373,368 1,904	709,791 36,199	973,146 115,804	1,223,614 193,453	1,493,958 253,973	1,781,312 302,823	350,966	2,344,681 398,596	2,621,791 445,704	492,660	490,431	2,873,148 488,435	2,862,578 486,638	485,001	2,842,645 483,250	2,833,554 481,704	2,825,632 480,357	479,076
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction® Gan (kW)		247	4,688	14,997	25,052	32,889 34,885	39,216 41 595	45,450	51,618 54 750	57,719	63,799 67 670	63,511	63,252 67,090	63,020	62,808	62,581 66 378	62,381	62,206 65,980	62,040
BENEFITS	NPV																		
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$86,719,440	\$20,132	\$626,007	\$2,355,289	\$4,013,244	\$5,374,114	\$6,535,949	\$7,726,536	\$8,950,613	\$10,208,623	\$11,509,803	\$11,686,887	\$11,872,103	\$12,064,994	\$12,264,893	\$12,465,017	\$12,673,654	\$12,890,987	\$13,113,724
COSTS	NPV																		
Newly installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR P	'A	531	9630	22588	22422	17896	14730	14749	14782	14816	14849	166	166	167	166	166	166	166	166
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$0 \$0	\$0 50	\$0 50	\$0	\$0 \$0	50	50 50	\$0 \$0	\$0	\$0 \$0	\$0 50	\$0 50	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	_	50	\$0 \$0	\$0	50	50	50	50 50	\$0	50	\$0 \$0	\$0	\$0	50	50	50 \$0	50	\$0	\$0
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	50 50	\$0 \$0	\$0 \$0
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT																			
Participant Share of Installation Cost Per Unit - Equipment Partripant Share Installation Cost Par Linit - Labor		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0
Total Participant Share of Per Unit Installed Equipment Cost	_	\$0	\$0	\$0	\$0	50	50	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	50 \$0.00	50 \$0.00	50 \$0.00	50 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	50 50.00	50 50.00	50 50.00	50 \$0.00	50 50.00
Non-Equipment Participant Incentives (S/WW-Yr.) Total Non-Equipment Program Incentive Costs	\$0	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	50 50.00	50 50.00	50 50.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00
Implementation	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\$100,000	,	42.00	,	41.50	01.00						,			2			1.10
Admin Marketing		\$23,163 \$26,527	\$23,626 \$491,107	\$24,099 \$1,175,027	\$24,581 \$1,189,737	\$25,072 \$968,556	\$25,574 \$813,135	\$26,085 \$830,498	\$26,607 \$849,012	\$27,139 \$867,955	\$27,682 \$887,292	\$28,236 \$10,145	\$28,800 \$10,348	\$29,376 \$10,566	\$29,964 \$10,763	\$30,563 \$10,981	\$31,174 \$11,201	\$31,798 \$11,425	\$32,434 \$11,653
Evaluation	\$7 305 046	\$50,000	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$56,308	\$57,434	\$58,583	\$59,755	\$60,950	\$62,169	\$63,412	\$64,680	\$65,974	\$67,293	\$68,639	\$70,012
Fixed Program Costs Central Controller Software Costs	\$7,306,046	\$199,690 \$0	\$565,734	\$1,251,146	\$1,267,379	\$1,047,749	\$893,913 \$0	\$912,891 \$0	\$933,053	\$953,677	\$974,729	\$99,330 \$0	\$101,317	\$103,354 \$0	\$105,408	\$107,518	\$109,669	\$111,862	\$114,099 \$0
Central Controller Hardware Cost		\$0	50	\$0	20	50	50	50		30		\$0	\$0	20		50	50		
Central Controller Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$7,306,046	\$199,690	\$565,734	\$1,251,146	\$1,267,379	\$1,047,749	\$893,913	\$912,891	\$933,053	\$953,677	\$974,729	\$99,330	\$101,317	\$103,354	\$105,408	\$107,518	\$109,669	\$111,862	\$114,099
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization)	\$7,306,046 \$7,306,046	\$199,690 \$199,690	\$565,734 \$565,734	\$1,251,146 \$1,251,146	\$1,267,379 \$1,267,379	\$1,047,749 \$1,047,749	\$893,913 \$893,913	\$912,891 \$912,891	\$933,053 \$933,053	\$953,677 \$953,677	\$974,729 \$974,729	\$99,330 \$99,330	\$101,317 \$101,317	\$103,354 \$103,354	\$105,408 \$105,408	\$107,518 \$107,518	\$109,669 \$109,669	\$111,862 \$111,862	\$114,099 \$114,099
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$7,306,046	\$199,690	\$565,734	\$1,251,146	\$1,267,379	\$1,047,749	\$893,913	\$912,891	\$933,053	\$953,677	\$974,729	\$99,330	\$101,317	\$103,354	\$105,408	\$107,518	\$109,669	\$111,862	\$114,099
UTILITY COST TEST																			
Total Benefits	\$86,719,440																		
Total Costs UCT Benefit Cost Ratio	\$7,305,046 11.87																		
TOTAL RESOURCE COST TEST																			
Total Benefits	\$86,719,440																		
Total Costs TRC Benefit Cost Ratio	\$7,306,046 11,87																		
THE DENETH CORE RATIO	11.67																		

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com Capacity Bidding																		
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shittop Program (Select from drop down menu) Number of Control Linis for Participant F Fristige Program - Total Number of Participants Age of Existing Program - Years	NO YES NO 1 201	8 Year End				5	ć	7			10	11	12	13	14	15	16	17	18
Item	Carriella Parana	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		1,013	1,888	2,472	3,046	3,740	4,528	5,287	6,048	6,808	7,569	7,575	7,581	7,586	7,591	7,597	7,602	7,608	7,613
Coincident Peak (CP) Load Per Eligible Customer (kW)	221.03																		
Coincident Peak Load Efficiency Gain (Year 20)		1.00%	2.18%	3.49%	4.76%	5.87%	6.85%	7.80%	8.63%	9.46%	10.21%	10.89%	11.50%	11.93%	12.27%	12.62%	12.78%	12.89%	12.95%
Participant Incentive (\$/NW-Yr.)	\$50.00 Calculate or Enter																		
Program Participation Rate (From Market Adoption Curve Tab)		0.1%	0.3%	0.7%	0.9%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80 Percent of CP Load																		
Type of Savings Factor (Select from drop-down menu) Program Savings Factor (Percent of CP Load)	Percent of CP Load 19.5%																		
Program Savings Factor (Percent of CP Load) Per Participant CP Refertion (kW)	19.5%																		
LOAD REDUCTION																			_
Number of Program Participants		1	6	17	28	37	45	53	60	68	76	76	76	76	76	76	76	76	76
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW)		221,669 155	408,190 1,225	527,265 3,691	641,309 5,964	778,205 7,782	932,354 9,324	1,077,511 10,775	1,221,378 12,214	1,362,431 13,624	1,502,198 15,022	1,492,035 14,920	1,482,842 14,828	1,476,777 14,768	1,471,956 14,720	1,467,330 14,673	1,465,604 14,656	1,464,751 14,648	1,464,815 14,648
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction @ Gen (kW)		30 32	239 251	720	1,163 1,222	1,517 1,595	1,818 1,911	2,101 2,208	2,382 2,503	2,657 2,792	2,929 3,078	2,909 3,057	2,892 3,039	2,880 3,026	2,870 3,016	2,861 3,007	2,858 3,003	2,856 3,002	2,856 3,002
DENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$4,084,486	\$2,532	\$32,346	\$114,529	\$189,323	\$252,332	\$307,834	\$363,690	\$420,718	\$478,863	\$540,892	\$548,409	\$554,753	\$563,881	\$573,577	\$586,059	\$598,013	\$610,326	\$623,062
costs	NPV																		
Newly installed Units (includes replacement of units at end of useful life)		1	5	12	11	9	8	8	8	8	8	0	0	0	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$1,112	\$1,135	\$1,157	\$1,181	\$1,204	\$1,228	\$1,253	\$1,278	\$1,303	\$1,329	\$1,356	\$1,383	\$1,411	\$1,439	\$1,468	\$1,497	\$1,527	\$1,558
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$0 \$1,112	\$0 \$1,135	\$0 \$1,157	\$0 \$1,181	\$0 \$1,204	\$0 \$1,228	\$0 \$1,253	\$0 \$1,278	\$0 \$1,303	\$0 \$1,329	\$0 \$1,356	\$0 \$1,383	\$0 \$1,411	\$0 \$1,439	\$0 \$1,468	\$0 \$1,497	\$0 \$1,527	\$0 \$1,558
Variable Utility/PA Installed Equipment Cost Ver Unit Amortiae Utility/PA Installed Equipment Cost	\$71,180 \$75,266	\$789 \$68	\$5,622 \$550	\$13,470 \$13,705	\$13,019 \$2,822	\$10,922 \$3,759	\$9,681 \$4,589	\$9,506 \$5,405	\$9,717 \$6,238	\$9,907 \$7,088	\$10,127 \$7,956	\$1,356 \$84 \$7,964	\$1,383 \$72 \$7,970	\$73 \$7,976	\$7,983	\$1,468 \$91 \$7,990	\$78 \$78 \$7,997	\$1,527 \$79 \$8,004	51,558 581 58,011
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT																			
Participant Share of Installation Cost Per Unit - Equipment Participant Share Installation Cost Per Unit - Labor			\$0 \$0	50 50	50 50	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	50 50	50 50	50 50						
Total Participant Share of Per Unit Installed Equipment Cost Total Participant Installed Equipment Costs	50	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	\$0.00	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00
			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (\$/kW-Yr.) \$/kWh		\$50 \$76	\$50 \$602	\$50 \$1,815	\$50 \$2,933	\$50 \$3,827	\$50 \$4,585	\$50 \$5,299	\$50 \$6,007	\$50 \$6,700	\$50 \$7,388	\$50 \$7,338	\$50 \$7,293	\$50 \$7,263	\$50 \$7,239	\$50 \$7,216	\$50 \$7,208	\$50 \$7,204	\$50 \$7,204
Total Non-Equipment Program Incentive Costs	\$1,203,552	\$1,666.16	\$13,149.07	\$39,631.33	\$64,041.56	\$83,561.30	\$100,113.46	\$115,699.94	\$131,147.91	\$146,293.84	\$161,301.58	\$160,210.35	\$159,223.25	\$158,571.98	\$158,054.25	\$157,557.56	\$157,372.21	\$157,280.60	\$157,287.49
Implementation, Admin, Marketing Fixed Program Costs	\$568,349	\$132,849 \$132,849	\$35,671 \$35,671	\$39,861 \$39,861	\$40,334 \$40,334	\$40,082 \$40,082	\$40,227 \$40,227	\$40,866 \$40,866	\$41,693 \$41,693	\$42,525 \$42,525	\$43,385 \$43,385	\$39,648 \$39,648	\$40,434 \$40,434	\$41,243 \$41,243	\$42,068 \$42,068	\$42,916 \$42,916	\$43,768 \$43,768	\$44,643 \$44,643	\$45,536 \$45,536
Central Controller Software Costs		\$2,500	\$2,550	\$2,601	\$2,653	\$2,706	\$2,760	\$2,815	\$2,872	\$2,929	\$2,988	\$3,047	\$3,108	\$3,171	\$3,234	\$3,299	\$3,365	\$3,432	\$3,501
Central Controller Hardware Cost Central Controller Costs	\$53,185	\$12,500 \$15,000	\$2,550	\$2,601	\$2,653	\$2,705	\$2,760	\$2,815	\$2,872	\$2,929	\$2,988	\$12,500 \$15,547	\$3,108	\$3,171	\$3,234	\$3,299	\$3,365	\$3,432	\$3,501
TOTAL UTILITY COSTS (No Amortization)	\$1,896,266	\$150,304	\$56,992	\$95,564	\$120,048	\$137,272	\$152,782	\$168,888	\$185,429	\$201,654	\$217,801	\$215,490	\$202,838	\$203,059	\$203,431	\$203,863	\$204,582	\$205,435	\$206,404
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$1,900,352 \$692,714 \$685,589	\$149,582 \$148,637 \$147,916	\$51,920 \$43,843 \$38,771	\$83,799 \$55,933 \$44,168	\$109,851 \$56,006 \$45,809	\$130,108 \$53,710 \$46,547	\$147,690 \$52,669 \$47,577	\$164,786 \$53,188 \$49,086	\$181,950 \$54,281 \$50,803	\$198,835 \$55,361 \$52,542	\$215,631 \$56,499 \$54,329	\$223,369 \$55,279 \$63,159	\$210,736 \$43,615 \$51,513	\$210,962 \$44,487 \$52,390	\$211,339 \$45,377 \$53,285	\$211,762 \$46,305 \$54,205	\$212,501 \$47,210 \$55,129	\$213,359 \$48,154 \$56,079	\$214,334 \$49,117 \$57,047
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	2002/269	\$147,916	\$36,771	244,105	545,609	340,347	347,5/7	\$49,055	220,803	302,942	354,323	203,123	321,213	324,330	\$33,465	\$29,205	631,600	\$26,0/3	\$57,047
Total Renafits	54 (R4 496																		
Total Benefits Total Costs UTC Benefit Cost Ratio	\$4,084,486 \$1,896,266 2.15																		
TOTAL RESOURCE COST TEST																			
TOTAL RESOURCE COST TEST Total Benefits Total Costs	\$4,034,486 \$692,714																		

	= User Input																			
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com CPP Rate with Enab	bling Tech																		
Firm Load Reduction? (Select from drop down menu) New Porgum? (Select from drop down menu) Load Shrifte physical? (Select from drop down menu) Number of Control Units Ner Participant If Saving Program - Stall Number of Participants Age of Existing Program - Years	ND YES 1.654 201	18 Year End	2					7			20	11	12	13	м	15	16	17	18	19
Item	Concurate Ligitite	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Eligible Customers (From the Eligible Customers Tab)	Customers on the	12,136	24,432	36,893	49,521	62,316	75,278	87,873	100,482	113,104	125,741	125,810	125,879	125,949	126,018	126,088	126,157	126,225	126,296	0
Coincident Peak (CP) Load Per Eligible Customer (kW)																				
Coincident Peak Load Efficiency Gain (Year 20)	0%	1.00%	2.18%	3.49%	4.76%	5.87%	6.85N	7.80%	8.63%	9.46N	10.21%	10.89%	11.50%	11.93%	12.27%	12.62%	12.78%	12.89%	12.95N	
Participant Incentive (\$/kW-Yr.)																				
Program Participation Rate (From Market Adoption Curve Tab)		1.4%	6.0%	14.0%	18.6%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																			
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																			
Program Savings Factor (Percent of CP Load)	21.5%																			
Per Participant CP Reduction (kW)																				
LOAD REDUCTION Number of Program Participants		170	1.405	5,165	9,211	12,463	15,056	17,575	20,095	22,621	25,148	25,162	25,176	25,190	25,204	25,218	25,231	25,245	25,259	
Base Sector CP Demand (kW)		218,270	434,273	646,826	856,864	1,065,698	1,273,901	1,471,911	1,667,952	1,860,466	2,051,028	2,035,602	2,023,778	2,015,242	2,008,385	2,001,558	1,998,929	1,997,492	1,997,328	
Base Participant CP Demand (kW) Crinicident Reak Demand Bediation (kW)		3,056	25,050	90,556 19,442	159,377 34,218	213,140 45.761	254,780	294,382 63.204	333,590	372,093 79,888	410,205 88,071	407,320 87.452	404,756	403,048 86,534	401,677	400,312	399,786	399,498 85.772	399,466	
Coincident yeak Demand Reduction (KW) Coincident Peak Demand Reduction (9 Gen (KW)		689	5,877	20.431	35,959	45,089	54,701 57,484	65,419	71,622 75,265	83.952	92.551	91,900	91,321	90,936	90.625	90,318	90,200	90,135	85,765 90,127	
SENERTS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	5118,320,100	\$53,067	\$739,980	\$3,025,256	\$5,430,900	\$7,408,170	\$9,032,600	\$10,645,327	\$12,304,420	\$13,999,078	\$15,741,620	\$15,943,520	\$16,159,990	\$16,413,661	\$16,684,978	\$16,960,817	\$17,277,313	\$17,610,188	\$17,960,917	\$0
COSTS	NPV	281	2144	6118	6692	5179	4255	4155	4171		4180	204	2165			5402	4311	4182	4194	(
Newly Installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		281	2144	6118	6692	5379	4288	4166	4171	4175	4180	304	2166	6141	6715	5402	4311	4189	4194	
Utility/PA Per Unit Equipment Cost		\$519	\$530	\$540	\$551	\$562	\$574	\$585	\$597	\$609	\$621	\$633	\$646	\$659	\$672	\$685	\$699	\$713	\$727	50
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$250 \$769	\$255 \$785	\$260 \$801	\$265 \$817	\$271 \$833	\$276 \$850	\$282 \$867	\$287 \$884	\$293 \$902	\$299 \$920	\$305 \$218	\$311 \$957	\$317 \$976	\$323 \$995	\$330 \$1.015	\$136 \$1.036	\$343 \$1,056	\$350	50
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$42,360,043 \$44,816,925	\$216,229 \$29,101	\$1,682,367 \$255,520	\$4,897,864 \$914,691	\$5,464,173 \$1,650,078	\$4,480,235 \$2,253,044	\$3,642,614 \$2,743,280	\$3,610,268 \$3,229,162	\$3,686,567 \$3,725,313	\$3,764,175 \$4,231,909	\$3,844,021 \$4,749,250	\$284,991 \$4,758,505	\$2,072,633 \$4,811,028	\$5,993,065 \$4,958,424	\$6,683,515 \$5,122,527	\$5,484,890 \$5,257,737	\$4,463,963 \$5,368,277	\$4,425,006 \$5,477,928	\$4,518,853 \$5,589,940	\$0 \$5,083,344
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT																				
Participant Share of Installation Cost Per Unit - Equipment Participant Share Installation Cost Per Unit - Labor			\$D 50	50	50	\$0 60	50	50	\$0	\$0	\$0	\$D	\$0	50	\$0	\$0	50	50	50	50
Total Participant Share of Per Unit Installed Equipment Cost	_	50	50	50	50	50	50	50	50	50	50 50	50	50	50	50	50	50	50	50	
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost		\$0	50	so	50	\$0	\$0	so	\$0	\$D	50	50	so	50	so	\$0	\$0	50	\$D	50
Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (5/kW-Yr.) Total Non-Equipment Program Incentive Costs	\$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Implementation, Admin, Marketing		\$90,989	\$99,241	\$226,234	\$249,159	\$211,192	\$178,987	\$178,434	\$182,163	\$185,959	\$189,857	\$40,451	\$41,260	\$42,098	\$42,927	\$43,799	\$44,661	\$45,555	\$46,480	
O&M Fixed Program Costs	\$10,244,579	\$6,537 \$97,526	\$57,525 \$156,766	\$206,736 \$432,970	\$376,052 \$625,211	\$519,009 \$730,201	\$639,505 \$818,492	\$761,432 \$939,866	\$888,105 \$1,070,268	\$1,019,657 \$1,205,616	\$1,156,254 \$1,346,111	\$1,180,026 \$1,220,477	\$1,204,287 \$1,245,547	\$1,229,056 \$1,271,154	\$1,254,324 \$1,297,251	\$1,280,121 \$1,323,919	\$1,305,438 \$1,351,099	\$1,333,295 \$1,378,850	\$1,360,715 \$1,407,195	\$0
Central Controller Software Costs		\$0 \$0	\$0	\$0	50	\$0	\$0	50	50	\$0	\$0	\$0	\$0	50	\$0	50	\$0	\$0	\$0	\$0
Central Controller Parbuare Cost	50	50 \$0	\$0	\$0	50	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$2	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$52,604,621	\$313.755	\$1,839,133	\$5,330,834	\$6,089,384	\$5,210,436	\$4,461,105	\$4,550,134	\$4,756,835	\$4,969,791	\$5,190,132	\$1,505,468	\$3.318.180	\$7,264,218	\$7,980,766	\$6,808,810	\$5,815,062	\$5,803,856	\$5,926,048	50
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$55,061,504	\$126,627	\$412,285	\$1,347,662	\$2,275,289	\$2,983,245	\$3,561,771	\$4,169,028	\$4,795,581	\$5,437,524	\$6,095,362	\$5,978,982	\$6,056,575	\$6,229,578	\$6,419,778	\$6,581,657	\$6,719,376	\$6,856,777	\$6,997,135	\$5,083,344
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$52,604,621 \$55,061,504	\$313,755 \$126,627	\$1,839,133 \$412,285	\$5,330,834 \$1,347,662	\$6,089,384 \$2,275,289	\$5,210,436 \$2,983,245	\$4,461,105 \$3,561,771	\$4,550,134 \$4,169,028	\$4,756,835 \$4,795,581	\$4,969,791 \$5,437,524	\$5,190,132 \$6,095,362	\$1,505,468 \$5,978,982	\$3,318,180 \$6,056,575	\$7,264,218 \$6,229,578	\$7,980,766 \$6,419,778	\$6,808,810 \$6,581,657	\$5,815,062 \$6,719,376	\$5,803,856 \$6,856,777	\$5,926,048 \$6,997,135	\$0 \$5,083,344
UTILITY COST TEST																				
Total Benefits	\$118,320,100																			
Total Benefits Total Costs UTC Benefit Cost Ratio	\$118,320,100 \$52,604,621 2.25																			
TOTAL RESOURCE COST TEST																				
Total Benefits	\$118,320,100																			
Total Costs TRC Benefit Cost Ratio	\$52,604,621 2.25																			

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com CPP rate w/o en ab	ling technology																	
Fine Load Reduction? [Select from drop down memo) New Program? (Select from drop down memo) Load Stifting Program? (Select from drop down memo) Number of Control Units Ner Partopiant Ut Esisting Program. Teals Age of Essaitt Program. Teals	ND YES YES 1 201		2	3	4	5	6	7	*		10		12		14	15	16	17	18
Item		2019	2020	3 2021	4 2022	2023	6 2024	2025	8 2026	2027	2028	11 2029	12 2030	13 2031	14 2032	2033	2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		15,630	30,344	42,868	55,263	68,670	82,953	96,831	110,727	124,636	138,561	138,637	138,714	138,790	138,866	138,943	139,020	139,096	139,173
Coincident Peak (CP) Load Per Eligible Customer (kW)	18.17																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	1.00%	2.18%	3.49%	4.76%	5.87%	6.85%	7.80%	8.63%	9.46%	10.21%	10.89%	11.50%	11.93%	12.27%	12.62%	12.78%	12.89%	12.95%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		1.3%	5.4%	12.6%	16.7%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%
Annual Number of Control Hours. (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	11.3%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION																			
Number of Program Participants Base Sector CP Demand (kW)		197 281,113	1,639 539,235	5,401 751,582	9,251 956,220	12,361 1,174,357	14,932 1,403,789	17,430 1,621,969	19,931 1,838,008	22,435 2,050,161	24,941 2,260,139	24,955 2,244,245	24,969 2,230,132	24,982 2,220,707	24,996 2,213,154	25,010 2,205,628	25,024 2,202,734	25,037 2,201,153	25,051 2,200,970
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		3,542 400	29,119 3,290	94,699 10,701	160,071 18,088	211,384 23,886	252,682 28,553	291,954 32,991	330,841 37,385	369,029 41,700	406,825 45,971	403,964 45,648	401,424 45,361	399,727 45,169	398,368 45,016	397,013 44,862	396,492 44,804	396,207 44,771	396,175 44,768
Coincident Peak Demand Reduction@ Gen (kW) BENEFITS	NPV	421	3,458	11,245	19,008	25,101	30,005	34,669	39,287	43,821	48,309	47,970	47,668	47,467	47,305	47,144	47,082	47,049	47,045
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$61,918,959	\$32,374	\$435,335	\$1,665,099	\$2,870,824	\$3,866,928	\$4,714,849	\$5,556,594	\$6,422,642	\$7,307,260	\$8,216,783	\$8,322,180	\$8,435,244	\$8,567,586	\$8,709,218	\$8,853,191	\$9,018,406	\$9,192,171	\$9,375,235
COSTS	NPV																		
Newly installed Units (includes replacement of units at end of useful life)			1442	3763		3110	2571	2498	2501	2504	2506	14		14	14			14	14
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		197	1442	3763	3850	3110	2571	2498	2501	2504	2506		14		14	14	14	14	
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		197 \$0 \$0	1442 50 50	\$763 \$0 \$0	3850 \$0 \$0	\$0 \$0	2571 \$0 \$0	2498 50	2501 50 50	2504 \$0 \$0	2306 \$0 \$0	14 50 50	14 50 50	50 50	14 \$0 \$0	14 50 50	14 \$0 \$0	\$0 \$0	50 50
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA UTISH/PA Per Unit Equipment Cost UTISH/PA Per Unit Labor Cost Total UTISH/PA Installed Equipment Cost Per Unit	50	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50
Equinant That You a E descript Installed Ano Downed BY UTILITY OR PA Utility/AP Ar Unit Lador Cost Utility/AP Ar Unit Lador Cost Casa Utility/AP Ar Unit Lador Cost Utility/AP Ar Unit Lador Cost Utility/AP Ar Unit Lador Cost Variable Utility/AP Antalled Equipment Cost Amontoad Utility/AP Antalled Equipment Cost Equipment That You La Be INSTALLED AND COWNED BY THE PARTICIPANT	50 50	\$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50 50
Equimater than You, a looker with KILLO And owned by Unluit on A Unling MAP with light owned Cole Unling MAP with light owned Cole Unling MAP with light owned for any Unling Another With With Manufale Equipment Cole Coleman Technologies (Coleman) and Coleman Technologies Participaed Share A Installation Colema Unline Participaed Share A Installation Co	\$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50
EQUIPMENT THAT WILL BE GREETLY INSTALLED AND DWINED BY UTILITY OR PA UTILITY/PA Pr UNIT LEDFORM UTILITY/PA Pr UNIT LEDFORM THAT AND PR UNIT LEDFORM VALUE AND	50 50 50 50	\$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50
EquiPMENT THAT YINLE ID INFOLD YOU RETAILED AND OWNED BY UTBUTY OR YOU STUDY APY YOU BENJAMMAN THAT YOU AND YOU AND YOU AND YOU AND YOU TO ALL UTBUTY APPLICATION OF YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND YOU AND	50 	50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	\$0 <u>\$0</u> \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50
Equivitant That You, Le DelCLY INFALLD AND DWHD SW UTULTY OF A UMIDY AF toor flag approver Cost Tarou UMIDY AF tool flag approver Cost Tarou UMIDY AF tool flag approver Cost Annotated UMIDY A tool flag approver Cost Annotated UMIDY AF tool flag approver Cost	50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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Counterfunction National Council on Section Section 2014 (2014)  And Section Section 2014  Total Utility And And Expansion Cost	50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com Demand Bidding (TP	hermostat Scenario)																	
Firm Load Reduction? (Select from drop-down menu) New Pogram? (Select from drop down menu) Load Shifting Program? (Select from drop down menu) Number of Consta Units Ner Participant II fusising Program. Total Number of Participants Age of Estating Program. Total	NO YES NO 1 2011	Year End						,			10	11	12	13	14	15	16	17	18
item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	2025	8 2026	9 2027	2028	11 2029	12 2030	13 2031	14 2032	2033	16 2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		14,423	26,826	35,007	42,982	52,588	63,516	74,143	84,780	95,429	106,090	106,148	105,205	106,262	106,319	106,376	106,434	106,491	106,548
Coincident Peak (CP) Load Per Eligible Customer (kW)	20.12																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	1.00%	2.18%	3.49%	4.76%	5.87%	6.85%	7.80%	8.63%	9.46%	10.21%	10.89%	11.50%	11.93%	12.27%	12.62%	12.78%	12.89%	12.95%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		0.1%	0.3%	0.7%	0.9%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	7.0%																		
Per Participant CP Reduction (kW)																			
LOND (EDUCI)ON Number of Program Numicipants Base Participant Dennish (KM) Base Participant Dennish (KM) Coincident Pauk Dennish Reduction (KM) Coincident Pauk Dennish Reduction (Gen (KM)		10 287,327 201 14 15	80 528,020 1,584 111 117	245 679,819 4,759 333 350	400 823,766 7,661 536 564	526 996,137 9,961 697 733	635 1,190,559 11,906 833 876	741 1,375,597 13,756 963 1,012	848 1,558,788 15,588 1,091 1,147	954 1,738,687 17,387 1,217 1,279	1,061 1,916,744 19,167 1,342 1,410	1,061 1,903,264 19,033 1,332 1,400	1,062 1,891,260 18,913 1,324 1,391	1,063 1,883,248 18,832 1,318 1,385	1,063 1,876,825 18,768 1,314 1,381	1,054 1,870,407 18,704 1,309 1,376	1,054 1,867,935 18,679 1,308 1,374	1,065 1,866,575 18,666 1,307 1,373	1,065 1,866,385 18,664 1,306 1,373
BENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$1,871,719	\$1,178	\$15,020	\$53,008	\$87,298	\$115,948	\$141,107	\$166,672	\$192,749	\$219,372	\$247,749	\$251,124	\$253,992	\$258,133	\$262,533	\$268,172	\$273,602	\$279,195	\$284,980
	\$2,012,725	22,270	313,020	\$25,000	201,100	,,	3141,107	3100,071	3131,143	1222,372	3241,143	<i>J271,124</i>	3233,832	3230,233	1202,722	3100,171	3273,002	227 5,255	3104,000
COSTS Newly installed Units (includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA	NPV	10	70	165	155	126	109	106	106	106	107	1	1	1	1	1	1	1	1
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	_	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	50 50 50	50 50 50	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0
Utility/PA Per Unit Labor Cost	\$0 \$0	\$0	\$0	50	50	50	\$0	\$0	50	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	50
Utility/M veri lost Labor Casi Tada Utility/M veri lost Labor Casi Tada Utility/M veri labor Labor Casi Menosoria (Stany) A haralind (species) Casi Casi (Stany) A haralind (species) Casi (Stany) A haralind (species) Casi (Stany) A haralind (species) Casi (Stany) A haralind (species) Tada Pericipae Utility (Stany) Tada Pericipae Utility (Stany) Casi (Stany) A haralind (species) Tada Pericipae Utility (Stany) Casi (Stany) A haralind (species) Casi (Stany) A haralind (species) Cas	50 50 50	\$0 \$0	50 50 50	\$0 \$0 \$0	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50	50 50 50	50 50 50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0
Utility/N Are Utilitation Cost Total Utility/N Installed Equipment Cost Per Unit Variable Utility/N Installed Equipment Cost Memoritaed Utility/N Installed Equipment Cost EQUIPMENT That Mark E INSTALLIO IND OWNED DY THE PARTICIPANT Participant Samo Installation Cost Privilia Cost Participant Samo Installation Cost Privilia Cost Participant Samo Installation Cost Privilia Participant Samo Installation Cost Privilia	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0,00	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50.00	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50
Uniting PAN - Unit Labor Cast Tatal Uniting PA Natural Explorem Cast Per Units Mariable Uniting PA Natural Explorem Cast Pandamental Uniting PA Natural Explorem Cast Pandamental Uniting PA Natural Explorem Cast Pandament PAN - P	50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50
Utility/AV ar Unit Lake Coal Tatal Utility/A Installed Ergement Cast Handbal Utility/A Cast Market Bal Utility/A Cast Market Cast Handbal Utility/A Cast Market Cast Handbal Utility/A Cast Market Cast	50 50 50 50 5421,100	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 553,139 544,310	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0.00 \$0.00 \$0.00 \$0.5 \$54,962 \$43,771	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5							
Utility/N Are ultist about Case Tatist Utility/N and Regionet Cast Per Unit Responsed Utility/N and Regionet Cast Per Unit Responsed Utility/N and and Engeneet Cast Responsed Utility/N and and and Engeneet Cast Responsed Utility/N and	50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5							
Utility/AV ar Unit Lake Coal Tatal Utility/A Installed Ergement Cast Handbal Utility/A Cast Market Bal Utility/A Cast Market Cast Handbal Utility/A Cast Market Cast Handbal Utility/A Cast Market Cast	50 50 50 50 5421,100	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 553,139 544,310	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5							
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Utility Adv urbs table Casi Table Table T	50 50 50 50 541,100 558,164 558,164 551,185 551,185 551,185 551,185 551,185	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 90 90 90 90 90 90 90 90 90 9	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	00 00 00 00 00 00 00 00 00 00
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Unitery An Units Labor Case Tanda Units Phil Analash Engeneti Cash Yu Unit Menderak Units Phil Analash Engeneti Cash Yu Unit Menderak Units Phil Analash Engeneti Cash Yu Analash Shore II: Analash Engeneti Cash Philippi Cash Shore II: Analash Engeneti Case Tash Philippi Cash Shore II: Analash Engeneti Case Philippi Cash Shore II: Analash Cash Yu Unit. Labor Cash Shore II: Analash Engeneti Case Philippi Cash Shore II: Analash Engeneti Case Inglement Philippi Cash Engeneti Case Cash Shore II: Analash Engeneti Case Cash Shore II: Analash Engeneti Case Philippi Cash Shore II: Analash II: Analash Engeneti Case Philippi Cash Shore II: Analash II: Analash II: Analash Engeneti Case Philippi Cash Shore II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Analash II: Analash II: Analash II: Analash III Philippi Cash Shore II: Analash II: Ana	50 50 50 50 541,100 538,144 533,145 53,145 53,145 53,145,145 53,145,145 53,145,145 53,145,145 53,145,145 53,145,145 53,145,145 53,145,145,145 53,145,145,145,145,145,145,145,145,145,145	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 90 90 90 90 90 90 90 90 90 9	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	00 00 00 00 00 00 00 00 00 00

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com DLC - Air Condition	ing																	
Firm Load Reduction? (Salect from drop-down menu) New Pogram? (Salect from drop-down menu) Load-Shifter (Pogram? Salect from drop down menu) Number of Control Units (Per Participant If Shifter (Pogram - Toal Number of Participants Age of Exoling Pergram - Years	YES YES NO 1 201	18 Year End	2	1		5	6	7	*		10	11	12	18	14	15	16	17	18
item		2019	2020	3 2021	4 2022	5 2023	2024	2025	8 2026	2027	10 2028	11 2029	12 2030	13 2031	14 2032	2033	16 2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		119,020	117,065	110,392	103,289	97,725	93,366	88,416	83,460	78,499	73,533	73,572	73,612	73,651	73,690	73,730	73,770	73,810	73,849
Coincident Peak (CP) Load Per Eligible Customer (kW)	6.03																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.66%	1.49%	2.49%	3.50%	4.49%	5.47%	6.50%	7.40%	8.31%	9.19%	10.01%	10.83%	11.69%	12.57%	13.44%	13.93%	14.34%	14.57%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		0.2%	0.9%	2.1%	2.8%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	ction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	1.60																		
LOAD REDUCTION Number of Program Participants		250	1.054	2.318	2.882	2.932	2.801	2.652	2.504	2.355	2.205	2.207	2.208	2.210	2.211	2.212	2.213	2.214	2.215
Base Sector CP Demand (kW) Base Partrinant CP Demand (kW)		712,442	694,875	648,605	600,609	562,449	531,807	498,152	465,682	433,713	402,362	398,957	395,508	391,940	388,227	384,570	382,582	380,987	380,150
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction (FW)		1,495 397 417	6,254 1,661 1,745	3,617 3,801	4,449 4,676	4,480 4,708	4,236 4,452	3,968 4,170	3,710 3,898	3,455 3,631	3,205 3,368	3,178 3,340	3,151 3,311	3,122 3,281	3,093 3,250	3,063 3,219	3,048 3,203	3,035 3,189	3,028 3,182
BENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$7,434,759	\$36,968	\$254,963	\$654,953	\$823,984	\$847,379	\$816,008	\$781,194	\$745,230	\$708,175	\$672,689	\$680,807	\$687,137	\$694,934	\$702,437	\$712,787	\$724,283	\$736,439	\$750,051
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	250	804	1265	564	50	-131	-149	-149	-149	-149	251	805	1266	565	51	-130	-147	-148
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$70	\$71	\$73	\$74	\$76	\$77	\$79	\$80	582	584	\$85	587	589	591	592	594	596	598
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$200	\$204	\$208 \$281	\$212 \$287	\$216 \$292	\$221 \$298	\$225 \$304	\$230 \$310	\$234 \$316	\$239 \$323	\$244 \$329	\$249 \$336	\$254 \$342	\$259 \$349	\$264 \$356	\$269 \$363	\$275 \$371	\$280 \$378
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$1,042,437 \$1,102,898	\$67,484 \$9,082	\$221,324 \$38,869	\$355,246 \$86,679	\$161,469 \$108,410	\$14,611 \$110,377	-\$38,987 \$105,130	-\$45,154 \$99,053	-\$46,112 \$92,847	-\$47,083 \$86,510	-\$48,070 \$80,041	\$82,653 \$82,082	\$270,189 \$88,658	\$433,447 \$99,183	\$197,244 \$103,998	\$18,229 \$104,485	-\$47,083 \$103,395	-\$54,603 \$102,123	-\$55,766 \$100,824
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT																			
Participant Share of Installation Cost Per Unit - Equipment Participant Share Installation Cost Per Unit - Labor		50 50	50 50	50 50	50 50	50 50	50 50	\$0 \$0	\$0 \$0	50 50	50 50	50 50	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50
Total Participant Share of Per Unit Installed Equipment Cost Total Participant Installed Equipment Costs	50	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0 \$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (5/participant-Yr.) Total Non-Equipment Program Incentive Costs	\$1,496,472	\$60 \$14,997	\$60 \$63,215	\$60 \$139,093	\$60 \$172,906	\$60 \$175,905	\$60 \$168,058	\$60 \$159,148	\$60 \$150,228	\$60 \$141,298	\$60 \$132,359	\$60 \$132,430	\$60 \$132,501	\$60 \$132,572	\$60 \$132,643	\$60 \$132,713	\$60 \$132,786	\$60 \$132,857	\$60 \$132,928
Implementation, Admin, Marketing		\$102,325	\$91,810	\$117,627	\$82,779	\$56,641	\$55,014	\$56,114	\$57,236	\$58,381	\$59,548	\$60,812	\$62,028	\$63,268	\$64,534	\$65,824	\$67,143	\$68,484	\$69,853
Fixed Program Costs	\$846,830	\$102,325	\$91,810	\$117,627	\$82,779	\$56,641	\$55,014	\$56,114	\$57,236	\$58,381	\$59,548	\$60,812	\$62,028	\$63,268	\$64,534	\$65,824	\$67,143	\$68,484	\$69,853
Central Controller Software Costs Central Controller Hardware Cost Central Controller Hordware Cost	\$53.185	\$2,500 \$12,500 \$15,000	\$2,550	\$2,601 \$2,601	\$2,653	\$2,705	\$2,760	\$2,815 \$2,815	\$2,872 \$2,872	\$2,929 \$2,929	\$2,988	\$3,047 \$12,500 \$15,547	\$3,108	\$3,171	\$3,234 \$3,234	\$3,299 \$3,299	\$3,365 \$3,365	\$3,432 \$3,432	\$3,501 \$3,501
Cantral Controller Costs	\$33,183	\$15,000	\$4,550	52,601	\$4,633	\$2,705	\$2,700	\$2,815	\$4,872	\$2,929	52,988	\$12,041	53,106	\$3,171	\$3,234	\$3,299	\$3,303	\$3,432	\$3,501
TOTAL PROGRAM COSTS - UCT (No Amortization) TOTAL PROGRAM COSTS - UCT (Amortized installed Equipment Costs)	\$3,438,923 \$3,499,385	\$199,806 \$141,403	\$378,900 \$196,444	\$614,567 \$346,000	\$419,807 \$366,748	\$249,863 \$345,629	\$186,845 \$330,962	\$172,924 \$317,130	\$164,224 \$303,182	\$155,524 \$289,118	\$146,825 \$274,936	\$291,442 \$290,871	\$467,826 \$286,295	\$632,457 \$298,193	\$397,654 \$304,408	\$220,064 \$306,320	\$156,210 \$306,689	\$150,170 \$306,896	\$150,515 \$307,105
TOTAL PROGRAM COSTS - TRC (No Amortization)	\$1,942,451	\$184,809	\$315,684	\$475,474	\$246,901	\$73,957	\$18,787	\$13,775	\$13,996	\$14,227	\$14,466	\$159,012	\$335,325	\$499,885	\$265,012	\$87,351	\$23,424	\$17,313	\$17,587
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$2,002,913	\$126,407	\$133,229	\$206,907	\$193,842	\$169,723	\$162,903	\$157,982	\$152,955	\$147,820	\$142,577	\$158,441	\$153,794	\$165,622	\$171,765	\$173,607	\$173,903	\$174,039	\$174,177
Total Benefits	\$7,434,759																		
total const Total Costs UCT Benefit Cost Ratio	57,434,755 53,438,923 2.16																		
TOTAL RESOURCE COST TEST																			
Total Benefits Total Costs	\$7,434,759 \$1,942,451																		
TRC Benefit Cost Ratio	585																		

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind Capacity Bidding																		
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Number of Control (miss Ner Participant Mumber of Control (Program - Teal A Number of Participants Age of Existing Program - Years	ND YES ND 1 2011	8 Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		117	223	305	385	472	566	661	755	849	944	945	944	944	944	944	944	944	944
Coincident Peak (CP) Load Per Eligible Customer (kW)	614.54																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.90%	1.80%	2.85%	3.77%	4.67%	5.55%	6.44%	7.27%	8.13%	8.94%	9.73%	10.48%	11.20%	11.89%	12.60%	12.89%	13.04%	13.07%
Participant Incentive (S/KW-Yr.)	\$50.00																		
Program Participation Rate (From Market Adoption Curve Tab)		0.1%	0.3%	0.7%	0.9%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	19.5%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants				2		,									â				
Base Sector CP Demand (kW)		71,390	134,553	182,313	227,496	276,263	328,564	380,149	430,400	479,525	528,534	523,973	519,135	514,970	511,047	506,971	505,345	504,495	504,368
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		50 10	404 79	1,276 249	2,116 413	2,763 539	3,286 641	3,801 741	4,304 839	4,795 935	5,285 1,031	5,240 1,022	5,191 1,012	5,150 1,004	5,110 997	5,070 989	5,053 985	5,045 984	5,044 984
Coincident Peak Demand Reduction@ Gen (kW) DENISTIS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$1,427,353	10	83 \$10,662	262 \$39,601	434 \$67,160	566 \$89,578	673 \$108,481	779 \$128,311	882 \$148,257	983 \$168,542	1,083	1,074	1,064	1,055 \$196,632	1,047	1,039 \$202,487	1,036 \$206,197	1,034	1,034 \$214,534
TOTAL UTILITY AVOIDED COSTS (BENEHITS)	\$1,427,353	\$815	\$10,662	\$39,601	567,160	\$89,578	5108,481	\$128,311	5148,257	\$166,542	\$190,308	\$192,590	\$194,216	\$196,632	\$199,140	5202,487	\$206,197	5210,211	5214,534
COSSS Newly installed Units (includes replacement of units at end of useful life)	NPV	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$1.462	\$1.491	\$1,521	\$1.552	\$1,583	\$1.614	\$1.647	\$1.680	\$1,713	\$1,748	\$1,782	\$1.818	\$1.854	\$1,892	\$1,929	\$1,968	\$2.007	\$2,048
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$0 \$1,462	\$0	\$0	\$0	\$0	\$0 \$1,614	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	50	\$0	\$0	\$0
																64.030			
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$11,632 \$12,306	\$1,462 \$120 \$10	\$1,491 \$875 \$85	\$1,521 \$2,234 \$277	\$1,552 \$2,235 \$469	\$1,583 \$1,801 \$623	\$1,526 \$754	\$1,647 \$1,566 \$888	\$1,680 \$1,581 \$1.024	\$1,713 \$1,613 \$1,162	\$1,748 \$1,661 \$1,305	\$1,782 \$1 \$1,305	\$1,818 \$0 \$1,305	\$1,854 \$1 \$1,305	\$1,892 \$2 \$1,305	\$1,929 \$2 \$1,305	\$1,968 \$2 \$1,305	\$2,007 \$1 \$1.306	\$2,048 \$1 \$1.306
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT	\$11,632 \$12,306	\$120	\$875 \$85	\$2,234 \$277	\$2,235 \$469	\$1,801 \$623	\$1,526 \$754	\$1,566 \$888	\$1,581 \$1,024	\$1,613 \$1,162	\$1,661 \$1,305	\$1 \$1,305	\$0 \$1,305	\$1 \$1,305	\$2 \$1,305	\$2 \$1,305	\$2 \$1,305	\$1 \$1,306	\$1 \$1,306
Variable Utility/PA Installed Equipment Cost Amortized Utilitity/PA Installed Equipment Cost	\$11,632 \$12,306	\$120	\$875	\$2,234	\$2,235	\$1,801	\$1,526	\$1,566	\$1,581	\$1,613	\$1,661	\$1	\$0	\$1	\$2	\$2	\$2	\$1	\$1
Variabile Utility/PA Installed Equipment Cost Amortiade Utility/PA Installed Equipment Cost EQUIPMENT That WILL BE INSTALLED AND COWIED BY THE PARTICIPANT Participant Share Installation Cost Pr Unit - Equipment Participant Share Installation Cost Pr Unit - Labor Total Participant Share Installation Cost Pr Unit - Labor	\$11,632 \$12,306	\$120 \$10 \$0	\$875 \$85 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0	\$1,801 \$623 \$0 \$0 \$0	\$1,526 \$754 \$0 \$0 \$0	\$1,566 \$888 \$0 \$0 \$0 \$0	\$1,581 \$1,024 \$0 \$0 \$0	\$1,613 \$1,162 \$0 \$0 \$0 \$0	\$1,661 \$1,305 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0	50 \$1,305 50 50	\$1 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0	\$1 \$1,306 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0
Variable USBNJVA installed Equipment Cost Memotese USBNJVA Installed Equipment Cost EQUIPMENT THAT WALL BE ROTALED AND OWNED BY THE PARTICIPANT Participant Solare and Installation Cost Pr Unit - Equipment Participant Solare Installation Cost Pr Unit - Equipment Participant Solare Installation Cost Pr Unit - Equipment Equipment Installation Cost Pr Unit - Equipment Cost Equipment Installed Equipment Costs	\$12,306	\$120 \$10	\$875 \$85 \$0 \$0 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0	\$1,801 \$623 \$0 \$0 \$0 \$0 \$0,00	\$1,526 \$754 \$0 \$0 \$0 \$0 \$0 \$0	\$1,566 \$888 \$0 \$0 \$0 \$0 \$0,00	\$1,581 \$1,024 \$0 \$0 \$0 \$0 \$000	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0,00	\$1,661 \$1,305 \$0 \$0 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0 \$0 \$000	50 \$1,305 50 50 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0 \$0 \$00	\$2 \$1,305 \$0 \$0 \$0 \$0,00	\$2 \$1,305 \$0 \$0 \$0 \$000	\$1 \$1,306 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0 \$0,00
Variabile Utility/PA Installed Equipment Cost Amortiade Utility/PA Installed Equipment Cost EQUIPMENT That WILL BE INSTALLED AND COWIED BY THE PARTICIPANT Participant Share Installation Cost Pr Unit - Equipment Participant Share Installation Cost Pr Unit - Labor Total Participant Share Installation Cost Pr Unit - Labor	\$12,306	\$120 \$10 \$0	\$875 \$85 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0	\$1,801 \$623 \$0 \$0 \$0	\$1,526 \$754 \$0 \$0 \$0	\$1,566 \$888 \$0 \$0 \$0 \$0	\$1,581 \$1,024 \$0 \$0 \$0	\$1,613 \$1,162 \$0 \$0 \$0 \$0	\$1,661 \$1,305 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0	50 \$1,305 50 50	\$1 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0	\$2 \$1,305 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0
Nacialità Utility Alla statula Fagianani Cast Annotasi Utility Alla statula Espanani Cast Eggintanta I Nari Wasi, El NS XIII DA NO ONICO EN TRE ANTO-ANT Participat Dana I Institutioni Cast Piuto I - Lagoni Participat Dana I Institutioni Cast Piuto I - Lagoni Casta Professa Dana de la Unita I Instituti Espanani Casta Professa Dana de la Unita I Instituti I Espanani Espanani Del Piuto I Instituti I Espanani Espanani Del Piuto I Instituti I Espanani Tarticipat I Instituti - Unita I Instituti I Espanani Participat I Instituti - Unita I Instituti I Espanani Participat I Instituti - Unita I Instituti I Ins	\$12,306 	\$120 \$10 \$0 \$0.00 \$0.00 \$0.00 \$0.00	\$875 \$85 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,801 \$623 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$50,00	\$1,526 \$754 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,566 \$888 \$0 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$50	\$1,581 \$1,024 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50	\$1,661 \$1,305 \$0 \$0 \$0 \$0 \$0,00 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,305 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00	\$2 \$1,305 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50	\$2 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0,00 \$0,00 \$50	\$2 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Valaitaki chilip Ah sociale Equipment Cat Amantesi chilim Ahman Landi Equipment Cat Cajum Mark Taka Yaka Sa Kor Xaka Na Dan Dan Na Park Na Karkan Participar Share Insultations Cat Privito Xaka Equipment Participar Share Insultations Cat Privito Xaka Equipment Participar Share Insultations Cat Privito Xaka Equipment Cat Participar Share Insultations Cat Privito Xaka Taka Participar Insultation Cat Privito Xaka Equipment Cat Participar Insultation Cat Privito Xaka Cat Parkan Participar Insultation Xaka Parka Cat Parkan Participar Insultation Xaka Participart Equipment Cats	\$12,306 	\$120 \$10 \$0 \$0,00 \$0,00	\$875 \$85 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,801 \$623 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00	\$1,526 \$754 \$0 \$0 \$0 \$0 \$0 \$0,00 \$0 \$0 \$0	\$1,566 \$888 \$0 \$0 \$0 \$0,00 \$0,00	\$1,581 \$1,024 \$0 \$0 \$0 \$0,00 \$0,00	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,661 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 \$1,305 50 50 50 50 50 50 50 50 50.00	\$1 \$1,305 \$0 \$0 \$0 \$0,00 \$0 \$0,00 \$0 \$0,00	52 \$1,305 50 50 \$0,00 \$0,00 \$0,00	\$2 \$1,305 \$0 \$0 \$0,00 \$0,00	\$2 \$1,305 \$0 \$0 \$0,00 \$0,00	\$1 \$1,306 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,306 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Nacialità UNITA Na Nacia Fagianemi Cat Annolesi Billing Maria del Tagianemi Cat Equinataria Unitaria del Tagianemi Cat Equinataria Unitaria del Tagianemi Cat Equinataria Unitaria del Tagianemi Cat Participari Dian el Industria Cat Parti La Cat Participari Dian el Industria Cat Parti La Cata Participari Dian el Industria Cata Parti La Cata Participari Dian el Industria Cata Parti La Cata Participari Dian el Industria del Equipariata Cata Participari Dian el Industria del Equipariata Cata Participari Participari Industria del Cata Participari Participari Industria del Cata Participari Participari Industria (Cata Parti Cata Participari Participari Participari Cata Participari Participari Participari Participari Cata Participari Parti Participari Participari Particip	\$12,806 50 \$0	\$120 \$20 \$0 \$0.00 \$0.00 \$50 \$50 \$25	\$875 \$85 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50,00 \$50,00 \$50,00	\$2,234 \$277 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$50 \$5	\$2,235 \$469 50 50 50 50 50.00 \$0.00 \$50 \$50 \$1,041	\$1,801 \$623 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$50 \$50 \$1,359	\$1,526 \$754 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50,00 \$51,616	\$1,565 \$888 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$51 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$1,581 \$1,024 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50,00 \$50,00	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,661 \$1,305 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50 \$50 \$2,999	\$1 \$1,305 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$50,00 \$50,00 \$50,00	50 51,305 50 50 50 50,00 50,00 50,00 550 550 55	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	52 51,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 50,00	\$2 \$1,305 \$0 \$0 \$0,00 \$0,00 \$0,00 \$5,00 \$2,493	\$2 \$1,305 \$0 \$0 \$000 \$000 \$000 \$500 \$2,485	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,481	\$1 \$1,306 \$0 \$0 \$0,000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0
Nacialar Unity, PA In Starler Tayanman Cat Amandara Unity, PA In Starler Tayanma Cat Experimental Starler, PA International Starler, PA International Experimental Internation Cate Nutris - Cargonical Cater Devices Tayan Categories (Cater Tard Participant Band and Experiment Cate Tard Participant Band and Experiment Cate Cater Devices (Categories) (Cater Cater Devices) (Cater Devices) Devices) (Cater Devices) (Cater Devices) (Cater Cater Devices) (Cater Devic	\$12,306 \$0 \$0 \$420,796	\$120 \$10 \$0.00 \$50 \$55 \$536.60 \$132,535 \$132,535 \$132,535 \$132,535	\$875 \$85 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,234 \$277 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$50 \$50 \$528 \$513,703.39	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,041 \$22,777.88 \$35,247	\$1,801 \$623 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50 \$1,159 \$22,664.33 \$35,788	\$1,526 \$754 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$50 \$1,616 \$35,280,19 \$36,398	\$1,566 \$888 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$50 \$40,819,27 \$37,120	\$1,581 \$1,024 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$2,117 \$46,215,12 \$37,866	\$1,613 \$1,162 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$5,00 \$5,355 \$551,489,96 \$38,623	\$1,661 \$1,305 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$50 \$52,509 \$55,752.41 \$39,401	\$1 \$1,305 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50,00 \$50,00 \$50,00 \$52,577 \$56,262,82 \$38,610 \$38,610 \$38,610 \$33,047	50 51,305 50 50 50 50 50 50 50 50 50 50 55 55,743,14 540,402	51 51,305 50 50 50 50 50 50 50 50 50 50 50 50 5	52 51,305 50 50 50 50 50 50 50 50 50	\$2 \$1,305 \$0 \$0 \$0,00 \$0,00 \$50 \$2,493 \$54,47,09 \$42,876	52 51,305 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0,00 \$0,00 \$2,00 \$2,00 \$2,481 \$54,171.15 \$44,608	51 51,306 50 50 50 50 50 50 50 50 54,157,50 545,500
Validatia UsityPAN katalei Equipment Cast Amontesit UsityPAN katalei Equipment Cast Amontesit UsityPAN katalei Equipment Cast Participaet Davie Installation Cast P vita - Labor Participaet Davie Installation Cast P vita - Cagionet Participaet Davie Installation Cast P vita - Caston Participaet Davie Installation Cast P vita - Labor Participaet Note: National Decisionet Cast Participaet Note: National Decisionet Cast Participaet Installet Equipment Cast Note Equipment Participaet Installation Cast Note Equipment Participaet Installation Cast Installatione Castonetter (SLAW N) Installatione Castonetter (SLAW N) Installatione Castonetter (SLAW N)	\$12,306 \$0 \$0 \$420,796	\$120 \$10 \$0.00 \$0.00 \$0.00 \$25 \$536.60 \$132,535 \$132,535	\$875 \$85 \$0 \$0 \$0,00 \$0 \$0,00 \$0,00 \$50 \$199 \$4,334.39 \$33,443 \$33,443	\$2,234 \$277 \$0 \$0 \$0,00 \$0 \$0,00 \$0,00 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$528 \$13,703.39 \$34,571 \$34,571	\$2,235 \$469 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$1,041 \$22,737.88 \$35,247	\$1,801 \$623 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$1,50 \$1,509 \$1,509 \$1,509 \$1,509 \$1,509 \$1,508 \$35,788	\$1,526 \$754 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50 \$1,516 \$35,280,19 \$36,398 \$36,398	\$1,566 \$888 \$0 \$0 \$0 \$0 \$0,00 \$0 \$0,00 \$0 \$0,00 \$0 \$0 \$0 \$1,870 \$40,819,27 \$40,819,27 \$37,129 \$37,129	\$1,581 \$1,024 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,661 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$1,305 \$0 \$0 \$0.00 \$0 \$0.00 \$0 \$50 \$55,257 \$56,262,62 \$39,610 \$39,610	50 51,305 50 50 50 50 50 50 55,50 5,55 55,743,14 540,402 540,402	51 51,305 50 50 50 50,000 50,000 50,000 50,000 55,295,91 541,211 541,211	52 51,305 50 50 50 50,000 50,000 50,000 50,000 52,513 554,874.74 542,035 544,2035	52 51,305 50 50 50.00 50.00 50.00 50.00 50.00 52,403 554,437.09 542,876 542,876	52 51,305 50 50 50,000 50,000 50,000 50,2485 554,262,44 543,733 543,733	51 50 50 50 50 50 50 50 50 50 50	51 51,306 50 50 50 50 50 50 55 54,157,50 544,550 545,500
Nachski USINJAN kostaler Taganen Cast Amontes USINJAN Kostale Taganen Cast Castraces Blow III Anno Santa Castra Castraces Blow III Anno Santa Castra Castraces Blow III Anno Santa Castra Tast Professor Blow III Anno Santa Tast Professor Blow III Anno Santa Participanes Participant Cast Blow Castraces Dlow III Anno Santa Mark Castra Castra Mark Castra Castra Mark Castra Castra Mark Castra Castra Mark Castra Castra Mark	512,366 50 50 5440,786 5540,333 551,185	\$120 \$10 \$0,00 \$0,00 \$50,00 \$50,00 \$132,535 \$132,535 \$132,535 \$132,530 \$132,500 \$152,500	5875 585 50 50 50 50 50 50 50 50 50 50 50 50 50	\$2,234 \$277 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2,235 \$469 \$0 \$0 \$0,000	\$1,801 5623 50 50 50 50 50 50 50 50 50 50 50 50 50	\$1,526 \$754 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$1,616 \$15,1616 \$15,280,19 \$16,398 \$36,398 \$36,398 \$32,760	\$1,566 \$888 \$0 \$0 \$0 \$0,000 \$0,000 \$0,000 \$0,000 \$1,870 \$40,819,27 \$37,129 \$37,129 \$37,129 \$2,815 \$2,815	\$1,581 \$1,024 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,613 \$1,162 \$0 \$0 \$0 \$0 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$50,0000 \$50,00000 \$50,00000 \$50,00000 \$50,00000000 \$50,0000000000	\$1,661 \$1,305 \$0 \$0 \$0,000 \$0,000 \$0,000 \$0,000 \$50,752,41 \$39,401 \$39,401 \$2,988 \$2,988	51 51,305 50 50 50 50,000 50,000 50,000 50,000 550,262,62 539,610 539,610 539,610 539,610	50 51,305 50 50 50 50,00 50,00 50,00 50,00 55,743,14 540,402 540,402 540,402 53,108	51,305 50 50 50 50 50 50 50 50 50 50 50 50 5	52 51,305 50 50 50 50 50 50 50 50 50	\$2 \$1,305 50 50 50 50 50 50 50 50 50 50 50 50 5	52 51,305 50 50 50 50 50 50 50 50 50	51,306 50 50 50 50 50 50 50 50 50 50 50 50 50	51,305 50,300 50 50,000 50,000 50,000 550,000 554,157,500 544,5000 544,5000 544,5001 534,5001
Nachial visit, MAN backel Fuguement Cat Memoritaria Utility MAN backel Fuguement Cat Automates Utility MAN and Fuguement Cat Automates Utility MAN and Fuguement Cat Tata Participant Bane and Eugement Cat Tata Participant Bane and Backel Responses (Cat Tata Participant Bane and Backel Responses) Tata Participant Bane and Backel Responses (Cat Man Cata) Participant Cat Man Cata) Participant Cat Man Cata) Participant Participant Cate Cata Data (Manghan Cata) Man Responses Participant Incoming Cata) Tata Participant Backel Responses (Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Cat Cata) Cata) Cata) Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Cata) Cata) Participant Participant Cat Man Cata) Participant Participant Cat Cata) Cata) Participant Participant Cat Man Cata) Participant Cat Cata) Cata) Participant Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Cata) Cata) Participant Cat Man Cata) Participant Cat Man Cata) Participant Participant Cata) Participant Participant Participant Cat Man Cata) Participant Cat Man Cata) Participant Participant Cat Man Cata) Participant Participant Cat Man Cata) Part	512,366 50 50 5420,786 5540,333 553,185 553,185 553,185	5120 510 500 50,000 50,000 50,000 50,000 50,000 5132,515 5132,515 5132,515 5132,500 5132,500 5135,500 5135,500 5146,002 5146,002	\$875 \$85 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$1,00 \$1,443 \$33,443 \$33,443 \$33,443 \$2,550 \$2,550	\$2,234 \$277 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	\$2,235 \$4669 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,801 50 50 50 50 50 50 50 50 50 50	\$1,356 \$754 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$1,616 \$15,20,19 \$1,616 \$15,20,19 \$1,616 \$15,20,19 \$1,27,60 \$2,760 \$75,564 \$75,564 \$75,564	\$1,566 \$888 \$0 \$0 \$00 \$000 \$000 \$000 \$000 \$0	\$1,581 \$1,014 \$0 \$0 \$0,000 \$0,000 \$0,0000 \$0,0000 \$0,000 \$0,000 \$0,0000 \$0,0000 \$0,000 \$	51,613 51,612 50 50 50 50 50 50 50 50 50 50	51,661 51,005 50 50 50,000 50,000 50,000 50,000 50,000 50,000 550,732,41 533,401 543,401 544,401544,401 544,401 544,401 544,401 544,401544,401 544,401 544,401544,401 544,401 544,401544,400,400,400,400,400,400,400,400,400,	\$1 \$1,305 \$0 \$00 \$000 \$000 \$000 \$000 \$000 \$000	50 51,305 50 50 50 50 50 50 50 50 50 50 50 50 5	\$1 \$1,105 \$0 \$0 \$0,000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$	52 53,305 50 50 500 5000 5000 5000 5000 50	52 51,305 50 50 50 50 50 50 50 50 50 50 50 51 50 51 51 51 20 51 51 20 51 51 20 51 51 51 51 51 51 51 51 51 50 50 50 50 50 50 50 50 50 50 50 50 50	52 53,305 50 50 50 500 500 500 500 530 530 530	51 51,306 50 50 50 50 50 50 50 50 50 50	51 51,306 50 50 50 50 50 50 50 50 50 50
Variation (Varianty Park Ander Engement Catal Anderstein Utility PA Not Market Engement Catal Anderstein Utility PA Not Walk & MCNAD DAY THE PATH PATH PATH Participaed Shared Installation Catal Prof. The Company of Anderstein Catal Participaed Shared Installation Catal Prof. The Company of Anderstein Catal Participaed Shared Installation Catal Prof. The Company of Anderstein Catal Participaed Shared Installation Catal Prof. The Company of Anderstein Catal Participaed Shared Installation Catal Prof. The Company of Anderstein Catal Participaed Participaer Installation Catal Prof. The Company of Catal Participaera Participaer Installation Catal Catal Catal Catal Prof. Nuclearing Test Parsen Catas Catal Catal Catal Prof. Nuclearing Catal Catal Catal Catal Catal Catal Catal Catal Catal Prof. Nuclearing Catal Catal Prof. Nuclearing Catal Catal Prof. Nuclearing Catal Catal Prof. Nuclearing Catal Catal Pro	517.306 50 50 5420,7% 5540,333 553,185 533,185	\$120 \$50 \$0.00 \$0.00 \$50 \$32 \$335.60 \$132,535 \$132,535 \$132,535 \$132,535 \$132,535 \$132,535 \$132,535 \$132,535 \$132,500 \$155,000	5875 585 50 50 50 500 5000 54,004 500 54,004 500 54,004 500 54,004 530,443 533,545 534,545 545 545 545 545 545 545 545 545 54	\$2,234 \$277 \$0 \$0 \$0 \$0,00 \$50 \$628 \$13,703.39 \$34,571 \$34,571 \$34,571 \$2,601 \$2,601 \$2,601	\$2,235 \$469 \$0 \$0 \$0 \$00 \$00 \$00 \$00 \$00	\$1,801 \$623 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,526 \$754 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$1,516 \$15,500 \$15,500 \$16,398 \$36,398 \$36,398 \$2,760 \$2,760 \$75,964	\$1,566 \$888 \$0 \$0 \$0 \$0,000 \$0,000 \$0,000 \$0,000 \$1,270 \$40,819,277 \$40,819,277 \$37,729 \$37,729 \$37,729 \$2,815 \$2,815 \$2,815	51,581 53,024 50 50 50 500 500 500 500 500 52,117 546,715,12 537,866	51,613 51,662 50 50 50 50,000 50,0000 50,000 50,0000 50,0000 50,0000 50,00000000	\$1,651 \$1,005 \$0 \$0 \$0,00 \$0,00 \$0,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,00 \$50,000	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 55,743,14 540,402 540,402 540,402 53,108 53,108	\$1 \$1,105 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0,00 \$1,53 \$55,246,341 \$41,211 \$41,211 \$41,211 \$3,177 \$3,177 \$3,177	52 51,305 50 50 50 50,000 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000000	52 51,305 50 50 50,000 50,000 50,000 52,403 554,437,09 52,403 554,437,09 542,376	52 51,305 50 50 50,00 50,00 50,00 50,00 52,485 554,262,44 543,733 543,735 533,365 533,365 533,365	51 53,305 50 50 50 50 50 50 50 50 50 50 50 50 5	51,365 51,365 50 50,00 50,00 50,00 50,00 50,00 50,00 54,550 54,550 545,500 545,500 545,500 545,500 545,500
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Notified California Program California Calif	512,366 50 50 5420,766 5540,333 551,355 5540,333 551,355 5540,333 5540,335 5540,335	520 550 500 5000 5000 5000 5000 500 500	5875 585 50 50 500 5000 5000 5000 5000 5	\$2,234 \$277 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	51,801 5623 50 50 50,00 50,00 50,00 51,159 528,645,38 515,788 515,788 512,785 52,705 52,705	51.556 5754 50 50 50 50 50 50 50 50 50 50 50 50 50	51,566 5888 50 50 50 50 50 50 50 50 50 50	51,588 51,024 50 50 500 5000 5000 5000 5000 5000 5	51,613 51,612 50 50 50 50 50 50 50 50 50 50	51,661 51,005 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,805 50 50 50 50 50 50 50 50 50	51 51,105 50 50 50 50 500 500 500 500	52 53,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 50,00 55,42,05 542,05 542,05 51,224 51,224 51,224	\$2 \$3,305 \$0 \$0 \$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$	52 53,365 50 50 50,00 50,00 53,000 53,000 53,465 554,262,44 543,733 543,733 543,733 543,733 543,733 543,733	51 51,306 50 50 50 50 50 50 50 50 50 50	51 53,306 50 50 50 50 50 50 50 50 50 50 51 51 515 515
Norded California Production California Hearing Without Market Regioner California Hearing Without Market Regioner California Hearing Without Market Regioner California Tata Protogen California Tata Protogen California Hearing Without Market Regioner California Hearing	512,366 50 50 5420,756 5540,333 5540,333 5540,333 5540,333 5540,333 5540,333 5540,333 5540,333 5540,333 5540,335 5540,335 5540,335	520 550 500 5000 5000 5000 5000 500 500	5875 585 50 50 500 5000 5000 5000 5000 5	\$2,234 \$277 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	51,801 5623 50 50 50,00 50,00 50,00 51,159 528,645,38 515,788 515,788 512,785 52,705 52,705	51.556 5754 50 50 50 50 50 50 50 50 50 50 50 50 50	51,566 5888 50 50 50 50 50 50 50 50 50 50	51,588 51,024 50 50 500 5000 5000 5000 5000 5000 5	51,613 51,612 50 50 50 50 50 50 50 50 50 50	51,661 51,005 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,805 50 50 50 50 50 50 50 50 50	51 51,105 50 50 50 50 500 500 500 500	52 53,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 50,00 55,42,05 542,05 542,05 51,224 51,224 51,224	\$2 \$3,305 \$0 \$0 \$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$	52 53,365 50 50 50,00 50,00 53,000 53,000 53,465 554,262,44 543,733 543,733 543,733 543,733 543,733 543,733	51 51,306 50 50 50 50 50 50 50 50 50 50	51 53,306 50 50 50 50 50 50 50 50 50 50 51 51 515 515
Nachad (1987) Also Analysis Tayloren Catal Annotated (1988) Also Analysis Catal Tayloration of Analysis Analysis Catal Tayloration of Analysis Analysis Catal Tayloration of Analysis	512,366 50 50 5420,766 5540,333 551,355 5540,333 551,355 5540,333 5540,335 5540,335	520 550 500 5000 5000 5000 5000 500 500	5875 585 50 50 500 5000 5000 5000 5000 5	\$2,234 \$277 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	51,801 5623 50 50 50,00 50,00 50,00 51,159 528,645,38 515,788 515,788 512,785 52,705 52,705	51.556 5754 50 50 50 50 50 50 50 50 50 50 50 50 50	51,566 5888 50 50 50 50 50 50 50 50 50 50	51,588 51,024 50 50 500 5000 5000 5000 5000 5000 5	51,613 51,612 50 50 50 50 50 50 50 50 50 50	51,661 51,005 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,805 50 50 50 50 50 50 50 50 50	51 51,105 50 50 50 50 500 500 500 500	52 53,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 50,00 55,42,05 542,05 542,05 51,224 51,224 51,224	\$2 \$3,305 \$0 \$0 \$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$	52 53,365 50 50 50,00 50,00 53,000 53,000 53,465 554,262,44 543,733 543,733 543,733 543,733 543,733 543,733	51 51,306 50 50 50 50 50 50 50 50 50 50	51 53,306 50 50 50 50 50 50 50 50 50 50 51 51 515 515
Nachai (1997) Maximum Catal Manuface Miniph Maximum Catal Annual Maximum Catal Section 2014 (1997) Annual Catal Annual Catal Maximum Catal Max	512,366 50 50 5420,766 5540,333 551,355 5540,333 551,355 5540,333 5540,335 5540,335	520 550 500 5000 5000 5000 5000 500 500	5875 585 50 50 500 5000 5000 5000 5000 5	\$2,234 \$277 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$	\$2,235 \$469 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	51,801 5623 50 50 50 50,00 50,00 50,00 51,159 52,864,538 515,788 515,788 512,785 52,705 52,705	51.556 5754 50 50 50 50 50 50 50 50 50 50 50 50 50	51,566 5888 50 50 50 50 50 50 50 50 50 50	51,588 51,024 50 50 500 5000 5000 5000 5000 5000 5	51,613 51,612 50 50 50 50 50 50 50 50 50 50	51,661 51,005 50 50 50 50 50 50 50 50 50	\$1 \$1,305 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 51,805 50 50 50 50 50 50 50 50 50	51 51,105 50 50 50 50 500 500 500 500	52 53,305 50 50 50,00 50,00 50,00 50,00 50,00 50,00 50,00 55,42,05 542,05 542,05 51,224 51,224 51,224	\$2 \$3,305 \$0 \$0 \$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,000 \$	52 53,365 50 50 50,00 50,00 50,00 53,465 554,262,44 543,733 543,733 543,733 543,733 543,733 543,733	51 51,306 50 50 50 50 50 50 50 50 50 50	51 53,306 50 50 50 50 50 50 50 50 50 50 51 51 515 515

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind CPP with Enabling T	ech .																	
Firm Load Reduction? (Salect from drop-down menu) New Pogram? (Salect from drop-down menu) Load Shifting Program? (Salect Schond drop down menu) Number of Control Linits Per Participant If Saleng Program - Total Number of Participants Age of Exeling Program - Total	ND YES YES 1.654 20:	18 Year End	2	3		5	6	7	8		10	11	12	13	14	15	16	17	18
item		2019	2020	3 2021	4 2022	2023	5 2024	2025	8 2026	2027	2028	2029	12 2030	13 2031	14 2032	15 2033	2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		82	163	243	322	400	478	558	637	716	796	796	795	795	795	794	794	794	794
Coincident Peak (CP) Load Per Eligible Customer (kW)	106.35																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.90%	1.80%	2.85%	3.77%	4.67%	5.55%	6.44%	7.27%	8.13%	8.94%	9.73%	10.48%	11.20%	11.89%	12.60%	12.89%	13.04%	13.07%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		1.4%	6.0%	14.0%	18.6%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	21.5%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants			10	24	(2)	80	24	112	127	143	159	470	159	159	159	159	159	159	159
Base Sector CP Demand (kW)		8,642	17,023	25,108	32,953	40,554	48,013	55,523	62,820	69,953	77,088	76,419	75,686	75,075	74,495	73,801	73,556	73,428	73,406
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		121 26	1,021 219	3,515 755	6,129 1,316	8,111 1,741	9,603 2,062	11,105 2,384	12,564 2,697	13,991 3,004	15,418 3,310	15,284 3,281	15,137 3,250	15,015 3,224	14,899 3,199	14,760 3,169	14,711 3,158	14,686 3,153	14,681 3,152
Coincident Peak Demand Reduction @ Gen (kW) BENETIES	NPV	27	230	793	1,383	1,830	2,167	2,505	2,835	3,157	3,479	3,448	3,415	3,388	3,362	3,330	3,319	3,313	3,312
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$4,429,075	\$2,101	\$29,013	\$117,430	\$208,858	\$281,914	\$340,437	\$401,562	\$463,420	\$526,360	\$591,652	\$598,245	\$604,361	\$611,470	\$618,882	\$625,373	\$635,765	\$647,355	\$660,100
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	2	14	40	43	33	26	26	26	26	26	2	14	40	43	33	26	26	26
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		-																	
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$616 \$250	\$629 \$255	\$641 \$260	\$654 \$265	\$667 \$271	\$681 \$276	\$694 \$282	\$708 \$287	\$722 \$293	\$737 \$299	\$751 \$305	\$766 \$311	\$782 \$317	\$797 \$323	\$813 \$330	\$830 \$336	\$846 \$343	\$863 \$350
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$301,901	\$866 \$1,645	\$884 \$12,618	\$901 \$36,142	\$919 \$39,346	\$938 \$31,192	\$957 \$24,683	\$976 \$25,822	\$995 \$26,010	\$1,015 \$26,530	\$1,035 \$27,403	\$1,056 \$2,005	\$1,077 \$15,381	\$1,099 \$44,056	\$1,121 \$47,963	\$1,143 \$38,023	\$1,166 \$30,089	\$1,189 \$31,477	\$1,213 \$31,705
Amortized Utilitity/PA Installed Equipment Cost	\$319,412	\$221	\$1,920	\$6,784	\$12,079	\$16,277	\$19,599	\$23,074	\$26,575	\$30,145	\$33,833	\$33,881	\$34,253	\$35,319	\$36,478	\$37,398	\$38,125	\$38,886	\$39,653
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment			\$0	50	50	\$0	\$0	\$0	\$0	50	50	50	50	\$0	50	50	50	\$0	50
Participant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost	-	50	\$0 \$0	\$0 \$0	50 50	\$0 \$0													
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0 \$0.00	50 50.00	50 50.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	50 50.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00
Non-Equipment Participant Incentives (S/KW-Yr.)		\$0	50	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Non-Equipment Program Incentive Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Implementation, Admin, Marketing O&M		\$82,551 \$50	\$33,584 \$432	\$35,068 \$1,533	\$35,856 \$2,753	\$36,261 \$3,751	\$36,737 \$4,573	\$37,494 \$5,445	\$38,233 \$6,340	\$38,998 \$7,269	\$39,789 \$8,242	\$39,610 \$8,407	\$40,402 \$8,565	\$41,210 \$8,736	\$42,034 \$8,911	\$42,875 \$9,077	\$43,733 \$9,259	\$44,607 \$9,444	\$45,499 \$9,633
Fixed Program Costs	\$555,131	\$82,601	\$34,016	\$36,601	\$38,609	\$40,012	\$41,310	\$42,939	\$44,573	\$46,266	\$48,032	\$48,017	\$48,967	\$49,946	\$50,945	\$51,953	\$52,992	\$54,051	\$55,132
Central Controller Software Costs Central Controller Hardware Cost		\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Central Controller Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$857,033	\$84,246	\$46,634	\$72,743	\$77,955	\$71,204	\$65,993	\$68,761	\$70,582	\$72,796	\$75,435	\$50,023	\$64,348	\$94,003	\$98,908	\$89,975	\$83,080	\$85,529	\$86,838
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$874,543 \$857,033 \$874,543	\$82,823 \$84,246 \$82,823	\$35,936 \$46,634 \$35,936	\$43,385 \$72,743 \$43,385	\$50,688 \$77,955 \$50,688	\$56,289 \$71,204 \$56,289	\$60,909 \$65,993 \$60,909	\$66,013 \$68,761 \$66,013	\$71,147 \$70,582 \$71,147	\$76,411 \$72,796 \$76,411	\$81,865 \$75,435 \$81,865	\$81,899 \$50,023 \$81,899	\$83,220 \$64,348 \$83,220	\$85,265 \$94,003 \$85,265	\$87,423 \$98,908 \$87,423	\$89,350 \$89,975 \$89,350	\$91,117 \$83,080 \$91,117	\$92,938 \$85,529 \$92,938	\$94,785 \$86,838 \$94,785
UTILITY COST TEST																			
Total Benefits	\$4,429,075																		
Total Costs UTC Benefit Cost Ratio	\$857,033 5.17																		
TOTAL RESOURCE COST TEST	2.17																		
Total Benefits	\$4,429,075																		
Total Costs TRC Benefit Cost Ratio	\$857,033 5.17																		

	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind Critical Peak Pricing	w/o Enabling Tech																	
Firm Load Reduction? (Salect from drop down memo) New Program? (Salect from drop down memo) Load Shifting Program? (Salect from drop down memo) Number of Control Units Ner Partigiant If Esisting Program. Teals Age of Esisting Program. Teals	NO YES YES 1 201	Year End																	
iten		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		409	805	1,182	1,553	1,926	2,301	2,683	3,066	3,448	3,830	3,829	3,827	3,826	3,824	3,823	3,821	3,820	3,819
Coincident Peak (CP) Load Per Eligible Customer (kW)	106.35																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.90%	1.80%	2.85%	3.77%	4.67%	5.55%	6.44%	7.27%	8.13%	8.94%	9.73%	10.48%	11.20%	11.89%	12.60%	12.89%	13.04%	13.07%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate - Max Achievable (From Market Adoption Curve Tab)		1.3%	5.4%	12.6%	16.7%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	11.3%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants Base Sector CP Demand (WV)		5 43.091	43 84.093	149 122.126	260 158.942	347 195.270	414 231.166	483 267.010	552 302.325	621 336.848	689 370,895	689 367.579	689 364.342	689 361.305	688 358.327	688 355.359	688 353.995	688 353,288	687 353.088
Base Partcipert CP Demand (KW) Coincident Peak Demand (KW)		43,091 543 61	4,541 513	15,388 1,739	26,607	35,149 3,972	41,610 4,702	48,052 5,431	54,418 6,149	60,633 6,851	66,761 7,544	66,164 7,477	65,582 7,411	65,035 7,349	64,499 7,288	63,965 7,228	63,719 7,200	63,592 7,186	63,556 7,182
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction (P Gen (kW) BENETTS	ND1	64	513	1,739	3,007	4,174	4,941	5,707	6,462	7,200	7,928	7,857	7,788	7,723	7,659	7,596	7,566	7,551	7,547
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$10,101,556	\$4,962	\$67,890	\$270,565	\$477,185	\$642,985	\$776,408	\$914,730	\$1,056,428	\$1,200,606	\$1,348,399	\$1,363,068	\$1,378,087	\$1,393,932	\$1,410,092	\$1,426,378	\$1,449,322	\$1,475,356	\$1,504,010
COSTS	NPV																		
Newly installed Units (includes replacement of units at end of useful life)			38	105	111	87	68	69	69	69	69	0		0		0		0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		,										-	0	-	0	-	0	-	
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/IPA Per Unit Equipment Cost Utility/IPA Per Unit Labor Cost		\$0 \$0	50 50	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost	\$0 \$0		\$0	\$0	50	\$0	\$0	\$0	\$0	50	50	50		50		\$0		50	
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	50 \$0	\$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50	\$0 \$0 \$0 \$0	50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50 50 50
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EquiPMENT THAT WAS BE DIRECT WITH THAT ALL DAD GRAWNED BY UTILITY OF A UTILITY AT by the large-ment Cost Task Utility AT handhad Equipment Cost Task Utility AT handhad Equipment Cost Annotania Utility AT handhad Equipment Cost Annotania Utility AT handhad Equipment Cost Annotania Utility AT handhad Equipment Cost Antigenet David Instantion Cost Physics In Cost Antigenet David Instantion Cost Physics In Cost Antigenet Cost Physics Internet Cost Antigenet Cost Physics Internet Cost Antigenet Cost Physics Internet Cost Attask Physics Physics Internet Physics Physics Physics Physics Attask Physics Phys	\$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50
EquiPMENT THAT YAU & ED RACET VIO TRAILED AND OWNED BY UTILITY OF A UTILITY/AP for utilization of the second secon	50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50
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Guidenti Trust Was de Daktor UNITAUE AND OWNED BY UTUETY OF N Winner State	50 50 50 50 502,102 502,102 502,102 502,102 502,102	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Guident That You as to active URFAULD AND OWNED BY UTULY OF A Unity PA to visit all experiments of That UTULY PA to the PA of the P	50 50 50 50 502,102 502,102 502,102 502,102 502,102	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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Counter That You Lie CountYU IN YOU AND	50 50 50 50 5024,102 5024,102 5024,102 5024,002 5024,002 5024,002	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5

	- User Input Ameren DR Potential																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind Interruptible Rate																		
Firm Load Reduction? (Select from drop-down menu)	NO																		
New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu)	YES NO																		
Number of Control Units Per Partcipant	1																		
If Existing Program - Total Number of Partcipants Age of Existing Program - Years	2018	Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		110	178	163	141	148	180	210	241	271	301	302	301	301	302	302	302	303	303
Coincident Peak (CP) Load Per Eligible Customer (kW)	351.54																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.90%	1.80%	2.85%	3.77%	4.67%	5.55%	6.44%	7.27%	8.13%	8.94%	9.73%	10.48%	11.20%	11.89%	12.60%	12.89%	13.04%	13.07%
Participant Incentive (\$/KW-Yr.)	\$8.50																		
Program Participation Rate (From Market Adoption Curve Tab)		0.2%	0.8%	1.9%	2.5%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Reduct	tion (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	41.3																		
LOAD REDUCTION Number of Program Participants				2			,	6							,				
Base Sector CP Demand (kW)		0 38,218	1 61,357	3 55,688	47,737	4 49,707	5 59,814	6 69,199	6 78,495	7 87,582	8 96,496	8 95,715	8 94,767	8 94,058	8 93,443	8 92,794	8 92,597	8 92,491	8 92,518
Base Partcipant CP Demand (KW) Coincident Peak Demand Reduction (KW)		72	493 58	1,045 123	1,190 140	1,332	1,603 188	1,855 218	2,104 247	2,347	2,586 304	2,565 301	2,540 298	2,521 296	2,504 294	2,487 292	2,482 292	2,479 291	2,479 291
Coincident Peak Demand Reduction @ Gen (kW)		9	61	123	140	164	198	218 229	260	290	319	317	314	311	309	307	306	306	306
BENEFITS TOTAL UTILITY AVDIDED COSTS (BENEFITS)	\$435,171	\$705	\$7,850	\$19,531	\$22,754	\$26,024	\$31,887	\$37,712	\$43,657	\$49,703	\$56,100	\$56,804	\$57,245	\$57,989	\$58,792	\$59,842	\$61,005	\$62,226	\$63,540
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	0	1	2	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		50	50	50	50	\$0	\$0	50	50	50	\$0	50	50	50	50	\$0	50	50	\$0
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	50 50	\$0 \$0	\$0	50 50	\$0	\$0 \$0	50 50
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$0 \$0		50 50 50 50 50					\$0 \$0 \$0 \$0 \$0								50 50 50 50 50			50 50 50 50
Utiling/NA Par Unit Equipment Cost Utiling/NA Installed Equipment Cost Variable Utility/NA Installed Equipment Cost Mariable Utility/NA Installed Equipment Cost Amortisku Utility/NA Installed Equipment Cost EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT	\$0 \$0	\$0 \$0	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	50 50 \$0 50	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50
Utility/PA Pre Unit Eguipment Cost Utility/PA Pre Unit Eguipment Cost Total Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost Equimature That Wask & Enstallato And Period Participaet State Of Installation Cost Pre Unit ExastCoPavet Participaet State Of Installation Cost Pre Unit ExastCoPavet	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	50 50 50 50	50 50 50	50 50 50	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50	50 50 50	50 50 50	50 50 50 50 50	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	50 50 50 50
Utiling/PA with tail durines Cost Utiling/PA with tail during Cost Teal Utiling/PA with tail during Cost East Cost E	\$0	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50
Uniting Net und technologienet Gas Uniting Net und technologienet Gas Teal Uniting Net und technologienet Gas Mendial Uniting Network Edupment Cast Mendial Uniting Network Edupment Cast Restricted Uniting Network Edupment Cast Proceedings Network (Network Network) Proceedings Network (Network) Network Network (Network) Network Network (Network) Network Network (Network) Network Network (Network) Network (Network) N	50 50 50 50	\$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50,00	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50
Uniting/NA via Unit Gupment Cost Uniting/NA via Unit due Cast Tool Unity/NA via Unit due Cast Tool Unity/NA via Unit due Cast Memotional Unity/NA via Unit due Cast Memotional Unity/NA via Unit Schuller David Unity of the PARTCPART Participant David If Units/Information Cost Cast Participant David Information Cost Cast Participant David Information Cost Cast Participant David Information Cost Cast Participant David Information Cost	\$0	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50
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Uning/Na rive faciparent Cate Section 2014 Annual Cate Cate Cate Cate Cate Section 2014 Annual Cate Cate Cate Cate Section 2014 Annual Cate Cate Cate Cate Section 2014 Annual Cate	50 50 50 544,815 544,815 544,815 544,815 544,815	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 550 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 51,591,18 538,549 530 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 50 512,448.30 50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
uting/h Ar tool Exponent Cale Surging Ar Net Star Cale Cale Cale Port Not Network Star Cale Cale Cale Cale Port Not Network Star Cale Cale Cale Port Not Network Star Not Not Network Star Not Not Network Star Not Not Network	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 550 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 51,591,18 538,549 530 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 50 512,448.30 50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Uning/Na rive faciparent Cate Section 2014 Annual Cate Cate Cate Cate Cate Section 2014 Annual Cate Cate Cate Cate Section 2014 Annual Cate Cate Cate Cate Section 2014 Annual Cate	50 50 50 544,815 544,815 544,815 544,815 544,815	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 5500 550 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 51,591,18 538,549 530 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 512,448.30 50 512,448.30 50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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	- User Input																		
PROJECT NAME: DEMAND RESOUNCE DROCRAM NAME:	Ameren DR Potential Residential DI C Centra																		
		al AL																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu)	YES YES																		
Load Shifting Program? (Select from drop down menu) Number of Control Units Per Partcipant	NO 1																		
If Existing Program - Total Number of Partcipants Age of Existing Program - Years	21	018 Year End																	
Ham		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)	Calculate Engine Customers on the	854,618	755,585	666,187	577,811	485,650	390,106	2025	198,180	101,888	5,378	5,385	5,391	5,396	5,402	5,409	5,414	5,420	5,426
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.48%	1.35%	2.44%	3.55%	4.66%	5.71%	6.70%	7.67%	8.63%	9.58%	10.49%	11.37%	12.22%	13.05%	13.87%	14.62%	15.36%	16.08%
Participant Incentive (5/participant-Yr.)	\$27																		
Program Participation Rate (From Market Adoption Curve Tab)		2.2%	9.3%	21.7%	28.8%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Red	fuction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	1.06																		
LOAD REDUCTION																			1.682
Number of Program Participants Base Sector CP Demand (kW)		18,545 3,068,548	70,269 2,689,293	144,563 2,344,827	166,583 2,010,752	150,552 1,670,552	120,933 1,327,126	91,218 990,477	61,436 660,185	31,585 335,874	1,667 17,544	1,669 17,391	1,671 17,239	1,673 17,089	1,675 16,944	1,677 16,808	1,678 16,678	1,680 16,553	1,682 16,429
Base Partcipant CP Demand (kW)		66,587	250,104	508,827	579,700	517,871	411,409	307,048	204,657	104,121	5,439	5,391	5,344	5,298	5,253	5,210	5,170	5,131	5,093
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction@ Gen (kW)		19,545 20,730	73,410 77,864	149,350 158,411	170,153 180,476	152,005 161,227	120,756 128,083	90,124 95,592	60,071 63,715	30,561 32,416	1,596 1,693	1,582 1,678	1,569 1,664	1,555 1,649	1,542 1,635	1,529	1,518 1,610	1,506 1,598	1,495 1,586
BENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$131,248,470	\$1,835,758	\$11,376,541	\$27,298,674	\$31,804,330	\$29,017,219	\$23,477,606	\$17,907,801	\$12,180,577	\$6,322,893	\$338,168	\$342,154	\$345,304	\$349,336	\$353,468	\$359,169	\$364,028	\$368,893	\$373,720
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	18545	51724	74293	22020	0	0	0	0	0	0	18547	51726	74295	22022	2	2	2	2
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR I Utility/PA Per Unit Equipment Cost	hA	\$70	\$71	\$73	\$74	\$76	\$77	\$79	580	\$82	\$84	585	587	\$89	591	592	\$94	\$96	\$98
Utility/PA Per Unit Labor Cost		\$200	\$204	\$208	\$212	\$216	\$221	\$225	\$230	\$234	\$239	\$244	\$249	\$254	\$259	\$264	\$269	\$275	\$280
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$71,886,129 \$76,055,524	\$270 \$5,007,205 \$673,887	\$275 \$14,244,848 \$2,591,008	\$281 \$20,869,556 \$5,399,705	\$287 \$6,309,390 \$6,248,845	\$292 \$0 \$6,248,845	\$298 \$0 \$6,248,845	\$304 \$0 \$6.248.845	\$310 \$0 \$6,248,845	\$316 \$0 \$6,248,845	\$323 \$0 \$6,248,845	\$329 \$6,104,461 \$6,396,518	\$336 \$17,365,006 \$6,816,439	\$342 \$25,440,413 \$7,431,601	\$349 \$7,691,752 \$7,617,644	\$356 \$764 \$7,617,747	\$363 \$648 \$7,617,834	\$371 \$680 \$7,617,926	\$378 \$694 \$7,618,019
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT			11,010,000		040.000.0	0.010 10(0.10	1010 000	1012 1010 10	1010 1010 10		44,4 (4)4 (4)	***	00,000,000	.,		.,	**/***/***		
Participant Share of Installation Cost Per Unit - Equipment		\$0	\$0	50	50	\$0	50	50	50	\$0	50	\$0	\$0	50	\$0	S0	50	\$0	\$0
Partcipant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	50	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00
Non-Equipment Participant Incentives (\$/participant-Yr.)		\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27	\$27
Total Non-Equipment Program Incentive Costs	\$19,131,713	\$506,840.46	\$1,920,463.13	\$3,950,896.47	\$4,552,711.10	\$4,114,574.79	\$3,305,091.84	\$2,492,996.04	\$1,679,042.62	\$863,227.54	\$45,563.31	\$45,621.91	\$45,672.05	\$45,715.23	\$45,765.37	\$45,823.97	\$45,872.72	\$45,922.85	\$45,972.99
Program Development Consulting		\$80,000 \$64,763	\$66.058	\$67,379	\$68.727	\$70,102	\$71,504	\$72,934	\$74,392	\$75,880	\$77,398	\$78.946	\$80,525	\$82,135	\$83,778	\$85,453	\$87,162	\$88,906	\$90,684
Marketing		\$927,260	\$2,637,935	\$3,864,733	\$1,168,405	\$0	\$0	\$0	\$0	\$0	\$0	\$131	\$114	\$100	\$119	\$141	\$120	\$126	\$128
Evaluation Fixed Program Costs	\$9,481,378	\$50,000 \$1,122,023	\$51,000 \$2,754,993	\$52,020 \$3,984,132	\$53,060 \$1,290,193	\$54,122 \$124,223	\$55,204 \$126,708	\$56,308 \$129,242	\$57,434 \$131,827	\$58,583 \$134,463	\$59,755 \$137,152	\$60,950 \$140,026	\$62,169 \$142,807	\$63,412 \$145,647	\$64,680 \$148,577	\$65,974 \$151,569	\$67,293 \$154,576	\$68,639 \$157,671	\$70,012 \$160,824
Central Controller Software Costs		\$5,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$6,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
Central Controller Hardware Cost Central Controller Costs	\$106,370	\$25,000 \$30,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$25,000 \$31,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$100,605,590 \$104,774,985	\$6,666,069 \$2,332,751	\$18,925,404 \$7,271,564	\$28,809,787 \$13,339,936	\$12,157,600 \$12,097,055	\$4,244,210 \$10,493,055	\$3,437,320 \$9,686,165	\$2,627,869 \$8,876,714	\$1,816,613 \$8,065,458	\$1,003,549 \$7,252,394	\$188,691 \$6,437,536	\$6,321,204 \$6,613,261	\$17,559,702 \$7,011,136	\$25,638,117 \$7,629,305	\$7,892,562 \$7,818,454	\$204,754 \$7,821,737	\$207,826 \$7,825,012	\$211,138 \$7,828,383	\$214,492 \$7,831,818
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$81,473,877 \$85,643,272	\$6,159,229 \$1,825,910	\$17,004,941 \$5,351,101	\$24,858,890 \$9,389,039	\$7,604,889 \$7,544,344	\$129,635 \$6,378,480	\$132,228 \$6,381,073	\$134,873 \$6,383,718	\$137,570 \$6,386,415	\$140,321 \$6,389,167	\$143,128 \$6,391,973	\$6,275,582 \$6,567,639	\$17,514,030 \$6,965,464	\$25,592,402 \$7,583,590	\$7,846,797 \$7,772,689	\$158,930 \$7,775,913	\$161,953 \$7,779,140	\$165,215 \$7,782,461	\$168,519 \$7,785,845
UTILITY COST TEST																			
Total Benefits	\$131.248.470												-						
Total Costs UCT Benefit Cost Ratio	\$100,605,590																		
TOTAL RESOURCE COST TEST																			
fotal Benefits	\$131,248,470																		
Total Costs TRC Benefit Cost Ratio	\$81,473,877 1.61																		

	- User Input																		
DROUGHT NAME-	User Input																		
DEMAND RESPONSE PROGRAM NAME:	Residential DLC Electric	Water Heaters																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu)	YES YES YES																		
Number of Control Units Per Partcipant If Existing Program - Total Number of Partcipants Age of Existing Program - Years	1 0 20	18 Year End																	
Age of Existing Program - Years	0	Year End	2 2020	3 2021	4 2022	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Eligible Customers (From the Eligible Customers Tab)	Calculate Engine Customers on the	401,269	301,350	2021	122,070	2023	2024	2025	2026	0	2028	2029	2030	2031	2032	2033	2034	0	2036
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.48%	1.35%	2.44%	3.55%	4.66%	5.71%	6.70%	7.67%	8.63%	9.58%	10.49%	11.37%	12.22%	13.06%	13.87%	14.62%	15.36%	16.08%
Participant Incentive (\$/participant-Yr.)	\$8																		
Program Participation Rate (From Market Adoption Curve Tab)		2.5%	10.8%	25.2%	33.5%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	uction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	0.40																		
LOAD REDUCTION Number of Program Participants Base Sector CP Demand (kW)		10,112 1,440,776	32,546 1,072,571	53,213	40,869 424,797	10,516 100,478													
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		1,440,776 36,308 4,045	1,072,571 115,838 13,018	743,250 187,299 21,285	424,797 142,222 16,348	100,478 36,172 4,206													
Concident Peak Demand Reduction (kW) Concident Peak Demand Reduction@ Gen (kW) BENETTS	NPV	4,045 4,290	13,018 13,808	21,285 22,577	16,348 17,339	4,205 4,461													
Avoided Generation Demand Firm Load Reduction?	YE	s																	
Coincident Peak Demand Reduction@ Gen (kW) Coincident Peak Demand Reduction@ Gen (kW) - Including Reserve Margin		4,290 5,021	13,808 16,161	22,577 26,424	17,339 20,294	4,461 5,222	0	0	0	0	0	0	0	0	0	0	0	0	0
Avoided Generation Cost (S/kW-Yr.) (Nominal S) Annual Avoided Generation Capacity Benefit	\$7,376,145	\$52.36 \$262,912	\$100.98 \$1,631,898	\$122.65 \$3,240,848	\$125.10 \$2,538,823	\$127.60 \$666,310	\$130.16 \$0	\$132.76 \$0	\$135.41 \$0	\$138.12 \$0	\$140.88 \$0	\$143.70 \$0	\$146.58 \$0	\$149.51 <b>\$0</b>	\$152.50 \$0	\$155.55 \$0	\$158.66 <b>\$0</b>	\$161.83 \$0	\$165.07 \$0
Avoided Energy Savings Coincident Peak Demand Reduction® Gen (kW)		4,290	13.808	22.577	17.339	4.461	0	0	0	0	e	0	n	0	0	0	0	0	0
Hours of Control Annual Energy Saved (kWh)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost to Serve Energy During Control (S/MWh) (Nominal S) Annual Avoided Energy Benefit	50	\$35.46 \$0	\$37.51 \$0	\$41.97 \$0	\$48.44 \$0	\$52.26 \$0	\$49.85 \$0	\$55.46 \$0	\$57.69 \$0	\$59.62 \$0	\$70.33 <b>50</b>	\$73.50 \$0	\$70.12 \$0	\$72.96 \$0	\$75.65 \$0	\$89.00 \$0	\$94.68 \$0	\$99.52 \$0	\$103.60 <b>\$0</b>
Generation Energy Shift Coincident Peak Demand Reduction@ Gen (kW)		4,290	13,808	22,577	17,339	4,461													
Hours of Control Annual Energy Shifted @ Gen		4,290 80 343,215	13,808 80 1.104,652	22,577 80 1.806.139	17,339 80 1.387.155	4,401 80 356.918	80	80	80	80	80 0	80	80	80 0	80	80	80	80	80
Cost to Serve Energy During Control (S/MWh) (Nominal S)		\$35.46	\$37.51	\$41.97	\$48.44	\$52.26	\$49.85	\$55.46	\$57.69	\$59.62	\$70.33	\$73.50	\$70.12	\$72.96	\$75.65	\$89.00	\$94.68	\$99.52	\$103.60
Cost to Serve Energy During Recovery (S/MWh) (Nominal S) Energy Cost Savings per MWh		\$32.54 \$2.92	\$35.61 \$1.90	\$35.85 \$6.13	\$36.43 \$12.02	\$39.11 \$13.15	\$45.48 \$4.37	\$51.23 \$4.23	\$53.92 \$3.77	\$56.63 \$2.99	\$52.60 \$17.72	\$54.93 \$18.57	\$64.00 \$6.12	\$67.11 \$5.85	\$71.79 \$3.85	\$66.36 \$22.64	\$70.76 \$23.92	\$74.34 \$25.18	\$77.70 \$25.90
Annual Generation Energy Shift Benefit Participant Benefit per Customer (S/KW-Yr.)	\$30,695	\$1,002 \$8.00	\$2,100	\$11,064 \$8.00	\$16,670	\$4,695 \$8.00	\$0 \$8.00	\$0 \$8.00	<b>50</b> 58.00	<b>50</b> 58.00	<b>50</b> \$8.00	<b>50</b> \$8.00	50 58.00	\$0 \$8.00	\$0 \$8.00	\$0 \$8.00	<b>50</b> 58.00	<b>50</b> 58.00	\$0 \$8.00
Total Participant Benefits	\$445,701	\$34,322	\$110,465	\$180,614	\$138,715	\$35,692	50	\$0	\$0	\$0	50	\$0	50	50	\$0	\$0	50	\$0	50
Avoided Transmission & Distribution Demand Annual Achievable kW Savings		4,290	13,808	22,577	17,339	4,461													
Avoided Transmission & Distribution (S/kW-Yr.) (Nominal S) Annual Avoided T&D Benefit	\$1,416,682	\$24.43 \$104,830	\$24.92 \$344,147	\$25.42 \$573,945	\$25.93 \$449,618	\$26.45 \$118,002	\$26.98 \$0	\$27.52 \$0	\$28.07 \$0	\$28.63 \$0	\$29.20 <b>50</b>	\$29.79 \$0	\$30.38 <b>50</b>	\$30.99 <b>50</b>	\$31.61 \$0	\$32.24 \$0	\$32.89 \$0	\$33.54 \$0	\$34.21 \$0
TOTAL UTILITY AVDIDED COSTS (BENEFITS)	\$8,793,829	\$368,744	\$1,976,045	\$3,814,792	\$2,988,441	\$784,311	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
COSTS Newly installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA	NPV	10112	22434	20668	0	0	0	0	0	0	0	10112	22434	20668	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$70 \$200	\$71 \$204	\$73 \$208	\$74 \$212	\$76 \$216	\$77 \$221	\$79 \$225	\$80 \$230	\$82 \$234	\$84 \$239	\$85 \$244	\$87 \$249	\$89 \$254	\$91 \$259	\$92 \$264	\$94 \$269	\$96 \$275	\$98 \$280
Toral Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$23,298,643	\$270 \$2,730,233	\$275 \$6,178,280	\$281 \$5,805,685	\$287 \$0	\$292 \$0	\$298 \$0	\$304 \$0	\$310 \$0	\$316 \$0	\$323 \$0	\$329 \$3,328,138	\$336 \$7,531,288	\$342 \$7,077,097	\$349	\$356	\$363 \$0	\$371 \$0	\$378
Amortized Utilitity/PA Installed Equipment Cost	\$24,649,965	\$367,444	\$1,198,938	\$1,980,288	\$1,980,288	\$1,980,288	\$1,980,288	\$1,980,288	\$1,980,288	\$1,980,288	\$1,980,288	\$2,060,756	\$2,242,849	\$2,413,960	\$2,413,960	\$2,413,960	\$2,413,960	\$2,413,960	\$0 \$2,413,960
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment Partrianed Ghare Installation Cost Per Unit - Labor		50	50	\$0 80	\$0 80	50	\$0 80	50 50	\$0 \$0	\$0 \$0	\$0 60	50	\$0 80	\$0 80	50	50	50 50	\$0 \$0	\$0 \$0
Partopant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost Total Participant Installed Equipment Costs	< <u>.</u>	50 50 50,00	\$0 \$0 \$0,00	50 50 5000	50 50 50,00	50 50 50	50 50 50,00	50 50 50,00	50 50 50,00	50 50 50,00	50 50 50,00	\$0 \$0 \$0,00	50 50 50	50 50 50,00	50 50 50,00	50 50 50,00	50 50 50,00	50 50 50,00	\$0 \$0 \$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost	~		\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	50	50	50	\$0	\$0
Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 58	\$0.00 58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 58	\$0.00 58	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (5/participant-Yr.) Total Non-Equipment Program Incentive Costs	\$1,050,516	\$8 \$80,895.78	\$8 \$260,366.50	\$8 \$425,707.03	\$8 \$326,952.33	\$8 \$84,125.58	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	58 \$0.00	58 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00
Implementation Admin		\$80,000 \$64,763	\$66,058	\$67,379	\$68,727	\$70,102	\$71,504	\$72,934	\$74,392	\$75,880	\$77,398	\$78,946	\$80,525	\$82,135	\$83,778	\$85,453	\$87,162	\$88,906	\$90,684
Marketing Evaluation		\$673,963 \$50,000	\$1,525,120 \$51,000	\$1,433,144 \$52,020	\$0 \$53,060	\$0 \$54,122	\$0 \$55,204	\$0 \$56,308	\$0 \$57,434	\$0 \$58,583	\$0 \$59,755	\$0 \$60,950	\$0 \$62,169	\$0 \$63,412	\$0 \$64,680	\$0 \$65,974	\$0 \$67,293	\$0 \$68,639	\$0 \$70,012
Fixed Program Costs Central Controller Software Costs	\$5,016,926	\$868,726 \$5,000	\$1,642,178 \$5,100	\$1,552,543 \$5,202	\$121,787 \$5,306	\$124,223 \$5,412	\$126,708 \$5,520	\$129,242 \$5,631	\$131,827 \$5,743	\$134,463 \$5,858	\$137,152 \$5,975	\$139,895 \$6,095	\$142,693 \$6,217	\$145,547 \$6,341	\$148,458 \$6,468	\$151,427 \$6,597	\$154,456 \$6,729	\$157,545 \$6,864	\$160,696 \$7,001
Central Controller Software Costs Central Controller Hardware Cost Central Controller Costs	\$106,370	\$5,000 \$25,000 \$30,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631 \$5,631	\$5,743	\$5,858	\$5,975	\$6,095 \$25,000 \$31,095	\$6,217 \$6,217	\$6,341 \$6,341	\$6,468 \$6,468	\$6,597 \$6,597	\$6,729	\$6,864 \$6,864	\$7,001
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$29,472,456 \$30,823,777	\$3,709,854 \$1,347,066	\$8,085,924 \$3,106,583	\$7,789,137 \$3,963,740	\$454,046 \$2,434,333	\$213,761 \$2,194,049	\$132,228 \$2,112,516	\$134,873 \$2,115,160	\$137,570 \$2,117,858	\$140,321 \$2,120,609	\$143,128 \$2,123,416	\$3,499,129 \$2,231,746	\$7,680,199 \$2,391,759	\$7,228,985 \$2,565,848	\$154,926 \$2,568,886	\$158,025 \$2,571,984	\$161,185 \$2,575,145	\$164,409 \$2,578,369	\$167,697 \$2,581,657
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$28,421,939 \$29,773,261	\$3,628,959 \$1,266,170	\$7,825,558 \$2,846,216	\$7,363,430 \$3,538,033	\$127,093 \$2,107,381	\$129,635 \$2,109,923	\$132,228 \$2,112,516	\$134,873 \$2,115,160	\$137,570 \$2,117,858	\$140,321 \$2,120,609	\$143,128 \$2,123,416	\$3,499,129 \$2,231,746	\$7,680,199 \$2,391,759	\$7,228,985 \$2,565,848	\$154,926 \$2,568,886	\$158,025 \$2,571,984	\$161,185 \$2,575,145	\$164,409 \$2,578,369	\$167,697 \$2,581,657
UTILITY COST TEST																			
Total Benefits Total Costs	\$8,793,829 \$29,472,456																		
UCT Benefit Cost Ratio	0.30																		
TOTAL RESOURCE COST TEST	\$8,793,829																		
Total Benefits Total Costs TRC Benefit Cost Ratio	\$8,793,829 \$28,421,939 0.31																		

PROJECT NAME:	- User Input Ameren DR Potential																		
DEMAND RESPONSE PROGRAM NAME:	Residential DLC Pool Pr	umps																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu)	YES YES																		
Load Shifting Program? (Select from drop down menu) Number of Control Units Per Partrinant	YES																		
If Existing Program - Total Number of Partcipants Age of Existing Program - Years	0 20	Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	0.48%	1.35%	2.44%	3.55%	4.66%	5.71%	6.70%	7.67%	8.63%	9.58%	10.49%	11.37%	12.22%	13.06%	13.87%	14.62%	15.36%	16.08%
Participant Incentive (\$/participant-Yr.)	\$8																		
Program Participation Rate (From Market Adoption Curve Tab)		2.7%	11.4%	26.6%	35.3%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%	38.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Red	luction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	1.36																		
LOAD REDUCTION Number of Program Participants Base Sector CP Demand (kW)																			
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction (kW)			1		1	1	1		1	1	1	1	1	1	1	1	1		
BENEFITS Avoided Generation Demand Firm Load Reduction?	NPV																		
Coincident Peak Demand Reduction® Gen (kW)	YE	ES 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coincident Peak Demand Reduction@ Gen (kW) - Including Reserve Margin Avoided Generation Cost (S/kW-Yr.) (Nominal S) Annual Avoided Generation Capacity Benefit	50	0 \$52.36 \$0	0 \$100.98 \$0	0 \$122.65 \$0	0 \$125.10 \$0	0 \$127.60	0 \$130.16 \$0	0 \$132.76	0 \$135.41 \$0	0 \$138.12 \$0	0 \$140.88	0 \$143.70 \$0	0 \$146.58 \$0	0 \$149.51 \$0	0 \$152.50	0 \$155.55	0 \$158.66 \$0	0 \$161.83 \$0	0 \$165.07 \$0
Annual Avoided Generation Capacity Benefit	50	96	b¢	υ¢	90	20	20	30	20	90	be	μ¢	b¢	be:	50	50	be	20	be
Coincident Peak Demand Reduction@ Gen (kW) Hours of Control		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Energy Saved (kWh) Cost to Serve Energy During Control (S/MWh) (Nominal S) Annual Avoided Energy Benefit		0 \$35.46	0 \$37.51	0 \$41.97	0 \$48.44	0 \$52.26	0 \$49.85	0 \$55.46	0 \$57.69	0 \$59.62	0 \$70.33	0 \$73.50	0 \$70.12	0 \$72.96	0 \$75.65	0 \$89.00	0 \$94.68	0 \$99.52	0 \$103.60
	\$0	\$0	50	50	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	50	\$0	\$0	\$0	50	50
Generation Energy Shift Coincident Peak Demand Reduction@ Gen (kW)		0	0	0 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hours of Control Annual Energy Shifted @ Gen		80 0	80 0	0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0	80 0
Cost to Serve Energy During Control (S/MWh) (Nominal S) Cost to Serve Energy During Recovery (S/MWh) (Nominal S)		\$35.46 \$32.54	\$37.51 \$35.61	\$41.97 \$35.85	\$48.44 \$36.43	\$52.26 \$39.11	\$49.85 \$45.48	\$55.46 \$51.23	\$57.69 \$53.92	\$59.62 \$56.63	\$70.33 \$52.60	\$73.50 \$54.93	\$70.12 \$64.00	\$72.96 \$67.11	\$75.65 \$71.79	\$89.00 \$66.36	\$94.68 \$70.76	\$99.52 \$74.34	\$103.60 \$77.70
Energy Cost Savings per MWh Annual Generation Energy Shift Benefit	50	\$2.92 \$0	\$1.90 \$0	\$6.13 50	\$12.02 \$0	\$13.15 \$0	\$4.37 \$0	\$4.23 \$0	\$3.77 \$0	\$2.99 \$0	\$17.72	\$18.57 \$0	\$6.12 50	\$5.85 50	\$3.85	\$22.64 \$0	\$23.92 50	\$25.18 \$0	\$25.90 \$0
Participant Benefit per Customer (S/KW-Yr.)		\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00
Total Participant Benefits	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	50	50	\$0	\$0	\$0	\$0	\$0
Avoided Transmission & Distribution Demand Annual Achievable kW Savings Avoided Transmission & Distribution (S/kW-Yr.) (Nominal S)		\$24.43		\$25.42	\$25.93	\$26.45	\$26.98	\$27.52	\$28.07	\$28.63	\$29.20	\$29.79	\$30.38	\$30.99					
Avoided Transmission & Distribution (S/kW-Yr.) (Nominal 5) Annual Avoided T&D Benefit	50	\$24.43	\$24.92 \$0	\$25.42 \$0	\$25.93	\$25.45	\$26.98	\$27.52 \$0	\$28.07	\$28.63 \$0	\$29.20	\$29.79	\$30.38 \$0	\$30.99 \$0	\$31.61 \$0	\$32.24 \$0	\$32.89 \$0	\$33.54 \$0	\$34.21 \$0
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$0	50	\$0	50	50	\$0	\$0	\$0	50	\$0	50	50	\$0	\$0	\$0	50	\$0	\$0	50
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost	·	\$70 \$200	\$71 \$204	\$73 \$208	\$74 \$212	\$76 \$216	\$77 \$221	\$79 \$225	\$80 \$230	\$82 \$234	\$84 \$239	\$85 \$244	587 5249	\$89 \$254	\$91 \$259	\$92 \$264	\$94 \$269	\$96 \$275	\$98
Total Utility/PA installed Equipment Cost Per Unit Variable Utility/PA installed Equipment Cost	£0	\$270	\$275	\$281 60	\$287	\$292 \$292	\$298 \$0	\$304	\$230 \$310	\$316	\$323 \$323	\$329	\$336	\$342	\$349 \$349	\$356	\$363	\$371	\$280 \$378
Amortized Utility/PA Installed Equipment Cost	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	50	50 50	50 50	50 \$0	50 \$0	\$0 \$0	\$0 \$0	50 \$0	50	50	50 50	\$0 \$0	\$0 \$0
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment		\$0	\$0	\$0	50	50	\$0	50	\$0	\$0	\$0	\$0	\$0	50	50	50	50	50	\$0
Participant Share Installation Cost Part Unit - Edupinent Total Participant Share of Per Unit Installed Equipment Cost		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	50 50	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0.00	50 \$0.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00
Non-Equipment Participant Incentives (\$/participant-Yr.) Total Non-Equipment Program Incentive Costs	50	58 50.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	58 50.00	58 50.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	\$8 \$0.00	58 50.00	58 50.00	58 50.00	58 50.00
Implementation		\$80,000																	
Admin Marketing		\$64,763 \$0	\$66,058 \$0	\$67,379 \$0 \$52,020	\$68,727 \$0	\$70,102 \$0	\$71,504 \$0	\$72,934 \$0	\$74,392 \$0 \$57,434	\$75,880 \$0 \$58,583	\$77,398 \$0	\$78,946 \$0	\$80,525 \$0	\$82,135 \$0 \$63,412	\$83,778 \$0 \$64,680	\$85,453 \$0 \$65,974	\$87,162 \$0	\$88,906 \$0	\$90,684 \$0 \$70,012
Evaluation Fixed Program Costs	\$1,621,131	\$50,000 \$194,763	\$51,000 \$117,058	\$52,020 \$119,399	\$53,060 \$121,787	\$54,122 \$124,223	\$55,204 \$126,708	\$56,308 \$129,242	\$57,434 \$131,827	\$58,583 \$134,463	\$59,755 \$137,152	\$60,950 \$139,895	\$62,169 \$142,693	\$63,412 \$145,547	\$64,680 \$148,458	\$65,974 \$151,427	\$67,293 \$154,456	\$68,639 \$157,545	\$70,012 \$160,696
Central Controller Software Costs		\$5,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$6,095 \$25,000	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
Central Controller Hardware Cost Central Controller Costs	\$106,370	\$30,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,631	\$5,743	\$5,858	\$5,975	\$31,095	\$6,217	\$6,341	\$6,468	\$6,597	\$6,729	\$6,864	\$7,001
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$1,727,501 \$1,727,501	\$224,763 \$224,763	\$122,158 \$122,158	\$124,601 \$124,601	\$127,093 \$127,093	\$129,635 \$129,635	\$132,228 \$132,228	\$134,873 \$134,873	\$137,570 \$137,570	\$140,321 \$140,321	\$143,128 \$143,128	\$170,990 \$170,990	\$148,910 \$148,910	\$151,888 \$151,888	\$154,926 \$154,926	\$158,025 \$158,025	\$161,185 \$161,185	\$164,409 \$164,409	\$167,697 \$167,697
TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$1,727,501 \$1,727,501	\$224,763 \$224,763	\$122,158 \$122,158	\$124,601 \$124,601	\$127,093 \$127,093	\$129,635 \$129,635	\$132,228 \$132,228	\$134,873 \$134,873	\$137,570 \$137,570	\$140,321 \$140,321	\$143,128 \$143,128	\$170,990 \$170,990	\$148,910 \$148,910	\$151,888 \$151,888	\$154,926 \$154,926	\$158,025 \$158,025	\$161,185 \$161,185	\$164,409 \$164,409	\$167,697 \$167,697
UTILITY COST TEST																			
Total Benefits Total Costs	\$0 \$1,727,501																		
UCT Benefit Cost Ratio	-																		
TOTAL RESOURCE COST TEST																			
Total Benefits Total Costs TRC Benefit Cost Ratio	\$0 \$1,727,501																		
the second fit both filler																			

	= User Input																		
PROJECT NAME:	Ameren DR Potential																		
DEMAND RESPONSE PROGRAM NAME:	Res - Plug In Electric Ve	shicle																	
Frem Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Number of Costrol Units New Participant If Selecting Program. Total Number of Participants Age of Existing Program. Total Number of Desting Selection Selection Selection Selection Selection Selection Selection Selection Selection Selection Selection Selection Selection Se	NO YES YES 1 20	118 Year End									10	11	12	13	14	15	16	17	10
Item	Calculate Eligible	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		3,014	3,630	4,337	5,562	7,303	9,283	11,502	13,961	16,300	19,613	23,335	27,065	30,098	31,994	33,889	35,784	37,680	39,575
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	4%																		
Participant Incentive (\$/kW-Yr.)	\$0 Calculate or Enter																		
Program Participation Rate (From Market Adoption Curve Tab)		99.6%	98.2%	95.8%	94.4%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%
Annual Number of Control Hours	1497																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	uction (kW)																	
Program Savings Factor (Percent of CP Load) Per Participant CP Reduction (kW)	0.47																		
Ver Participant CP Reduction (kW)	0.47																		
Number of Program Participants Base Sector CP Demand (WV)		3,002 10,852	3,566 13,043	4,154 15,551	5,251 19,902	6,865 26,078	8,726 33,080	10,812 40,902	13,123 49,542	15,322 57,722	18,436 69,308	21,935 82,288	25,441 95,240	28,292 105,690	30,074 112,111	31,856 118,500	33,637 124,861	35,419 131,197	37,201 137,502
base sector CF Demand (KW) Base Participant CP Demand (KW) Coincident Peak Demand Reduction (KW)		10,832 10,807 1,411	13,043 12,811 1,676	15,551 14,894 1,952	19,902 18,791 2,468	24,513 3,226	31,095 4,101	38,447 5,082	46,570 6,168	57,722 54,258 7,201	65,150 8,665	77,351 10,309	89,526 11,957	99,349 13,297	105,384 14,135	116,500 111,390 14,972	124,801 117,369 15,809	123,325 16,647	137,502 129,251 17,484
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction @ Gen (kW) BENETITS	NPV	1,411	1,575	2,071	2,468	3,422	4,350	5,390	6,542	7,638	8,665 9,191	10,935	12,683	13,297 14,104	14,135	15,881	15,809	17,657	18,545
Avoided Generation Demand	N	D																	
Coincident Peak Demand Reduction @ Gen (kW) Coincident Peak Demand Reduction @ Gen (kW) - Including Reserve Margin		1,496 1,496	1,777 1,777	2,071 2,071	2,618 2,618	3,422 3,422	4,350 4,350	5,390 5,390	6,542 6,542	7,638 7,638	9,191 9,191	10,935 10,935	12,683 12,683	14,104 14,104	14,993 14,993	15,881 15,881	16,769 16,769	17,657 17,657	18,545 18,545
Avoided Generation Cost (S/kW-Yr.) (Nominal S) Annual Avoided Generation Capacity Benefit	\$12,747,473	\$52.36 \$78,346	\$100.98 \$179,486	\$122.65 \$253,970	\$125.10 \$327,499	\$127.60 \$436,688	\$130.16 \$566,185	\$132.76 \$715,555	\$135.41 \$885,904	\$138.12 \$1,055,013	\$140.88 \$1,294,835	\$143.70 \$1,571,370	\$146.58 \$1,858,997	\$149.51 \$2,108,670	\$152.50 \$2,286,334	\$155.55 \$2,470,188	\$158.66 \$2,660,482	\$161.83 \$2,857,475	\$165.07 \$3,061,207
Avoided Energy Savings		1,496	1,777	2,071	2,618	3,422	4,350	5,390	6,542	7,638	9,191	10,935	12,683	14,104	14,993	15,881	16,769	17,657	18,545
Coincident Peak Demand Reduction@ Gen (kW) Hours of Control Annual Energe Saved (kWh)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost to Serve Energy During Control (S/MWh) (Nominal S) Annual Avoided Energy Benefit	\$0	\$35.46 \$0	\$37.51 \$0	\$41.97 \$0	\$48.44 \$0	\$52.26 \$0	\$49.85 <b>\$0</b>	\$55.46 \$0	\$57.69 \$0	\$59.62 \$0	\$70.33 \$0	\$73.50 \$0	\$70.12 \$0	\$72.96 \$0	\$75.65 \$0	\$89.00 <b>50</b>	\$94.68 \$0	\$99.52 \$0	\$103.60 \$0
Generation Energy Shift																			
Coincident Peak Demand Reduction@ Gen (kW) Hours of Control Annual Energy Shifted @ Gen		1,496 1,497 2,239,214	1,777 1,497 2,660,012	2,071 1,497 3,098,822	2,618 1,497 3,917,629	3,422 1,497 5,121,346	4,350 1,497 6,509,853	5,390 1,497 8,065,963	6,542 1,497 9,790,376	7,638 1,497 11,430,638	9,191 1,497 13,753,932	10,935 1,497 16,364,045	12,683 1,497 18,979,768	14,104 1,497 21,106,708	14,993 1,497 22,436,308	15,881 1,497 23,765,208	16,769 1,497 25,094,107	17,657 1,497 26,423,707	18,545 1,497 27,752,607
Cost to Serve Energy During Control (\$/MWh) (Nominal \$)		\$35.46	\$37.51	\$41.97	\$48.44	\$52.26	\$49.85	\$55.46	\$57.69	\$59.62	\$70.33	\$73.50	\$70.12	\$72.96	\$75.65	\$89.00	\$94.68	\$99.52	\$103.60
Cost to Serve Energy During Recovery (\$/MWh) (Nominal \$) Energy Cost Savings per MWh	\$1.748.423	\$32.54 \$2.92	\$35.61 \$1.90 \$5,057	\$35.85 \$6.13	\$36.43 \$12.02	\$39.11 \$13.15	\$45.48 \$4.37	\$51.23 \$4.23	\$53.92 \$3.77	\$56.63 \$2.99	\$52.60 \$17.72	\$54.93 \$18.57	\$64.00 \$6.12	\$67.11 \$5.85	\$71.79 \$3.85	\$66.36 \$22.64	\$70.76 \$23.92	\$74.34 \$25.18	\$77.70 \$25.90
Annual Generation Energy Shift Benefit Participant Benefit per Customer (\$/KW-Yr.)	\$1,748,423	\$6,540 \$0.00	\$5,057	\$18,983	\$47,080	\$67,371 \$0.00	\$28,449 \$0.00	\$34,146 \$0.00	\$36,949 \$0.00	\$34,177 \$0.00	\$243,749 \$0.00	\$303,877 \$0.00	\$116,183 \$0.00	\$123,563 \$0.00	\$86,474 \$0.00	\$538,047	\$600,205 \$0.00	\$665,411 \$0.00	\$718,831 \$0.00
Total Participant Benefits	50	50	50	50	\$0	50	\$0	\$0	50	\$0	50	50	50	50	\$0	50	50	50	50
Avoided Transmission & Distribution Demand Annual Achievable kW Savings		1,496	1,777	2,071	2,618	3,422	4,350	5,390	6,542	7,638	9,191	10,935	12,683	14,104	14,993	15,881	16,769	17,657	18,545
Avoided Transmission & Distribution (\$/kW-Yr.) (Nominal \$) Annual Avoided T&D Benefit	\$2,669,257	\$24.43 \$36,562	\$24.92 \$44,301	\$25.42 \$52,642	\$25.93 \$67,882	\$26.45 \$90,514	\$26.98 \$117,356	\$27.52 \$148,316	\$28.07 \$183,625	\$28.63 \$218,677	\$29.20 \$268,386	\$29.79 \$325,705	\$30.38 \$385,323	\$30.99 \$437,073	\$31.61 \$473,898	\$32.24 \$512,007	\$32.89 \$551,450	\$33.54 \$592,281	\$34.21 \$634,510
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$15,423,270	\$121,448	\$223,787	\$306,612	\$395,381	\$527,202	\$683.540	\$863,872	\$1,069,529	\$1,273,690	\$1,563,221	\$1,897,074	\$2,244,320	\$2,545,743	\$2,760,232	\$2,982,195	\$3,211,932	\$3,449,757	\$3,695,717
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	3002	564	588	1098	1614	1861	2086	2311	2199	3114	3499	3506	2851	1782	1781	1781	1782	1781
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$252	\$257 \$49	\$262	\$267 \$51	\$273 \$52	\$278 \$53	\$284	\$289	\$295	\$301 \$57	\$307	\$313 560	\$320 \$61	\$326 \$62	\$333	\$339	\$346	\$353 \$67
Utility/VA Wr Unit Equipment Cost Utility/VA Per Unit Labor Cost Total Utility/VA Installed Equipment Cost Per Unit Variable Utility/VA Installed Equipment Cost	58.138.528	\$300 \$900.455	\$306	\$312 \$183,587	\$318 \$349,420	\$325 \$523.952	\$331 \$616.475	\$338 \$704,705	\$345 \$796,542	\$351 \$772.824	\$359 \$1.116.534	\$366 \$1,279,461	\$373 \$1,307,856	\$380 \$1.084.735	\$388 \$691.655	\$396 \$705.116	\$404 \$719,219	\$412 \$733,990	\$420 \$748,275
Amortized Utilitity/PA Installed Equipment Cost	\$8,180,886	\$77,236	\$92,041	\$107,788	\$137,759	\$182,701	\$235,578	\$296,024	\$364,347	\$430,635	\$526,405	\$636,150	\$748,331	\$841,373	\$900,700	\$961,181	\$1,022,871	\$1,085,829	\$1,150,011
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment		\$0	\$0	\$0	50	50	\$0	50	\$0	\$0	\$0	50	50	50	\$0	50	50	\$0	\$0
Partcipant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	\$0	\$0 \$0	50 50	50 50	50 50	50 50	50 \$0	50 50	50 50	\$0 \$0	50 50	50 50	50 50	50 50	50 \$0	50 50	\$0 \$0	50 50	50 50
Non-Equipment Participant Incentives (S/NW-Yr.) Total Non-Equipment Program Incentive Costs	50	50 50.00	50 50.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	50 50.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00
		\$365,039	\$104,634	\$108,401	\$146,595	\$186,750	\$208,712	\$229,749	\$251,616	\$247,840	\$325,723	\$363,474	\$371,366	\$323,412	\$237,732	\$242,404	\$247,252	\$252,283	\$257,241
Implementation Admin Marketing																			
Evaluation Fixed Program Costs	\$2,780,822	\$365,039	\$104,634	\$108,401	\$146,595	\$186,750	\$208,712	\$229,749	\$251,616	\$247,840	\$325,723	\$363,474	\$371,366	\$323,412	\$237,732	\$242,404	\$247,252	\$252,283	\$257,241
Central Controller Software Costs Central Controller Hardware Cost		\$0 80	50	50	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Central Controller Hardware Cost Central Controller Costs	\$0	50 \$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$10,919,350	\$1,265,494	\$277,233	\$291,988	\$496,016	\$710,702	\$825,187	\$934,454	\$1,048,158	\$1,020,664	\$1,442,258	\$1,642,935	\$1,679,222	\$1,408,147	\$929,387	\$947,520	\$966,470	\$986,273	\$1,005,516
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization)	\$10,961,707 \$10,919,350	\$442,275 \$1,265,494	\$196,674 \$277,233	\$216,188 \$291,988	\$284,354 \$496,016	\$369,450	\$444,290 \$825,187	\$525,773 \$934,454	\$615,963 \$1,048,158	\$678,475 \$1.020,664	\$852,129 \$1.442,258	\$999,624 \$1.642,935	\$1,119,697 \$1,679,222	\$1,164,786 \$1,408,147	\$1,138,431 \$929,387	\$1,203,584 \$947,520	\$1,270,123 \$966,470	\$1,338,111 \$986,273	\$1,407,252 \$1,005,516
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$10,961,707	\$442,275	\$196,674	\$216,188	\$284,354	\$369,450	\$444,290	\$525,773	\$615,963	\$678,475	\$852,129	\$999,624	\$1,119,697	\$1,164,786	\$1,138,431	\$1,203,584	\$1,270,123	\$1,338,111	\$1,407,252
UTILITY COST TEST																			
Total Benefits Total Costs UCT Brenefit Cost Ratio	\$15,423,270 \$10,919,350																		
UCT Benefit Cost Ratio	1.41																		
	\$15 423 22/																		
fotal Benefits fotal Costs fRC Benefit Cost Ratio	\$15,423,270 \$10,919,350 1.41																		

	- User Input		
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PROJECT NAME:	Ameren DR Potential	
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DEMAND RESPONSE PROGRAM NAME:	Residential Critical Peal	k Pricing with Enal	
   |  |   |  
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  |  |  |   |  
   |   |   |   
   |  |
New Program? (Select from drop-down menu) Load Shifting Program? (Select from drop down menu) Number of Control Units Per Partcipant If Esisting Program - Total Number of Partcipants	NO YES YES 1.095 20		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| Age of Existing Program - Years  |  | Year End   | 2   | 3   
   | 4  | 5   | 6  
   | 7  | 8  | 9  | 10   
  | 11   | 12   | 13  | 14   
   | 15  | 16  | 17  
   | 18   |
| Eligible Customers (From the Eligible Customers Tab)   | Calculate Engible<br>Customers on the  | 54,687   | 109,587   | 2021 164,665  
   | 2022 219,901   | 2023  | 330,795  
   | 2025<br>386,366  | 442,063  | 2027<br>497,885  | 553,833  
  | 554,460  | 555,087  | 555,714   | 2032<br>556,341  
   | 2033 556,968  | 557,596   | 558,223   
   | 2036 558,850   |
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| Coincident Peak Load Efficiency Gain (Year 20)   | 0%   | 1.28%  | 2.40%   | 3.17%   
   | 4.15%  | 5.11%   | 5.89%  
   | 6.71%  | 7.48%  | 8.21%  | 8.80%  
  | 9.30%  | 9.79%  | 10.25%  | 10.68%   
   | 11.14%  | 11.55%  | 11.93%  
   | 12.30%   |
Participant Incentive (\$/kW-Yr.)	\$0		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| Program Participation Rate (From Market Adoption Curve Tab)  |  | 99.4%  | 97.3%   | 93.7%   
   | 91.6%  | 91.0%   | 91.0%  
   | 91.0%  | 91.0%  | 91.0%  | 91.0%  
  | 91.0%  | 91.0%  | 91.0%   | 91.0%  
   | 91.0%   | 91.0%   | 91.0%   
   | 91.0%  |
Annual Number of Control Hours	60		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
Program Savings Factor (Percent of CP Load)	23.4%		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
Per Participant CP Reduction (kW)			
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| LOAD REDUCTION<br>Number of Program Participants   |  | 54,347<br>194,777  | 106,669<br>385,904  | 154,229<br>575,262  
   | 201,476<br>760,444   | 250,520<br>942,471  | 301,023<br>1,123,149   
   | 351,593  | 402,277<br>1,475,579   | 453,075<br>1,648,819   | 503,988<br>1,822,446   
  | 504,559<br>1,814,364   | 505,129<br>1,806,570   | 505,700<br>1,799,391  | 506,270<br>1,792,819   
   | 506,841<br>1,785,738  | 507,412<br>1,779,433  | 507,983<br>1,773,753  
   | 508,554<br>1,768,281   |
| Base Sector CP Demand (kW)<br>Broo Bastrianet CD Demand (kW)   |  | 193.567  | 375.629   | 538.815   
   | 696.729  | 857.649   | 1 022 066  
   | 1,300,511 1.183.465  | 1 342 776  | 1.500.425  | 1 658 426  
  | 1.651.071  | 1.643.979  | 1.637.446   | 1.631.465  
   | 1.625.022   | 1 619 284   | 1.614.116   
   | 1.609.136  |
| Coincident Peak Demand Reduction (kW)<br>Coincident Peak Demand Reduction (kW)<br>Coincident Peak Demand Reduction@ Gen (kW)   | 8100 A   | 45,372<br>48,125   | 88,048<br>93,389  | 126,296<br>133,958  
   | 163,313<br>173,221   | 201,033<br>213,230  | 239,572<br>254,107   
   | 277,404<br>294,234   | 314,747<br>333,843   | 351,700<br>373,037   | 388,735<br>412,320   
  | 387,011<br>410,491   | 385,349<br>408,728   | 383,817<br>407,104  | 382,415<br>405,617   
   | 380,905<br>404,015  | 379,560<br>402,588  | 378,349<br>401,303  
   | 377,181<br>400,065   |
BENEFITS Avoided Generation Demand Firm Load Reduction?	NPV		
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| Firm Load Heduction?<br>Coincident Peak Demand Reduction@ Gen (kW)<br>Coincident Peak Demand Reduction@ Gen (kW) - Including Reserve Margin  | N  | 48,125<br>48,125   | 93,389<br>93,389  | 133,958<br>133,958  
   | 173,221<br>173,221   | 213,230<br>213,230  | 254,107<br>254,107   
   | 294,234<br>294,234   | 333,843<br>333,843   | 373,037<br>373,037   | 412,320<br>412,320   
  | 410,491<br>410,491   | 408,728<br>408,728   | 407,104<br>407,104  | 405,617<br>405,617   
   | 404,015<br>404,015  | 402,588   | 401,303<br>401,303  
   | 400,065<br>400,065   |
| Avoided Generation Cost (\$/tW-Yr.) (Nominal \$)<br>Annual Avoided Generation Capacity Benefit   | \$451,266,443  | \$52.36<br>\$2,519,819   | \$100.98<br>\$9,430,197   | \$122.65<br>\$16,429,803  
   | \$125.10<br>\$21,670,303   | \$127.60<br>\$27,208,898  | \$130.16<br>\$33,073,523   
   | \$132.76<br>\$39,062,245   | \$135.41<br>\$45,206,995   | \$138.12<br>\$51,524,805   | \$140.88<br>\$58,089,589   
  | \$143.70<br>\$58,988,613   | \$146.58<br>\$59,909,927   | \$149.51<br>\$60,865,310  | \$152.50<br>\$61,855,837   
   | \$155.55<br>\$62,843,791  | \$158.66<br>\$63,874,310  | \$161.83<br>\$64,943,865  
   | \$165.07<br>\$66,038,362   |
| Avoided Energy Savings<br>Coincident Peak Demand Reduction@ Gen (kW)   |  | 48,125   | 93,389  | 133,958   
   | 173,221  | 213,230   | 254,107  
   | 294,234  | 333,843  | 373,037  | 412,320  
  | 410,491  | 408,728  | 407,104   | 405,617  
   | 404,015   | 402,588   | 401,303   
   | 400,065  |
| Hours of Control<br>Annual Engine Council (1986)   |  | 0  | 0   | 0   
   | 0  | 0   | 0  
   | 0  | 0  | 0  | 0  
  | 0  | 0  | 0   | 0  
   | 0   | 0   | 0   
   | 0  |
| Cost to Serve Energy During Control (\$/MWh) (Nominal \$)<br>Annual Avoided Energy Benefit   | 50   | \$35.46<br>\$0   | \$37.51<br>\$0  | \$41.97<br>\$0  
   | \$48.44<br>\$0   | \$52.26<br>\$0  | \$49.85<br>\$0   
   | \$55.46<br>\$0   | \$57.69<br><b>\$0</b>  | \$59.62<br>\$0   | \$70.33<br>\$0   
  | \$73.50<br>\$0   | \$70.12<br>\$0   | \$72.96<br>\$0  | \$75.65<br>\$0   
   | \$89.00<br>\$0  | \$94.68<br>\$0  | \$99.52<br>\$0  
   | \$103.60<br>\$0  |
Generation Energy Shift Coincident Peak Demand Reduction@ Gen (kW)			
   |  |   |  
   |  |  |  |  
  |  |  |   |  
   |   |   |   
   |  |
| Coincident Peak Demand Reduction@ Gen (kW)<br>Hours of Control<br>Annual Energy Shifted @ Gen  |  | 48,125<br>60<br>2,887,492  | 93,389<br>60<br>5,603,364   | 133,958<br>60<br>8,037,492  
   | 173,221<br>60<br>10,393,290  | 213,230<br>60<br>12,793,779   | 254,107<br>60<br>15,246,430  
   | 294,234<br>60<br>17,654,065  | 333,843<br>60<br>20,030,556  | 373,037<br>60<br>22,382,240  | 412,320<br>60<br>24,739,181  
  | 410,491<br>60<br>24,629,468  | 408,728<br>60<br>24,523,670  | 407,104<br>60<br>24,426,224   | 405,617<br>60<br>24,336,998  
   | 404,015<br>60<br>24,240,888   | 402,588<br>60<br>24,155,287   | 401,303<br>60<br>24,078,196   
   | 400,065<br>60<br>24,003,907  |
| Cost to Serve Energy During Control (\$/MWh) (Nominal \$)  |  | \$35.46<br>\$32.54   | \$37.51   | \$41.97   
   | \$48.44  | \$52.26   | \$49.85<br>\$45.48   
   | \$55.46  | \$57.69  | \$59.62  | \$70.33  
  | \$73.50  | \$70.12  | \$72.96<br>\$67.11  | \$75.65  
   | \$89.00<br>\$66.36  | \$94.68   | \$99.52<br>\$74.34  
   | \$103.60<br>\$77.70  |
| Cost to Serve Energy During Recovery (S/MWh) (Nominal S)<br>Energy Cost Savings per MWh  |  |  | \$35.61   | \$35.85   
   | \$36.43  | \$39.11   |  
   | \$51.23  | \$53.92  | \$56.63<br>\$2.99  | \$52.60<br>\$17.72   
  | \$54.93<br>\$18.57   | \$64.00  | 567.11  | \$71.79<br>\$3.85  
   | \$65.35<br>\$22.64  | \$70.76   | \$74.34<br>\$25.18  
   | \$25.90  |
|  | 40,000,000   | \$2.92   | \$1.90  | \$6.13  
   | \$12.02  | \$13.15   | \$4.37   
   | \$4.23   | \$3.77   | \$4.99   | \$17.72  
  | \$18.57  | \$6.12   | 20.00   | 100  
   | 15 10 010   | 4633 364  | 6696.945  
   |  |
| Annual Generation Energy Shift Benefit   | \$2,203,793  | \$8,434  | \$10,653  | \$49,236  
   | \$124,902  | \$168,302   | \$66,630   
   | \$74,736   | \$75,596   | \$66,921   | \$438,431  
  | \$457,364  | \$150,119  | \$142,996   | \$93,800   
   | \$548,816   | \$577,750   | \$606,345   
   | \$621,734  |
| Annual Generation Energy Shift Benefit<br>Participant Benefit per Customer (S/kW-Yr.)<br>Total Participant Benefits  | \$2,203,793<br>\$0   | \$2.92<br>\$8,434<br>\$0.00<br>\$0   | \$1.90<br>\$10,653<br>\$0.00<br>\$0   | \$6.13<br>\$49,236<br>\$0.00<br>\$0   
   | \$12.02<br>\$124,902<br>\$0.00<br>\$0  | \$15.15<br>\$168,302<br>\$0.00<br>\$0   | \$4.37<br>\$66,630<br>\$0.00<br>\$0  
   | \$4.23<br>\$74,736<br>\$0.00<br>\$0  | \$3.77<br>\$75,596<br>\$0.00<br>\$0  | \$2.99<br>\$66,921<br>\$0.00<br>\$0  | \$438,431<br>\$0.00<br>\$0   
  | \$18.57<br>\$457,364<br>\$0.00<br>\$0  | \$6.12<br>\$150,119<br>\$0.00<br>\$0   | \$142,996<br>\$142,996<br>\$0.00<br>\$0   | \$93,800<br>\$0.00<br>\$0  
   | \$548,816<br>\$0.00<br>\$0  | \$577,750<br>\$0.00<br>\$0  | \$606,345<br>\$0.00<br>\$0  
   | \$621,734<br>\$0.00<br>\$0   |
| Participant Benefit per Customer (S/W-Yr.)<br>Total Participant Benefits<br>Auxided Transmission & Distribution Demand<br>Annual Achivebel & Wi Swings   |  | \$8,434<br>\$0.00<br>\$0<br>48,125   | \$10,653<br>\$0.00<br>\$0<br>93,389   | \$49,236<br>\$0.00<br>\$0<br>133,958  
   | \$124,902<br>\$0.00<br>\$0<br>173,221  | \$168,302<br>\$0.00<br>\$0<br>213,230   | \$66,630<br>\$0.00<br>\$0<br>254,107   
   | \$74,736<br>\$0.00<br>\$0<br>294,234   | \$75,596<br>\$0.00<br>\$0<br>333,843   | \$66,921<br>\$0.00<br>\$0<br>373,037   | \$438,431<br>\$0.00<br>\$0<br>412,320  
  | \$457,364<br>\$0.00<br>\$0<br>410,491  | \$150,119<br>\$0.00<br>\$0<br>408,728  | \$142,996<br>\$0.00<br>\$0<br>407,104   | \$93,800<br>\$0.00<br>\$0<br>405,617   
   | \$548,816<br>\$0.00<br>\$0<br>404,015   | \$577,750<br>\$0.00<br>\$0<br>402,588   | \$606,345<br>\$0.00<br>\$0<br>401,303   
   | \$0.00<br><b>\$0</b><br>400,065  |
| Participant Benefit per Customer (S/KW-Yr.)<br>Total Participant Benefits<br>Avoided Transmission & Distribution Demand  |  | \$8,434<br>\$0.00<br>\$0   | \$10,653<br>\$0.00<br>\$0   | \$49,236<br>\$0.00<br>\$0   
   | \$124,902<br>\$0.00<br>\$0   | \$168,302<br>\$0.00<br>\$0  | \$66,630<br>\$0.00<br>\$0  
   | \$74,736<br>\$0.00<br>\$0  | \$75,596<br>\$0.00<br>\$0  | \$66,921<br>\$0.00<br>\$0  | \$438,431<br>\$0.00<br>\$0   
  | \$457,364<br>\$0.00<br>\$0   | \$150,119<br>\$0.00<br>\$0   | \$142,996<br>\$0.00<br>\$0  | \$93,800<br>\$0.00<br>\$0  
   | \$548,816<br>\$0.00<br>\$0  | \$577,750<br>\$0.00<br>\$0  | \$606,345<br>\$0.00<br>\$0  
   | \$0.00<br>\$0  |
| Participant Benefit per Customer (S/KW-9r.)<br>Total Participant Benefits<br>Busided Transmission & Distribution Dermand<br>Annual Archivelable KW Samps<br>Audiold Transmission & Distribution (S/KW-Yr.) (Nominal S)   | 50   | \$8,434<br>\$0.00<br>\$0<br>48,125<br>\$24,43  | \$10,653<br>50.00<br>\$0<br>93,389<br>\$24.92<br>\$2,327,588  | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25.42   
   | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25.93   | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45  | \$66,630<br>\$0.00<br>\$0<br>254,107<br>\$26.98  
   | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27.52  | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$28.07  | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28.63  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$29,20   
  | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$29.79   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38   | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99  | \$93,800<br>\$0.00<br>\$0<br>405,517<br>\$31.61<br>\$12,821,131  
   | \$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32.24  | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32.89  | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33.54  
   | \$0.00<br>\$0<br>400,065<br>\$34.21  |
| Purpling the bundle per Costance (\$140-11.)<br>Text Persigner benefits<br>benefit framewises & Note-believe homes<br>Annual Article and the Standpo<br>Annual Antiber and the Standpo<br>Annual Antiber 16 Disorder<br>(\$140-11.)<br>Texture Antiber 16 Disorder<br>(\$140-11.)  | 50<br>594,542,109  | \$8,434<br>50.00<br>50<br>48,125<br>524.43<br>\$1,175,920  | \$10,653<br>50.00<br>\$0<br>93,389<br>\$24.92<br>\$2,327,588  | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25.42<br>\$3,405,477  
   | \$124,992<br>\$0.00<br>\$0<br>173,221<br>\$25.93<br>\$4,491,699  | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$5,639,708   | \$66,630<br>\$0.00<br>\$0<br>254,107<br>\$26.98<br>\$6,835,294   
   | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27.52<br>\$8,096,603   | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$28.07<br>\$9,370,252   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28,63<br>\$10,679,773  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$29.20<br>\$12,040,484   
  | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$29.79<br>\$12,226,829   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794   | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820  | \$93,800<br>\$0.00<br>\$0<br>405,517<br>\$31.61<br>\$12,821,131  
   | \$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32.24<br>\$13,025,909  | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32.89<br>\$13,239,509  | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33.54<br>\$13,461,200  
   | \$0.00<br>\$0<br>400,065<br>\$34,21<br>\$13,688,061  |
| Purplicity of California (SMI) 1: 1<br>Tandar Marcing March 2: 1<br>March Marcing March 2: 1<br>March 2: 1<br>M  | 50<br>594,542,109<br>5545,816,986  | \$8,434<br>50.00<br>50<br>48,125<br>524.43<br>\$1,175,920  | \$10,653<br>50.00<br>\$0<br>93,389<br>\$24.92<br>\$2,327,588  | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25.42<br>\$3,405,477  
   | \$124,992<br>\$0.00<br>\$0<br>173,221<br>\$25.93<br>\$4,491,699  | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$5,639,708   | \$66,630<br>\$0.00<br>\$0<br>254,107<br>\$26.98<br>\$6,835,294   | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27.52<br>\$8,096,603  
  | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$28.07<br>\$9,370,252   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28,63<br>\$10,679,773  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$29.20<br>\$12,040,484  | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$29.79<br>\$12,226,829   
   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794   | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820  | \$93,800<br>\$0.00<br>\$0<br>405,517<br>\$31.61<br>\$12,821,131  |
\$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32.24<br>\$13,025,909  | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32.89<br>\$13,239,509  | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33.54<br>\$13,461,200  | \$0.00<br>\$0<br>400,065<br>\$34,21<br>\$13,688,061  
   |
| Purcipant Ender per Calamar (50 N 1) Tardar Purcipant Enders<br>Result An Versigne Handler<br>Ansand Antworks Marken<br>Ansand Antworks Marken<br>Ansand Antworks Marken<br>Ansand Antworks Marken<br>Marken Anthone Marken<br>Marken<br>Marken Anthone<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Marken<br>Mar  | 50<br>594,542,109<br>5545,816,986  | \$8,434<br>\$0.00<br>\$0<br>48,125<br>\$24.43<br>\$1,175,920<br>\$3,704,173  | \$10,653<br>\$0.00<br>\$0<br>93,389<br>\$24.92<br>\$2,327,588<br>\$11,757,785   | \$49,236<br>\$0.00<br>\$0<br>133,058<br>\$25,42<br>\$3,405,477<br>\$19,835,280   
  | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25.93<br>\$4,491,699<br>\$26,162,002  | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$36,639,708<br>\$32,848,606  | \$66,680<br>\$0.00<br>\$0<br>254,107<br>\$26,98<br>\$6,855,294<br>\$39,928,817  
  | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27,52<br>\$8,096,603<br>\$47,158,848   | \$73,596<br>\$0.00<br>\$0<br>333,843<br>\$28.07<br>\$9,370,252<br>\$54,577,247   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28,63<br>\$10,679,773<br>\$62,204,578  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$12,040,484<br>\$70,130,073   
   | \$457,364<br>\$0.00<br>\$0<br>410,401<br>\$29.79<br>\$12,226,829<br>\$71,215,442   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794<br>\$72,327,721   | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820<br>\$73,481,130  | 593,800<br>S0.00<br>50<br>405,617<br>\$31.61<br>\$12,821,131<br>\$74,676,968  
  | \$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32.24<br>\$13,025,909<br>\$75,869,700  | \$\$77,750<br>50.00<br>50<br>402,588<br>\$32.80<br>\$13,239,509<br>\$77,113,819   | \$696,345<br>\$0.00<br>\$0<br>401,303<br>\$33.54<br>\$13,461,200<br>\$78,405,065   
  | \$0.00<br>\$0<br>400,065<br>\$34,21<br>\$13,688,061<br>\$79,726,423  |
| Persignation from the sector of the sector o   | 50<br>594,542,109<br>5545,816,986<br>NIPV  | \$8,434<br>\$0.00<br>\$0<br>48,125<br>\$24,43<br>\$1,175,920<br>\$3,704,173<br>\$9510  | \$10,653<br>\$0.00<br>\$0<br>93,389<br>\$24,92<br>\$2,327,588<br>\$11,757,785<br>\$7293   | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25,42<br>\$3,405,477<br>\$19,835,280  
   | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25.93<br>\$4,491,699<br>\$26,162,002<br>\$1735  | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$32,848,606<br>\$32,848,606  | \$66,680<br>\$0.00<br>\$0<br>254,107<br>\$26.98<br>\$6,855,294<br>\$38,928,817<br>\$55301<br>\$275<br>\$276<br>\$5531<br>\$276<br>\$5531<br>\$276<br>\$5531<br>\$276<br>\$5532<br>\$276  | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27,52<br>\$8,036,603<br>\$47,158,848<br>\$47,158,848  
  | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$28.07<br>\$9,370,252<br>\$54,577,247<br>\$55499<br>\$286   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28.63<br>\$10,679,773<br>\$682,204,578   | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$29.20<br>\$12,040,484<br>\$70,130,073  | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$29,79<br>\$12,226,829<br>\$71,215,442<br>60135  
   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794<br>\$72,327,721<br>\$7917<br>\$310  | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820<br>\$73,481,130  | \$93,800<br>\$0.00<br>\$0<br>405,617<br>\$31.61<br>\$12,821,131<br>\$74,676,968<br>\$2260<br>\$322   
   | \$\$48,816<br>\$0.00<br>\$0<br>404,015<br>\$32,24<br>\$13,023,909<br>\$75,869,700   | \$\$77,750<br>\$0.00<br>\$0<br>402,588<br>\$32,89<br>\$13,239,509<br>\$77,113,819<br>\$5927   | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33,54<br>\$13,461,200<br>\$78,405,065<br>\$55998<br>\$342<br>\$343<br>\$342<br>\$343<br>\$383,860,004  | \$0.00<br>\$0<br>400,065<br>\$34.21<br>\$13,688,661<br>\$79,726,423<br>56124<br>\$349<br>\$340<br>\$349<br>\$350<br>\$699<br>\$382,15,022   
  |
| Publicity of Calabaner (SNID 1)<br>Testar Publicity of Calabaner (SNID 1)<br>Testar Publicity of Calabaner (SNID 1)<br>Andread Andread Andread SNID (SNID 1)<br>Andread Andread SNID (SNID 1)<br>Andread Andread SNID (SNID 1)<br>COST<br>Testar United Y and SNID (SNID 1)<br>Cost United Y and SNID (SNID 1)<br>Cost Of Calabaner (SNI   | 50<br>594,542,109<br>5545,816,985<br>NPV   | \$8,434<br>50.00<br>50<br>48,125<br>524,43<br>\$1,175,920<br>\$3,704,173<br>59510<br>\$249<br>\$250<br>\$249<br>\$250  | \$10,653<br>\$0,00<br>\$0<br>93,389<br>\$24,92<br>\$2,327,588<br>\$11,757,785<br>\$11,757,785<br>\$7293<br>\$254<br>\$255<br>\$550  | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25,42<br>\$3,405,477<br>\$19,835,280<br>\$25078<br>\$250<br>\$250<br>\$250<br>\$250   
   | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25,93<br>\$4,491,699<br>\$26,162,002<br>\$1735<br>\$264<br>\$265<br>\$264<br>\$265<br>\$330   | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$5,639,708<br>\$32,848,606<br>\$337,03<br>\$270<br>\$271<br>\$5540   | \$66,680<br>\$0.00<br>\$0<br>254,107<br>\$26,68<br>\$6,855,294<br>\$39,928,817<br>\$39,928,817<br>\$5301<br>\$5301<br>\$275<br>\$276<br>\$551  | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27,52<br>\$8,096,603<br>\$47,158,848<br>\$53374<br>\$280<br>\$282<br>\$552  
  | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$228.07<br>\$9,370,252<br>\$54,577,247<br>\$554,99<br>\$286<br>\$286<br>\$287<br>\$286<br>\$287   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28,63<br>\$10,679,773<br>\$62,204,578<br>\$55524<br>\$292<br>\$293<br>\$292<br>\$293   | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$323.20<br>\$12,040,484<br>\$70,130,073<br>\$577,49<br>\$298<br>\$299<br>\$2998   | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$227,79<br>\$12,226,829<br>\$71,215,442<br>60135<br>\$304<br>\$305<br>\$668  
   | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794<br>\$72,327,721<br>\$72,127,721<br>\$310<br>\$3310<br>\$3310<br>\$3310  | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820<br>\$73,481,130<br>\$73,481,130<br>\$316<br>\$317<br>\$833   | \$93,800<br>\$0.00<br>\$0<br>405,617<br>\$31,61<br>\$12,821,131<br>\$74,676,968<br>\$22360<br>\$322<br>\$123<br>\$546  
   | \$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32,24<br>\$13,025,909<br>\$75,869,700<br>\$4328<br>\$329<br>\$330<br>\$568   | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32,89<br>\$13,239,509<br>\$77,113,819<br>\$77,113,819<br>\$55927<br>\$335<br>\$335<br>\$572  | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33,54<br>\$13,461,200<br>\$78,405,065<br>\$78,405,065<br>\$78,405,065<br>\$342<br>\$342<br>\$342<br>\$342<br>\$342<br>\$342  | \$0.00<br>\$0<br>400,065<br>\$34,21<br>\$13,688,061<br>\$79,726,423<br>56124<br>\$349<br>\$330<br>\$5610  
  |
| Persignal Touristics (2018):1:1<br>Teach Persignal Website<br>Manual Activated Manager<br>Annual Activated Manager<br>Annual Activated Manager<br>Annual Activated Manager<br>Annual Activated Manager<br>Annual Activated Manager<br>Persignal Manager<br>Annual Activated Manager<br>Annual Activated Manager<br>Activated Manager<br>Activated Manager<br>Activated Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manage | 50<br>594,542,109<br>5545,816,986<br>NIPV  | \$8,434<br>50.00<br>50<br>48,125<br>524,43<br>\$1,175,920<br>\$3,704,173<br>59510<br>\$249<br>\$250<br>\$249<br>\$250  | \$10,653<br>\$0,00<br>\$0<br>93,389<br>\$24,92<br>\$2,327,588<br>\$11,757,785<br>\$11,757,785<br>\$7293<br>\$254<br>\$255<br>\$550  | \$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25,42<br>\$3,405,477<br>\$19,835,280<br>\$25078<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250  
   | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25,93<br>\$4,491,699<br>\$26,162,002<br>\$1735<br>\$264<br>\$265<br>\$264<br>\$265<br>\$330   | \$168,302<br>\$0.00<br>\$0<br>213,230<br>\$26.45<br>\$5,639,708<br>\$32,848,606<br>\$337,03<br>\$270<br>\$271<br>\$5540   |
\$66,680<br>\$0.00<br>\$0<br>254,107<br>\$26.98<br>\$6,855,294<br>\$38,928,817<br>\$55301<br>\$275<br>\$276<br>\$5531<br>\$276<br>\$5531<br>\$276<br>\$5531<br>\$276<br>\$5532<br>\$276<br>\$5532<br>\$276<br>\$5532<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$276<br>\$2776<br>\$276<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776<br>\$2776 | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27,52<br>\$8,096,603<br>\$47,158,848<br>\$53374<br>\$280<br>\$282<br>\$552   | \$75,596<br>\$0.00<br>\$0<br>333,843<br>\$228.07<br>\$9,370,252<br>\$54,577,247<br>\$554,99<br>\$286<br>\$286<br>\$287<br>\$286<br>\$287   | \$66,921<br>\$0.00<br>\$0<br>373,037<br>\$28,63<br>\$10,679,773<br>\$62,204,578<br>\$55524<br>\$292<br>\$293<br>\$292<br>\$293  
  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$323.20<br>\$12,040,484<br>\$70,130,073<br>\$577,49<br>\$298<br>\$299<br>\$2998   | \$457,364<br>\$0.00<br>\$0<br>410,491<br>\$227,79<br>\$12,226,829<br>\$71,215,442<br>60135<br>\$304<br>\$305<br>\$668  | \$150,119<br>\$0.00<br>\$0<br>408,728<br>\$30.38<br>\$12,417,794<br>\$72,327,721<br>\$72,127,721<br>\$310<br>\$3310<br>\$3310<br>\$3310  | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$30.99<br>\$12,615,820<br>\$73,481,130<br>\$73,481,130<br>\$316<br>\$317<br>\$833  
  | \$93,800<br>\$0.00<br>\$0<br>405,617<br>\$31,61<br>\$12,821,131<br>\$74,676,968<br>\$22360<br>\$322<br>\$123<br>\$546  | \$548,816<br>\$0.00<br>\$0<br>404,015<br>\$32,24<br>\$13,025,909<br>\$75,869,700<br>\$4328<br>\$329<br>\$330<br>\$568   | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32,89<br>\$13,239,509<br>\$77,113,819<br>\$77,113,819<br>\$55927<br>\$335<br>\$335<br>\$572  
   | \$606,345<br>\$0.00<br>\$0<br>401,303<br>\$33,54<br>\$13,461,200<br>\$78,405,065<br>\$55998<br>\$342<br>\$343<br>\$383,860,004  | \$0.00<br>\$9<br>400,065<br>\$34,21<br>\$11,688,061<br>\$79,726,423<br>\$5124<br>\$340<br>\$360<br>\$609<br>\$382,15,022<br>\$47,957,228   |
| Perspective Theorem (2018) 12<br>Teach Perspective Network<br>Manual Activation (2018) 12<br>Andread Construction (2018) 12<br>Andread Construction (2018) 12<br>Andread Activation (2018) 12<br>Andread Activat   | 50<br>594,542,109<br>5545,816,986<br>NIPV  | \$8,434<br>50.00<br>50<br>48,125<br>524,43<br>\$1,175,920<br>\$3,704,173<br>59510<br>\$249<br>\$250<br>\$249<br>\$250  | \$10,653<br>\$0,000<br>\$0<br>93,889<br>\$24,922<br>\$2,327,588<br>\$11,757,785<br>\$7293<br>\$225<br>\$2255<br>\$225,150,785<br>\$7,921,007  |
\$49,236<br>\$0.00<br>\$0<br>133,958<br>\$25,42<br>\$2,42<br>\$3,405,477<br>\$19,835,280<br>\$2078<br>\$22078<br>\$259<br>\$260<br>\$259<br>\$250<br>\$259<br>\$250<br>\$259<br>\$260<br>\$259<br>\$260<br>\$259<br>\$260<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250<br>\$250 | \$124,902<br>\$0.00<br>\$0<br>173,221<br>\$25,93<br>\$4,491,699<br>\$26,162,002<br>\$1735<br>\$264<br>\$265<br>\$264<br>\$265<br>\$330   | \$158,302<br>\$0,00<br>\$0<br>213,230<br>\$356.45<br>\$5,639,708<br>\$32,848,606<br>\$3703<br>\$270<br>\$270<br>\$270<br>\$270<br>\$270<br>\$270<br>\$270<br>\$270  | 566,680<br>50,00<br>50<br>254,107<br>556,98<br>56,855,294<br>539,928,837<br>55301<br>55301<br>55303<br>5531<br>5531<br>5531<br>5531   
  | \$74,736<br>\$0.00<br>\$0<br>294,234<br>\$27,52<br>\$8,096,603<br>\$47,158,848<br>\$53374<br>\$280<br>\$282<br>\$552   | \$75,596<br>\$0.00<br>\$0<br>33,843<br>\$22,07<br>\$3,370,252<br>\$54,577,247<br>\$54,99<br>\$286<br>\$287<br>\$54,99<br>\$286<br>\$287<br>\$531,813,860<br>\$33,8,13,860<br>\$33,8,13,860   | 568,921<br>5000<br>50<br>373,037<br>522,63<br>\$10,679,773<br>562,204,578<br>55624<br>5262<br>52624<br>5262<br>52624<br>5262<br>536,097,169  | \$438,431<br>\$0.00<br>\$0<br>412,320<br>\$12,040,484<br>\$70,130,073<br>\$12,040,484<br>\$70,130,073<br>\$2298<br>\$2299<br>\$2298<br>\$2295<br>\$33,246,212<br>\$40,572,559   
   | \$467,364<br>\$0.00<br>\$0<br>410,491<br>\$22,79<br>\$12,226,829<br>\$71,215,442<br>60135<br>\$304<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305 | \$150,119<br>\$0,000<br>\$0<br>403,728<br>\$30,38<br>\$12,417,794<br>\$72,327,721<br>\$7917<br>\$310<br>\$3310<br>\$331,934,471<br>\$42,409,551  | \$142,996<br>\$0.00<br>\$0<br>407,104<br>\$33.99<br>\$12,615,820<br>\$73,481,130<br>\$2703<br>\$316<br>\$317<br>\$533<br>\$33,353,310<br>\$41,259,626   | \$93,800<br>\$0,000<br>\$0<br>405,617<br>\$31,61<br>\$12,821,131<br>\$74,676,968<br>\$2360<br>\$322<br>\$323<br>\$44,121,347  
  | \$548,816<br>\$0.00<br>\$0<br>400,05<br>\$3224<br>\$13,025,909<br>\$75,869,700<br>\$4328<br>\$129<br>\$330<br>\$5658<br>\$33,770,697<br>\$45,031,633  | \$577,750<br>\$0.00<br>\$0<br>402,588<br>\$32,89<br>\$13,239,509<br>\$77,113,819<br>\$77,113,819<br>\$55927<br>\$335<br>\$335<br>\$572  |
\$606,345<br>5,000<br>\$0<br>401,303<br>\$33,54<br>\$13,461,200<br>\$78,465,065<br>\$33,54<br>\$13,461,200<br>\$78,465,065<br>\$34,35<br>\$34,2<br>\$34,3<br>\$34,2<br>\$34,3<br>\$34,2<br>\$34,3<br>\$34,5,565<br>\$34,2<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,2<br>\$34,5,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$34,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565<br>\$35,565 | 50.00<br>59<br>400,055<br>539,226<br>539,226,423<br>539,226,423<br>550,244<br>550,244<br>550,244<br>550,250<br>549,957,226<br>549,957,226<br>549,957,226<br>549,957,226<br>549,957,226<br>549,957,226<br>549,957,226<br>549,557,226<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557<br>549,557,557,557,557<br>549,557,557,557,557<br>549,557,557,557,557<br>549,557,557,557,557,557<br>549,557,557,557,557,557<br>549,557,557,557,557,557<br>549,557,557,557,557,557<br>549,557,557,557,557,557,557,557,557,557,55   |
| Perspective Service Se   | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,454<br>50,00<br>50,00<br>52,443<br>51,175,520<br>534,794,733<br>535,794,733<br>535,794,733<br>535,794,733<br>535,794,537<br>535,995,537<br>530,995,537<br>530,995,537<br>530,995,537  | \$10,653<br>50,00<br>90,300<br>534.92<br>52,327,588<br>511,757,785<br>57,253<br>5555<br>5505<br>55,021,007<br>50<br>50  |
\$49,216<br>5000<br>133,058<br>325.42<br>53,405,477<br>519,455,280<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>5   | \$124,402<br>\$0.00<br>173,221<br>\$25.93<br>\$4,491,409<br>\$25,142,002<br>\$1775<br>\$355,446,407<br>\$355,246,407<br>\$35,246,407<br>\$35,246,407<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30   | \$158,302<br>\$0,00<br>\$9<br>233,86<br>\$55,639,708<br>\$32,848,606<br>\$32,848,606<br>\$32,848,606<br>\$32,848,606<br>\$32,848,606<br>\$32,800,500<br>\$34,0150,728   | 546,650<br>5000<br>59<br>254,107<br>536,853,294<br>539,928,837<br>55301<br>539,928,837<br>55301<br>539,467,320<br>5330,467,320<br>5330,467,330<br>5330,457,333  
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\$74,756<br>\$0,00<br>294,234<br>\$27,253<br>\$407,158,848<br>\$47,158,848<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$537,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,459,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640<br>\$557,450,640,550,550,550,550,550,550,550,550,550,5                            | \$75,595<br>50,00<br>30,84<br>528,07<br>59,770,252<br>554,577,247<br>554,99<br>5285<br>537<br>537,50,00<br>531,720,300<br>50<br>50   | 566,921<br>5000<br>171,017<br>328,63<br>510,679,773<br>562,204,578<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244<br>555,244 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\$438,431<br>\$000<br>\$12,330<br>\$29,20<br>\$12,469,464<br>\$575,180,073<br>\$575,180,073<br>\$575,180,073<br>\$575,180,073<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505  | \$67,364<br>50,00<br>\$0<br>410,491<br>\$20,79<br>\$12,226,829<br>\$77,215,442<br>607135<br>\$304<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305<br>\$305  | \$159,119<br>\$0,00<br>\$0<br>408,728<br>\$10,338<br>\$12,417,794<br>\$77,327,721<br>\$77,327,721<br>\$77,327,721<br>\$310<br>\$32,034,471<br>\$42,409,551<br>\$42,409,551<br>\$0<br>\$0   | \$142,996<br>\$0,00<br>\$0<br>407,104<br>\$30,99<br>\$12,415,420<br>\$73,481,130<br>\$73,481,130<br>\$33,333,100<br>\$41,299,626<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0   
  | \$93,800<br>\$0,00<br>\$9<br>405,617<br>\$31,65<br>\$12,821,131<br>\$74,676,568<br>\$122<br>\$223<br>\$546<br>\$332,758,883<br>\$44,221,847<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0  | 544,816<br>50,00<br>59<br>404,015<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,24<br>542,242,24<br>542,242,242,242,242,242,242,242,242,242,   | 5577,750<br>50,00<br>50<br>402,583<br>512,229,509<br>577,113,819<br>559,277<br>5335<br>5357<br>5357<br>5357<br>5357<br>5357<br>5357<br>5357<br>5357<br>5357<br>545,986,157<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  |
\$606,445<br>\$0,00<br>\$0<br>401,003<br>\$33,54<br>\$13,461,200<br>\$78,465,065<br>\$342<br>\$543<br>\$543<br>\$543<br>\$543<br>\$543<br>\$543<br>\$545,<br>\$60,044<br>\$545,<br>\$60,044<br>\$545,<br>\$60,044<br>\$545,<br>\$60,044<br>\$545,<br>\$60,044<br>\$545,<br>\$60,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$546,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,045<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,055<br>\$556,0556,0556,0556,0556,0556,0556,0556,  | 50.00<br>99<br>400.055<br>533.13<br>533.688,961<br>599,726.423<br>55114<br>55114<br>55114<br>55115<br>5507<br>5507<br>5507<br>5507<br>5507<br>5507<br>550  |
| Persignal for the set of the set  | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,454<br>500<br>90<br>44,125<br>53,443<br>51,175,520<br>53,796,273<br>550,500<br>520,665,509<br>51,396,509<br>50,300<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  | \$10,633<br>\$10,633<br>\$0,00<br>\$0,00<br>\$1,300<br>\$34,92<br>\$2,327,588<br>\$11,757,785<br>\$22,160,785<br>\$22,160,785<br>\$22,160,785<br>\$20,000,785<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,000<br>\$0,0000<br>\$0,0000<br>\$0,0000<br>\$0,0000<br>\$0,000<br>\$0,0000<br>\$0,0000<br>\$0,  |
549,256<br>59,00<br>50,00<br>525,42<br>53,405,477<br>539,435,240<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>530,535<br>5  | \$124,902<br>\$00<br>\$00<br>\$253.93<br>\$4,491,699<br>\$54,491,699<br>\$54,491,699<br>\$54,491,699<br>\$54,491,699<br>\$54,512,84<br>\$57,755<br>\$354<br>\$57,755<br>\$354<br>\$57,755<br>\$354<br>\$57,556,102,002<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50   | 5168,302<br>50,03<br>50<br>213,230<br>536,65<br>536,659,708<br>532,848,606<br>532,848,606<br>532,848,606<br>532,848,606<br>532,000,765<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5   | 546,639<br>540,639<br>254,107<br>536,638<br>56,835,294<br>559,528,637<br>555,001<br>557,55<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557<br>537,557,557,557,557,557,557,557,557,557,  
  | 574,786<br>5000<br>294,234<br>527,52<br>54,046,663<br>55374<br>55374<br>55374<br>55374<br>532,2380<br>532,2380<br>532,2380<br>532,2380<br>532,2380<br>532,239<br>532,239<br>532,239<br>530,000   | 375,598<br>500<br>313,843<br>528,07<br>59,370,252<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,247<br>554,577,577,577,577<br>554,577,577,577,577,577,577,577,577,577,   | 566,921<br>5000<br>5000<br>571,037<br>528,63<br>510,679,793<br>542,204,579<br>555,534<br>532,543,020<br>532,535,020<br>530,097,020<br>500<br>500<br>500<br>500<br>500<br>500<br>500  | 9438,433<br>5000<br>590<br>112,249,048<br>5750,130,073<br>5750,130,073<br>532,249,048<br>537540<br>5332,249,048<br>5332,249,048<br>5332,049,048<br>5332,049,057<br>5332,050<br>530,000  
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  | 3159,119<br>5000<br>900<br>100,728<br>53038<br>512,417,789<br>572,327,721<br>5320<br>532,329,721<br>5320<br>532,329,721<br>5320<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,329,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,721<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7221<br>532,529,7   | 5142,996<br>5000<br>500<br>500<br>500<br>500<br>512,415,800<br>512,415,800<br>512,415,800<br>512,415,800<br>512,415,800<br>512,415,800<br>512,510,510<br>512,510,500<br>500<br>500<br>500<br>500<br>500<br>500<br>500   |
991,800<br>991,800<br>990,000<br>990<br>405,617<br>533,61<br>512,821,833<br>512,821,833<br>524,551,568<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>533,76,888<br>534,552<br>534,552<br>534,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>535,552<br>55   | 544,816<br>5000<br>590<br>532,24<br>533,24<br>533,25,609<br>535,250<br>535,250<br>545,051,205<br>545,051,205<br>545,051,205<br>545,051,205<br>550,051,205<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500  | 5577,780<br>500<br>202,588<br>532,89<br>532,89<br>532,89<br>532,89<br>532,89<br>532,59<br>559,59<br>559,59<br>559,59<br>559,59<br>559,59<br>559,59<br>559,59<br>559,59<br>559,59<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  | 3606,145<br>5000<br>99<br>401,303<br>533,54<br>533,54<br>531,461,200<br>578,469,065<br>538,360,064<br>534,200,064<br>534,200,064<br>534,200,064<br>530,500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50  
   | 50.00<br>30<br>400.055<br>333,343<br>533,488,961<br>379,726,423<br>55114<br>55114<br>55125<br>569<br>569<br>569<br>569<br>569<br>569<br>569<br>560<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   |
| Perspective Service Se   | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,454<br>50,00<br>50,00<br>52,443<br>51,175,520<br>534,794,733<br>535,794,733<br>535,794,733<br>535,794,733<br>535,794,537<br>535,995,537<br>530,995,537<br>530,995,537<br>530,995,537  | \$10,633<br>\$10,633<br>\$0,00<br>91,340<br>\$14,952<br>\$2,127,588<br>\$11,757,785<br>\$17,787,785<br>\$17,787,785<br>\$17,787,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,785<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,985<br>\$17,97,995<br>\$17,97,995<br>\$17,97,995<br>\$17,97,995<br>\$17,97,995<br>\$17,97,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,995<br>\$17,9   |
\$49,216<br>5000<br>133,058<br>325.42<br>53,405,477<br>519,455,280<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>5   | \$124,402<br>\$0.00<br>173,221<br>\$25.93<br>\$4,491,409<br>\$26,142,002<br>\$1775<br>\$3265<br>\$327,36(0)<br>\$330<br>\$327,36(0)<br>\$327,36(0)<br>\$35,246,477<br>\$35,246,477<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30<br>\$30   | 5168.302<br>500<br>213.220<br>535.45<br>535,639,708<br>532,848,666<br>533,006,969<br>533,006,969<br>533,006,969<br>539,150,738<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  |
548,689<br>560,00<br>50<br>254,107<br>536,685<br>56,855,224<br>539,928,827<br>55300<br>553,251,133<br>503,251,133<br>503,251,133<br>504,673,00<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500<br>500,500000000   | 574,786<br>500<br>204,334<br>537,53<br>546,066,603<br>547,158,848<br>555374<br>5282<br>5562<br>555374<br>5282<br>5562<br>5562<br>5574<br>511,127,543<br>527,439,040<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  | 575,595<br>500,500<br>531,841<br>532,07<br>59,370,252<br>554,577,247<br>55409<br>5325<br>537<br>537<br>537<br>537<br>537<br>537<br>537<br>53   |
566,921<br>5000<br>171,017<br>522,63<br>510,679,773<br>562,204,578<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55524<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55525<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>55555<br>555555   | \$438,431<br>\$000<br>\$12,330<br>\$29,20<br>\$12,469,464<br>\$575,180,073<br>\$575,180,073<br>\$575,180,073<br>\$575,180,073<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505<br>\$505 | \$67,364<br>\$0,00<br>\$10,491<br>\$20,79<br>\$12,226,423<br>\$77,215,442<br>\$304<br>\$305<br>\$44,497,425<br>\$44,497,425<br>\$60<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$5   |
3159,119<br>\$0,00<br>\$0,00<br>\$0,00<br>\$0,00<br>\$0,00<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$12,417,784<br>\$13,417,184<br>\$13,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184<br>\$14,417,184 \$14,417,184<br>\$14,417,184 \$14,417,184<br>\$14,417,184   | 5142,996<br>500<br>900<br>907,104<br>5100,99<br>512,415,820<br>572,445,130<br>573,445,130<br>5117<br>5135<br>5135<br>5135<br>5135<br>5135<br>5135<br>5135<br>513<br>513   | 993,800<br>993,800<br>99<br>405,617<br>533,61<br>512,823,133<br>514,823,133<br>514,823,133<br>514,823,133<br>514,823,133<br>514,123,347<br>544,123,347<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   |
3548,816<br>50,00<br>59<br>404,015<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>532,24<br>545,011,025,509<br>545,011,025<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012<br>545,012,012,012,012,012,012,012,012,012,012 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5577,780<br>500<br>502<br>512,280<br>512,283<br>512,283,589<br>513,213,589<br>577,113,819<br>55927<br>5335<br>55927<br>5335<br>55927<br>5335<br>55927<br>5335<br>545,586,733<br>545,586,733<br>545,586,733<br>545,586,733<br>545,586,733<br>545,586,733<br>545,586,735<br>545,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,746<br>547,747<br>547,746<br>547,747<br>547,747<br>547,746<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747<br>547,747   | 5006,145<br>5000<br>401,303<br>533,54<br>513,461,200<br>578,465,665<br>55998<br>543,300,045<br>543,300,045<br>543,300,045<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5  | 50.00<br>99<br>400.055<br>533.13<br>533.688,961<br>599,726.423<br>55114<br>55114<br>55114<br>55125<br>559<br>559<br>559<br>559<br>559<br>559<br>559<br>559<br>559<br>5   
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| <text></text>  | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,444<br>50,00<br>48,135<br>53,1378,407<br>53,1378,407<br>530,1378,407<br>530,000<br>53,000,537<br>500<br>500,000<br>500,000  | 310,433<br>510,433<br>91,380<br>524.92<br>52,327,385<br>511,787,785<br>5253<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5   |
349,216<br>500<br>111,958<br>525,42<br>534,405,477<br>519,435,280<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>52078<br>5  | \$134,902<br>\$0.00<br>\$0.00<br>\$171,221<br>\$2533<br>\$4,493,099<br>\$24,493,099<br>\$24,493,099<br>\$24,493,099<br>\$34,493,099<br>\$25,142,002<br>\$35,246,497<br>\$35,246,497<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50<br>\$50  | 5168,102<br>50,03<br>50,03<br>51,23,20<br>522,85<br>554,267,56<br>512,848,656<br>532,848,656<br>532,848,656<br>532,848,656<br>532,848,656<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>532,540<br>530,578<br>530<br>530<br>530<br>530<br>530<br>530<br>530<br>530  | 544,659<br>544,659<br>254,107<br>5254,567<br>54555,254<br>54555,254<br>539,522,837<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>55305<br>550<br>550   
  | 574,786<br>50,00<br>294,234<br>527,52<br>54,0064<br>547,162,848<br>551,74<br>551,74<br>551,74<br>552,749<br>560<br>551,74<br>572,439,040<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   | 375,586<br>50,00<br>53,33,841<br>538,807<br>538,807<br>538,807<br>554,977,847<br>554,99<br>554,977,847<br>554,99<br>538,577,847<br>554,99<br>538,577,847<br>554,99<br>538,577,847<br>554,99<br>538,577,847<br>554,99<br>538,577,847<br>554,99<br>537,577<br>554,99<br>537,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>557,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,577<br>547,5777<br>547,5777<br>547,5777<br>547,5777<br>547,57777<br>547,577777<br>547,57777777777  | 546,921<br>500<br>500<br>571,037<br>528,63<br>540,279,773<br>542,204,578<br>542,204,578<br>55524<br>55524<br>55524<br>55524<br>555254<br>555254<br>555254<br>555254<br>555254<br>555254<br>555254<br>555254<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>555256<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>55526<br>555   | \$438,431<br>\$ 0 00<br>\$ 112,330<br>\$ 132,469,444<br>\$ 376,180,073<br>\$ 53749<br>\$ 53749<br>\$ 53749<br>\$ 53749<br>\$ 5376<br>\$ 536              |
\$67,364<br>\$0.00<br>\$0.00<br>\$10,061<br>\$227,70<br>\$12,226,829<br>\$71,225,422<br>\$71,225,42<br>\$12,226,829<br>\$71,225,42<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829<br>\$12,226,829\$12,226,829<br>\$12,226,              | 3159,19<br>50,00<br>408,728<br>530,38<br>512,417,740<br>512,417,740<br>512,417,740<br>512,417,740<br>512,417,740<br>512,417,740<br>512,417,740<br>513,934,420,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,851<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850<br>543,450,850 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   | 948,849<br>940,015<br>9532,24<br>953,005<br>953,005,900<br>953,005,900<br>954228<br>954228<br>954228<br>955,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>956,010,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,037<br>957,000,000,000,000,000,000,000,000,000,0   | 577,789<br>5000<br>900<br>902,588<br>513,289<br>913,289<br>913,289<br>957,113,853<br>957,113,853<br>957,113,853<br>957,113,853<br>957,113,853<br>957,950,733<br>955,966,137<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90   | 3606,345<br>5000<br>99<br>401,303<br>513,445,000<br>578,445,045<br>513,445,005<br>578,445,045<br>55998<br>5465<br>55998<br>5465<br>55998<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  |
50.00<br>90<br>354.21<br>534.21<br>537,756,482<br>556,24<br>539,756,482<br>556,24<br>539,756,482<br>556,24<br>539,755,682<br>559,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025<br>549,755,025,025<br>549,755,025,025,025,025,025,025,025,025,025,0   |
| Perspectational generalization of the second   | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,444<br>50,00<br>59<br>44,125<br>53,141,15,429<br>53,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>55,764,73<br>50,000<br>51,101,000<br>51,101,000<br>51,101,000  | 330,633<br>30<br>31,330<br>32,335<br>32,327,548<br>33,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548<br>35,327,548 35,327,548<br>35,327,548 3  |
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| 544,639<br>504,039<br>254,027<br>353,039<br>556,855,254<br>556,855,254<br>556,855,254<br>550,055,254<br>550,055,254<br>550,055,254<br>500,055,254<br>500,055,254<br>500,055,254<br>500,055,254  
  | 374,786<br>500<br>500<br>513,513<br>514,076,403<br>517,151,448<br>533,513<br>537,439,640<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5   | 375,565<br>300<br>311,343<br>328,077<br>39,370,252<br>554,377,347<br>554,377,347<br>554,377,347<br>554,377,347<br>554,378,380<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5  | 566,921<br>500<br>30<br>317,047<br>328,65<br>330,678,779<br>562,264,578<br>552,264<br>532,259<br>351,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259<br>552,259 | 948,43<br>500<br>9<br>413,300<br>522,20<br>532,249,444<br>550,186,493<br>550,186,493<br>530,593,593<br>540,573,593<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  
   | 5407,344<br>5000<br>50<br>50<br>512,225,422<br>512,225,422<br>60115<br>530,422<br>530,50<br>530,50<br>531,407,005<br>541,407,005<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   | 550,19<br>500,09<br>400,736<br>500,30<br>512,417,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,327,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798<br>572,577,798   | 3.142,996<br>3.00<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30   | 991,800<br>500<br>50<br>51<br>512,611<br>512,821,131<br>512,821,131<br>512,821,131<br>512,822<br>5202<br>5202<br>5202<br>5202<br>5202<br>5202<br>5202<br>5                
  | 944,85<br>50<br>50<br>51224<br>513,025,409<br>575,849,700<br>54222<br>513,025,709<br>54223<br>530,037<br>545,031,643<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  | 557,789<br>30<br>31289<br>5121845<br>5121845<br>55927<br>55927<br>5335<br>555,586,153<br>565,586,153<br>595,586,153<br>595,586,153<br>595,586,153<br>595<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5   | 566,45<br>50<br>40,30<br>31,35<br>51,461,200<br>578,465,665<br>559,405<br>542<br>543<br>544<br>545,560,865<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5  
  | 50.00<br>99<br>400,055<br>534.21<br>533,488,481<br>399,756,482<br>54524<br>54525<br>549<br>559<br>559<br>559<br>559<br>559<br>559<br>559<br>559<br>55  |
| Projectional Systems       Productional Systems  | 50<br>594,542,109<br>5545,816,986<br>NIPV  | 58,444<br>50,00<br>48,135<br>51,18,300<br>59,18,784,30<br>59,510<br>59,510<br>59,510<br>59,500<br>59,500<br>59,500<br>59,500<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000   | 310,433<br>310,433<br>91,330<br>91,330<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,3402<br>91,4402<br>91,4402<br>91,4402<br>91,4402<br>91,4402<br>91,4402<br>91,4402<br>91,44  | 348,246<br>500<br>131,598<br>131,598<br>131,598<br>132,446,977<br>519,435,240<br>52078<br>52078<br>52078<br>52078<br>520<br>530<br>530<br>530<br>530<br>530<br>530<br>530<br>53   
   | 5134,902<br>5134,902<br>173,321<br>523,539<br>523,539<br>523,539<br>523,539<br>523,539<br>523,549<br>535,55<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,5555<br>535,5555 | 5188.302<br>5183.302<br>213,250<br>525,489,703<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>532,848,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,605<br>542,948,948,948,948,948,948,948,948,948,948   | 544,639<br>50,03<br>50,03<br>52,54,107<br>555,54,545,545<br>555,5455,545<br>555,5455,545<br>555,545,54   |
374,786<br>574,786<br>284,334<br>397,133<br>540,066,003<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>553,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714<br>554,714 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577,780<br>500<br>402,588<br>511,283,389<br>577,113,85<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>59927<br>5997<br>59927<br>599757<br>599757<br>599757<br>5 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566,45<br>500<br>401,30<br>511,441,20<br>578,455,265<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>55998<br>559<br>559  | 5000<br>90<br>400,055<br>534,21<br>531,468,661<br>539,756,623<br>550<br>550<br>550<br>550<br>550<br>550<br>550<br>550<br>550<br>55   |
| Perspectational gene container (2004)<br>Text Perspectational Container (2004)<br>Perspectational Container (200   | 59<br>594,50,20<br>556,816,586<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,560,69<br>53<br>54<br>54<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55  | 58,444<br>50,00<br>48,135<br>53,244<br>53,138,320<br>53,764,173<br>553,764,173<br>553,764,173<br>553,764,173<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,575<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775,775,775<br>553,775,775,775,775,775,7755,775   | 310,433<br>510,433<br>91,340<br>523,942<br>523,925<br>523,272,588<br>511,787,785<br>511,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785<br>513,787,785  |
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| Perspectational gene Calamaer (SNR 1):<br>Tardar National Calamaer (SNR 1):<br>Manual Academic March 2000<br>Manual Academic March 2000<br>March 200   | 59<br>594,50,20<br>556,816,586<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,560,69<br>53<br>54<br>54<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55  | 58,444<br>50,00<br>48,135<br>53,244<br>53,138,320<br>53,764,173<br>553,764,173<br>553,764,173<br>553,764,173<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,575<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775,775,775<br>553,775,775,775,775,775,7755,775   | 330,433<br>91,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,330<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>9  | 348,246<br>500<br>50<br>51<br>513,545<br>53,465,477<br>519,345,240<br>533,465,477<br>519,345,240<br>533,465,477<br>533,465,477<br>533,465,477<br>533,000<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500   
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  | 954,81,96<br>500<br>512,22<br>513,225,509<br>557,849,300<br>559,849,300<br>559,301,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,633<br>550,013,013,013,013,013,013,013,013,013,01 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557,720<br>30<br>31,219,509<br>557,111,219,509<br>557,111,219,509<br>557,111,219,509<br>559,711<br>559,71<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711  | 5960,45<br>50<br>401,303<br>313,45<br>513,461,200<br>578,466,665<br>559,98<br>542<br>542<br>542<br>542<br>542<br>542<br>542<br>542  | 50.00<br>99<br>400,065<br>334.21<br>51,448,64<br>539,756,642<br>555,244<br>556<br>550<br>550<br>550<br>550<br>500<br>500<br>500<br>500<br>500  
   |
| Perspectation of the sector of   | 59<br>594,50,20<br>556,816,586<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,360,64<br>5373,560,69<br>53<br>54<br>54<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55  | 58,444<br>50,00<br>48,135<br>53,244<br>53,138,320<br>53,764,173<br>553,764,173<br>553,764,173<br>553,764,173<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,573<br>553,764,575<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,774,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775<br>553,775,775,775,775<br>553,775,775,775,775,775,7755,775   | 330,433<br>91,330<br>93,330<br>93,330<br>93,330<br>93,330<br>93,340<br>352,327,548<br>353,527<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,545<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,555<br>353,5555<br>353,555<br>353,5555<br>353,555<br>353,555<br>353,555<br>353  | 348,246<br>500<br>50<br>51<br>513,545<br>53,465,477<br>519,345,240<br>533,465,477<br>519,345,240<br>533,465,477<br>533,465,477<br>533,465,477<br>533,000<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500   
   | 5134,402<br>500<br>500<br>500<br>513<br>513,211<br>513,513<br>54,491,499<br>514,491,499<br>515,144,499<br>515,144,499<br>515,144,499<br>515,144,499<br>515,144,499<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5   | 5142.002<br>500<br>50<br>512.00<br>522.65<br>532.6459.703<br>532.6459.703<br>532.6459.703<br>532.6459<br>533.503<br>535.503<br>500<br>500<br>500<br>500<br>500<br>500<br>500  | 544.699<br>509<br>2554.07<br>595305<br>59,5724.87<br>59,5726<br>59,5725<br>50,672,53<br>50,672,53<br>50,672,53<br>50,672,53<br>50,672,53<br>50,672,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,53<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,535<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,552,555<br>50,555,555<br>50,555,555<br>50,555,555<br>50,555,555   |
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  | 954,8,16<br>50<br>50<br>512,24<br>513,245,509<br>557,809<br>557,809<br>551,255,509<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,633<br>550,501,501,501,501,501,501,501,501,501,   | 557,720<br>30<br>31,219,509<br>557,111,219,509<br>557,111,219,509<br>557,111,219,509<br>559,711<br>559,71<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711<br>559,711  | 5960,45<br>50<br>401,303<br>313,45<br>513,461,200<br>578,466,665<br>559,98<br>542<br>542<br>542<br>542<br>542<br>542<br>542<br>542  | 50.00<br>99<br>400,065<br>334.21<br>51,448,64<br>537,756,642<br>555,244<br>556<br>550<br>550<br>550<br>550<br>550<br>500<br>500<br>500<br>500  
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| Perspective Development of Control of Contro   | 59<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)<br>59(4)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | 58,444<br>5,00<br>90<br>41,135<br>5,244,1<br>5,137,820<br>53,244,13<br>5,137,820<br>53,244,13<br>5,555,444<br>5,244,135<br>5,255,444<br>5,244,135<br>5,255,444   | 51,04,03<br>52,04,0<br>53,140<br>53,147,55<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548<br>51,747,548 51,747,548<br>51,747,548<br>51,747,548 51,747,548<br>51,747,548 51,747,548<br>51,7   | 948,248<br>500<br>50<br>51,10,588<br>525,42<br>53,468,477<br>539,458,240<br>533<br>537,088,254<br>533<br>537,088,254<br>533<br>537,088,254<br>533<br>533<br>533<br>533<br>533<br>533<br>533<br>5  
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   | 343,344<br>500<br>323,37<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50  | 551,6,19<br>50,09<br>40,7,28<br>50,27<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,29<br>51,247,29<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,0000<br>50,000<br>50,000<br>50,0000<br>50,0000<br>50,000<br>50 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   | 343,344<br>500<br>323,37<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50  | 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  | 91,234<br>92,234<br>327,235<br>92,345<br>327,235<br>92,345<br>327,235<br>92,345<br>93,257,455<br>93,257,455<br>93,257,455<br>93,257,455<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>93,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955<br>94,955,955,955<br>94,955,955,955,955,955,955,955,955,955,9  | 375,256<br>300<br>311,343<br>3260<br>51,343<br>3260<br>51,352<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>5543<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50  | 94,491<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007<br>10,007   | 948,431<br>320,00<br>412,300<br>522,200<br>522,200<br>532,400,444<br>553,400<br>553,400<br>534,400<br>500<br>500<br>500<br>500<br>500<br>500<br>500   
   | 343,344<br>500<br>323,37<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>512,28,39<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50  | 551,6,19<br>50,09<br>40,7,28<br>50,27<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,79<br>51,247,29<br>51,247,29<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,00<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,000<br>50,0000<br>50,000<br>50,000<br>50,0000<br>50,0000<br>50,000<br>50 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514,996<br>530,99<br>407,134<br>530,99<br>531,245,89<br>531,245,89<br>531,245,89<br>531,253<br>531,353<br>531,353<br>531,353<br>531,353<br>531,353<br>531,353<br>531,353<br>531,353<br>531,355<br>532,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,355<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>533,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,555<br>535,5  | 991,900<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90   
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3968,455<br>300<br>401,303<br>533,45<br>513,461,300<br>378,465,685<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>5598<br>55988<br>5598<br>5      | 50.00<br>400,05<br>513,488,65<br>513,488,65<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>5  |

	= User Input																		
PROJECT NAME:	Ameren DR Potential																		
DEMAND RESPONSE PROGRAM NAME:	Residential Critical Pea	k Pricing without E																	
Firm Load Neduction? (Select from drop-down menu) New Pogram? (Select from drop-down menu) Load Shifting Pogram? (Select from drop down menu) Number of Control Units Per Parcipant If Existing Pogram. Total Number of Parcipants Age of Existing Program. Years	NO YES YES	118 Year End	2			5		7	8		10	11	12	13	14	15	16	17	18
Item		2019	2 2020	3 2021	4 2022	5 2023	ь 2024	2025	8 2026	9 2027	2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		51,083	104,603	163,229	222,469	280,224	336,715	393,281	449,974	506,796	563,744	564,382	565,021	565,660	566,299	566,937	567,575	568,213	568,852
Coincident Peak (CP) Load Per Eligible Customer (kW)	3.61																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	1.28%	2.40%	3.17%	4.15%	5.11%	5.89%	6.71%	7.48%	8.21%	8.80%	9.30%	9.79%	10.25%	10.68%	11.14%	11.55%	11.93%	12.30%
Participant Incentive (5/kW-Yr.)	\$0																		
Program Participation Rate (From Market Adoption Curve Tab)		98.8%	94.7%	87.3%	83.2%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%	82.0%
Annual Number of Control Hours	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	13.0%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants		50.448	99.033	142,539	185,189	229,783	276,106	322,490	368.978	415,572	462.270	462.794	463.317	463.841	464.365	464.888	465.411	465.935	465.458
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW)		181,940	368,352 348,738	570,244	769,324	959,338 786.657	1,143,248	1,323,787	1,501,984	1,678,327	1,855,059	1,846,833	1,838,900	1,831,597	1,824,907	1,817,701	1,811,277	1,805,497	1,799,927
Date Participant OF Demand (KW) Coincident Peak Demand Reduction (KW) Coincident Peak Demand Reduction® Gan (kW)		23,268	45,162 47,901	497,905 64,487 68,399	82,932 87 964	101,872	937,463 121,401 128,767	140,573	159,495	178,222	196,989	196,115	195,273	1,501,910 194,497 205,298	193,787	193,022	192,340	191,726	191,134
Enrets TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$276,772,416	\$1,899,635	\$6,030,827	\$10,127,877	\$13,285,390	\$16,645,813	\$20,233,640	\$23,897,464	\$27,656,625	\$31,521,785	\$35,537,919	\$36,087,935	\$36,651,589	\$37,236,151	\$37,842,149	\$38,446,573	\$39,076,906	\$39,731,250	\$40,400,855
TOTAL OTILITY AVOIDED COSTS (BENEFITS)	\$276,772,416	\$1,639,635	30,030,827	510,127,877	\$13,285,390	\$10,045,813	\$20,233,040	\$23,897,404	\$27,030,025	\$31,521,785	\$35,537,919	\$30,087,935	\$30,051,589	\$37,230,151	\$37,842,149	\$36,440,573	\$33,076,906	\$39,731,250	\$40,400,655
COSTS Newly installed Units (Includes replacement of units at end of useful life)	NPV	50448	48585	43507	42649	44595	46322	46384	46488	46594	46618	524	524	524	524	524	523	524	524
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR I Utility/PA Per Unit Equipment Cost	PA	50	50	50	50	50	50	50	50	50	50	50	50	50	\$0	50	50	50	50
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0
Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT																			
Participant Share of Installation Cost Per Unit - Equipment Partcipant Share Installation Cost Per Unit - Labor		\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	50 50	\$0 \$0	50 50	50 50	\$0 \$0	50 50	\$0 \$0	\$0 \$0	50 50	\$0 \$0	50 50
Total Participant Share of Per Unit Installed Equipment Cost Total Participant Installed Equipment Costs	\$0	\$0 \$0.00	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	50 \$0.00	50 \$0.00	\$0 \$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost			50	\$0	\$0	50	50	50	50	50	50	\$0	50	\$0	\$0	\$0	50	\$0	50
Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (S/kW-Yr.) Total Non-Equipment Program Incentive Costs	\$0	\$0 \$0.00	\$0 \$0.00	50 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0 \$0.00	\$0.00	\$0 \$0.00	50 \$0.00	50 \$0.00	\$0 \$0.00	50 \$0.00	\$0 \$0.00
Implementation		\$100,000 \$23,163	\$23,626	\$24,099	\$24,581	\$25,072	\$25,574	\$26,085	\$26,607	\$27,139	\$27,682	\$28,236	\$28,800	\$29,376	\$29,964	\$30,563	\$31,174	\$31,798	\$32,434
Admin Marketing Fusion		\$23,103 \$0 \$50,000	\$23,626 \$0 \$51.000	\$24,099 \$0 \$52,020	\$24,581 \$0 \$53,060	\$25,072 \$0 \$54,122	\$25,574 \$0 \$55,204	\$20,085 \$0 \$56 308	\$20,607 \$0 \$57,434	\$0 \$58,583	\$0 \$59,755	\$28,236 \$0 \$60,950	\$28,800 \$0 \$62,169	\$29,376 \$0 \$63,412	\$29,964 \$0 \$64,680	\$30,503 \$0 \$65,974	\$0 \$67,293	\$0 \$68,639	\$32,434 \$0 \$70,012
Evaluation Fixed Program Costs	\$1,082,492	\$173,163	\$74,626	\$76,119	\$77,641	\$79,194	\$80,778	\$82,393	\$84,041	\$85,722	\$87,437	\$89,185	\$90,969	\$92,788	\$94,644	\$96,537	\$98,468	\$100,437	\$102,446
Central Controller Software Costs Central Controller Hardware Cost		\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0
Central Controller Costs	\$0	50 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization)	\$1,082,492	\$173,163	\$74,626	\$76,119	\$77,641	\$79,194	\$80,778	\$82,393	\$84,041	\$85,722	\$87,437	\$89,185	\$90,959	\$92,788	\$94,644	\$96,537	\$98,468	\$100,437	\$102,446
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization)	\$1,082,492 \$1,082,492	\$173,163 \$173,163	\$74,626 \$74,626	\$76,119 \$76,119	\$77,641 \$77,641	\$79,194 \$79,194	\$80,778 \$80,778	\$82,393 \$82,393	\$84,041 \$84,041	\$85,722 \$85,722	\$87,437 \$87,437	\$89,185 \$89,185	\$90,969 \$90,969	\$92,788 \$92,788	\$94,644 \$94,644	\$96,537 \$96,537	\$98,468 \$98,468	\$100,437 \$100,437	\$102,446 \$102,446
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$1,082,492	\$173,163	\$74,626	\$76,119	\$77,641	\$79,194	\$80,778	\$82,393	\$84,041	\$85,722	\$87,437	\$89,185	\$90,969	\$92,788	\$94,644	\$96,537	\$18,468	\$100,437	\$102,445
UTILITY COST TEST																			
Total Benefits Total Costs UCT Benefit Cost Ratio	\$276,772,416 \$1,082,492 <b>255.68</b>																		
TOTAL RESOURCE COST TEST																			
Total Benefits																			
Total Costs	\$276,772,416 \$1,082,492																		

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com Capacity Bidding																		
Firm Load Reduction? [Select from drop-down memu) New Pogram (Select from drop-down memu) Load Siliting Program (Select from drop down memu) Number of Costrol Linits Per Participant If Sisting Program - Total Number of Participants Age of Exality Regram - Total Number of Participants	NO YES NO 1 201	8 Year End				5											16	17	
item		2019	2020	3 2021	4 2022	2023	2024	2025	8 2026	2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		18	143	545	1,013	1,396	1,696	1,981	2,268	2,553	2,839	2,843	2,845	2,848	2,850	2,854	2,857	2,859	2,862
Coincident Peak (CP) Load Per Eligible Customer (kW)	221.03																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.31%	4.37%	6.08%	7.77%	9.21%	10.48%	11.77%	12.91%	14.06%	15.07%	15.98%	16.78%	17.26%	17.72%	18.25%	18.33%	18.41%	18.47%
Participant Incentive (\$/kW-Yr.)	\$50.00																		
Program Participation Rate (From Market Adoption Curve Tab)		0.6%	2.4%	5.6%	7.4%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	19.5%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants		0	3	20	75	112	136	159	181	204	227	227	228	228	228	228	229	229	229
Base Sector CP Demand (kW)		3,865	3 30,124	113,049	75 206,474	280,112	335,654	386,419	436,500	484,918	532,937	527,940	523,337	520,828	518,408	515,693	515,637	515,608	515,706
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		22	723	6,331 1,234	15,362 2,996	22,409 4,370	26,852 5,236	30,914 6,028	34,920 6,809	38,793 7,565	42,635 8,314	42,235 8,236	41,867 8,164	41,666 8,125	41,473 8,087	41,255 8,045	41,251 8,044	41,249 8,043	41,256 8,045
Coincident Peak Demand Reduction @ Gen (kW) BENEFITS	NPV	4	148	1,297	3,148	4,592	5,503	6,335	7,156	7,949	8,737	8,655	8,579	8,538	8,498	8,454	8,453	8,453	8,454
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$11,353,853	\$353	\$19,097	\$196,446	\$487,631	\$726,611	\$886,579	\$1,043,416	\$1,202,863	\$1,363,500	\$1,535,144	\$1,552,388	\$1,566,305	\$1,590,952	\$1,616,066	\$1,647,763	\$1,683,172	\$1,718,730	\$1,754,854
COSTS	NPV																		
Newly installed Units (includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		0	3	27	45	36	24	23	23	23	23	0	0	0	0	0	0	0	0
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$1,112 \$0	\$1,135	\$1,157 \$0	\$1,181 \$0	\$1,204 \$0	\$1,228 \$0	\$1,253 \$0	\$1,278 \$0	\$1,303 \$0	\$1,329 \$0	\$1,356 \$0	\$1,383 \$0	\$1,411 \$0	\$1,439 \$0	\$1,468 \$0	\$1,497 \$0	\$1,527 \$0	\$1,558 \$0
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$212,155	\$1,112 \$112	\$1,135 \$3,767	\$1,157 \$31,336	\$1,181 \$52,955	\$1,204 \$43,727	\$1,228 \$29,537	\$1,253 \$28,566	\$1,278 \$29,244	\$1,303 \$29,742	\$1,329 \$30,454	\$1,356	\$1,383 \$282	\$1,411 \$294	\$1,439 \$298	\$1,468 \$417	\$1,497 \$312	\$1,527 \$316	\$1,558 \$320
Amortized Utility/PA Installed Equipment Cost	\$224,287	\$10	\$333	\$3,021	\$7,563	\$11,313	\$13,847	\$16,297	\$18,805	\$21,357	\$23,969	\$24,002	\$24,026	\$24,052	\$24,077	\$24,113	\$24,140	\$24,167	\$24,194
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment			50	50	50	50	50	50	50	50	50	50	50	\$0	50	\$0	50	50	50
Partcipant Share Installation Cost Per Unit - Labor Total Participant Share of Per Unit Installed Equipment Cost	_	50	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost			\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0
Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Non-Equipment Participant Incentives (S/KW-Yr.) Total Non-Equipment Program Incentive Costs	\$3,329,600	\$50 \$11 \$232.42	\$50 \$356 \$7,763.12	\$50 \$3,113 \$67,977.70	\$50 \$7,555 \$164,949.30	\$50 \$11,021 \$240,621,13	\$50 \$13,205 \$288,332,46	\$50 \$15,203 \$331,940.08	\$50 \$17,174 \$374,961,04	\$50 \$19,079 \$416,552.34	\$50 \$20,968 \$457,801.25	\$50 \$20,771 \$453,509.03	\$50 \$20,590 \$449,555.14	\$50 \$20,492 \$447,400.01	\$50 \$20,396 \$445 321 17	\$50 \$20,290 \$442,988.31	\$50 \$20,287 \$442,940.61	\$50 \$20,286 \$442,915.53	\$50 \$20,290 \$442,999.75
Total Non-Equipment Program Incentive Costs	\$3,329,600	\$232.42	\$35,401	\$67,977.70	\$164,949.30	\$240,621.13	\$288,332.46	\$331,940.08	\$374,961.04 \$54,846	\$416,552.34	\$457,801.25	\$39,843	\$449,555.14 \$40.571	\$447,400.01	\$445,321.17 \$42,213	\$442,988.31 \$43,125	\$442,940.61 \$43,920	\$442,915.53 \$44,797	\$442,999.75
Impromentation, Admin, Marketing Fixed Program Costs	\$663,465	\$132,561	\$35,401 \$35,401	\$52,581 \$52,581	\$66,210	\$61,370	\$53,573	\$53,708	\$54,846 \$54,846	\$55,891 \$55,891	\$57,079	\$39,843 \$39,843	\$40,571 \$40,571	\$41,386 \$41,386	\$42,213 \$42,213	\$43,125 \$43,125	\$43,920	\$44,797 \$44,797	\$45,691 \$45,691
Central Controller Software Costs Central Controller Hardware Cost		\$2,500 \$12,500	\$2,550	\$2,601	\$2,653	\$2,706	\$2,760	\$2,815	\$2,872	\$2,929	\$2,988	\$3,047 \$12,500	\$3,108	\$3,171	\$3,234	\$3,299	\$3,365	\$3,432	\$3,501
Central Controller Costs	\$53,185	\$15,000	\$2,550	\$2,601	\$2,653	\$2,706	\$2,760	\$2,815	\$2,872	\$2,929	\$2,988	\$15,547	\$3,108	\$3,171	\$3,234	\$3,299	\$3,365	\$3,432	\$3,501
TOTAL UTILITY COSTS (No Amortization)	\$4,258,405	\$147,905	\$49,481	\$154,496	\$286,768	\$348,424	\$374,202	\$417,030	\$461,923	\$505,114	\$548,323	\$509,289	\$493,517	\$492,251	\$491,066	\$489,828	\$490,537	\$491,461	\$492,511
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortized Installed Equipment Cost) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$4,270,536 \$928,805 \$905,689	\$147,803 \$147,672 \$147,570	\$46,047 \$41,718 \$38,284	\$126,180 \$86,518 \$58,203	\$241,375 \$121,819 \$76,426	\$316,011 \$107,803 \$75,390	\$358,512 \$85,870 \$70,180	\$404,761 \$85,089 \$72,821	\$451,484 \$86,962 \$76,523	\$496,729 \$88,562 \$80,177	\$541,837 \$90,521 \$84,036	\$532,902 \$55,780 \$79,393	\$517,261 \$43,962 \$67,706	\$516,009 \$44,851 \$68,609	\$514,845 \$45,745 \$69,524	\$513,525 \$46,840 \$70,536	\$514,365 \$47,596 \$71,424	\$515,311 \$48,545 \$72,396	\$516,385 \$49,511 \$73,386
UTILITY COST TEST	********		110,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	370,426	112,220	770,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,			,	200,000	100,004	010,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*******	0.000
Total Benefits	\$11,353,853																		
Total Costs UTC Benefit Cost Ratio	\$4,258,405 2.67																		
TOTAL RESOURCE COST TEST													1						
Total Benefits	\$11,353,853																		
Total Costs TRC Benefit Cost Ratio	\$928,805 12.22																		

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com CPP Rate with Ena	abling Tech																	
Firm Load Reduction? [Salect from drop-down menu) New Program? [Salect from drop-down menu) Load Shiftop Program? [Salect from drop down menu) Number of Control Units Fee Transjoant If Existing Program - Total Number of Participants Age of Existing Program - Years	NO YES YES 1.654 20	118 Year End	2	1		5		7			10	11	12	13	14	15	16	17	18
item	Carculate Etielelle	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab) Coincident Peak (CP) Load Per Eligible Customer (KW)	Customers on the	7,281	14,659	22,136	29,713	37,390	45,167	52,724	60,289	67,862	75,444	75,486	75,528	75,569	75,611	75,653	75,694	75,736	75,777
Coincident Peak (CP) Load Ver Eigdale Customer (We) Coincident Peak Load Efficiency Gain (Year 20)	0%	2.31%	4.37%	6.08%	7.77%	9.21%	10.48%	11.77%	12.91%	14.05%	15.07%	15.98%	16.78%	17.26%	17.72%	18.25%	18.33%	18.41%	18.47%
Participant Incentive (S/KW-Yr.)	0.4	2.314	4.37.8	0.00.0			20,707	22.778	12.91.9	24.00%	13.07%	12.00.0	10.70.0	17.2074	17.7278	10.13%	10.33%	20.917	10.47.4
Program Participation Rate (From Market Adoption Curve Tab)		97.9%	90.8%	78.2%	71.1%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%
Annual Number of Control Hours: (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	21.5%																		
Per Participant CP Reduction (kW)																			
LOAD BROUTION Number of Program Participants Base Sector CP Demind (KW) Base Participant C Demind (KW) Colicident Pauk Demind Reduction (KW) Colicident Pauk Demind Reduction (KW)	1001	7,125 129,219 126,454 27,150 28,531	13,315 254,682 231,325 49,666 52,192	17,304 377,703 295,254 63,391 66,615	21,138 497,867 354,183 76,043 79,911	25,799 616,712 425,531 91,362 96,008	31,165 734,518 506,817 108,814 114,348	36,380 845,099 583,119 125,196 131,563	41,599 953,887 658,182 141,312 148,499	46,825 1,059,526 731,073 156,961 164,945	52,056 1,163,983 803,148 172,436 181,206	52,085 1,152,255 795,056 170,698 179,380	52,114 1,141,821 787,856 160,153 177,756	52,143 1,135,923 783,787 168,279 176,838	52,172 1,130,246 779,870 167,438 175,954	52,201 1,123,551 775,250 166,446 174,912	52,229 1,123,014 774,879 166,367 174,828	52,258 1,122,555 774,563 166,299 174,757	52,286 1,122,370 774,435 166,271 174,728
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$243,154,110	\$2,195,995	\$6,570,961	\$9,863,744	\$12,069,081	\$14,790,349	\$17,967,948	\$21,086,484	\$24,276,922	\$27,504,802	\$30,820,770	\$31,120,431	\$31,455,403	\$31,918,798	\$32,394,453	\$32,846,617	\$33,487,518	\$34,143,335	\$34,820,445
COSTS Newly installed Units (includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA	NPV	11785	10237	6598	6341	7710	8876	8625	8634	8643	8653	11833	10285	6645	6389	7758	8922	8672	8580
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	_	\$519 \$250 \$769	\$530 \$255 \$785	\$540 \$260 \$801	\$551 \$265 \$817	\$562 \$271 \$833	\$574 \$276 \$850	\$585 \$282 \$867	\$597 \$287 \$884	\$609 \$293 \$902	\$621 \$299 \$920	\$633 \$305 \$938	\$646 \$311 \$957	\$659 \$317 \$976	\$672 \$323 \$995	\$685 \$330 \$1.015	\$699 \$336 \$1.036	\$713 \$343 \$1.056	\$727 \$350 \$1.077
	\$89,596,062 \$94,792,634	\$250	\$255	\$260	\$265	\$271	\$276	\$282	\$287	\$293	\$299	\$305	\$311	\$317	\$323	\$330	\$336	\$343	\$350
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost		\$250 \$769 \$9,067,894	\$255 \$785 \$8,034,577	\$260 \$801 \$5,282,055 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0,00	\$265 \$817 \$5,177,917 \$3,709,449 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$271 \$833 \$6,421,181 \$4,573,634 \$0 \$0 \$0 \$0 \$0 \$00 \$00	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0,00	\$282 \$867 \$7,473,255 \$6,594,172 \$0 \$0 \$0 \$0 \$0,00	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$00 \$0,000	\$293 \$802 \$7,791,637 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5299 55200 57,956,914 59,740,645 50 50 50 50 50 50	\$305 \$938 \$11,098,670 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0,000	\$311 59,57 59,839,962 \$10,256,929 50 50 50 50 50	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$00 \$00	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,048 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336 \$1,036 \$9,239,694 \$11,002,332 \$0 \$0 \$0 \$0 \$0 \$0	\$343 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304
Uniting/PA Are Unit Labor Cost Uniting/PA Are Unit Labor Cost Variable Unity/PA Installed Equipment Cost Amorbials Unity/PA Installed Equipment Cost Amorbials Unity/PA Installed Equipment Cost Amorbials Unity/PA Installed PA Installed PA Installed PA Installed Participant Share Installation Cost Public Labor Participant Share Installation Cost Public Labor Total Participant Share In Cost Participant Share Installation Cost Public Labor Cost Public Pu		\$250 \$769 \$0,067,894 \$1,220,389 \$0	\$255 \$785 \$8,034,577 \$2,301,710 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,055 \$3,012,587 \$0 \$0 \$0 \$0	\$265 \$817 \$5,177,917 \$3,709,449 \$0 \$0 \$0 \$0	\$271 \$833 \$6,421,181 \$4,573,634 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0	\$282 \$867 \$7,473,255 \$6,594,172 \$0 \$0 \$0	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0	\$293 \$902 \$7,791,637 \$8,669,776 \$0 \$0 \$0 \$0	\$299 \$920 \$7,956,914 \$9,740,645 \$0 \$0 \$0 \$0	\$305 \$938 \$11,098,670 \$10,013,954 \$0 \$0 \$0 \$0	\$311 5057 \$9,839,962 \$10,256,929 \$0 \$0 \$0 \$0	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0	\$330 \$1,015 \$7,876,048 \$10,773,583 \$0 \$0 \$0 \$0	\$336 \$1,036 \$9,239,694 \$11,002,332 \$0 \$0 \$0 \$0	\$343 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304 \$11,461,093 \$0 \$0 \$0
Unity Are view take for the unity Area and an experimental and an experimental method and any Area and an experimental and an experimental and an experimental and an experimental method and any Area and Area and Area and Area and Area And Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area and Area Area and Area and Area and Area and Area and Area and Area and Area Area and Area and Area Area and Area and Area Area and Area and Ar	\$94,792,634 	\$250 \$769 \$9,067,894 \$1,220,389 \$0 \$0 \$0 \$0 \$0 \$0	\$255 \$785 \$8,034,577 \$2,301,710 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,055 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$265 \$817 \$5,177,917 \$3,709,449 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$271 \$833 \$6,421,181 \$4,573,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$282 \$867 \$7,473,255 \$6,594,172 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$293 \$902 \$7,791,637 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5299 5920 57,956,914 59,740,645 50 50 50 50 50 50 50	\$305 \$938 \$11,098,670 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$311 \$957 \$9,839,962 \$10,256,929 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,048 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336 \$1,036 \$9,239,694 \$11,002,332 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$343 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$0,352,304 \$11,461,003 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Utility/A who lock bair Cast and Utility/A shared bigsmet Cast Pure Intel Research of Utility Pure Intel Cast Pure Intel Cast Pure Intel Pure Intel Cast Pure Intel Pure Inte	\$94,792,634 \$0 \$0 \$0	\$250 \$769 \$7,69 \$1,220,389 \$1,220,389 \$0,000 \$0,0000\$000 \$0,0000\$000 \$0,0000\$000\$	\$355 \$785 \$84,034,577 \$2,301,710 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,055 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$265 \$817 \$5,177,917 \$3,709,449 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$271 \$833 \$6,421,181 \$4,573,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$282 \$867 \$7,473,355 \$6,594,172 \$0 \$0 \$0 \$0,000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$193 \$002 \$7,791,537 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$299 \$220 \$7,956,934 \$9,740,645 \$0 \$0,000\$0,00 \$0,000\$	\$105 \$938 \$11,08,70 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$311 \$9839,962 \$10,256,929 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,648 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336 \$1,036 \$0,239,664 \$11,002,332 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304 \$11,461,093 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Untilligh An use takan Gas Kanada Charlon Kanada (Sapanen Cash Yu Just Kanada Charlon Kanada (Sapanen Cash Yu Just Kanada Charlon Kanada (Sapanen Cash Kanada Charlon Kanada (Sapanen Cash Kanada Charlon Kanada (Sapanen Cash Tara) Antopasi Sabara (An Uru Init Anton Sabara) Antopasi Sabara (An Uru Init) A Cash (Sabara Uru Init) Rash Rash Sabara (Sabara Uru Init) Rash Rash Rash Rash (Sabara Uru Init) Rash Rash (Sabara Uru Init) Rash Rash (Sabara Uru Init) Rash Rash (Sabara Uru Init) Rash (Sabara Uru Init)	\$94,792,634 	\$230 \$799 \$0,067,894 \$1,220,389 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$2355 \$7285 \$8,004,577 \$2,301,710 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,035 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5265 5317 55.177,917 53.709,449 50 50 50 50 50 50 50 50 50 50	\$271 \$333 \$6.421,181 \$4.573,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5282 5867 57,473,255 56,594,172 50 50 50 50 50 50 50 50 50 50 50 50 50	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$193 \$002 \$7,791,537 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$299 \$200 \$7,956,924 \$9,740,645 \$0 \$0 \$00 \$0,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$105 \$1938 \$11,098,670 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	53111 5957 59,839,962 510,256,939 50 50 50 50 50 50 50 50 50 50 50 50 50	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,048 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336           \$1,036           \$0,239,634           \$11,002,332           \$0           \$2,704,319           \$2,748,051	\$143 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304 \$11,461,093 \$0 \$0 \$00 \$0,009 \$0,000
Utility/A who lock bair Cast and Utility/A shared bigsmet Cast Pure Intel Research of Utility Pure Intel Cast Pure Intel Cast Pure Intel Pure Intel Cast Pure Intel Pure Inte	\$94,792,634 \$0 \$0 \$0	\$250 \$769 \$7,69 \$1,220,389 \$1,220,389 \$0,000 \$0,0000\$000 \$0,0000\$000 \$0,0000\$000\$	\$355 \$785 \$84,034,577 \$2,301,710 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,055 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$265 \$817 \$5,177,917 \$3,709,449 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$271 \$833 \$6,421,181 \$4,573,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$282 \$867 \$7,473,355 \$6,594,172 \$0 \$0 \$0 \$0,000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000 \$0,0000	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$193 \$002 \$7,791,537 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$299 \$220 \$7,956,934 \$9,740,645 \$0 \$0,000 \$0,0000 \$0,000 \$0,000 \$0,000 \$0,000 \$0,	\$105 \$938 \$11,08,70 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$311 \$9839,962 \$10,256,929 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,648 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336 \$1,036 \$0,239,664 \$11,002,332 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$143 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304 \$11,461,093 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Uniting A more taken Case and Uniting A manufactory and the second seco	\$94,792,634 \$0 \$0 \$0	\$230 5769 59,657,894 51,220,389 50 50 50 50 50 50 50 50 50 50 50 50 50	\$2355 \$7285 \$8,004,577 \$2,301,710 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$260 \$801 \$5,282,035 \$3,012,587 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5265 5317 55.177,917 53.709,449 50 50 50 50 50 50 50 50 50 50	\$271 \$333 \$6.421,181 \$4.573,634 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$276 \$850 \$7,540,017 \$5,588,396 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5282 5867 57,473,255 56,594,172 50 50 50 50 50 50 50 50 50 50 50 50 50	\$287 \$884 \$7,630,790 \$7,621,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$193 \$002 \$7,791,537 \$8,669,776 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$299 \$200 \$7,956,924 \$9,740,645 \$0 \$0 \$00 \$0,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$105 \$1938 \$11,098,670 \$10,013,954 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	53111 5957 59,839,962 510,256,939 50 50 50 50 50 50 50 50 50 50 50 50 50	\$317 \$976 \$6,484,456 \$10,418,752 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$323 \$995 \$6,359,562 \$10,577,782 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$330 \$1,015 \$7,876,048 \$10,773,583 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$336           \$1,036           \$0,239,634           \$11,002,332           \$0           \$2,704,319           \$2,748,051	\$143 \$1,056 \$9,160,487 \$11,229,405 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$350 \$1,077 \$9,352,304 \$11,451,093 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Unity An era tabé Cas de Unity An era tabé Cas de Unity Anterna de Unity	\$94,792,634 50 50 519,441,735 50 519,441,735 50 50 50 50 50 50 50 50 50 50 50 50 50	2350 5350 90,067,284 51,201,389 50 50 50 50 50 50 50 50 50 50 50 50 50	2335 5785 58,004,577 59,169,577 59,169,577 50 50 50 50 50 50 50 50 50 50 50 50 50	2500 5001 53,022,055 53,022,055 53,022,055 50,000 50 50 50 50 50 50 50 50 50	2255 53179 53,779,917 53,779,917 53,709,917 50 50 50 50 50 50 50 50 50 50	2723 5333 54472,841 54472,841 54472,841 54472,841 50 50 50 50 50 50 50 51,074,860 51,1074,860 51,1074,860 51,1074,860 51,207,580,714 53,683,87	2776 55500,072 555,588,390,072 555,588,390 50 50 50 50 50 50 50 50 51,359,65 51,359,65 51,359,65 51,359,65 51,359,652 555,350	3222 3567 55.5947,235 55.594,235 55.594,235 50 50 50 50 50 50 50 50 50 50 50 50 50	5227 584 57,612,700 57,521,700 57,521,700 50 50 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 51,873,832,71 51,873,802,716 50,0000 50,000 50,000 50,0000 50,000 50,000 50,000 50,000	2333 5002 57,791,837 58,669,537 50 50 50 50 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000000	2399 5300 537,66,634 59,740,645 50 50 50 50 50 50 50 50 50 50 50 50 50	305 558 510,008,870 50,000 50 50 50 50 50 50 50 50 50 50 50 50	5111           5957           59,879,962           50,259,879,962           50           512,772,58           512,772,58           512,772,57	5317 5307 55484455 510,458,723 50 50 50 50 50 50 50 50 50 51,20 52,544,12 52,554,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 54,120,120 54,120 54,120 54,120,120 54,120,120 54,120,120 54,120	\$233 5965 \$6,359,562 \$10,577,967 \$0 50 50 50 50 50 50 50 50 50 50 50 50 50	\$30 \$1,05 \$1,07 \$2,07,068 \$0,07 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$316 \$1,08 \$2,29,64 \$31,00,29,64 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5343           51,054           51,054           51,20,487           51,20,487           50           50           50           50           50           50           50           50           50           50           50           50           51,29,9365           52,804,483           50           50           50           50           51,1,465,020           51,465,020           51,465,020           51,31,856,020	530 51,077 53,046,000 53,465,000 50 50 50 50 50 50 50 50 50 50 50 50
Unity An versite bake Case Table State St	\$94,792,634 50 50 519,441,735 50 519,441,735 50 50 50 50 50 50 50 50 50 50 50 50 50	2350 5350 90,067,284 51,201,389 50 50 50 50 50 50 50 50 50 50 50 50 50	2335 5785 58,004,577 59,169,577 59,169,577 50 50 50 50 50 50 50 50 50 50 50 50 50	2500 5001 53,022,055 53,022,055 53,022,055 50,000 50 50 50 50 50 50 50 50 50	2255 53179 53,779,917 53,779,917 53,709,917 50 50 50 50 50 50 50 50 50 50	272 533 54,423,83 54,573,84 54,573,85 50 50 50 50 50 50 51,074,80 51,074,80 51,074,80 53,507,74 53,507,74 53,507,74	2776 55500 57,548,0027 55,548,349 50 50 50 50 50 50 50 50 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,3526 51,352 51,3526 51,352 5	3222 3567 55.5947,235 55.594,235 55.594,235 50 50 50 50 50 50 50 50 50 50 50 50 50	5227 584 57,612,700 57,521,700 57,521,700 50 50 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 51,873,832,71 51,873,802,716 50,0000 50,000 50,000 50,0000 50,000 50,000 50,000 50,000	2333 5002 57,791,837 58,669,537 50 50 50 50 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000000	2399 5300 537,66,634 59,740,645 50 50 50 50 50 50 50 50 50 50 50 50 50	305 558 510,008,870 50,000 50 50 50 50 50 50 50 50 50 50 50 50	5111           5957           59,879,962           50,259,879,962           50           512,772,58           512,772,58           512,772,57	5317 5307 55484455 510,458,723 50 50 50 50 50 50 50 50 50 51,20 52,544,12 52,554,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 53,544,12 54,120,120 54,120 54,120 54,120,120,120,120,120,120,120,120,120,	\$233 5965 \$6,359,562 \$10,577,967 \$0 50 50 50 50 50 50 50 50 50 50 50 50 50	\$30 \$1,05 \$1,07 \$2,07,068 \$0,07 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$316 \$1,08 \$2,29,64 \$31,00,29,64 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5343           51,054           51,054           51,20,487           51,20,487           50           50           50           50           50           50           50           50           50           50           50           50           51,29,9365           52,804,483           50           50           50           50           51,1,465,020           51,465,020           51,465,020           51,31,856,020	530 51,077 53,046,000 53,465,000 50 50 50 50 50 50 50 50 50 50 50 50
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	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com CPP Rate without	Enabling Tech																	
Firm Load Reduction? (Select from drop down menu) New Poggam? (Select from drop down menu) Load Shifting Program? (Select from drop down menu) Number of Control Units Per Participant I Faisting Program-Total Number of Participants Age of Existing Program - Years	NO YES YES 1 200	18 Year End	2	4	4	5	6	7	*		10	11	12	18	14	15	16	17	18
Item	Catrolitie Planete	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		8,675	18,495	30,729	43,336	55,334	66,844	78,026	89,224	100,432	111,653	111,714	111,776	111,837	111,898	111,960	112,022	112,083	112,146
Coincident Peak (CP) Load Per Eligible Customer (kW)	18.17																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.31%	4.37%	6.08%	7.77%	9.21%	10.48%	11.77%	12.91%	14.06%	15.07%	15.98%	16.78%	17.26%	17.72%	18.25%	18.33%	18.41%	18.47%
Participant incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		97.4%	89.1%	73.9%	65.6%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	11.3%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants		8.453	16.471	22.723	28,409	34,850	42.112	49.157	56.211	63.272	70.341	70.380	70.419	70.458	70.496	70.535	70.574	70.612	70.652
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW)		153,956 150,023	321,334 286,161	524,325 387,717	726,135 476,012	912,679 574,988	1,087,031 684,830	1,250,666 787,919	1,411,688 889,363	1,568,044 987,868	1,722,625	1,705,251 1,074,308	1,689,808	1,681,096	1,672,677	1,662,766	1,661,986	1,661,291 1,046,614	1,661,047
Base Partitipant Or Demand Reduction (KW) Coincident Peak Demand Reduction (KW) Coincident Peak Demand Reduction (R Gan (KW)		16,953 17,815	32,336	43,812	476,012 53,789 56 525	574,988 64,974 68 278	77,386	89,035 93,563	100,498 105,610	111,629 117,307	122,634	121,397	120,297	119,677	119,078	1,047,543 118,372 124,393	118,317	118,267	118,250
EENEFTS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$172.146.612	\$1,371,213	\$4,278,214	\$6.817.229	\$8,537,117	\$10,518,459	\$12,778,387	\$14,996,002	\$17,265,259	\$19,561,078	\$21,919,247	\$22,132,136	\$22,370,333	522,700,098	\$23.038.141	\$23,359,681	\$23,815,693	\$24,281,852	\$24,763,843
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COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	8453	8018	6252	5686	6452	7251	7045	7054	7051	7069	38	39	39	18	30	39	38	40
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		50	50	50	50	50	\$0	\$0	\$0	50	50	50	50	50	50	50	50	\$0	\$0
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	_	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	50 50	50 50	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost	\$0 \$0	\$0 \$0	50	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	50	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0
Utility/PA Per Unit Equipment Cost Utility/PA Installed Equipment Cost Per Unit Yarabia Utility/PA Installed Equipment Cost Mannitad Utility/PA Installed Equipment Cost EquiPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0	50 50 50 50	50 50 50	50 50 50 50	50 50 50 50 50 50	\$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0	50 50 50
Utility/PA Nor Ubit Equipment Cost Utility/PA Nor Ubit Equipment Cost Vor Ubit Total Utility/PA Installed Equipment Cost Annotation Utility/PA Installed Equipment Cost Annotation Utility/PA Installed Equipment Cost Annotation Utility/PA Installed Equipment Cost Participant Share of Installation Cost Per Ubit - Equipment Participant Share Installation Cost Per Ubit - Labor	\$0 \$0	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50
Utility/PA Per Unit Equipment Cost Utility/PA Installed Equipment Cost Per Unit Yorabil Utility/PA Installed Equipment Cost Amortiaed Utility/PA Installed Equipment Cost EQUIPMENT THAT WILL BE URSTALLED AND OWNED BY THE PARTICIPANT Participant Share Installance Cast Per Unit. Equipment	\$0 \$0 	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50
Uniting/AP with Equipment Cost Uniting/AP with Equipment Cost Equipment Provide Cost Equipment Provide Cost Equipment Provide Cost Equipment Takes and Equipment Cost Equipment Takes and Extra Cost Equipment Takes and AP with the Equipment Cost	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50
Uniting/NA rol Unit Land Crait Uniting/NA rol Unit Land Crait Uniting/NA rol Unit Land Crait Unitable (Staff)/NA staffed Equipment Cost Manufacture Uniting/NA staffed Equipment Cost PL/UNITABLE (Staff)/NA staffed Equipment Cost Purchaped Harol In Information Cost PUID - Labor Purchaped Harol Information Cost PUID - Labor Purchaped Harol Information Cost PUID - Labor Purchaped Harol Information Cost Purchaped Harol Information Cost Purchaped Harol Information Cost Purchaped Harol Information Cost Purchaped Haroline Information Cost Purchaped Harol	\$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50.00 50.00 50.00	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50
Unity // Are Unit Spagnend Cold and Unity // Are Unit Spagnend Cold Faculate Unity // Net Units Exposent Cold Faculate Unity // Net Units Exposent Cold Exposed Cold Cold Cold Cold Cold Cold Cold Col	\$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0,00 \$0,00 \$0,00 \$0,00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	50 50 50 50 50 50 50 50 50 50 50 50 50 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com Demand Bidding																		
Finn Lada Reduction? (Elaket from dirigo down menu) New Porgan? (Elaket from dirigo down menu) Laad Shifting Program? (Silect from dirigo down menu) Number of Castal Unio Per Pertugat Uniobis of Castal Unio Per Pertugat II Esisting Program - Total Number of Participants Area of Esistin Perame - Yaan	NO YES NO 1 201	8 Year End																	
Age of Excord Program - rears		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)	Customers on the	0	0	0	4,530	10,432	16,048	21,613	27,182	32,758	38,340	38,361	38,381	38,401	38,421	38,440	38,461	38,481	38,500
Coincident Peak (CP) Load Per Eligible Customer (kW)	6.03																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.31%	4.37%	6.08%	7.77%	9.21%	10.48%	11.77%	12.91%	14.06%	15.07%	15.98%	16.78%	17.26%	17.72%	18.25%	18.33%	18.41%	18.47%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		0.7%	3.0%	7.0%	9.3%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	7.0%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION					421	1.043	1.605	2 161	2 718	3.226	3 834	3.836	1838	3.840	3.842	3 844	3.846	3.848	3.850
Number of Program Participants Base Sector CP Demand (kW) Base Participant CP Demand (kW)					421 25,174 2,341	1,043 57,073 5,707	1,605 86,563 8,656	2,161 114,903 11,490	2,718 142,651 14,265	3,276 169,641 16,964	3,834 196,200 19,620	3,835 194,222 19,422	3,838 192,454 19,245	3,840 191,457 19,146	3,842 190,494 19,049	3,844 189,357 18,936	3,846 189,263 18,926	3,848 189,179 18,918	3,850 189,142 18,914
Base Partopant CP Demand (kW) Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction (fi Gen (kW)					2,341 164 172	5,707 400 420	8,656 606 637	11,490 804 845	14,265 999 1.049	16,964 1,187 1.248	1,373	19,422 1,360 1,429	19,245 1,347 1,416	19,146 1,340 1,408	19,049 1,333 1,401	18,936 1,325 1,393	18,926 1,325 1,392	18,918 1,324 1,392	18,914 1,324 1,391
Concident Peak Demand Reduction of Gen (kW) BENETITS TOTAL UTILITY AVOIDED COSTS (RENEFITS)	NPV										1,443								
	\$1,674,219 NPV	\$0	50	\$0	\$26,678	\$66,431	\$102,596	\$139,221	\$176,392	\$214,039	\$253,599	\$256,264	\$258,461	\$262,427	\$266,466	\$271,493	\$277,219	\$282,966	\$288,803
Newly installed Units (includes replacement of units at end of useful life)	NPV		0	0	121	622	562	556	557	558	558	2	2	2	2	2	2	2	2
COMPARENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY LITUATY OF BA		0	0	0	421	022	562	3.30	337				-	-	-	4	-		
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$0 \$0	50 50	50 50	421 50 50	50 50	50 50	\$0 \$0	\$0 \$0	50 50	50 50	50 50	50 50	50 50	50 50	\$0 50	\$0 50	50 50	50 50
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit	50		\$0	50 50	50 50 50	\$0	50	\$0	\$0 \$0 \$0	\$0		\$0 \$0	50 50 50	\$0 \$0 \$0	\$0	50	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0
EQUIPMENT THAT WILL BE DIRECTVI INITIALLED AND OWNED BY UTILITY OR PA UTISITY/PA Pri utili Labor Cost UTISITY/PA Pri utili Labor Cost Toral Utility/PA Initialied Equipment Cost Aurabie Utility/PA Initialied Equipment Cost Amortiaed Utility/PA Initialied Equipment Cost	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0	50 50	50 50 50	\$0 \$0 \$0	50 50 50	\$0 \$0	50 50 50	\$0 \$0	\$0	50 50	\$0 \$0	\$0 \$0 \$0	50 50 50	\$0 \$0	\$0 \$0	\$0
EQUIMENT THAT WALLE DIRECTIVINITIALED AND OWNED BY UTILITY OR PA UIIIty/PA Pr Unit Labor Cost UIIIty/PA Pr Unit Labor Cost Variable UIIIty/PA Pr Unit Labor Cost Variable UIIIty/PA Natalee Equipment Cost Reconstruction UIIIty/PA UNIALE (PATILITIALED AND OWNED BY THE PARTICIPANT Participant State of Unitability Cost Patility Participant Experiments That Wall Lee Restation Cost Pr Unit - Enginement	\$0 \$0	\$0 \$0	50 50 50 50 50 50	50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50
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	- User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com Demand Bidding																		
Firm Load Reduction? [Salect from drop down memu) New Program? (Salect from drop-down memu) Load Shifting Program? (Salect from drop down memu) Number of Control Units Ner Partocipant If Esisting Program. Total Number of Partocipants Age of Esisting Program. Total	NO YES NO 1 201	8 Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		207	1,890	7,474	13,931	19,097	23,059	26,916	30,777	34,642	38,511	38,532	38,552	38,572	38,592	38,611	38,632	38,652	38,671
Coincident Peak (CP) Load Per Eligible Customer (kW)	6.03																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.31%	4.37%	6.08%	7.77%	9.21%	10.48%	11.77%	12.91%	14.06%	15.07%	15.98%	16.78%	17.26%	17.72%	18.25%	18.33%	18.41%	18.47%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		0.7%	3.0%	7.0%	9.3%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Annual Number of Control Hours (If load shifting program, enter 0)	80																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	7.0%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION																			
Number of Program Participants Base Sector CP Demand (kW)		1 1,217	57 10,891	523 42,297	1,295 77,422	1,910 104,475	2,306 124,378	2,692 143,101	3,078 161,516	3,464 179,398	3,851 197,078	3,853 195,090	3,855 193,313	3,857 192,311	3,859 191,343	3,861 190,199	3,863 190,105	3,865 190,020	3,867 189,982
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		9	327 23	2,961 207	7,200 504	10,447 731	12,438 871	14,310 1,002	16,152 1,131	17,940 1,256	19,708 1,380	19,509 1,366	19,331 1,353	19,231 1,346	19,134 1,339	19,020 1,331	19,010 1,331	19,002 1,330	18,998 1,330
Coincident Peak Demand Reduction@ Gen (kW) BENEITS	NPV	1	24	218	530	769	915	1,053	1,188	1,320	1,450	1,435	1,422	1,415	1,408	1,399	1,398	1,398	1,398
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$1,884,378	\$50	\$3,098	\$32,981	\$82,047	\$121,605	\$147,415	\$173,386	\$199,719	\$226,348	\$254,732	\$257,409	\$259,614	\$263,597	\$267,653	\$272,700	\$278,452	\$284,224	\$290,085
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV		55	465	772	614	396	386	386	386	387	2	2	2	2	2	2	2	2
Newly installed Units (includes replacement of units at end of useful life)		1	55	465	772	614	390	386	386	386	387	2	2	2	2	2	2	2	2
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA					~			<i>co</i>	60				60		10		60	60	
Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost		\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	50 50	\$0 \$0	50 50	\$0 \$0	\$0 \$0	50 50	50 50
Utility/PA Per Unit Equipment Cost	\$0 \$0																		
Utility/A Are Unit Equipment Cost Utility/A Are Unit Equipment Cost Total Utility/A Installed Equipment Cost Variable Utility/A Installed Equipment Cost Amontaide Utility/A Installed Equipment Cost EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT	\$0 \$0	\$0 \$0	50 50 50 50	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50
Utility/PA / Pur Unit Equipment Cost Utility/PA / Installed Capument Cost Pur Unit Total Utility/PA Installed Equipment Cost Amotional Utility/PA Installed Equipment Cost Amotional Utility/PA Installed Equipment Cost Amotional Utility/PA Installed Equipment Cost Participant Share of Installation Cost Pur Unit - Equipment Participant Share Installation Cost Pur Unit - Equipment Participant Share Installation Cost Pur Unit - Experiment Participant Share Installation Cost Pur Unit - Experiment Partic	\$0 \$0	50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	\$0 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	50 50 50 50 50 50	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	50 50 50 50 50
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	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Com DLC - Air Condition	ning Switch																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu) Load Shifting Program (Select from drop down menu) Number of Control Units for Fantiguot If Existing Program Total Number of Pantiguots Age of Existing Program Years	YES YES NO 1 20:	18 Year End	2		4	5		7			10	11	12	13	14	15	16	17	18
Item		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)	Customers on the	103,809	90,384	80,931	72,204	61,890	50,076	37,884	25,677	13,457	1,224	1,224	1,223	1,223	1,222	1,221	1,222	1,222	1,221
Coincident Peak (CP) Load Per Eligible Customer (kW)	6.03																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	1.85%	3.68%	5.50%	7.31%	9.06%	10.79%	12.59%	14.06%	15.56%	17.03%	18.39%	19.77%	21.20%	22.69%	24.16%	24.67%	25.15%	25.53%
Participant incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		1.0%	4.2%	9.8%	13.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%	14.0%
Annual Number of Control Hours	80																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	action (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	1.60																		
LOAD REQUESTION Number of Program Participants Base Sector CP Demand (kW) Base Participant CP Demand (kW)		1,017 613,981 6.017	3,796 524,601 22.033	7,931 460,854 45,164	9,401 403,285 52,508	8,665 339,135 47,479	7,011 269,182 37,686	5,304 199,548 27,937	3,595 132,964 18,615	1,884 68,470 9,586	171 6,122 857	171 6,020 843	171 5,913 828	171 5,806 813	171 5,694 797	171 5,581 781	171 5,548 777	171 5,510 771	171 5,479 767
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction @ Gen (kW)		1,598 1,679	5,850 6,148	11,992 12,602	13,942 14,651	12,607 13,248	10,007	7,418	4,943 5,194	2,545 2,675	228 239	224 235	220 231	216	212 222	207 218	206 217	205 215	204 214
EINETTS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$10,729,486	\$148,677	\$898,270	\$2,171,702	\$2,581,937	\$2,384,371	\$1,927,497	\$1,460,332	\$992,983	\$521,732	\$47,763	\$47,938	\$47,937	\$48,042	\$48,080	\$48,277	\$49,015	\$49,706	\$50,450
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$10,729,486	\$148,677	5898,270	\$2,171,702	\$2,581,937	\$2,384,371	\$1,927,497	\$1,460,332	\$992,983	\$521,732	\$47,763	\$47,938	\$47,937	\$48,042	\$48,080	\$48,277	\$49,015	\$49,706	\$50,450
COSTS	NPV																		
Newly installed Units (includes replacement of units at end of useful life)		1017	2779	4135	1470		0		0	0	0	1017	2779	4135	1470	0	0	0	
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA		1017	2779	4135	1470	0		0	-	-	-						0	0	
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA UTIRY/PA Per Unit Equipment Cost UTIRY/PA Per Unit Labor Cost		\$70 \$200	\$71 \$204	\$73 \$208	\$74 \$212	\$76 \$216 \$292	\$77 \$221	\$79 \$225 \$304	\$80 \$230	\$82 \$234	\$84 \$239	\$85 \$244	\$87 \$249	\$89 \$254	\$91 \$259	\$92 \$264	594 5269	\$96 \$275	\$98 \$280 \$378
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost	\$4,050,105 \$4,285,012	\$70	\$71	\$73	\$74		\$77		\$80	\$82	\$84	\$85	\$87	\$89	\$91	592	594	\$96	
EQUIPMENT THAT WALLE DEALED AND OWNED BY UTILITY OR PA UTILITY/AP for UTILITY approver. Cast UTILITY/AP for UTILITY approver. Cast Variable UTILITY/AP Natalie Equipment Cast Amontabe UTILITY/AP Natalie Equipment Cast Amontabe UTILITY/AP Natalie Equipment Cast EquiPMENT THAT WALLE E RATALLED AND OWNED BY THE PARTICIPANT		\$70 \$200 \$270 \$274,677 \$36,967	571 5204 5275 5765,288 5139,962	\$73 \$208 \$281 \$1,161,585 \$296,292	\$74 \$212 \$287 \$421,126 \$352,969	\$216 \$292 \$0 \$352,969	\$77 \$221 \$298 \$0 \$352,969	\$225 \$304 \$0 \$352,969	\$80 \$230 \$310 \$0 \$352,969	\$82 \$234 \$316 \$0 \$352,969	584 5239 5323 50 \$352,969	\$85 \$244 \$329 \$334,830 \$361,055	587 5249 5336 5932,882 5383,620	\$89 \$254 \$342 \$1,415,966 \$417,855	591 5259 5349 5513,351 5430,267	\$92 \$264 \$356 \$0 \$430,267	\$94 \$260 \$363 \$42 \$430,273	\$96 \$225 \$371 \$0 \$430,273	\$280 \$378 \$0 \$430,273
EquiviMent That' Weak & DREETLY INSTALLD AND OWNED BY UTILITY OR A UTILITY AND THE LOB OWNED BY UTILITY OR A UTILITY AND THE ADDREET CASE UTILITY AND THE ADDREET CASE Another ADDREET ADDR		\$70 \$200 \$270 \$274,677 \$36,967 \$0 \$0 \$0	\$71 \$204 \$275 \$765,288 \$139,962 \$0 \$0	\$73 \$208 \$281 \$1,161,585 \$296,292 \$0 \$0	\$74 \$212 \$287 \$421,126 \$352,969 \$0 \$0	\$216 \$292 \$0 \$352,969 \$0 \$0 \$0	\$77 \$221 \$298 \$0 \$352,969 \$0 \$0	\$225 \$304 \$352,969 \$352,969 \$0 \$0	\$80 \$230 \$310 \$0 \$352,969 \$0 \$0 \$0	\$82 \$234 \$316 \$0 \$352,969 \$0 \$0 \$0	\$84 \$230 \$323 \$0 \$352,969 \$0 \$0 \$0	\$85 \$244 \$329 \$334,830 \$361,065 \$0 \$0	\$87 \$249 \$336 \$932,882 \$383,620 \$0 \$0 \$0 \$0	\$89 \$254 \$342 \$1,415,966 \$417,855 \$0 \$0	591 5259 5349 5513,351 5430,267 50 50	\$92 \$264 \$356 \$0 \$430,267 \$0 \$0 \$0	594 \$369 \$42 \$430,273 \$0 \$0	596 5275 5371 50 5430,273 50 50	\$280 \$378 \$0 \$430,273 \$0 \$0 \$0
EQUINARY THAT WILL BE DIRECTIVINISTALLED AND OWNED BY UTILITY OR PA UTILITY/AP for utili stappinent Cost UTILITY/AP for Utili stappinent Cost Varialle UTILITY/AP stabilistic Equipment Cost Naminaed UTILITY/AP stabilistic Equipment Cost Recommendant Costing/AP stabilistic Equipment Cost EQUINARY THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participaed Stave of Unitabilistic Cost Privile To Equipment Cost		\$70 \$200 \$274,677 \$36,967 \$0	571 5204 5275 5765,288 5139,962 50	\$73 \$208 \$281 \$1,161,585 \$296,292 \$0	\$74 \$212 \$287 \$421,126 \$352,969 \$0	\$216 \$292 \$0 \$3\$52,969 \$0	\$77 \$221 \$298 \$0 \$3552,969 \$0	\$225 \$304 \$0 \$352,969 \$0	580 \$230 \$310 \$0 \$352,969 \$0	\$82 \$234 \$316 \$0 \$352,969 \$0	584 5239 5323 50 5352,969 50	\$85 \$244 \$329 \$334,830 \$361,065	\$87 \$249 \$336 \$932,882 \$383,620 \$0	\$89 \$254 \$342 \$1,415,966 \$417,855 \$0	591 5259 5349 5513,351 5430,267 50	\$92 \$264 \$356 \$0 \$430,267 \$0	\$94 \$269 \$363 \$42 \$430,273 \$0	\$96 \$275 \$371 \$0 \$430,273 \$0	\$280 \$378 \$0 \$430,273 \$0 \$0 \$0 \$0
Experients That You Lie Genetic's Marchael and Genetic By UTULTY OF A UTULTY Are Utul Engineere Coll Tata Utulty An autual Engineere Coll Marchael Utulty An autual Engineere Coll Marchael Utulty An autual Engineere Coll Coll Coll Coll Coll Coll Coll Coll		\$70 \$200 \$270 \$274,677 \$36,967 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$71 \$204 \$275 \$7765,288 \$139,962 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$73 \$208 \$281 \$1,161,585 \$296,292 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$74 \$212 \$287 \$421,126 \$352,969 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$116 \$2202 \$0 \$352,969 \$0 \$0 \$0 \$0 \$0 \$00 \$0,000	\$77 <u>\$2211</u> \$2218 \$00 \$352,969 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$225 \$304 \$0 \$3\$52,969 \$0 \$0 \$0 \$0 \$0 \$0,00	\$80 \$230 \$310 \$0 \$352,969 \$0 \$0 \$0 \$0 \$0 \$0,00	\$82 \$234 \$316 \$0 \$152,969 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	584 5239 5323 50 5352,969 50 50 50 50 50 50 50	\$85 5244 5329 5334,830 5361,065 50 50 50 50 50 50 50 50,00	587 5249 5336 5932,882 5383,620 50 50 50 50 50 50 50 50,00	\$80 \$254 \$342 \$1,415,966 \$417,855 \$0 \$0 \$0 \$0 \$0,00	591 5259 5349 5513,351 5430,267 50 50 50 50 50 50,00	\$92 <u>\$264</u> \$356 \$0 \$430,267 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	594 5269 5363 542 5430,273 50 50 50 50 50,000	\$96 \$275 \$371 \$0 \$430,273 \$0 \$430,273 \$0 \$0 \$0 \$0 \$0 \$0,000	\$280 \$378 \$0 \$430,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
EquiPMENT TATA' VAL & EXECUT VARIAUE AND OWNED BY UTURY OR A UTIMITY A for the Explorement Call Tatal Utility's Installed Equipment Call Anatoriad Utility's Installed Equipment Call Anatoriad Utility's Installed Equipment Call Call Call Tatal Call Tatal Call Call Call Call Anatoriad Utility's Installed Equipment Call Call Call Tatal Call Call Call Call Call Call Call		\$70 \$200 \$270 \$274,677 \$36,967 \$0 \$0 \$0	571 5204 5275 5765,288 5139,962 50 50	\$73 \$208 \$281 \$1,161,585 \$296,292 \$0 \$0 \$0	574 5212 5287 5421,126 5352,969 50 50	\$216 \$292 \$0 \$3552,969 \$0 \$0 \$0	\$77 \$221 \$298 \$0 \$352,969 \$0 \$0 \$0 \$0	\$225 \$304 \$0 \$352,969 \$0 \$0 \$0 \$0	\$80 \$230 \$310 \$0 \$352,969 \$0 \$0 \$0 \$0 \$0 \$0	582 5234 5316 50 5352,969 50 50 50	584 5239 5323 50 5352,969 50 50 50	\$85 \$244 \$329 \$334,830 \$361,065 \$0 \$0 \$0	587 5249 5336 5932,882 5383,620 50 50 50 50	\$89 5254 5342 51,415,966 \$417,855 \$0 \$0 \$0 \$0 \$0	\$91 \$259 \$349 \$513,351 \$430,267 \$0 \$0 \$0 \$0 \$0	\$92 \$264 \$356 \$0 \$430,267 \$0 \$0 \$0 \$0 \$0 \$0	\$04 \$269 \$363 \$42 \$430,273 \$0 \$0 \$0 \$0 \$0	\$96 \$225 \$371 \$0 \$430,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$280 \$378 \$0 \$430,273 \$0 \$0 \$0 \$0
Egyment That Yuk, B DIRECT INSTALLD AND OWNED BY UTILITY OR PA Unity/N Part of Ide Symposian Call Task UTIN/PA Installed Egyment Call Annotael Call (Mark Park) Annotael Call		\$70 \$200 \$270 \$274,677 \$36,967 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$71 \$204 \$275 \$7765,288 \$139,962 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$73 \$208 \$281 \$1,161,585 \$296,292 \$0 \$0 \$0 \$0,00 \$0	\$74 <u>\$212</u> <u>\$287</u> <u>\$421,126</u> <u>\$352,969</u> <u>\$0</u> <u>\$0</u> <u>\$0</u> <u>\$0</u> <u>\$0</u> <u>\$0</u> <u>\$0</u> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> <b>\$0</b> 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Comments from You as a context's sector and a context or sector of the  Unity Pro- ben designed and  Unity Pro- bend an	54,285,012 50 50 52,390,001 51,290,482	570 5200 5270 5274,677 536,967 50 50 50 50 50 50 50 50 50 50	571 5104 5175 5765,288 5139,952 50 50 50 50 50 50 50 50 50 50 50 50 50	\$73 \$108 \$181 \$1,161,585 \$296,192 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	574 5112 5387 5423,266 5352,469 50 50 50 50 50 50 50 50 50 50 50 5556,4051 5156,833 5156,833 5156,833 5156,833	\$216 \$292 \$292 \$30 \$352,969 \$0 \$0 \$0 \$0.00 \$0.00 \$0.00 \$519,872 \$53,985 \$53,985 \$53,985 \$53,985	577 5221 5358 50 50 50 50 50 50 50 50 50 50 5420,640 55420,640 555,014 555,014	\$225 \$304 \$0 \$332,969 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$80 \$220 \$310 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	582 5234 5135 50 50 50 50 50 50 50 50 50 50 50 50 50	544 5229 50 50 50 50 50 50 50 50 50 50 50 50 50	\$85 <u>\$244</u> \$129 \$334,830 \$361,065 50 50 50 50 50 50 50 50 50 5	587 5249 5335 5932,882 5383,620 50 50 50 50 50 50 50 50 50 50 50 50 50	589 5254 5342 51,445,666 5417,855 50 50 50,000 50,000 50,000 500 50,000 500 5	591 5259 5348 5513,351 5480,267 50 50 50 50 50 50 50 50 50 50 50 50 50	5%2 5264 5355 50 5480,267 50 50 50,000 50 50,000 50 50,000 500 50	594 5260 5483 542 5430,273 50 50 50 50 50 50 50 50 50 50	\$96 \$275 \$771 \$0 \$480.273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5280 5378 50 5430,273 50 50 50 50,00 50,00 50,00 560 550,771 560,771 560,771 560,771 560,771
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Egyment That Yes, B CoRECT INSTALLED AND CONNEL BY UTUITY OR PA USING A Yes in the second of the se	54,285,022 50 51,299,051 51,299,422 531,185 49,469,129 54,462,23 54,462,23 54,462,23	570 5274,477 584,977 584,977 584,977 594,977 590 590 590 590 590 591,099 591,099 591,099 591,099 591,099 591,099 591,099 592,000 592,0	571 504 505 5139,982 5139,982 50 50 500 500 500 500 500 500 500 500	573 5205 5205 5205 5205 5205 5205 5205 520	574 5212 5217 5217 5217 5217 5217 520 520 500 500 500 500 500 500	2316 2322 30 3532,000 30 30 30 30 30 30 30 30 30 30 30 30	577 5293 529 535 50 50 50 50 50 50 50 50 50 5	\$225 \$304 \$30 \$32,969 \$0 \$0 \$0 \$0 \$000 \$000 \$000 \$000 \$500\$500	\$80 <u>5220</u> 5310 50 50 50 50 50 50 50 50 50 5	542 5316 50 552,99 50 50 50 50 50 50 50 50 50 50	584 5229 5123 50 50 50 50 50 50 50 50 50 50 50 50 50	585 <u>5244</u> 5329 5334,880 <u>50</u> 50 50 5000 500 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 50	587 5336 5336 5338,82 538,82 538,82 538,82 53,82 50,000 50,0000 50,000 50,000 50,000 50,000 50,000 50,000 50,000	589 5144 5144 5147,855 50 50 50 50 50 50 50 50 50 50 50 50 5	591 5299 5349 50 50 50 500 500 500 500 500	592 5264 5356 50 540,257 50 50 50,000 50,0000 50,000 50,0000 50,0000 50,0000 50,00000	594 3.50 5.60 5.60 5.00 5	596 5275 5377 50 540.273 50 50 50 50.00 50	2300 5377 50 5430,273 50 50 50 50 50 500 500 500 50
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Egginator That Yuku B CoRECT INSTALLED AND CONVEX BY UTUITY OR PA Unity Park You Yuku BY CoRECT INSTALLED AND CONVEX BY UTUITY OR PA Unity Park You Yuku BY CoRECT INSTALLED AND CONVEX BY UTUITY OR PA UTUITY AND UTUITY OF THE INSTALLED AND CONVEX BY UTUITY OR PA Egginator Things You Hand Rod Core Park Installed And Convex BY And Starting Start Bank Bank Bank David David David David Park Bank Bank And Start Bank Bank Bank Bank David David David David David David Park Bank Bank Bank Bank Bank Bank Bank Ban	54,285,022 50 52,299,091 51,299,492 553,185 57,405,433 54,405,729 554,827 554,827 554,827 554,229 55555555555555555555555555555555555	570 5274,477 584,977 584,977 584,977 594,977 590 590 590 590 590 591,099 591,099 591,099 591,099 591,099 591,099 591,099 592,000 592,0	571 504 505 5139,982 5139,982 50 50 50 50 50 50 50 50 50 50 50 50 50	573 5205 5205 5205 5205 5205 5205 5205 520	574 5212 5217 5	2316 2322 30 3532,000 30 30 30 30 30 30 30 30 30 30 30 30	577 5293 529 535 50 50 50 50 50 50 50 50 50 5	\$225 \$304 \$30 \$32,969 \$0 \$0 \$0 \$0 \$000 \$000 \$000 \$000 \$500\$500	\$80 <u>5220</u> 5310 50 50 50 50 50 50 50 50 50 5	542 5316 50 552,99 50 50 50 50 50 50 50 50 50 50	584 5229 5123 50 50 50 50 50 50 50 50 50 50 50 50 50	585 <u>5244</u> 5329 5334,880 <u>50</u> 50 50 500 500 500 500 500 50	587 5336 5336 5338,82 538,82 538,82 538,82 53,82 50,000 50,0000 50,000 50,000 50,000 50,000 50,000 50,000 50,000	589 5144 5144 5147,855 50 50 50 500 500 500 500 500	591 5299 5349 50 50 50 500 500 500 500 500	592 5264 5356 50 540,257 50 50 50,000 50,0000 50,000 50,0000 50,0000 50,0000 50,00000	594 3.50 5.60 5.60 5.00 5	596 5275 5377 50 540.273 50 50 50 50.00 50	2300 5377 50 5430,273 50 50 50 50 50 500 500 500 50

	- User Input																		
PROJECT NAME:	Ameren DR Potential																		
DEMAND RESPONSE PROGRAM NAME:	Com - Plug In Electric Ve	shicle																	
Firm Load Reduction? (Select from drop-down menu) New Program? (Select from drop-down menu)	ND YES																		
Load Shifting Program? (Select from drop down menu) Number of Control Units Per Partcipant	YES																		
If Existing Program - Total Number of Partcipants	201	18																	
Age of Existing Program - Years		Year End				5	6	7	*		10	11	12	13	14	15	16	17	18
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		754	908	1,084	1,390	1,826	2,321	2,876	3,490	4,075	4,903	5,834	6,766	7,525	7,998	8,472	8,946	9,420	9,894
Coincident Peak (CP) Load Per Eligible Customer (kW)	6.03																		
Coincident Peak Load Efficiency Gain (Year 20)	3.7%																		
Participant Incentive (\$/KW-Yr.)	\$0																		
Program Participation Rate (From Market Adoption Curve Tab)		99.6%	98.2%	95.8%	94.4%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%	94.0%
Annual Number of Control Hours	1497																		
Type of Savings Factor (Select from drop-down menu)	Per Participant CP Redu	ction (kW)																	
Program Savings Factor (Percent of CP Load)																			
Per Participant CP Reduction (kW)	0.47																		
LOAD REDUCTION						_				_			_			_		_	_
Number of Program Participants		751	892	1,038	1,312	1,716	2,182	2,703	3,281	3,831	4,609	5,484	6,360	7,074	7,518	7,964	8,409	8,855	9,300
Base Sector CP Demand (kW)		4,534	5,449	6,492	8,307	10,890	13,813	17,081	20,684	24,101	28,937	34,359	39,764	44,132	46,807	49,476	52,133	54,779	57,413
Base Partcipant CP Demand (kW) Coincident Peak Demand Reduction (kW)		4,515 353	5,352 419	6,217 488	7,843 617	10,237 807	12,984 1,025	16,056 1,271	19,443 1,542	22,655 1,800	27,201 2,166	32,298 2,577	37,379 2,989	41,484 3,325	43,999 3,534	46,507 3,743	49,005 3,952	51,492 4,162	53,968 4,371
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction @ Gen (kW)		353 371	419 441	488 513	617 648	807 848	1,025	1,271 1,335	1,542	1,800 1,892	2,166 2,276	2,577 2,709	2,989 3,141	3,325 3,494	3,534 3,713	3,743 3,933	3,952 4,153	4,162 4,373	4,371 4,593
BENEFITS	NPV																		
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$3,820,194	\$30,101	\$55,460	\$75,927	\$97,896	\$130,599	\$169,323	\$214,008	\$264,891	\$315,478	\$387,172	\$469,903	\$555,871	\$630,592	\$683,634	\$738,632	\$795,557	\$854,464	\$915,408
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	751	141	146	274	404	465	522	577	550	778	875	876	713	445	446	446	446	446
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA																			
Utility/PA Per Unit Equipment Cost		\$252	\$257	\$262	\$267	\$273	\$278	\$284	\$289	\$295	\$301	\$307	\$313	\$320	\$326	\$333	\$339	\$346	\$353
Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$48 \$300	\$49 \$306	\$50 \$312	\$51 \$318	\$52 \$325	\$53 \$331	\$54 \$338	\$55 \$345	\$56 \$351	\$57 \$359	\$59 \$366	\$60 \$373	\$61 \$380	\$62 \$388	\$63 \$396	\$65 \$404	\$66 \$412	\$67 \$420
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost	\$2,034,677	\$225,263	\$43.148	\$45.669	5318	\$131.218	\$154,119	\$176,256	\$345	\$193,289	\$279.049	\$300.037	\$326,789	\$380 \$271,452	\$388	\$176.372	\$404	\$412 \$183,498	\$187,167
Amortized Utilitity/PA Installed Equipment Cost	\$2,045,255	\$19,322	\$23,023	\$26,940	\$34,426	\$45,682	\$58,901	\$74,019	\$91,079	\$107,658	\$131,594	\$159,045	\$187,075	\$210,358	\$225,159	\$240,287	\$255,718	\$271,457	\$287,511
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT Participant Share of Installation Cost Per Unit - Equipment			50	50	50	50	50					50		50				50	50
Participant Share of Installation Cost Per Unit - Equipment Partrinant Share Installation Cost Par Linit - Labor		50 50	50	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 50	50 50
Total Participant Share of Per Unit Installed Equipment Cost	_	50	50	50	50	50	50	50	50	50	50	50	50	50	50	30	50	50	50
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Participant Equipment Costs	60	50 50	50 50	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	50 50	50 50	50 50	\$0 \$0	50 50	\$0 \$0	50 50	\$0 \$0	50 50
Non-Equipment Participant Incentives (\$/kW-Yr.)	50	50	50	50	50	50	50	50	50 50	90 50	50	50	50	50	50	50	50 50	50	50
Total Non-Equipment Program Incentive Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Implementation Admin		\$215,034	\$75,874	\$77,760	\$88,357	\$99,497	\$105,992	\$112,345	\$118,838	\$119,086	\$139,662	\$150,322	\$153,406	\$142,728	\$122,404	\$124,934	\$127,433	\$129,982	\$132,581
Marketing Evaluation																			
Evaluation Fixed Program Costs	\$1,424,749	\$215,034	\$75,874	\$77,760	\$88,357	\$99,497	\$105,992	\$112,345	\$118,838	\$119,086	\$139,662	\$150,322	\$153,406	\$142,728	\$122,404	\$124,934	\$127,433	\$129,982	\$132,581
Central Controller Software Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Central Controller Hardware Cost		\$0																	
Central Controller Costs	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0
TOTAL UTILITY COSTS (No Amortization) TOTAL UTILITY COSTS (Amortized Variable Equipment Costs)	\$3,459,426 \$3,470,004	\$440,297 \$234,356	\$119,022 \$98,897	\$123,428 \$104,700	\$175,638 \$122,783	\$230,715 \$145.179	\$260,111 \$164.893	\$288,601 \$186,364	\$317,731 \$209.917	\$312,375 \$226,744	\$418,711 \$271,256	\$470,359 \$309,366	\$480,195 \$340.481	\$414,180 \$353.086	\$294,953 \$347,562	\$301,306 \$365,221	\$307,332 \$383,151	\$313,479 \$401,439	\$319,749 \$420,092
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization)	\$3,470,004 \$3,459,426	\$2\$4,356 \$440,297	\$98,897 \$119,022	\$104,700 \$123,428	\$122,783 \$175,638	\$230,715	\$164,893 \$260,111	\$186,364 \$288,601	\$209,917 \$317,731	\$312,375	\$418,711	\$309,366 \$470,359	\$480,195	\$353,086 \$414,180	\$347,562 \$294,953	\$365,221 \$301,306	\$383,151 \$307,332	\$401,439 \$313,479	\$420,092 \$319,749
TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$3,470,004	\$234,356	\$98,897	\$104,700	\$122,783	\$145,179	\$164,893	\$186,364	\$209,917	\$226,744	\$271,256	\$309,366	\$340,481	\$353,086	\$347,562	\$365,221	\$383,151	\$401,439	\$420,092
UTILITY COST TEST																			
Total Benefits	\$3,820,194																		
Total Costs UCT Benefit Cost Ratio	\$3,459,426 1.10																		
TOTAL RESOURCE COST TEST																			
Total Benefits	\$3,820,194																		
Total Costs	\$3,459,426																		
TRC Benefit Cost Ratio	1.10																		

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind Capacity Bidding																		
From Load Reduction? [Select from drop down memo) New Program? [Select from drop down memo) Land Shifting Program? [Select from drop down memo) Nominer of Costrol Units for Participant II (Estimo program. Total Number of Participants Age of Estiming Program. Team	NO YES NO 1 201	.8 Year End	,	3		5	6	7	8		10	11	12	13	14	15	16	17	18
item	Carriella Planeta	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		6	30	95	163	218	263	308	352	395	440	440	440	440	440	440	441	441	441
Coincident Peak (CP) Load Per Eligible Customer (kW)	614.54																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.09%	3.62%	5.06%	6.37%	7.64%	8.91%	10.17%	11.35%	12.58%	13.71%	14.80%	15.82%	16.79%	17.73%	18.73%	18.78%	18.78%	18.77%
Participant Incentive (\$/kW-Yr.)	\$50.00 Calculate or Enter																		
Program Participation Rate (From Market Adoption Curve Tab)	Partcipation Rates	0.6%	2.4%	5.6%	7.4%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
Annual Number of Control Hours (If load shifting program, enter 0) Type of Savings Factor (Select from drop-down menu)	80 Percent of CP Load																		
Program Savings Factor (Percent of CP Load) Per Participant CP Reduction (kW)	19.5%																		
LOAD REPUCTION																			
Number of Program Participants		0	1	5	12	17	21	25	28	32	35	35	35	35	35	35	35	35	35
Base Sector CP Demand (kW) Base Partcipant CP Demand (kW)		3,532 20	17,984 432	55,297 3,097	93,882 6,985	123,704 9,896	147,239 11,779	169,907 13,593	191,552 15,324	212,408 16,993	233,424 18,674	230,588 18,447	227,489 18,199	224,958 17,997	222,585 17,807	219,964 17,597	220,049 17,604	220,143 17,611	220,254 17,620
Base Partopant CP Demand (kW) Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction(P Gen (kW)		20 4 4	432 84 88	3,097 604 635	6,985 1,362 1,431	9,896 1,930 2.028	11,779 2,297 2,414	13,593 2,651 2,785	15,324 2,988 3.140	16,993 3,314 3,482	18,674 3,641 3.827	18,447 3,597 3,780	18,199 3,549 3,729	17,997 3,509 3,688	17,807 3,472 3,649	17,597 3,431 3,606	17,604 3,433 3,607	17,611 3,434 3,609	17,620 3,436 3.611
BENEFITS TOTAL UTILITY AVDIDED COSTS (BENEFITS)	NPV \$4,949,139	\$323	\$11,401	\$96,090	\$221,722	\$320,888	\$388,909	\$458,787	\$527,859	\$597,252	\$672,387	\$678,034	\$680,855	\$687,171	\$693,879	\$702,837	\$718,297	\$733,825	\$749,486
COSTS Newly installed Units (includes replacement of units at end of useful life)	NPV	0	1	5	7	5	4	4	4	4	4	0	0	0	0	0	0	0	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		\$1,462	\$1.491	\$1,521	\$1,552	\$1,583	\$1.614	\$1.647	\$1.680	\$1,713	\$1.748	\$1,782	\$1,818	\$1,854	\$1.892	\$1,929	\$1.968	\$2.007	\$2,048
Utility/PA Per Unit Labor Cost	_	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0
Total Utility/PA Installed Equipment Cost Per Unit Variable Utility/PA Installed Equipment Cost Amortized Utility/PA Installed Equipment Cost	\$43,120 \$45,605	\$1,462 \$48 \$4	\$1,491 \$1,038 \$93	\$1,521 \$6,965 \$691	\$1,552 \$10,601 \$1,600	\$1,583 \$8,384 \$2,319	\$1,614 \$5,822 \$2,818	\$1,647 \$5,896 \$3,324	\$1,680 \$5,890 \$3,829	\$1,713 \$5,998 \$4,344	\$1,748 \$6,267 \$4,881	\$1,782 \$25 \$4,884	\$1,818 -\$94 \$4,875	\$1,854 \$26 \$4,878	\$1,892 \$54 \$4,882	\$1,929 \$27 \$4,885	\$1,968 \$67 \$4,890	\$2,007 \$29 \$4,893	\$2,048 \$29 \$4,895
EQUIPMENT THAT WILL BE INSTALLED AND OWNED BY THE PARTICIPANT	242,003	~	444	3031	32,000	44,849	32,010	33,324	33,023	34,344	34,001	34,004	<i>24,813</i>	<i>(</i> <b>1</b> ),070	(A) AND	<i>74,003</i>	74,600	34,013	34,425
Participant Share of Installation Cost Per Unit - Equipment Participant Share Installation Cost Per Unit - Labor			50 50	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 50	50 50	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 50	\$0 50	\$0 \$0
Total Participant Share of Per Unit Installed Equipment Cost	_	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
Total Participant Installed Equipment Costs	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Participant Incentive - Utility/PA Contribution to Participant Equipment Cost Total Utility/PA Contribution to Partcipant Equipment Costs	\$0	\$0.00	\$0 \$0.00	\$0 \$0.00	50 50.00	\$0 \$0.00	\$0 \$0.00	\$0.00											
Non-Equipment Participant Incentives (\$/kW-Yr.) Incentives (\$/Wh)		\$50 \$10	\$50 \$212	\$50 \$1 523	\$50 \$3.435	\$50 \$4.867	\$50 \$5.793	\$50 \$6.685	\$50 \$7 536	\$50 \$8.357	\$50 \$9.184	\$50 \$9.072	\$50 \$8.950	\$50 \$8.851	\$50 \$8 757	\$50 \$8.654	\$50 58 658	\$50 \$8.661	\$50 \$8.666
Total Non-Equipment Program Incentive Costs	\$1,453,902	\$212.41	\$4,634.59	\$33,250.89	\$75,001.22	\$106,263.77	\$126,480.80	\$145,953.11	\$164,546.28	\$182,461.71	\$200,515.04	\$198,078.55	\$195,416.39	\$193,242.80	\$191,204.41	\$188,952.30	\$189,025.80	\$189,105.13	\$189,202.09
Implementation, Admin, Marketing		\$132,516	\$33,617	\$36,982	\$39,315	\$38,994	\$38,530	\$39,281	\$40,010	\$40,806	\$41,690	\$39,622	\$40,402	\$41,222	\$42,059	\$42,888	\$43,763	\$44,620	\$45,513
Fixed Program Costs Central Controller Software Costs	\$556,033	\$132,516 \$2,500	\$33,617 \$2,550	\$36,982 \$2,601	\$39,315 \$2,653	\$38,994 \$2,705	\$38,530 \$2,760	\$39,281 \$2,815	\$40,010	\$40,806 \$2,929	\$41,690 \$2,988	\$39,622 \$3,047	\$40,402 \$3,108	\$41,222 \$3,171	\$42,059 \$3,234	\$42,888 \$3,299	\$43,763 \$3,365	\$44,620 \$3,432	\$45,513 \$3,501
Central Controller Software Costs Central Controller Hardware Cost Central Controller Costs	\$53.185	\$2,500 \$12,500 \$15,000	\$2,550	\$2,601 \$2,601	\$2,653	\$2,706	\$2,760	\$2,815 \$2,815	\$2,872	\$2,929 \$2.929	\$2,988 \$2,988	\$3,047 \$12,500 \$15,547	\$3,108 \$3.108	\$3,171	\$3,234 \$3,234	\$3,299	\$3,365	\$3,432 \$3,432	\$3,501
			91,000				44,.00	10,000									44,444	44,134	
TOTAL UTILITY COSTS (No Amortization)	\$2,106,241	\$147,776	\$41,839	\$79,799	\$127,570	\$156,348	\$173,592	\$193,946	\$213,318	\$232,194	\$251,460	\$253,273	\$238,833	\$237,662	\$236,551	\$235,166	\$236,221	\$237,187	\$238,245
TOTAL UTILITY COSTS (Amortized Variable Equipment Costs) TOTAL PROGRAM COSTS - TRC (No Amortization) TOTAL PROGRAM COSTS - TRC (Amortized Installed Equipment Cost)	\$2,108,726 \$652,338 \$647,770	\$147,732 \$147,564 \$147,520	\$40,895 \$37,205 \$36,260	\$73,524 \$46,548 \$40,273	\$118,569 \$52,569 \$43,568	\$150,283 \$50,084 \$44,019	\$170,589 \$47,112 \$44,108	\$191,374 \$47,993 \$45,421	\$211,257 \$48,771 \$46,711	\$230,540 \$49,732 \$48,079	\$250,074 \$50,945 \$49,559	\$258,131 \$55,194 \$60,053	\$243,803 \$43,417 \$48,386	\$242,513 \$44,419 \$49,271	\$241,380 \$45,347 \$50,175	\$240,023 \$46,214 \$51.071	\$241,044 \$47,195 \$52,018	\$242,051 \$48,081 \$52,945	\$243,111 \$49,042 \$53,909
UTILITY COST TEST	3047,770	42.17,920	\$10,200		\$13,100	,10,015		, 10,411		\$ 2,075		210,033			130,173		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,	\$33,000
Total Benefits	\$4,949,139																		
Total Costs UTC Benefit Cost Ratio	\$2,106,241 2.35																		
TOTAL RESOURCE COST TEST																			
Total Benefits	\$4,949,139																		
Total Costs TRC Benefit Cost Ratio	\$652,338 7.59																		

	= User Input																		
PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind CPP with Enabling Te	ch																	
Firm Load Reduction? (Salect from drop-down menu) New Yorgam? (Salect from drop-down menu) Load Shifting Program (Salect from drop down menu) Nember of Control Units for Participant If Existing Program - Total Homber of Participants Age of Existing Program - Years	ND YES YES 1.654 2014	8 Year End 1	2	3		5	6	7	8	9	10	11	12	13	14	15	16	17	18
Item	Calculate Engine	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Eligible Customers (From the Eligible Customers Tab)		49	98	146	193	240	287	335	382	430	477	477	477	477	477	477	476	476	476
Coincident Peak (CP) Load Per Eligible Customer (kW)	106.35																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.09%	3.62%	5.06%	6.37%	7.64%	8.91%	10.17%	11.35%	12.58%	13.71%	14.80%	15.82%	16.79%	17.73%	18.73%	18.78%	18.78%	18.77%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate (From Market Adoption Curve Tab)		97.9%	90.8%	78.2%	71.1%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%	69.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	21.5%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants		48	89	114	137	166	198	231	264	297	329	329	329	329	329	329	328	328	328
Base Sector CP Demand (kW) Base Sector CP Demand (kW)		5,102	10,045	14,742 11.524	19,219	23,574	27,803	32,004	36,014	39,978	43,772	43,223	42,704	42,212 29,126	41,733	41,225	41,115 28.369	41,116	41,120
Coincident Peak Demand Reduction (kW) Coincident Peak Demand Reduction (kW)		4,993 1,072 1,127	9,124 1,959 2,058	2,474 2,600	2,935 3,085	3,492	4,119 4,328	4,741 4,982	5,335 5,607	5,922 6,224	6,485 6,814	6,403 6,729	6,326 6,648	6,253 6,572	6,182 6,497	6,107 6,418	6,091 6,401	6,091 6,401	6,092 6,401
BENEFITS TOTAL UTILITY AVOIDED COSTS (BENEFITS)	NPV \$9,124,071	\$86,713	\$259,162	\$384,987	\$465,890	\$565,358	\$680,130	\$798,537	\$916,573	\$1,037,804	\$1,159,027	\$1,167,371	\$1,176,437	\$1,186,139	\$1,196,132	\$1,205,198	\$1,226,011	\$1,250,558	\$1,275,702
COSTS	NPV																		
Newly installed Units (Includes replacement of units at end of useful life) EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost		79 \$616	68 5629	42 \$641	38 \$654	47 \$667	54 \$681	55 \$694	54 \$708	55 \$722	54 \$737	79 \$751	68 \$766	42 \$782	38 \$797	47 \$813	54 \$830	55 \$846	54 \$863
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost Total Utility/PA Installed Equipment Cost Per Unit		\$616 \$250 \$866	\$629 \$255 \$884	\$641 \$260 \$901	\$654 \$265 \$919	\$667 \$271 \$938	\$681 \$276 \$957	\$694 \$282 \$976	\$708 \$287 \$995	\$722 \$293 \$1,015	\$737 \$299 \$1,035	\$751 \$305 \$1,056	\$766 \$311 \$1,077	\$782 \$317 \$1,099	\$797 \$323 \$1,121	\$813 \$330 \$1,143	\$830 \$336 \$1,166	\$846 \$343 \$1,189	\$863 \$350 \$1,213
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost	\$638,763 \$675,811	\$616 \$250	\$629 \$255	\$641 \$260	\$654 \$265	\$667 \$271	\$681 \$276	\$694 \$282	\$708 \$287	\$722 \$293	\$737 \$299	\$751 \$305	\$766 \$311	\$782 \$317	\$797 \$323	\$813 \$330	\$830 \$336	\$846 \$343	\$863 \$350
EQUIPMENT THAT WILL BE ORECTLY INSTALLED AND OWNED BY UTILITY OR PA UTISITY/AP or time Labor Cost UTISITY/AP or time Labor Cost Cast UTISITY/AP or time Labor Cost Variable ObstryMa stabilities Equipment Cost Manchael UTISITY/AP UTIABLE DATA DOWNED BY THE PARTICIPATE Participant State of UTILIZED AND OWNED BY THE PARTICIPATE PARTICIPANT AND AND OWNED BY THE PARTICIPANT AND OWNED BY THE PARTICIPANT PARTICIPANT AND AND OWNED BY THE PARTICIPANT PARTICIPANT AND AND OWNED BY THE PARTICIPANT AND O		\$616 \$250 \$866 \$68,719	\$629 \$255 \$884 \$60,021 \$17,326 \$0	\$641 \$260 \$301 \$37,449 \$22,366 \$0	\$654 \$265 \$919 \$35,238 \$27,109 \$0	\$667 \$271 \$938 \$43,899 \$33,017 \$0	\$681 \$276 \$957 \$51,312 \$39,923 \$0	\$694 \$282 \$976 \$53,452 \$47,116	\$708 \$287 \$995 \$53,385 \$54,301 \$0	\$722 \$293 \$1,015 \$55,612 \$61,786	\$737 \$299 \$1,035 \$55,542 \$69,261 \$0	\$751 \$305 \$1,056 \$83,768 \$71,286 \$0	\$766 \$311 \$1,077 \$73,166 \$73,055 \$0	\$782 \$317 \$1,099 \$45,650 \$74,159 \$0	\$797 \$323 \$1,121 \$42,955 \$75,197 \$0	\$813 \$330 \$1,143 \$53,513 \$76,491 \$0	\$830 \$336 \$1,166 \$62,549 \$78,004 \$0	\$846 \$343 \$1,189 \$65,158 \$79,579 \$0	\$863 \$350 \$1,213 \$65,076 \$81,152 \$0
Counterf that York at Description (FIRSTALD AND OWNED BY UTILITY DR FA This This This This Counter (FIRSTALD AND OWNED BY UTILITY DR FA This Counterf (FIRSTALD AND OWNED BY UTILITY AND OWNED BY UTILITY DR FA Handhard Counterf (FIRSTALD AND OWNED BY UTILITY A		\$616 \$250 \$866 \$68,719 \$9,248	\$629 \$255 \$884 \$60,021 \$17,326 \$0 \$0 \$0 \$0	\$641 \$260 \$301 \$37,449 \$22,366 \$0 \$0 \$0 \$0	\$654 \$265 \$919 \$35,238 \$27,109 \$0 \$0 \$0 \$0	\$667 \$271 \$938 \$43,899 \$33,017 \$0 \$0 \$0 \$0	\$681 \$276 \$957 \$51,312 \$30,923 \$0 \$0 \$0 \$0 \$0	\$694 \$282 \$976 \$53,452 \$47,116 \$0 \$0 \$0 \$0	\$708 \$287 \$995 \$53,385 \$54,301 \$0 \$0 \$0 \$0	\$722 \$293 \$1,015 \$55,612 \$61,786 \$0 \$0 \$0 \$0	\$737 \$299 \$1,035 \$55,542 \$69,261 \$0 \$0 \$0 \$0	\$751 \$305 \$1,056 \$83,768 \$71,286 \$0 \$0 \$0 \$0	\$766 \$311 \$1,077 \$73,166 \$73,055 \$0 \$0 \$0 \$0	\$782 \$317 \$1,099 \$45,650 \$74,159 \$0 \$0 \$0 \$0	\$797 \$323 \$1,121 \$42,955 \$75,197 \$0 \$0 \$0 \$0	\$813 \$330 \$1,143 \$53,513 \$76,491 \$0 \$0 \$0 \$0	\$830 \$336 \$1,166 \$62,549 \$78,004 \$0 \$0 \$0 \$0	\$846 \$343 \$3,189 \$65,158 \$79,579 \$0 \$0 \$0 \$0	\$863 5350 51,213 565,076 \$81,152 50 50 50
Equination that will be described and owned or Unit's de A Unity AP to its disclosement Cate Unity AP to its disclosed Cate Unity AP to its disclosed Cate Anomale Cate Cate Anomale Cate		\$616 \$550 \$866 \$68,719 \$9,248 \$0 \$0 \$0 \$0	\$629 \$155 \$884 \$60,021 \$17,326 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0,000	5641 5560 5901 537,449 522,366 50 50 50 50 50 50	5654 5265 5919 5335,238 527,109 50 50 50 50 50 50 50 50 50 50 50	5667 5271 5938 543,809 533,017 50 50 50 50 50,00	5681 5276 5957 551,312 539,923 50 50 50 50 50 50.00	\$694 \$282 \$976 \$53,452 \$47,116 \$0 \$0 \$0 \$0 \$0 \$00 \$0.00	\$708 \$287 \$995 \$53,385 \$54,301 \$0 \$0 \$0 \$0 \$0,00	\$722 \$193 \$1,015 \$55,612 \$61,786 \$0 \$0 \$0 \$0 \$0,00	\$737 \$299 \$1,035 \$55,542 \$69,261 \$0 \$0 \$0 \$0 \$0 \$0,00	5751 5305 51,056 583,768 571,286 50 50 50 50 50 50	\$766 \$311 \$1,077 \$73,166 \$73,055 \$0 \$0 \$0 \$0 \$0,00	\$782 \$317 \$1,099 \$45,650 \$74,159 \$0 \$0 \$0 \$0 \$0,00	5797 5323 51,221 542,955 575,197 50 50 50 50 50,00	\$813 \$330 \$1,143 \$53,513 \$76,491 \$0 \$0 \$0 \$0 \$0 \$00 \$0,000	\$830 \$336 \$1,166 \$62,549 \$78,004 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0,00	\$846 \$343 \$1,189 \$65,158 \$79,579 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$863 \$350 \$1,213 \$65,076 \$81,152 \$0 \$0 \$0 \$0 \$0 \$0
Counterf that York at Description (FIRSTALD AND OWNED BY UTILITY DR FA This This This This Counter (FIRSTALD AND OWNED BY UTILITY DR FA This Counterf (FIRSTALD AND OWNED BY UTILITY AND OWNED BY UTILITY DR FA Handhard Counterf (FIRSTALD AND OWNED BY UTILITY A		\$616 \$250 \$866 \$68,719 \$9,248	\$629 \$255 \$884 \$60,021 \$17,326 \$0 \$0 \$0 \$0	\$641 \$260 \$301 \$37,449 \$22,366 \$0 \$0 \$0 \$0	\$654 \$265 \$919 \$35,238 \$27,109 \$0 \$0 \$0 \$0	\$667 \$271 \$938 \$43,899 \$33,017 \$0 \$0 \$0 \$0 \$0	\$681 \$276 \$957 \$51,312 \$30,923 \$0 \$0 \$0 \$0 \$0	\$694 \$282 \$976 \$53,452 \$47,116 \$0 \$0 \$0 \$0	\$708 \$287 \$995 \$53,385 \$54,301 \$0 \$0 \$0 \$0	\$722 \$293 \$1,015 \$55,612 \$61,786 \$0 \$0 \$0 \$0	\$737 \$299 \$1,035 \$55,542 \$69,261 \$0 \$0 \$0 \$0	\$751 \$305 \$1,056 \$83,768 \$71,286 \$0 \$0 \$0 \$0	\$766 \$311 \$1,077 \$73,166 \$73,055 \$0 \$0 \$0 \$0	\$782 \$317 \$1,099 \$45,650 \$74,159 \$0 \$0 \$0 \$0	\$797 \$323 \$1,121 \$42,955 \$75,197 \$0 \$0 \$0 \$0	\$813 \$330 \$1,143 \$53,513 \$76,491 \$0 \$0 \$0 \$0	\$830 \$336 \$1,166 \$62,549 \$78,004 \$0 \$0 \$0 \$0	\$846 \$343 \$3,189 \$65,158 \$79,579 \$0 \$0 \$0 \$0	\$863 5350 51,213 565,076 \$81,152 50 50 50
Counterf that' wak at leastics INSTAULD AND OWNED BY UTILITY OR FA UTILITY AND THE COUNTER AND OWNED BY UTILITY OR FA UTILITY AND THE COUNTER AND OWNED BY UTILITY OR FA Tall UTILITY AND THE Experiment Count Annument of Utility Annument & Experiment Count Counter Utility Annument & Experiment Count Counter Utility Annument of Utility Annument Annument of Utility Annument Facility Annument Facility Annument Facility Annument Counter Utility Annument Counter Counter Counter Of Utility Annument Facility Annument Fa		\$616 \$550 \$866 \$68,719 \$9,248 \$9,248 \$0 \$0	5629 5355 5884 560,021 517,326 50 50 50 50 50 50 50 50	5641 5260 5901 537,449 522,366 50 50 50 50 50 50 50 50	5654 5265 5919 \$35,238 \$27,109 50 50 50 50 50 50 50	5667 5271 5938 543,899 533,017 50 50 50 50 50 50	5681 5276 5957 551,312 539,923 50 50 50 50 50 50	5694 5282 5976 553,452 547,116 50 50 50 50 50 50 50	\$708 \$287 \$995 \$53,385 \$54,301 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5722 5293 51,015 555,612 561,786 50 50 50 50 50 50	5737 5299 51,035 555,542 569,261 50 50 50 50 50 50 50	5751 5305 51,056 53,768 571,286 50 50 50 50 50 50 50	5766 <u>\$3111</u> 51,077 <b>\$73,166</b> <b>\$73,065</b> 50 <u>50</u> 50 50 50 50 50 50 50 50 50 50	\$782 \$317 \$1,099 \$45,650 \$74,159 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	5797 5323 51,121 542,965 575,197 50 50 50 50 50 50	\$813 \$330 \$1,143 \$53,513 \$76,491 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$830 <u>\$336</u> 51,166 562,549 \$78,004 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$846 \$343 \$1,189 \$65,158 \$79,579 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$863 <u>\$150</u> \$1,213 \$65,076 \$81,152 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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Egyinteen trust was a constrained from the second of the s	5675,811 50 50 50 50 5621,962	55156 55565 5565 5568,7139 58,248 50 50 50 50 50 50 50 50 50 50 50 50 50	5229 5255 5884 560,021 517,226 50 50 50 50 50 50 50 50 50 50 50 50 50	5441 5260 5001 537,449 522,366 50 50 50 50 50 50 50 50 50 50 50 50 50	5554 5265 5119 535,238 527,109 50 50 50 50 50 50 50 50 50 50 50 50 50	5667 5273 5333 543,809 533,007 50 50 50 50 50 50 50 50 50 50 50 50 50	5681 5276 5957 553,312 519,923 50 50 50 50 50 50 50 50 50 50 50 50 50	5684 5282 5775 553,452 547,115 50 50 50 50 50 50 50 50 50 50 50 50 50	5708 5287 5995 553,385 554,301 50 50 50 50 50 50 50 50 50 50 50 50 50	5722 5293 51,015 555,612 561,785 50 50 50 50 50 50 50 50 50 50 50 50 50	5737 5299 51,035 555,542 569,261 50 50 50 50 50 50 50 50 50 50 50 50 50	5751 51055 583,768 571,286 571,286 50 50 50 50 50 50 50 50 50 50 50 50 50	5765 5111 51,077 573,165 573,655 50 50 50 50 50 50 50 50 50	5782 5317 51,099 545,650 574,159 50 50 50 50 50 50 50 50 50 50 50 50 50	5797 5123 51,521 542,855 575,197 50 50 50 50 50 50 50 50 50 50 50 50 50	513 5130 51,143 533,513 576,491 50 50 50 50,000 50 50 50 50 50 50 50 50 50	\$330 \$336 \$1,166 \$62,549 \$78,004 \$0 \$0 \$0,000 \$0,000\$0,000 \$0,0000 \$0,000 \$0,0000 \$0,0000 \$0,000\$	5446 53143 51,189 545,558 579,579 50 50 50 50 50 50 50 50 50 50 50 50 50	\$653 \$150 \$1,2,13 \$565,076 \$81,152 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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Inguineers in the result of the second secon	5075.411 50 50 50 50 50 50 50 50 50 50	50 5250 5566 567,739 50,248 50,248 50,000 50,00	50 5255 5384 560,031 577,56 50 50 50 50 50 50 50 50 50 50	54 5260 5501 537,449 52,349 50 50 50 50,000 50,0000 50,000 50,000 50	500 5265 5275 53738 527,109 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50	501 502 503 503 503 503 503 503 503 503	500 5282 53976 547,155 50 50 50 50 50 50 50 50 50	570 570 5905 553,85 553,85 553,85 553,85 553,85 553,85 50,000 50,00000000	522 5233 51,015 535,612 531,015 532,726 532,726 500 500 500 500 500 500 500 50	577 5299 51,015 50,542 50 50 50 50 50 50 50 50 50 50	575 5105 51,056 52,056 52,056 50 50 50 50 50 50 50 50 50 50	5766 5311 53,077 57,1,66 57,1,66 57,1,66 57,1,66 50,00 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,000 90 50,00000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000000	72 53.079 54.090 59 50 50 50 50 50 50 50 50 50 50	577 5123 51,121 53,121 53,125 53,125 50 50 50 50 50 50 50 50 50 5	30 50 50 50 50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	546 5343 51,169 50,159 50,50 50 50 50 50 50 50 50 50 50	50 51,213 50,076 51,213 50,076 53,123 50 50 50 50 50 50 50 50 50 50
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PROJECT NAME: DEMAND RESPONSE PROGRAM NAME:	Ameren DR Potential Ind Critical Peak Pricing v	w/n Fnahling Tarh																	
Firm Laad Rekartisof, Select from drop down menu) New Program [Select from drop down menu) Louis Shifter, Program (Select from drop down menu) Number of Control Units Ner Partospant II Esiste program - Total Number of Partospants Age of Existing Program - Yoars	ND YES YES 1 2011	8 Year End																	
Item		1 2019	2 2020	3 2021	4 2022	5 2023	6 2024	7 2025	8 2026	9 2027	10 2028	11 2029	12 2030	13 2031	14 2032	15 2033	16 2034	17 2035	18 2036
Eligible Customers (From the Eligible Customers Tab)		362	726	1,102	1,476	1,840	2,199	2,564	2,929	3,294	3,660	3,659	3,657	3,656	3,654	3,653	3,652	3,651	3,650
Coincident Peak (CP) Load Per Eligible Customer (kW)	106.35																		
Coincident Peak Load Efficiency Gain (Year 20)	0%	2.09%	3.62%	5.06%	6.37%	7.64%	8.91%	10.17%	11.35%	12.58%	13.71%	14.80%	15.82%	16.79%	17.73%	18.73%	18.78%	18.78%	18.77%
Participant Incentive (\$/kW-Yr.)																			
Program Participation Rate - Max Achievable (From Market Adoption Curve Tab)		97.4%	89.1%	73.9%	65.6%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%	63.0%
Annual Number of Control Hours (If load shifting program, enter 0)	60																		
Type of Savings Factor (Select from drop-down menu)	Percent of CP Load																		
Program Savings Factor (Percent of CP Load)	11.3%																		
Per Participant CP Reduction (kW)																			
LOAD REDUCTION Number of Program Participants Base Sector CP Demand (WV)		353 37.701	647 74,412	815 111,258	967 146.948	1,159 180.771	1,385 213,026	1,615 244,932	1,846 276,178	2,075	2,306 335.849	2,305 331.543	2,304	2,303 323.527	2,302 319,681	2,301 315.701	2,300 315.404	2,300 315.325	2,299 315.271
Base Partcipant CP Demand (KW) Chierident Reak Demand Reduction (KW)		36,738	66,267 7.488	82,271	96,331 10,885	113,886	134,207	154,307	173,992	192,954 21 804	211,585	208,872	206,254	203,822	201,399	198,892 22,475	198,705	198,655	198,621
Coincident Peak Demand Reduction @ Gen (kW) BENEFITS	NPV	4,363	7,869	9,769	11,439	13,524	15,937	18,324	20,661	22,913	25,125	24,803	24,492	24,203	23,916	23,618	23,596	23,590	23,586
TOTAL UTILITY AVOIDED COSTS (BENEFITS)	\$33,694,615	\$335,784	\$990,716	\$1,446,569	\$1,727,657	\$2,083,352	\$2,504,190	\$2,936,842	\$3,377,716	\$3,820,743	\$4,273,452	\$4,303,041	\$4,334,086	\$4,368,634	\$4,403,031	\$4,435,187	\$4,519,638	\$4,608,868	\$4,700,247
COSTS	NPV																		
Newly installed Units (includes replacement of units at end of useful life)		353	294	168					230	230	230	0	0	0	0			Û.	0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA					153	192	226	230					-		-	0	60	-	
		353 \$0 \$0	204 50 50	168 50 50	153 50 50	192 \$0 \$0	\$0 \$0 \$0	230 \$0 \$0	230 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50	50 50 50	50 50	50 50 50	50 50 50	50 50 50	50 50 50	\$0 \$0 \$0
EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA Utility/PA Per Unit Equipment Cost Utility/PA Per Unit Labor Cost	\$0 \$0	\$0 \$0	\$0 \$0	50 50	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	50 50	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	50 50
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EQUIPMENT THAT WILL BE DIRECTLY INSTALLED AND OWNED BY UTILITY OR PA UTIRY/IPA Per Unit Equipment Cost Utility/IPA Per Unit Equipment Cost Per Unit Total Utility/IPA Installed Equipment Cost Auroritaed Utility/IPA Installed Equipment Cost	50 50	\$0 \$0 \$0	\$0 \$0 \$0	50 50 50 50 50	50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50 50	\$0 \$0 \$0	\$0 \$0 \$0 \$0	50 50 50 50 50	\$0 \$0 \$0 \$0	50 50 50 50 50	50 50 50 50 50	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0
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## **Compliance References**

4 CSR 240-22.050(4)(D)	1-30
4 CSR 240-22.050(4)(D)1	
4 CSR 240-22.050(4)(D)4	
4 CSR 240-22.050(4)(D)5	1-30
4 CSR 240-22.050(4)(D)5A-5D	1-30
4 CSR 240-22.050(4)(E)	1-30
4 CSR 240-22.050(5)	