



SPP 2017 RESOURCE ADEQUACY REPORT

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By Resource Adequacy Coordination

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION	COMMENTS

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OVERVIEW AND ASSUMPTIONS

SPP submitted Tariff revisions to implement a Resource Adequacy Requirement (RAR) on March 3, 2017 ([ER17-1098](#)).

Attachment AA requires a Load Responsible Entity (LRE) to maintain capacity required to meet its load and planning reserve obligations. No later than June 15th of each year, a final report on the status of each LRE's compliance with the RAR for the upcoming Summer Season will be posted on the SPP website.

This report will assess resource adequacy across the SPP Balancing Authority (BA) for the 2017 Summer Season, and provide a five-year outlook of the BA and LREs, beginning with the 2018 Summer Season. The data for this report originates from the LRE and Generator Owner (GO) submitted Workbooks.

The reserve margin calculation is an industry planning metric used to examine future resource adequacy. This deterministic approach examines the forecasted Net Peak Demand (load) and the availability of existing resources to serve the forecasted Net Peak Demand for the current Summer Season and a five-year outlook.

Net Peak Demand projections, or load forecasts, are provided by each LRE. Load forecasts include peak hourly load, or Peak Demand, for the Summer Season of each year. Peak Demand projections are based on normal weather (50/50 distribution) and provided on a non-coincident basis.

DEFINITIONS

Firm Capacity

The projected accredited capacity of an LRE's commercially operable generating units, or portions of generating units, adjusted to reflect purchases and sales of accredited capacity with another party, and that is supported by firm transmission service to the LRE's load, or is Deliverable Capacity to meet the PRM portion of the Resource Adequacy Requirement.

Firm Power

Power sales and purchases deliverable with firm transmission service where the seller assumes the obligation to serve the purchaser's load with capacity, energy, and planning reserves that must be continuously available in a manner comparable to power delivered to native load customers.

Load Responsible Entity

An Asset Owner represented in the Integrated Marketplace with a registered physical asset that is either a) load or b) an Export Interchange Transaction as specified in Section 5.4 of Attachment AA.

Net Peak Demand

The forecasted Peak Demand less the a) projected impacts of demand response programs and behind-the-meter generation that are controllable and dispatchable and not registered as a Resource and b) contract amount of Firm Power purchased under agreements in effect as of the time of the forecasted Peak Demand, plus the contract amount of Firm Power sold to others in effect as of the time of the forecasted Peak Demand

Peak Demand

The highest demand including transmission losses for energy measured over a one clock hour period

Planning Reserve Margin

The Planning Reserve Margin ("PRM") shall be twelve percent (12%). If an LRE's Firm Capacity is comprised of at least seventy-five percent (75%) hydro-based generation, then such PRM shall be nine point eight nine percent (9.89%).

Resource Adequacy Requirement

The Resource Adequacy Requirement is equal to the LRE's Summer Season Net Peak Demand plus its Summer Season Net Peak Demand multiplied by the PRM.

Summer Season

June 1st through September 30th of each year.

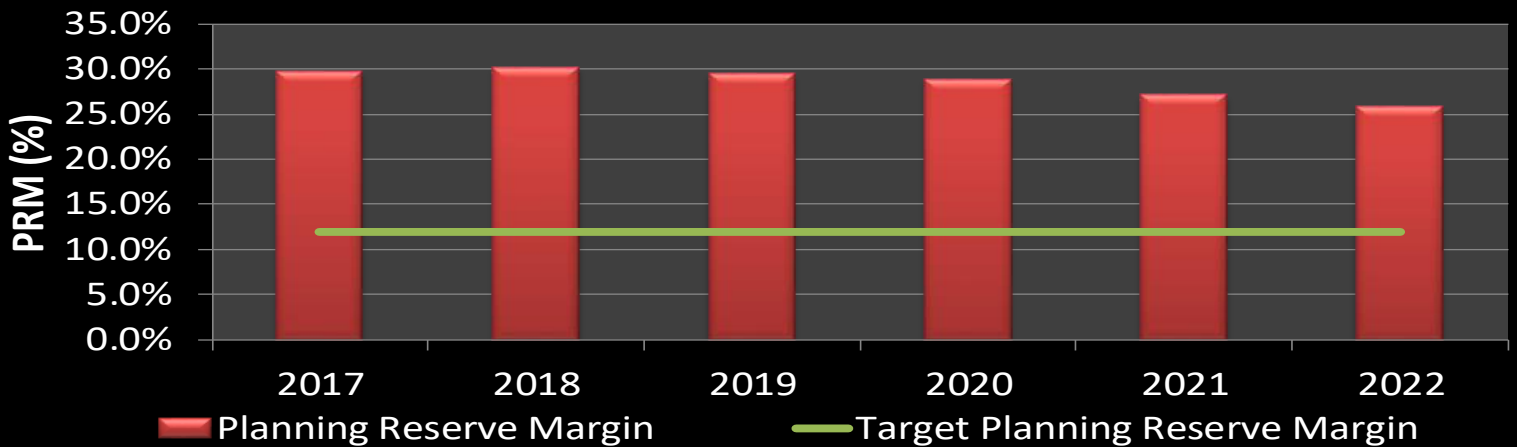
SPP HIGHLIGHTS

The Southwest Power Pool (SPP) BA covers 575,000 square miles and encompasses all or parts of Arkansas, Iowa, Kansas, Louisiana, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas and Wyoming. The SPP footprint has approximately 61,000 miles of transmission lines, 756 generating plants, and 4,811 transmission-class substations, and it serves a population of 18 million people.



- SPP's PRM target is 12%
- The six year assessment period starting in 2017 based on Firm Capacity is projected to be 29.7% and decreases to 25.9% by 2022
- Six year (2017-2022) peak demand average annual growth rate is 1.1%

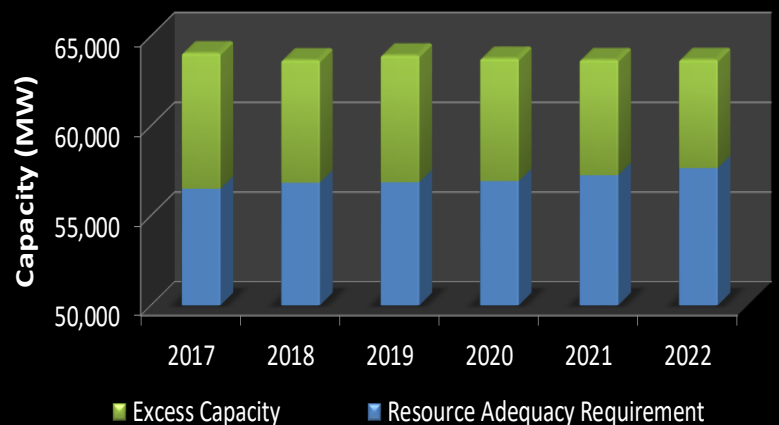
Planning Reserve Margin Summary



Demand Summary



Firm Capacity Summary

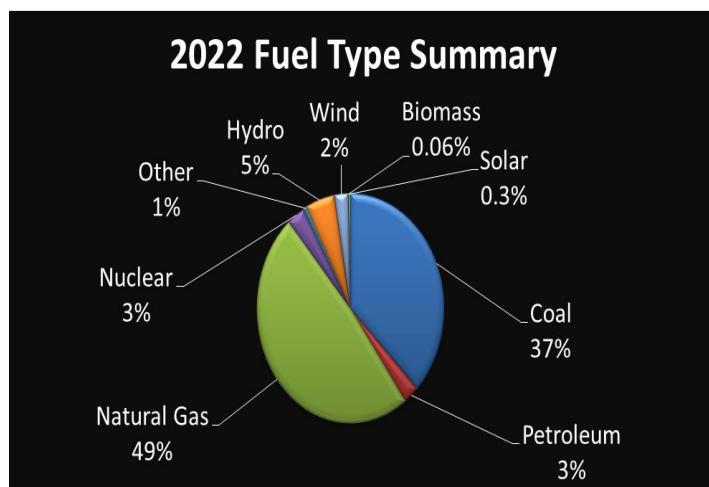
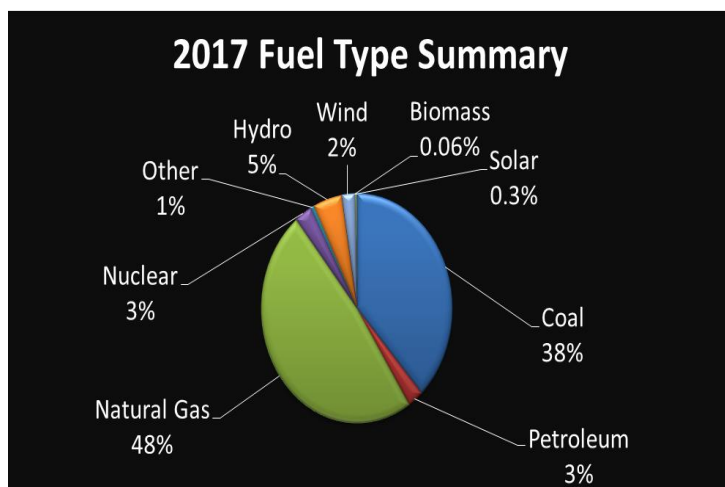


SPP CURRENT AND FIVE-YEAR OUTLOOK

Demand Summary	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	52,665	53,065	53,116	53,158	53,440	53,779
Controllable and Dispatchable DR - Available	663	708	736	744	730	725
Controllable and Dispatchable DEG - Available	164	160	161	142	139	141
Firm Power Purchases	1,655	1,655	1,553	1,551	1,551	1,551
Firm Power Sales	260	200	100	99	100	115
Net Peak Demand (Forecasted)	50,444	50,743	50,767	50,821	51,121	51,477
Firm Capacity (Units - MW)	2017	2018	2019	2020	2021	2022
Other Capacity Adjustments - Additions	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	397	41	41	5	5	5
Confirmed Retirements	16	388	1,170	1,379	1,469	1,469
Unconfirmed Retirements	0	83	236	236	236	478
Scheduled Outages	520	566	45	0	0	0
Transmission Limitations	14	0	0	0	0	0
Firm Capacity Purchases	277	277	277	279	279	179
Firm Capacity Sales	674	549	934	934	534	534
Firm Capacity Resources	65,390	65,815	64,613	64,288	64,142	64,081
Firm Capacity Resources (Other)	0	0	0	0	0	0
Firm Capacity (e.g. 65,390+674+277-14-520-397)	65,410	66,035	65,738	65,496	64,951	64,790
Planning Reserve Margin (e.g. 65,390-50,444/65,390)	29.7%	30.1%	29.5%	28.9%	27.1%	25.9%
Resource Adequacy Requirement (e.g. 50,444 *12%)	56,497	56,832	56,859	56,919	57,256	57,655
SPP Excess Capacity	8,913	9,203	8,879	8,577	7,695	7,135

FUEL TYPE SUMMARY

The Firm Capacity is based on the available LRE and GO excess generation for the Summer Season. The amount of confirmed retirements increases from 16 MW to 1,469 MW by 2022, with coal accounting for 61% of the retirements and natural gas for the remaining 39%.



Firm Capacity Resources	Unit	2017	2018	2019	2020	2021	2022
Biomass	MW	39	39	39	39	39	39
Coal	MW	24,976	25,095	24,007	23,911	23,911	23,911
Hydro	MW	3,159	3,159	3,159	3,159	3,159	3,159
Natural Gas	MW	31,540	31,741	31,632	31,374	31,228	31,167
Nuclear	MW	1,938	2,005	2,005	2,005	2,005	2,005
Other	MW	366	366	366	366	366	366
Petroleum	MW	1,726	1,726	1,707	1,707	1,707	1,707
Solar	MW	194	194	194	194	194	194
Wind	MW	1,452	1,490	1,503	1,533	1,533	1,533
Firm Capacity Resources	MW	65,390	65,815	64,613	64,288	64,142	64,081

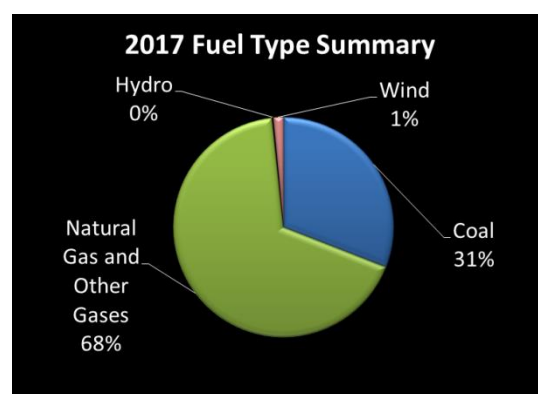
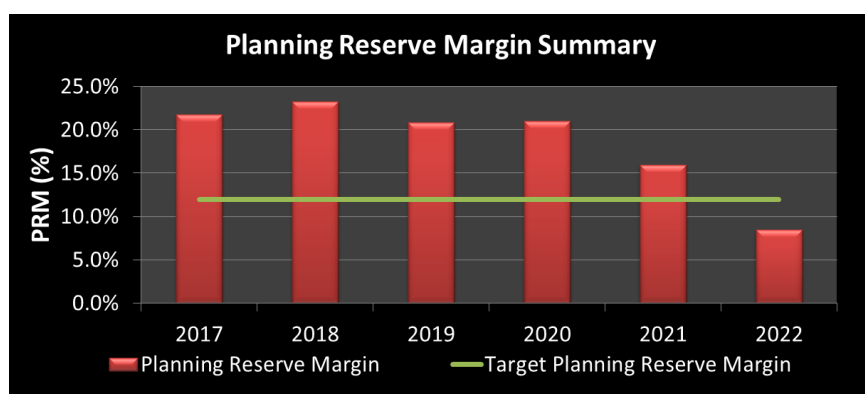
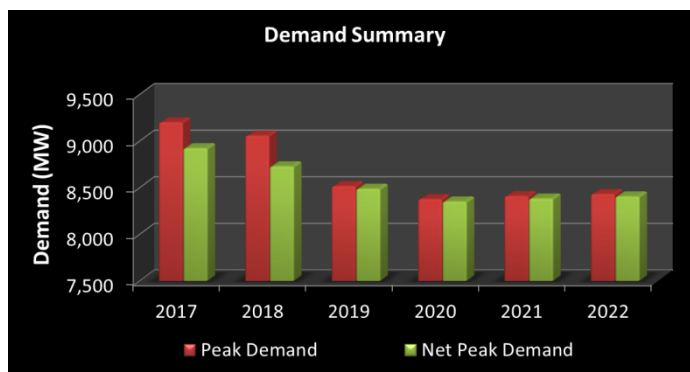
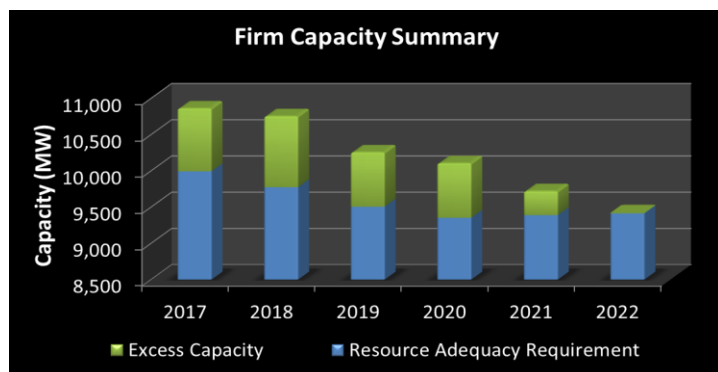
LOAD RESPONSIBLE ENTITIES

American Electric Power
Arkansas Electric Cooperative Corporation
Basin Electric Power Cooperative
Carthage Water & Electric Plant (*Did not meet the RAR for the 2017 Summer Season*)
City of Beatrice Nebraska
City of Chanute
City of Fremont
City of Grand Island Nebraska Utilities
City of Hastings Nebraska Utilities
City of Malden Board of Public Works
City of Neligh
City of Piggott Municipal Light & Water
City of Poplar Bluff Municipal Utilities
City of Superior Nebraska
City of West Plains Board of Public Works
City Utilities of Springfield
Empire District Electric Company
ETEC/NTEC/Tex-La
Falls City Utilities
Golden Spread Electric Cooperative
Grand River Dam Authority
Greater Missouri Operations Company (KCP&L)
Harlan Municipal Utilities
Heartland Consumers Power District
Independence Power & Light
Kansas City Board of Public Utilities
Kansas City Power & Light
Kansas Municipal Energy Agency – EMP1
Kansas Municipal Energy Agency – EMP2
Kansas Municipal Energy Agency – EMP3
Kansas Municipal Energy Agency – Eudora
Kansas Municipal Energy Agency – GC
Kansas Municipal Energy Agency – Meade
Kansas Power Pool
Kennett Board of Public Works
Lincoln Electric System
MidAmerican Energy Company
Midwest Energy
Missouri Joint Municipal Electric Utility Commission
Missouri River Energy Services
Municipal Energy Agency of Nebraska

Southwest Power Pool, Inc.

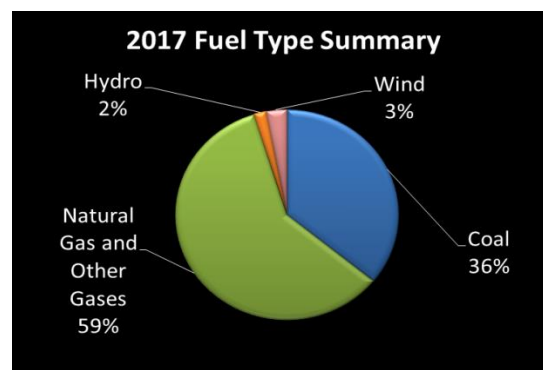
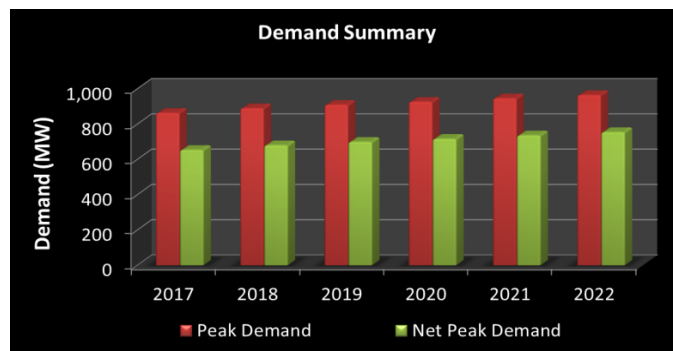
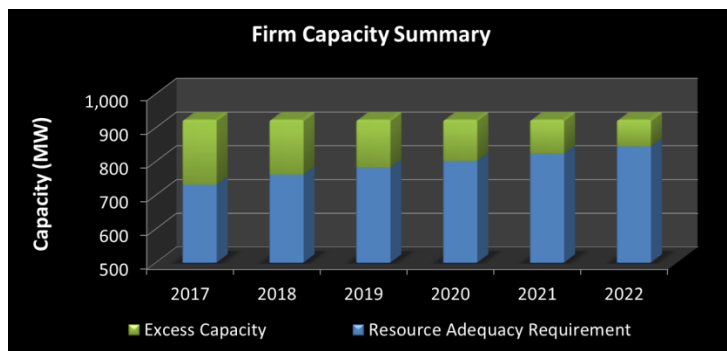
Nebraska City Utilities
Nebraska Public Power District
Northwestern Energy
NSP Energy Marketing (*Not included due to all load being served with Firm Power contracts*)
Oklahoma Gas & Electric Company
Oklahoma Municipal Power Authority
Omaha Public Power District
Paragould Light and Water Commission (*Not included due to all load being served with Firm Power contracts*)
People's Electric Cooperative
South Sioux City Nebraska
Southwestern Power Administration
Southwestern Public Service Company
Sunflower Electric Power Corporation
West Texas Municipals
Westar Energy
Western Area Power Administration
Western Farmers Energy Services

AMERICAN ELECTRIC POWER



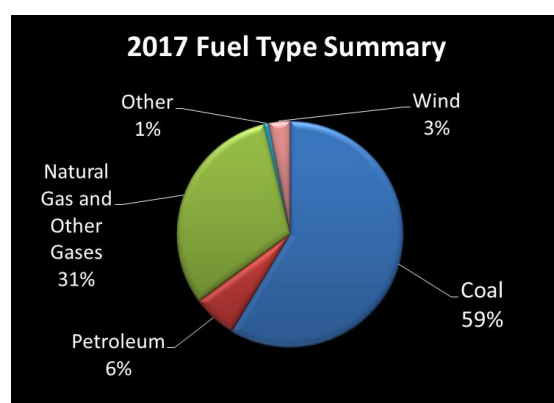
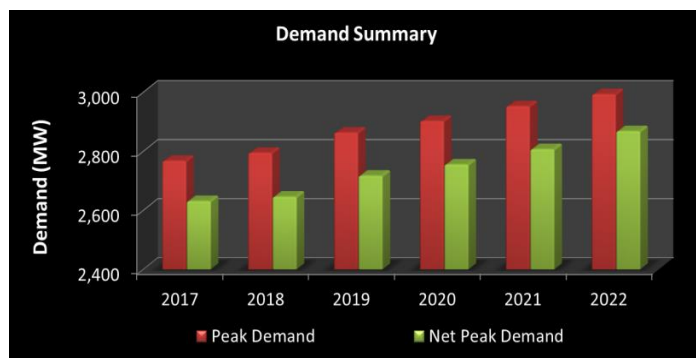
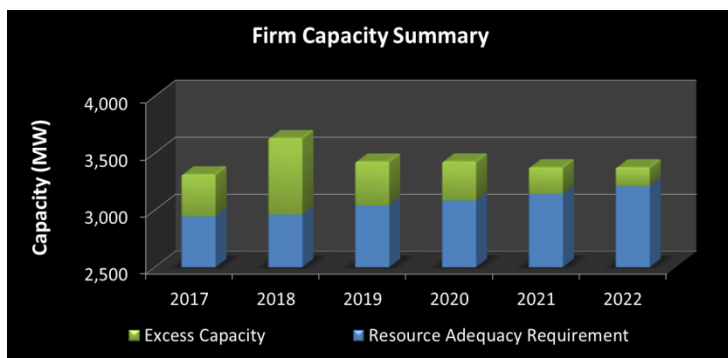
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	8,954	8,954	8,954	8,808	8,752	8,681	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	1,945	1,837	1,339	1,299	969	439	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	36	36	36	0	0	0	
Firm Capacity	MW	10,863	10,755	10,257	10,107	9,721	9,120	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	9,201	9,058	8,516	8,378	8,410	8,432	
Firm Power Purchases	MW	213	213	111	109	109	109	
Firm Power Sales	MW	48	0	200	200	200	200	
Controllable and Dispatchable DR - Available	MW	112	117	117	117	117	117	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	8,924	8,729	8,489	8,352	8,384	8,406	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	34	65	100	127	150	162	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	9,995	9,776	9,507	9,354	9,390	9,415	
Excess Capacity	MW	868	979	750	753	331	0	
Deficient Capacity	MW	0	0	0	0	0	295	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
Planning Reserve Margin	%	21.7%	23.2%	20.8%	21.0%	15.9%	8.5%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

ARKANSAS ELECTRIC COOPERATIVE CORPORATION



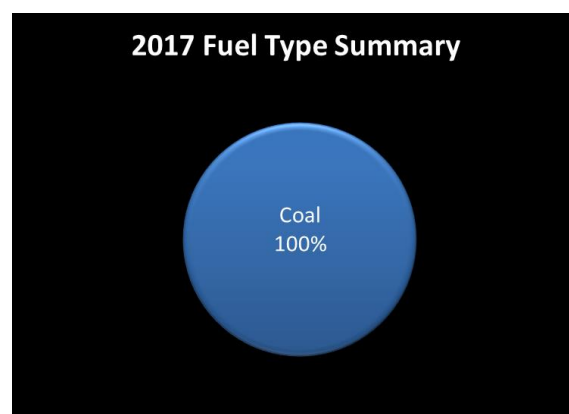
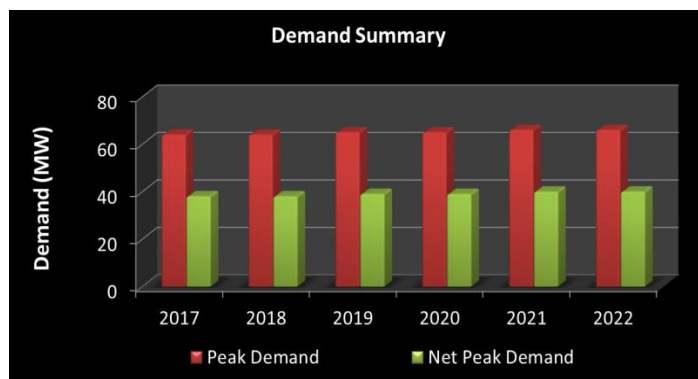
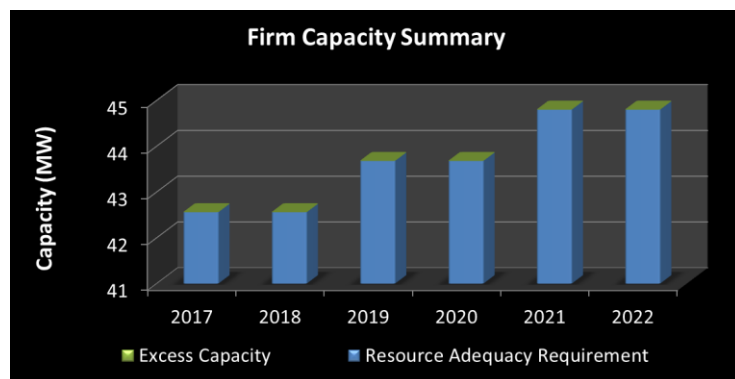
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	726	726	726	726	726	726	726
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	197	197	197	197	197	197	197
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	923	923	923	923	923	923	923
Demand Summary								
Peak Demand (Forecasted)	MW	864	890	909	926	946	965	
Firm Power Purchases	MW	189	189	189	189	189	189	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	17	17	17	17	17	17	
Other Controllable and Dispatchable DEG - Available	MW	4	4	4	4	4	4	
Net Peak Demand (Forecasted)	MW	654	680	699	716	736	755	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	86	89	91	93	95	96	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	732	762	783	802	824	845	
Excess Capacity	MW	191	162	140	121	99	78	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

BASIN ELECTRIC POWER COOPERATIVE



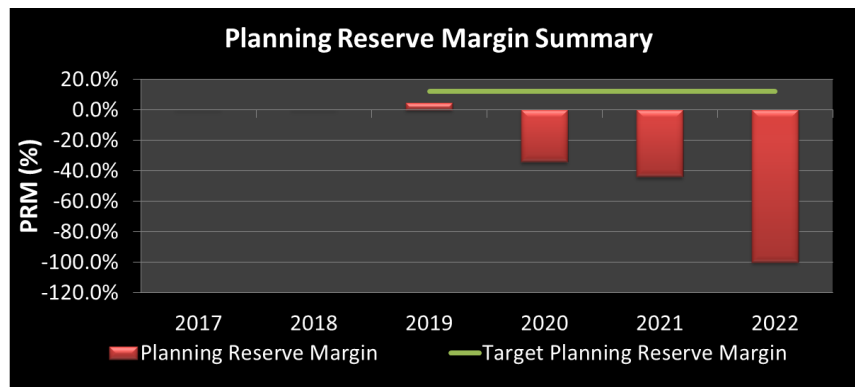
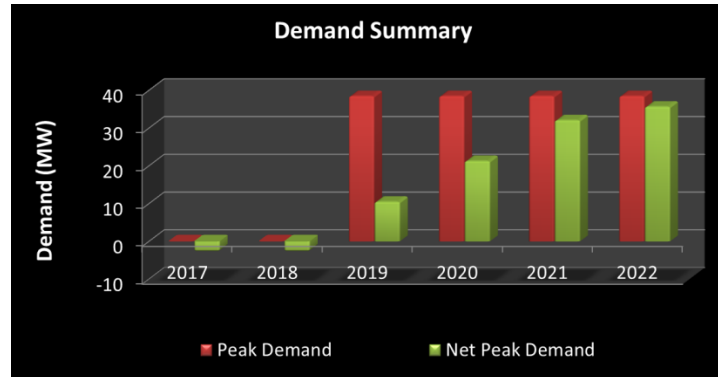
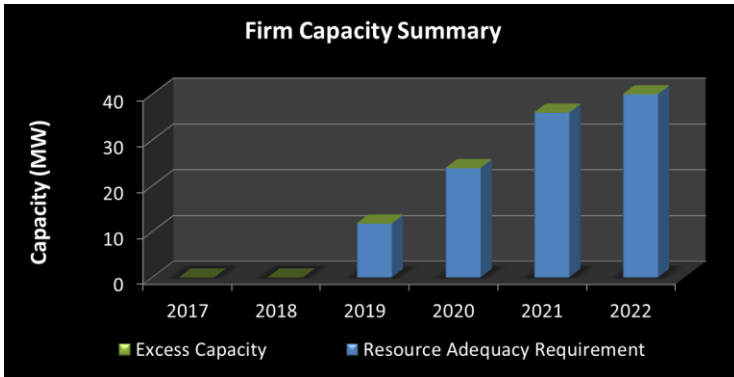
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	3,250	3,416	3,207	3,208	3,208	3,208	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	66	218	221	221	170	170	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	3,316	3,634	3,428	3,429	3,378	3,378	
Demand Summary								
Peak Demand (Forecasted)	MW	2,768	2,795	2,863	2,903	2,953	2,993	
Firm Power Purchases	MW	240	240	240	240	240	240	
Firm Power Sales	MW	110	98	100	99	100	115	
Controllable and Dispatchable DR - Available	MW	6	6	6	6	6	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	2,631	2,646	2,717	2,756	2,807	2,868	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	2,947	2,964	3,043	3,086	3,144	3,212	
Excess Capacity	MW	369	670	384	343	234	165	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%						
Planning Reserve Margin	%	26.0%	37.3%	26.1%	24.4%	20.3%	17.8%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

CARTHAGE WATER & ELECTRIC PLANT



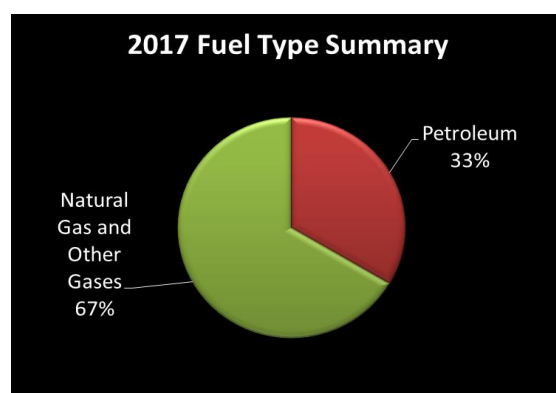
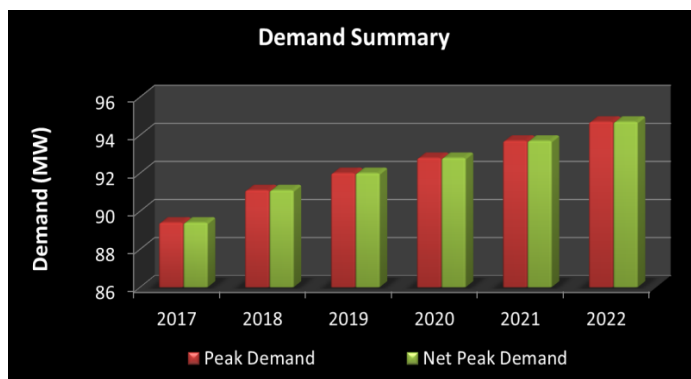
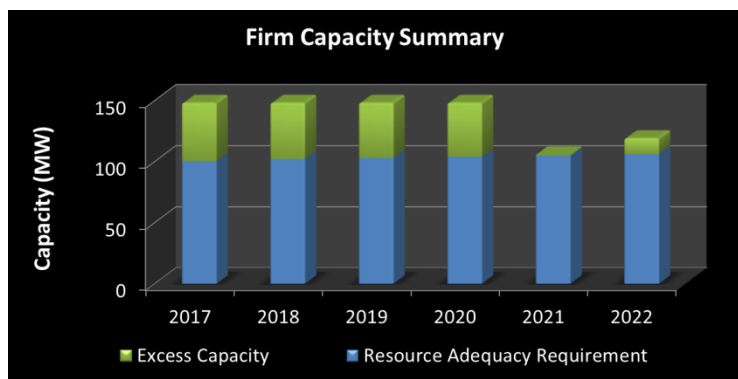
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	0	0	0	0	0	0	0
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	32	32	32	32	32	32	32
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	32	32	32	32	32	32	32
Demand Summary								
Peak Demand (Forecasted)	MW	64	64	65	65	66	66	66
Firm Power Purchases	MW	7	7	7	7	7	7	7
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	19	19	19	19	19	19	19
Net Peak Demand (Forecasted)	MW	38	38	39	39	40	40	40
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	43	43	44	44	45	45	45
Excess Capacity	MW	0	0	0	0	0	0	0
Deficient Capacity	MW	11	11	12	12	13	13	13
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	-15.8%	-15.8%	-17.9%	-17.9%	-20.0%	-20.0%	-20.0%
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY OF BEATRICE NEBRASKA



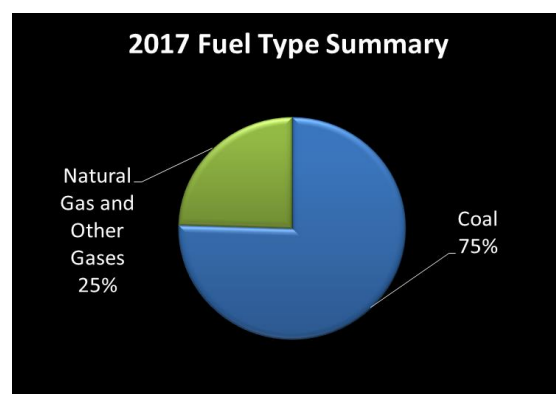
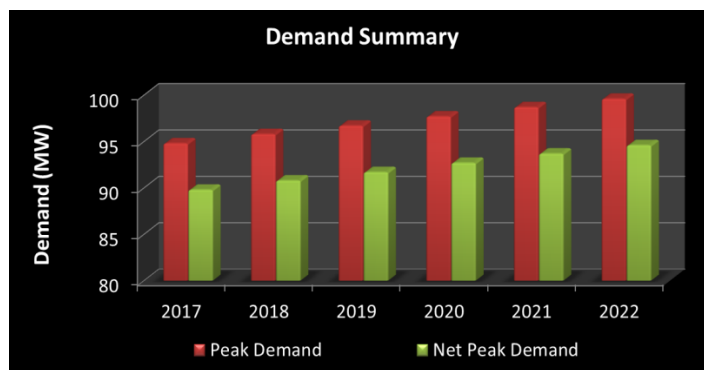
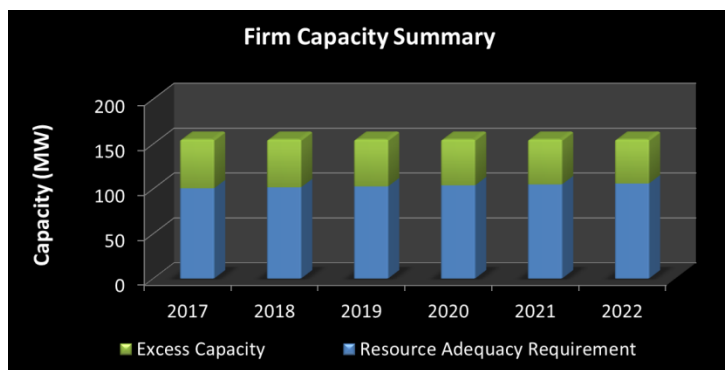
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	0	0	0	0	0	0	0
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	11	14	18	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	0	0	11	14	18	0	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	0	0	39	39	39	39	
Firm Power Purchases	MW	3	3	28	17	6	3	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	-3	-3	11	21	32	36	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	---	---	12	24	36	40	
Excess Capacity	MW	---	---	0	0	0	0	
Deficient Capacity	MW	---	---	1	10	18	40	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
SPP Target Planning Reserve Margin	%	---	---	12.0%	12.0%	12.0%	12.0%	

CITY OF CHANUTE



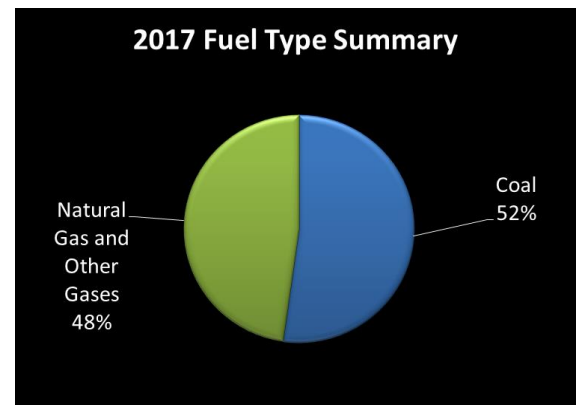
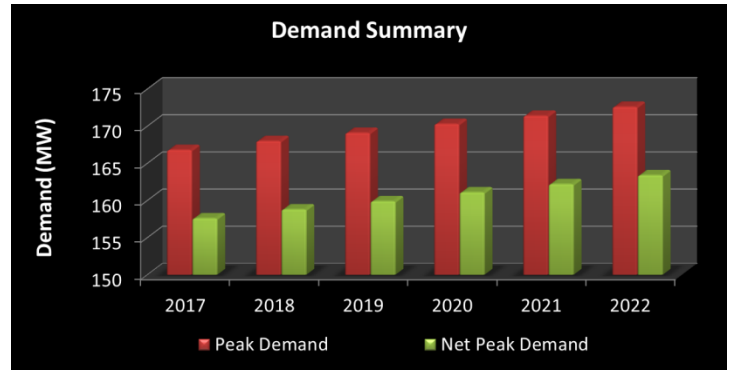
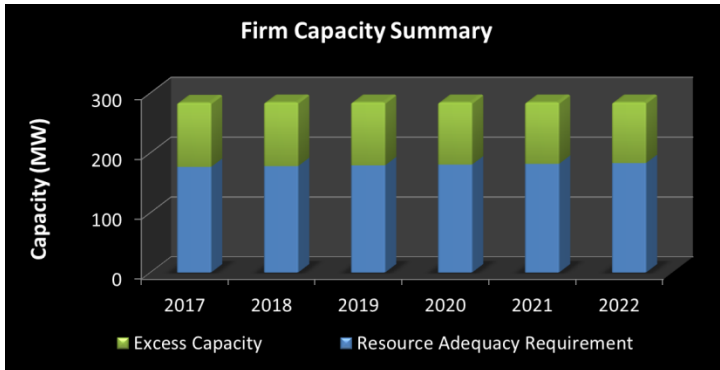
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	116	116	116	116	116	116	116
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	49	49	49	49	4	4	4
Firm Capacity Sales	MW	16	16	16	16	16	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	148	148	148	148	103	119	
Demand Summary								
Peak Demand (Forecasted)	MW	89	91	92	93	94	95	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	89	91	92	93	94	95	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	100	102	103	104	105	106	
Excess Capacity	MW	48	46	45	44	0	13	
Deficient Capacity	MW	0	0	0	0	2	0	
Planning Reserve Margin								
Planning Reserve Margin	%	65.8%	62.7%	61.1%	59.7%	10.1%	25.9%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

CITY OF FREMONT



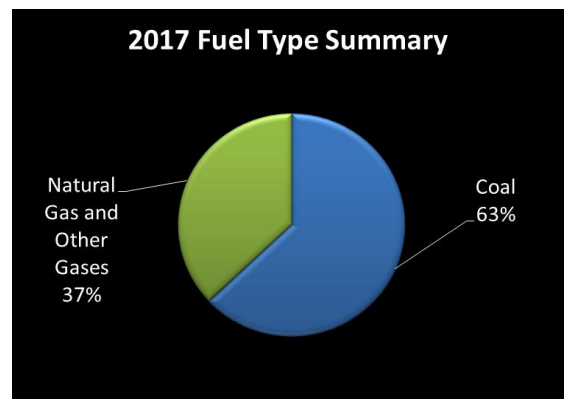
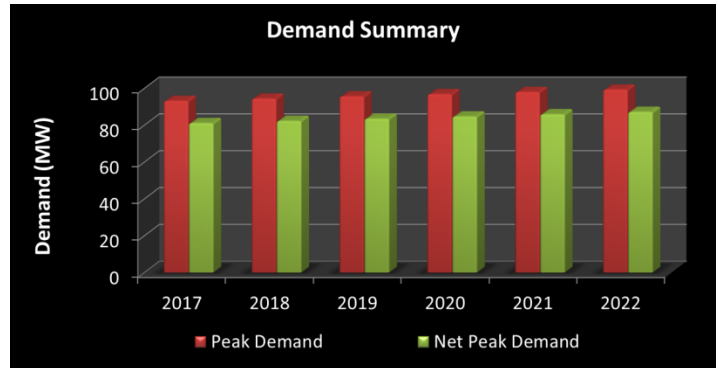
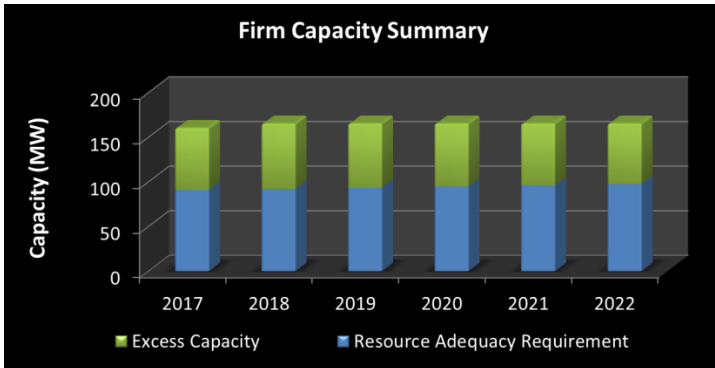
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	155	155	155	155	155	155	155
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	155	155	155	155	155	155	155
Demand Summary								
Peak Demand (Forecasted)	MW	95	96	97	98	99	100	
Firm Power Purchases	MW	5	5	5	5	5	5	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	90	91	92	93	94	95	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	101	102	103	104	105	106	
Excess Capacity	MW	54	53	52	51	50	49	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	72.6%	70.7%	69.0%	67.2%	65.4%	63.8%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

CITY OF GRAND ISLAND NEBRASKA UTILITIES



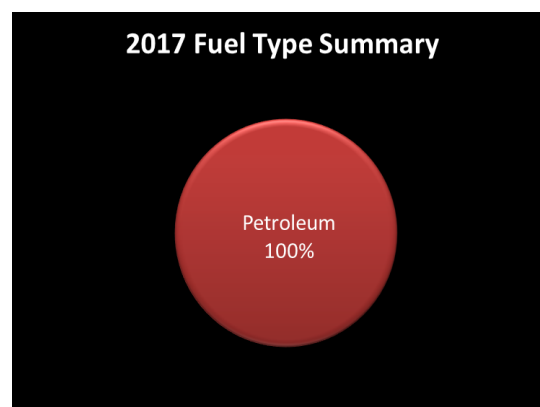
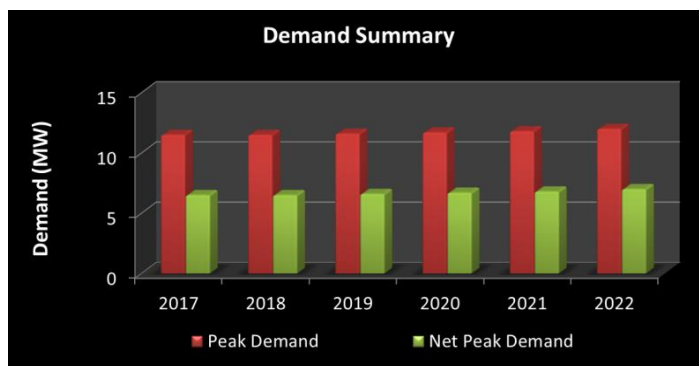
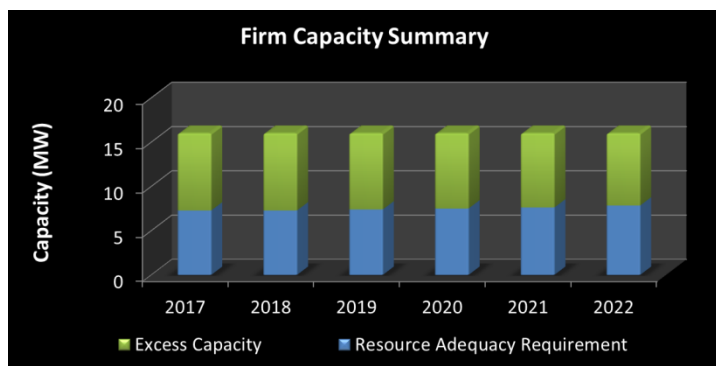
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	251	251	251	251	251	251	251
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	33	34	34	34	34	34	34
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	284	284	284	284	284	284	284
Demand Summary								
Peak Demand (Forecasted)	MW	167	168	169	170	171	173	
Firm Power Purchases	MW	9	9	9	9	9	9	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	158	159	160	161	162	163	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	177	178	179	180	182	183	
Excess Capacity	MW	107	107	105	104	103	101	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
	%	80.1%	79.1%	77.9%	76.5%	75.3%	74.1%	

CITY OF HASTINGS NEBRASKA UTILITIES



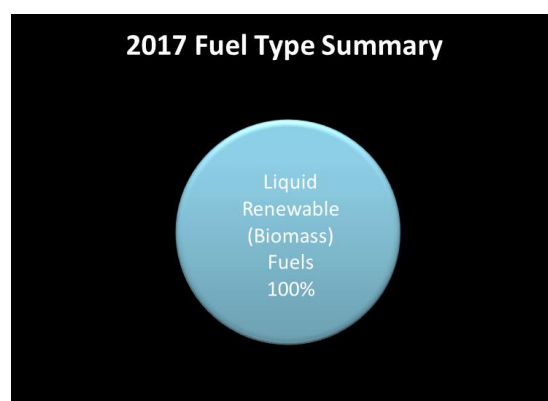
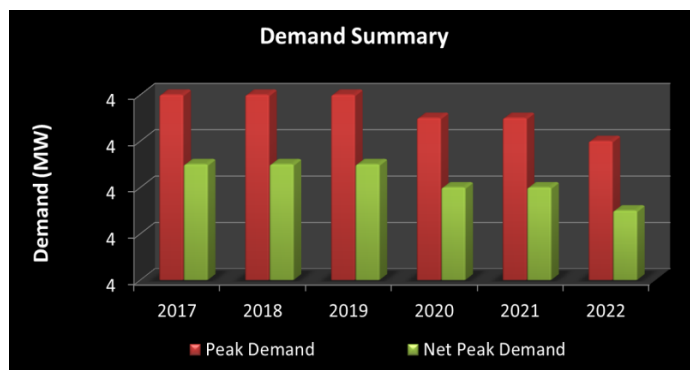
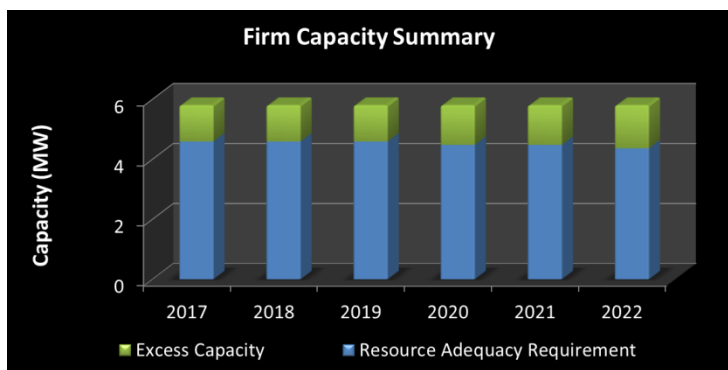
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	160	165	165	165	165	165	165
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	160	165	165	165	165	165	165
Demand Summary								
Peak Demand (Forecasted)	MW	93	94	96	97	98	99	
Firm Power Purchases	MW	12	12	12	12	12	12	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	81	82	84	85	86	87	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	91	92	94	95	96	98	
Excess Capacity	MW	70	73	72	71	69	68	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	97.8%	101.0%	98.1%	95.3%	92.5%	89.7%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

CITY OF MALDEN BOARD OF PUBLIC WORKS



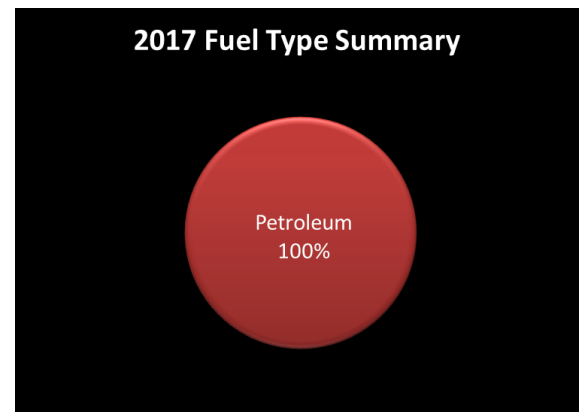
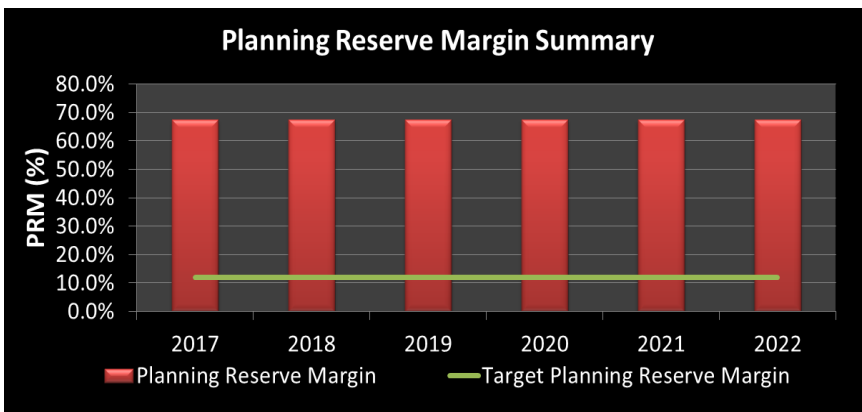
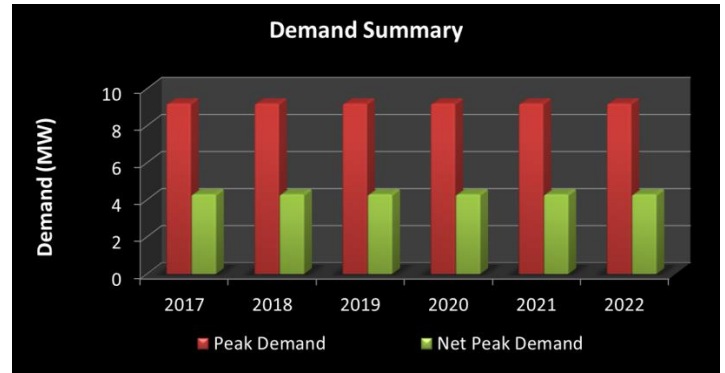
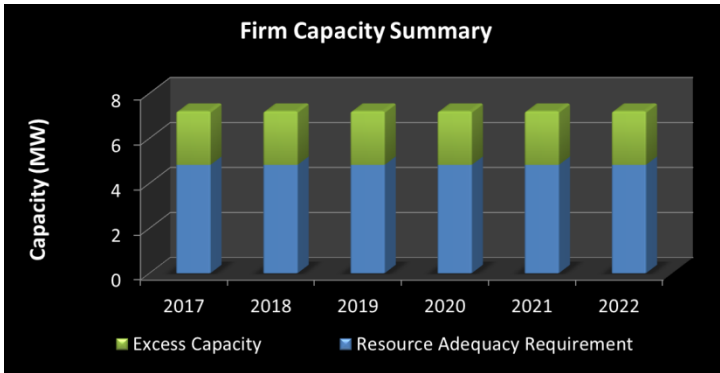
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	16	16	16	16	16	16	16
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity		MW	16	16	16	16	16	16
Demand Summary								
Peak Demand (Forecasted)	MW	12	12	12	12	12	12	12
Firm Power Purchases	MW	5	5	5	5	5	5	5
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)		MW	7	7	7	7	7	7
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	7	7	7	8	8	8	8
Excess Capacity	MW	9	9	9	8	8	8	8
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin		%	146.2%	146.2%	142.4%	138.8%	135.3%	128.6%
SPP Target Planning Reserve Margin	%		12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY OF NELIGH



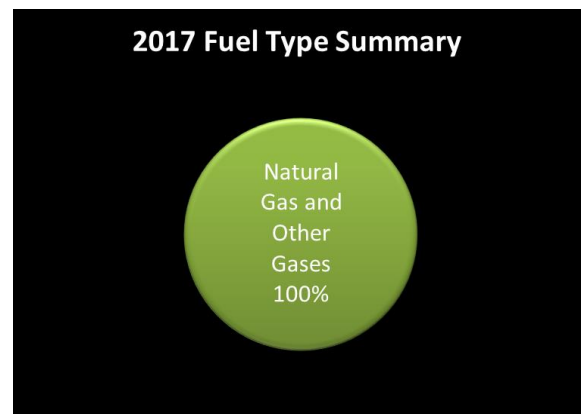
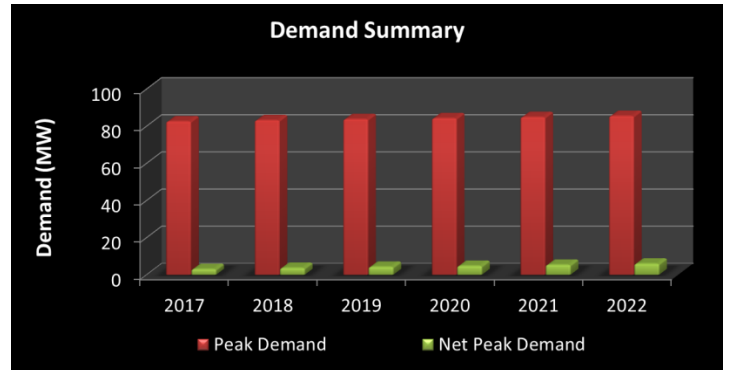
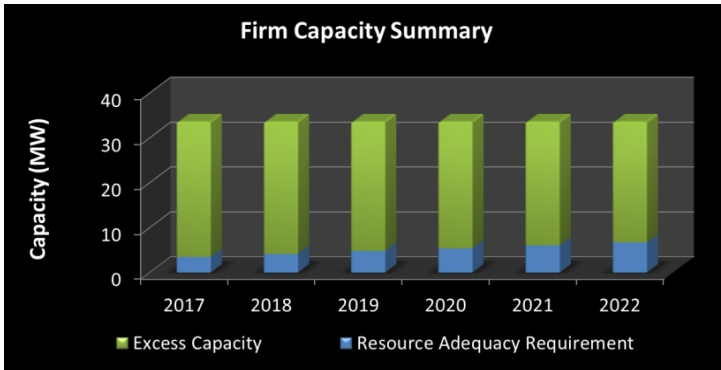
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	6	6	6	6	6	6	6
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	6	6	6	6	6	6	6
Demand Summary								
Peak Demand (Forecasted)	MW	4	4	4	4	4	4	4
Firm Power Purchases	MW	0	0	0	0	0	0	0
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	4	4	4	4	4	4	4
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	5	5	5	4	4	4	4
Excess Capacity	MW	1	1	1	1	1	1	1
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin		%	41.5%	41.5%	41.5%	45.0%	45.0%	48.7%
SPP Target Planning Reserve Margin	%	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY OF PIGGOTT MUNICIPAL LIGHT & WATER



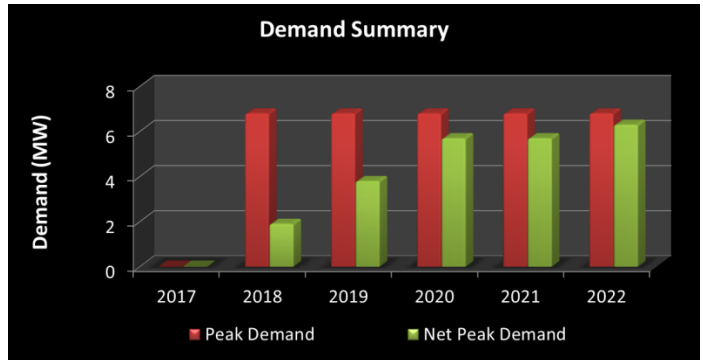
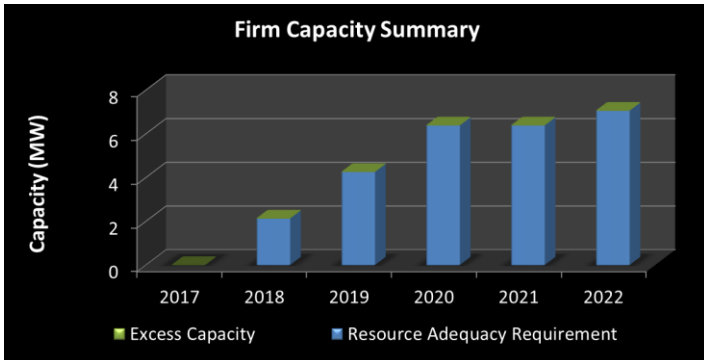
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	7	7	7	7	7	7	7
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	7	7	7	7	7	7	7
Demand Summary								
Peak Demand (Forecasted)	MW	9	9	9	9	9	9	9
Firm Power Purchases	MW	5	5	5	5	5	5	5
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	4	4	4	4	4	4	4
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	5	5	5	5	5	5	5
Excess Capacity	MW	2	2	2	2	2	2	2
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
Planning Reserve Margin	%	67.4%	67.4%	67.4%	67.4%	67.4%	67.4%	67.4%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY OF POPLAR BLUFF MUNICIPAL UTILITIES



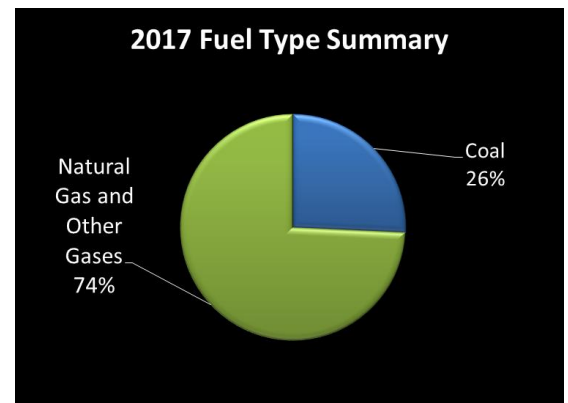
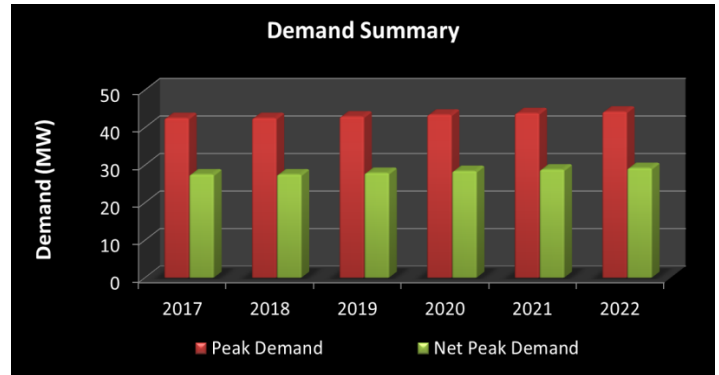
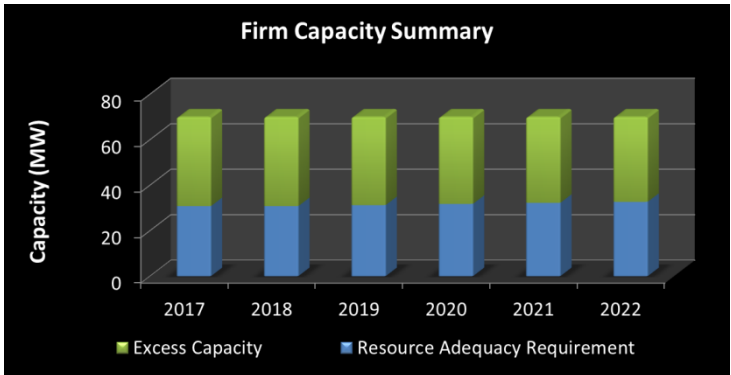
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	34	34	34	34	34	34	34
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	34	34	34	34	34	34	34
Demand Summary								
Peak Demand (Forecasted)	MW	83	83	84	84	85	86	
Firm Power Purchases	MW	80	80	80	80	80	80	80
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	3	4	4	5	5	6	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	3	4	5	5	6	7	
Excess Capacity	MW	30	29	29	28	28	27	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	983.9%	808.1%	681.4%	600.0%	522.2%	460.0%	12.0%

CITY OF SUPERIOR NEBRASKA



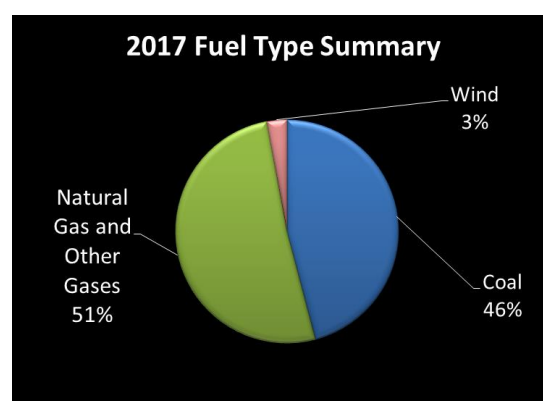
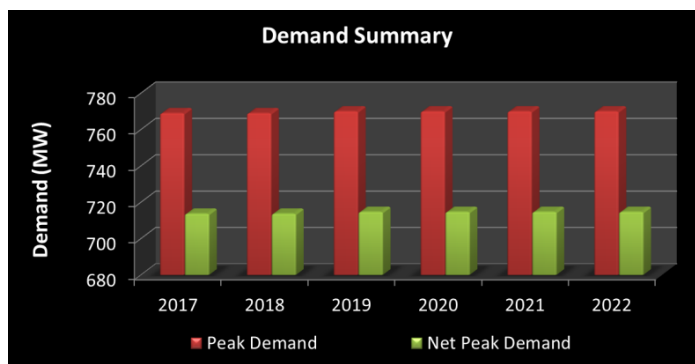
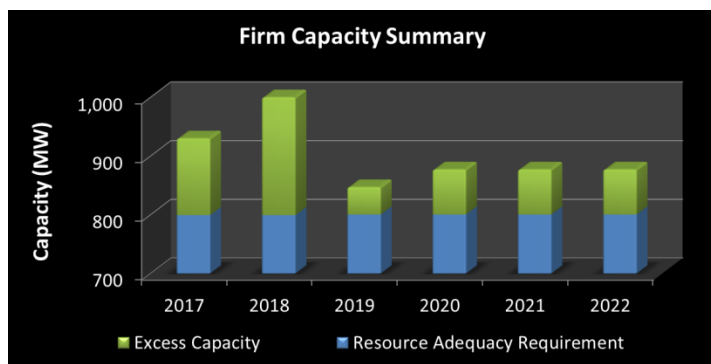
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	0	0	0	0	0	0	0
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	0	0	0	0	0	0	0
Demand Summary								
Peak Demand (Forecasted)	MW	0	7	7	7	7	7	7
Firm Power Purchases	MW	0	5	3	1	1	1	1
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	0	2	4	6	6	6	6
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	---	2	4	6	6	7	7
Excess Capacity	MW	---	0	0	0	0	0	0
Deficient Capacity	MW	---	2	4	6	6	7	
Planning Reserve Margin	%	---	-100.0%	-100.0%	-100.0%	-100.0%	-100.0%	-100.0%
SPP Target Planning Reserve Margin	%	---	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY OF WEST PLAINS BOARD OF PUBLIC WORKS



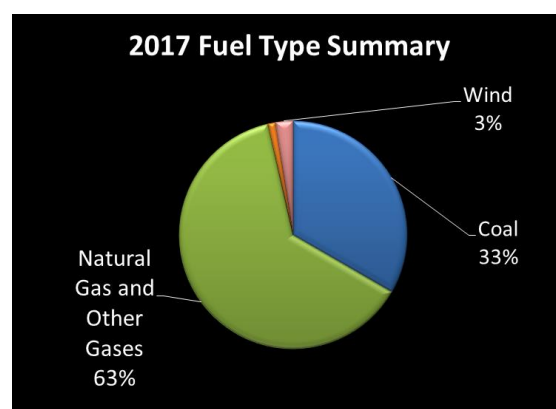
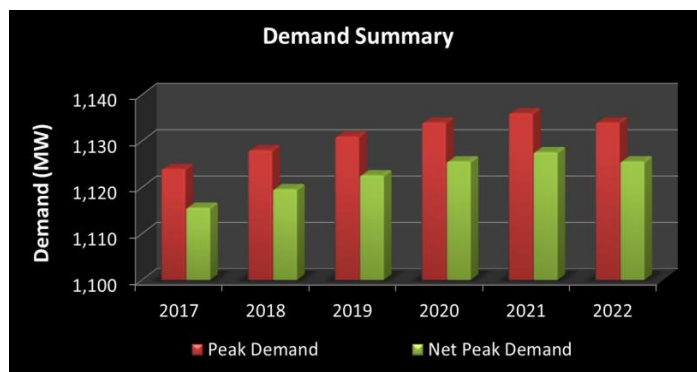
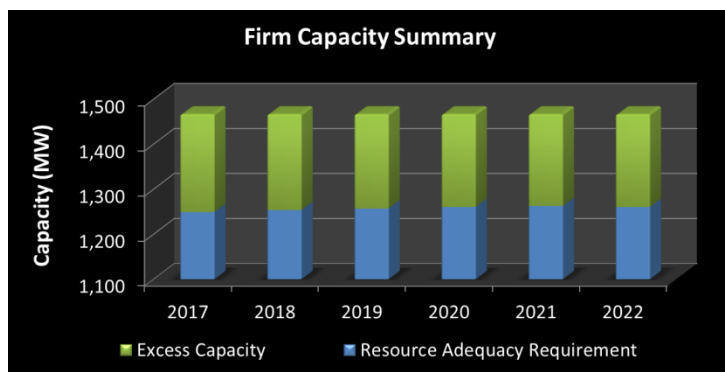
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	52	52	52	52	52	52	52
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	18	18	18	18	18	18	18
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	70	70	70	70	70	70	70
Demand Summary								
Peak Demand (Forecasted)	MW	43	43	43	43	44	44	44
Firm Power Purchases	MW	15	15	15	15	15	15	15
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	28	28	28	28	29	29	29
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	31	31	31	32	32	33	33
Excess Capacity	MW	39	39	39	38	38	37	37
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

CITY UTILITIES OF SPRINGFIELD



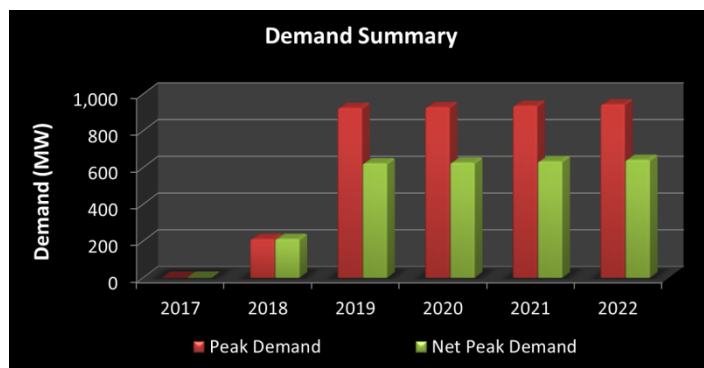
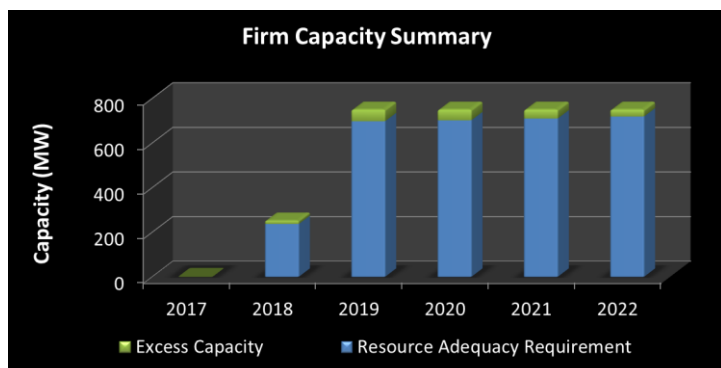
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	971	971	818	818	818	818	818
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	29	29	29	59	59	59	59
Firm Capacity Sales	MW	70	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	930	1,000	847	877	877	877	877
Demand Summary								
Peak Demand (Forecasted)	MW	769	769	770	770	770	770	770
Firm Power Purchases	MW	55	55	55	55	55	55	55
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	714	714	715	715	715	715	715
Energy Efficiency and Conservation (Included in Peak Demand)	MW	8	9	9	10	10	11	11
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	799	799	800	800	800	800	800
Excess Capacity	MW	131	201	47	77	77	77	77
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	30.3%	40.1%	18.5%	22.7%	22.7%	22.7%	22.7%
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

EMPIRE DISTRICT ELECTRIC COMPANY



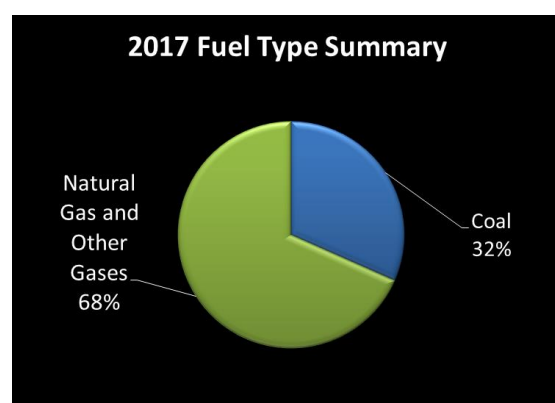
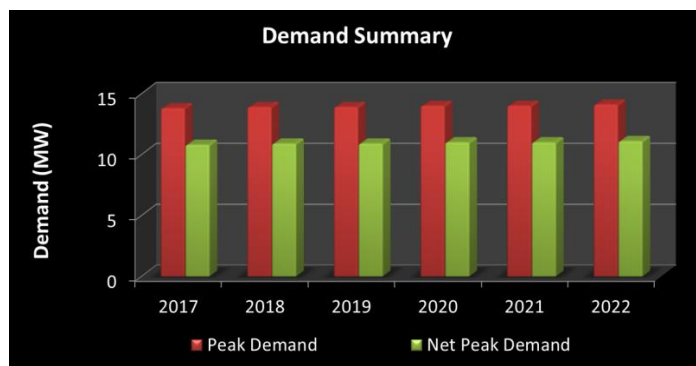
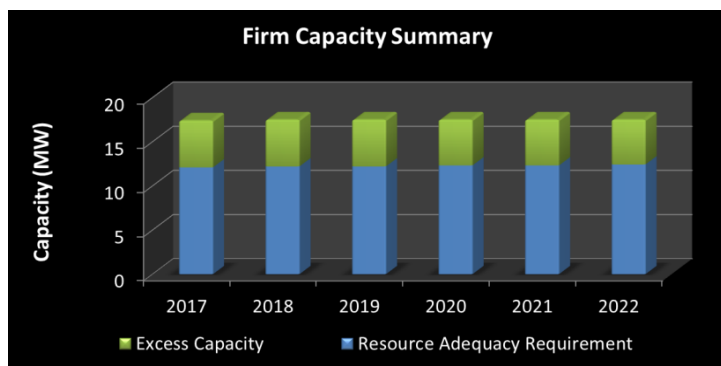
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	1,467	1,467	1,467	1,467	1,467	1,467	1,467
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	1,467	1,467	1,467	1,467	1,467	1,467	1,467
Demand Summary								
Peak Demand (Forecasted)	MW	1,124	1,128	1,131	1,134	1,136	1,134	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	8	8	8	8	8	8	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	1,116	1,120	1,123	1,126	1,128	1,126	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	1,249	1,254	1,257	1,261	1,263	1,261	
Excess Capacity	MW	218	213	210	206	204	206	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	31.5%	31.0%	30.7%	30.3%	30.1%	30.3%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

ETEC/NTEC/TEX-LA



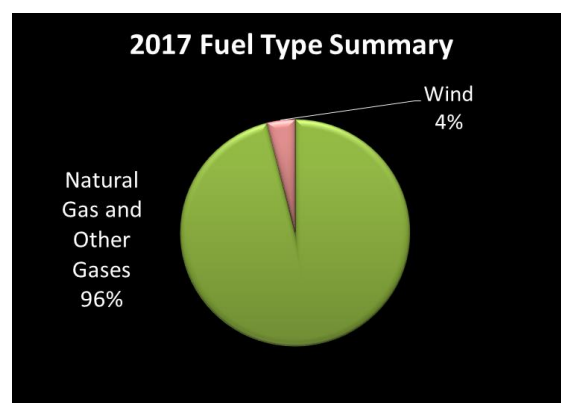
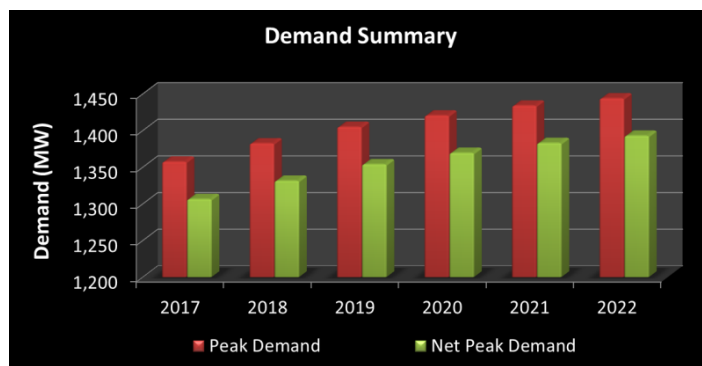
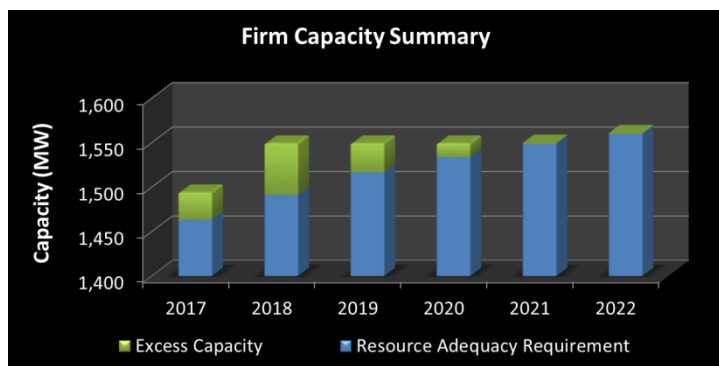
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	685	685	685	685	685	685	685
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	66	66	66	66	66	66	66
Firm Capacity Sales	MW	606	498	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	144	252	750	750	750	750	750
Demand Summary								
Peak Demand (Forecasted)	MW	0	212	925	929	936	944	
Firm Power Purchases	MW	102	102	302	302	302	302	
Firm Power Sales	MW	102	102	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	0	212	623	627	634	642	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	---	237	698	702	710	719	
Excess Capacity	MW	---	16	53	48	40	31	
Deficient Capacity	MW	---	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	---	12.0%	12.0%	12.0%	12.0%	12.0%	
	%	---	19.3%	20.4%	19.7%	18.4%	16.9%	

FALLS CITY UTILITIES



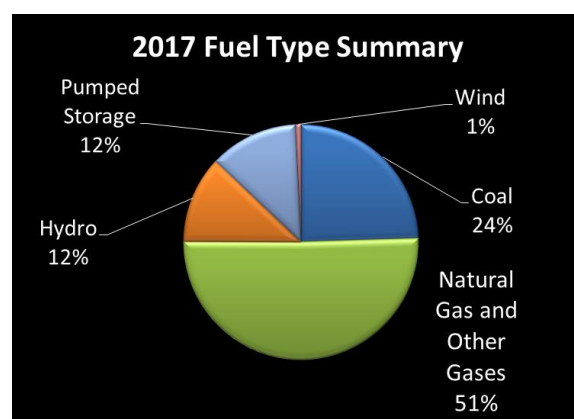
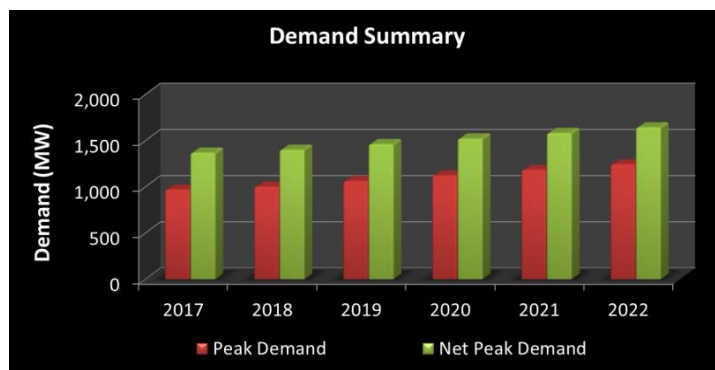
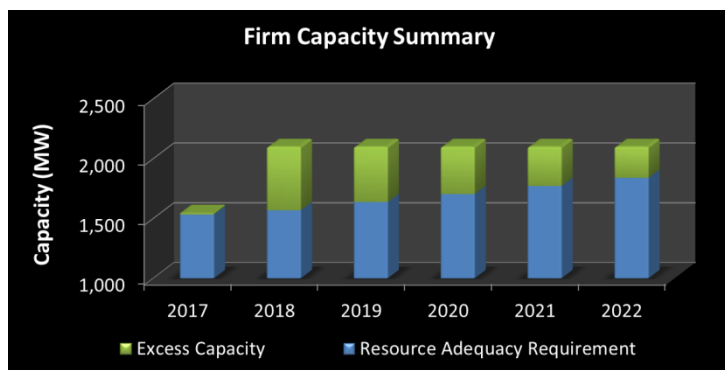
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	12	12	12	12	12	12	12
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	6	6	6	6	6	6	6
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	17	18	18	18	18	18	18
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	14	14	14	14	14	14	14
Firm Power Purchases	MW	3	3	3	3	3	3	3
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	11	11	11	11	11	11	11
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	12	12	12	12	12	12	12
Excess Capacity	MW	5	5	5	5	5	5	5
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
Planning Reserve Margin	%	61.1%	60.6%	60.6%	59.1%	59.1%	57.7%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

GOLDEN SPREAD ELECTRIC COOPERATIVE



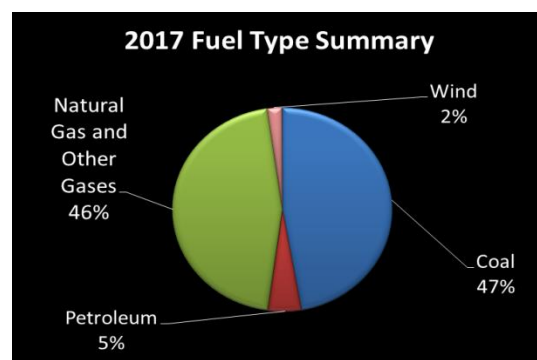
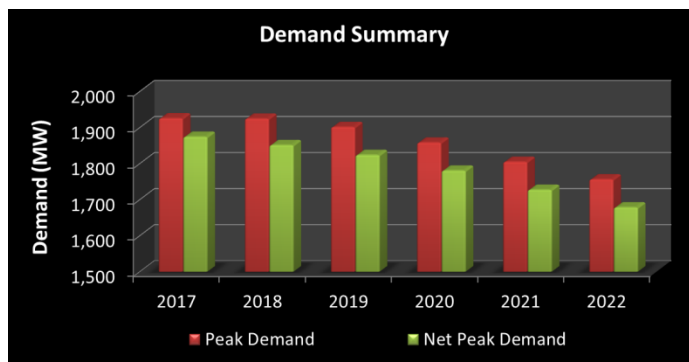
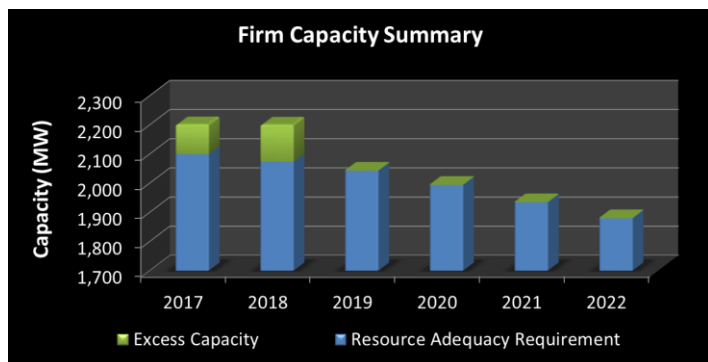
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	1,494	1,549	1,549	1,549	1,549	1,549	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	0	0	0	0	0	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity		MW	1,494	1,549	1,549	1,549	1,549	1,549
Demand Summary								
Peak Demand (Forecasted)	MW	1,358	1,383	1,405	1,421	1,434	1,444	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	51	51	51	51	51	51	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)		MW	1,307	1,332	1,354	1,370	1,383	1,393
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	1,463	1,491	1,516	1,534	1,549	1,560	
Excess Capacity	MW	31	58	33	16	0	0	
Deficient Capacity	MW	0	0	0	0	0	11	
Planning Reserve Margin		%	14.4%	16.4%	14.4%	13.1%	12.0%	11.2%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

GRAND RIVER DAM AUTHORITY



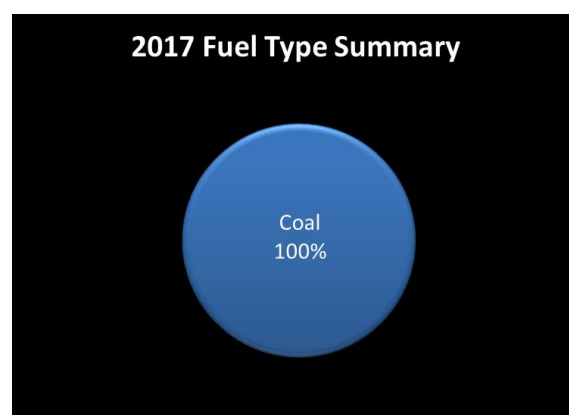
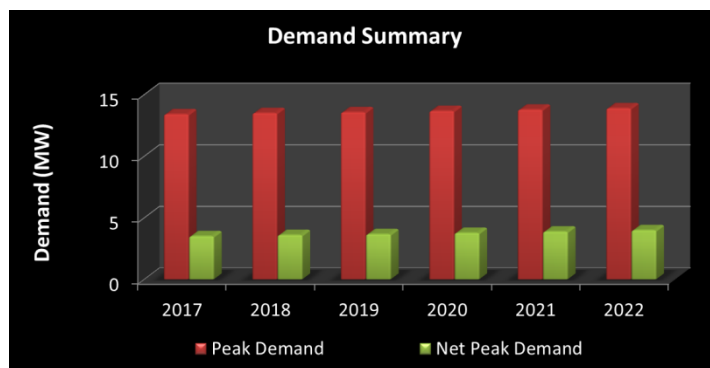
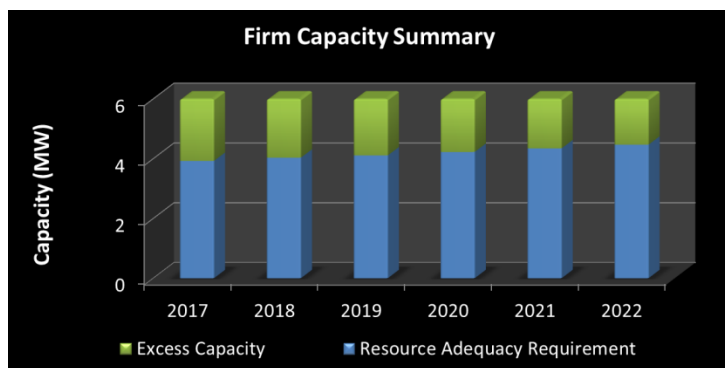
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	2,121	2,121	2,121	2,121	2,121	2,121	2,121
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	20	20	20	20	20	20
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	520	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	55	0	0	0	0	0	0
Firm Capacity	MW	1,546	2,101	2,101	2,101	2,101	2,101	2,101
Demand Summary								
Peak Demand (Forecasted)	MW	970	1,002	1,063	1,123	1,183	1,244	
Firm Power Purchases	MW	13	13	13	13	13	13	
Firm Power Sales	MW	442	442	442	442	442	442	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	30	30	30	30	30	30	
Net Peak Demand (Forecasted)	MW	1,369	1,401	1,462	1,522	1,582	1,643	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	1,534	1,570	1,638	1,705	1,772	1,841	
Excess Capacity	MW	12	531	463	396	328	260	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

GREATER MISSOURI OPERATIONS COMPANY (KCP&L)



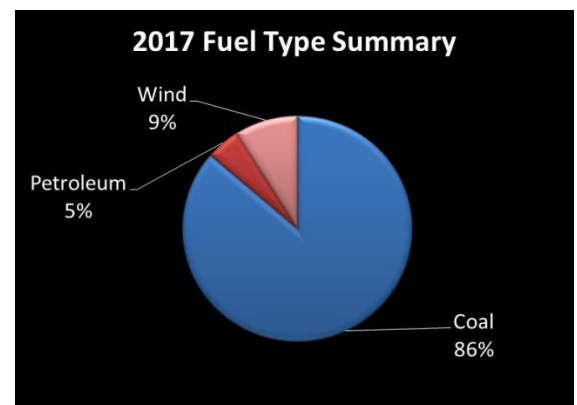
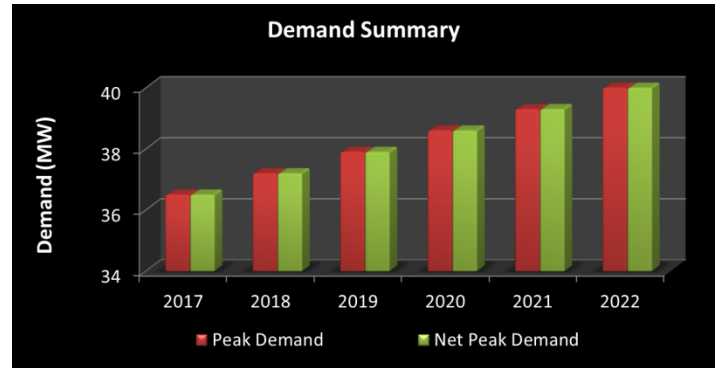
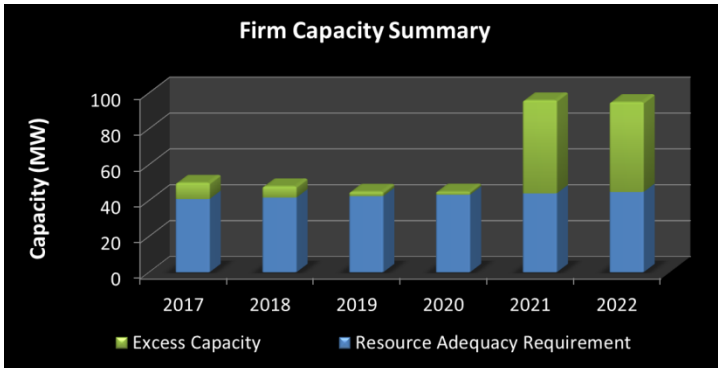
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	2,076	2,076	1,628	1,531	1,531	1,565	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	131	130	195	105	70	70	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	448	546	546	546	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	5	5	5	5	5	5	
Firm Capacity	MW	2,202	2,201	1,818	1,631	1,596	1,630	
Demand Summary								
Peak Demand (Forecasted)	MW	1,926	1,925	1,902	1,858	1,805	1,756	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	51	73	78	78	78	78	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	1,875	1,851	1,824	1,781	1,727	1,679	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	16	27	56	106	162	220	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	2,099	2,074	2,043	1,994	1,935	1,880	
Excess Capacity	MW	103	128	0	0	0	0	
Deficient Capacity	MW	0	0	225	364	339	250	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
	%	17.5%	18.9%	-0.3%	-8.4%	-7.6%	-2.9%	

HARLAN MUNICIPAL UTILITIES



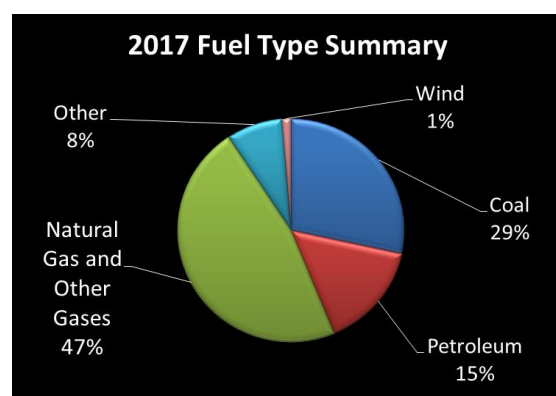
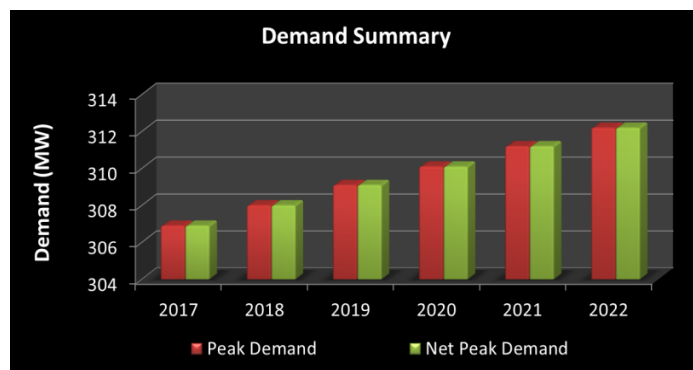
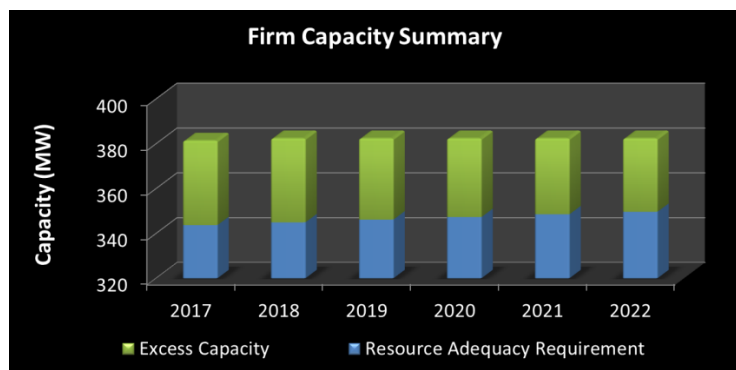
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	6	6	6	6	6	6	6
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	6	6	6	6	6	6	6
Demand Summary								
Peak Demand (Forecasted)	MW	13	14	14	14	14	14	14
Firm Power Purchases	MW	10	10	10	10	10	10	10
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	4	4	4	4	4	4	4
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	4	4	4	4	4	4	4
Excess Capacity	MW	2	2	2	2	2	2	2
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
Planning Reserve Margin	%	71.1%	66.6%	63.5%	59.0%	54.6%	50.4%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

HEARTLAND CONSUMERS POWER DISTRICT



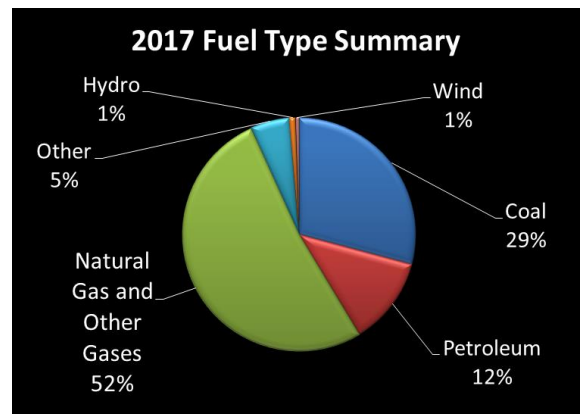
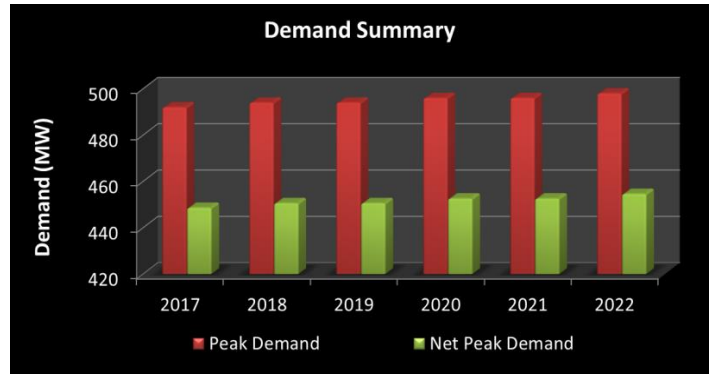
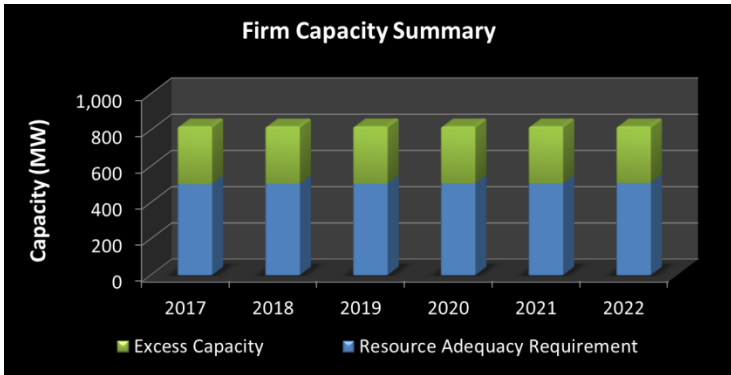
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	135	135	135	135	135	134	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	12	12	12	12	12	12	
Firm Capacity Sales	MW	96	98	101	101	50	50	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	50	48	45	45	96	95	
Demand Summary								
Peak Demand (Forecasted)	MW	37	37	38	39	39	40	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	37	37	38	39	39	40	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	41	42	42	43	44	45	
Excess Capacity	MW	9	6	2	2	52	50	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	36.7%	28.8%	18.5%	16.3%	144.0%	137.3%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

INDEPENDENCE POWER & LIGHT



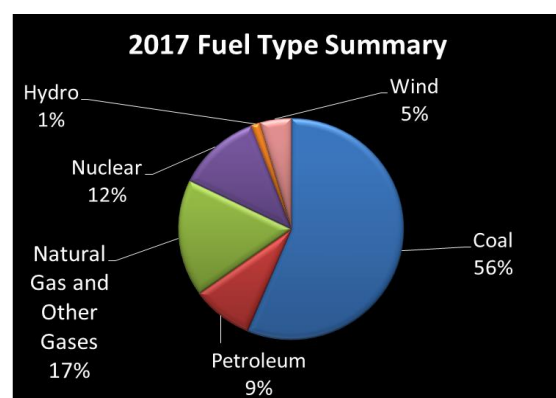
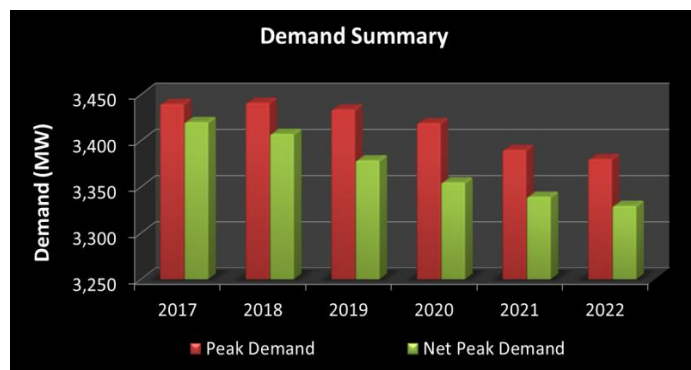
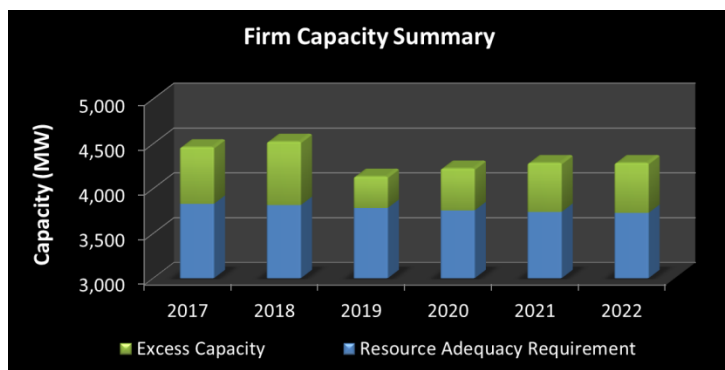
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	268	268	268	268	268	268	268
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	113	114	114	114	114	114	114
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	381	382	382	382	382	382	382
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	307	308	309	310	311	312	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	307	308	309	310	311	312	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	344	345	346	347	349	350	
Excess Capacity	MW	38	37	36	35	34	33	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

KANSAS CITY BOARD OF PUBLIC UTILITIES



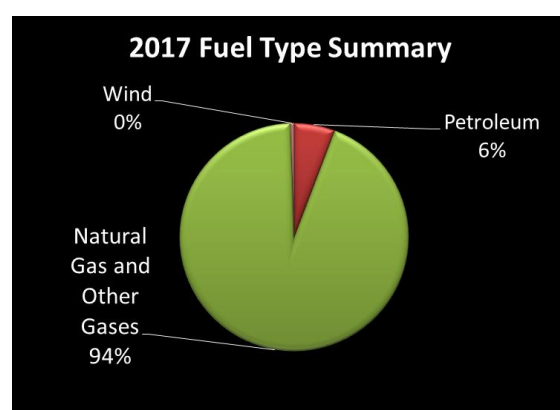
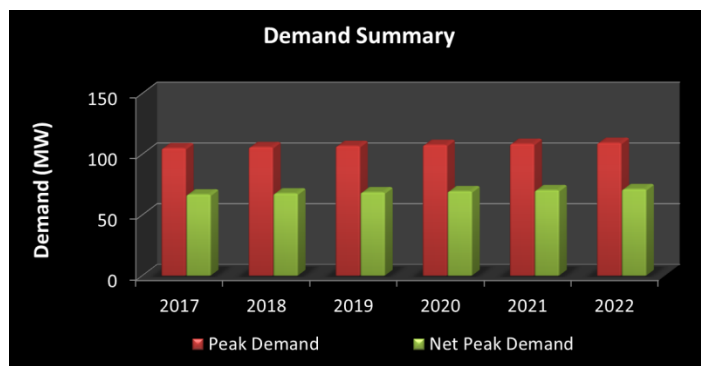
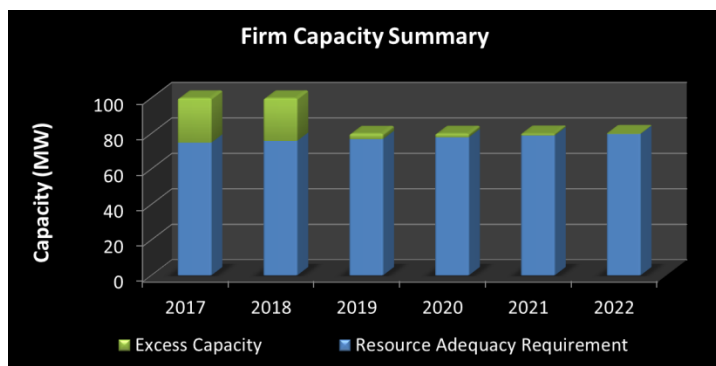
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	810	810	810	810	810	810	810
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	11	11	11	11	11	11	11
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	821	821	821	821	821	821	821
Demand Summary								
Peak Demand (Forecasted)	MW	492	494	494	496	496	498	
Firm Power Purchases	MW	43	43	43	43	43	43	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	449	451	451	453	453	455	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	502	505	505	507	507	509	
Excess Capacity	MW	318	316	316	314	314	311	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

KANSAS CITY POWER & LIGHT



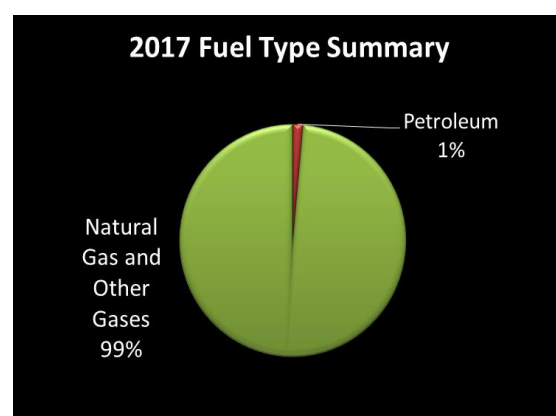
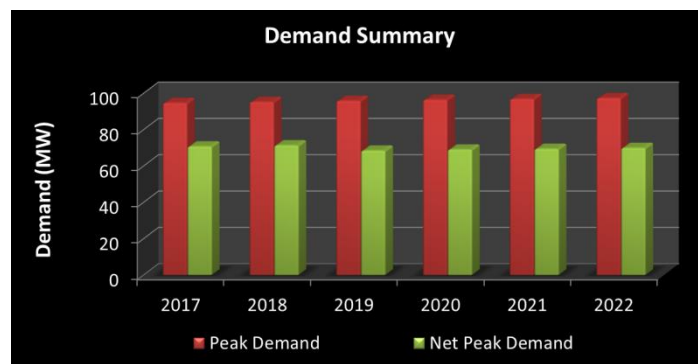
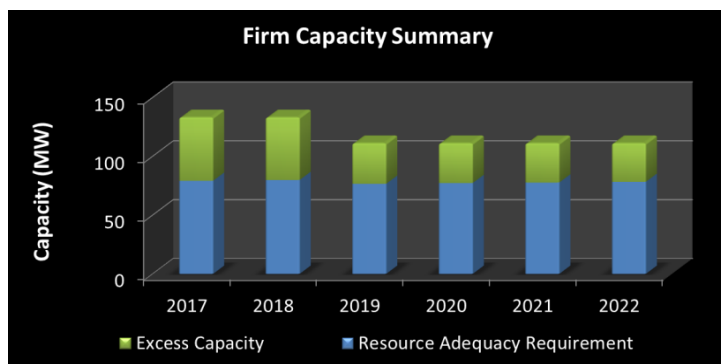
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	4,344	4,344	4,010	4,010	4,010	4,010	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	256	292	292	292	292	292	
Firm Capacity Sales	MW	137	112	167	77	15	15	
Confirmed Retirements	MW	0	0	334	334	334	334	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	4,463	4,524	4,135	4,225	4,287	4,287	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	3,440	3,441	3,434	3,419	3,390	3,380	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	20	34	55	64	51	51	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	3,420	3,407	3,379	3,355	3,339	3,329	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	18	35	54	75	112	141	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	3,831	3,816	3,784	3,757	3,740	3,729	
Excess Capacity	MW	633	708	351	467	547	558	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
Planning Reserve Margin	%	30.5%	32.8%	22.4%	25.9%	28.4%	28.8%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

KANSAS MUNICIPAL ENERGY AGENCY – EMP1



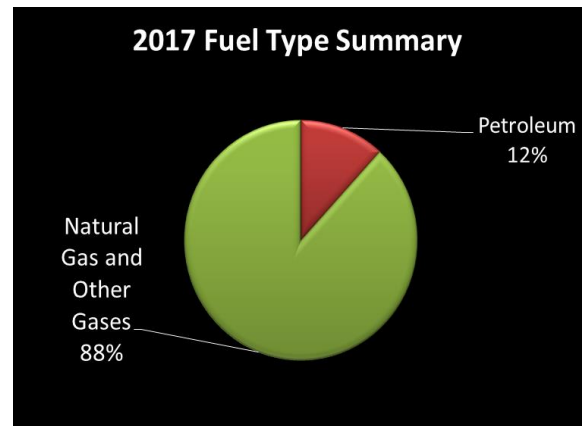
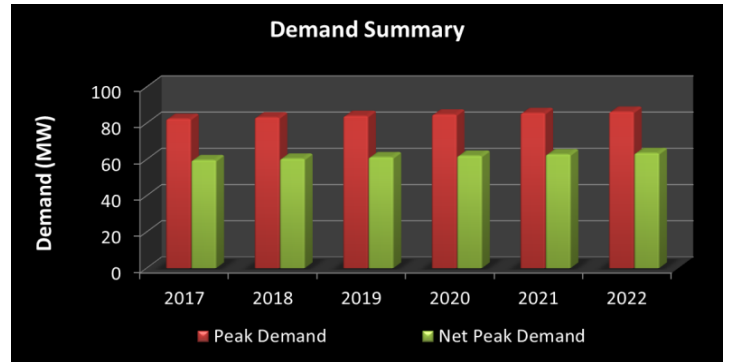
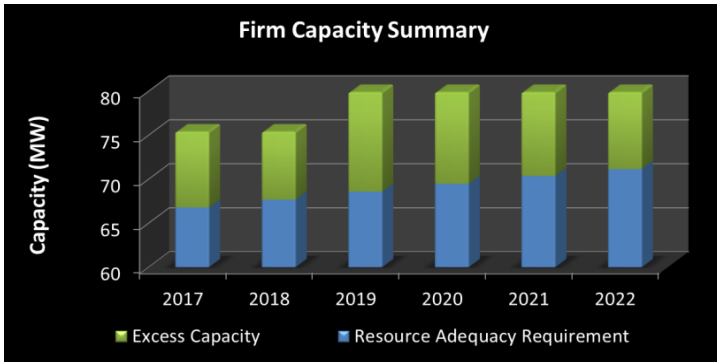
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	80	80	80	80	80	80	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	20	20	0	0	0	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	100	100	80	80	80	80	
Demand Summary								
Peak Demand (Forecasted)	MW	105	106	107	108	109	109	
Firm Power Purchases	MW	38	38	38	38	38	38	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	67	68	69	70	70	71	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	75	76	77	78	79	80	
Excess Capacity	MW	25	24	3	2	1	0	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	49.6%	47.6%	16.5%	15.0%	13.5%	12.2%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

KANSAS MUNICIPAL ENERGY AGENCY – EMP2



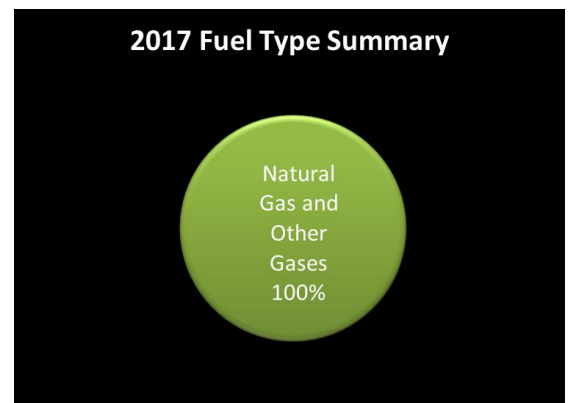
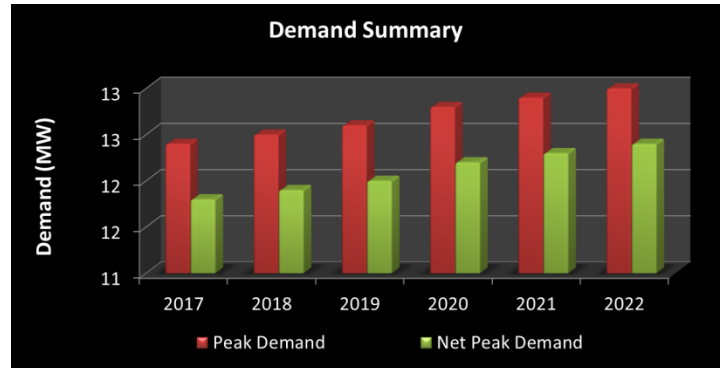
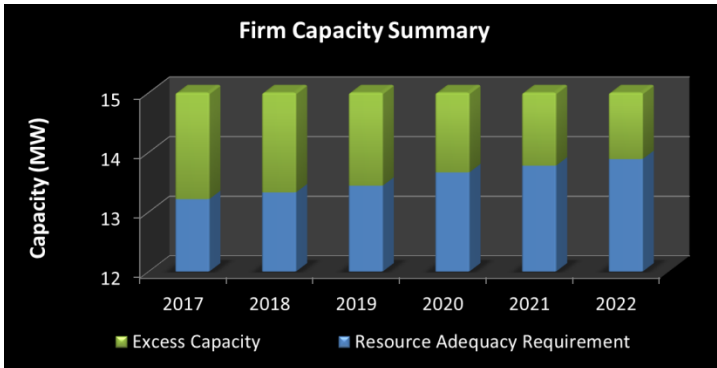
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	118	118	118	118	118	118	118
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	29	29	0	0	0	0	0
Firm Capacity Sales	MW	14	14	7	7	7	7	7
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	133	133	111	111	111	111	111
Demand Summary								
Peak Demand (Forecasted)	MW	95	95	96	96	97	97	97
Firm Power Purchases	MW	24	24	27	27	27	27	27
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	71	71	68	69	69	70	70
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	79	80	77	77	78	78	78
Excess Capacity	MW	54	53	34	34	33	33	33
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	88.3%	86.7%	62.4%	61.0%	60.1%	58.9%	58.9%
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

KANSAS MUNICIPAL ENERGY AGENCY – EMP3



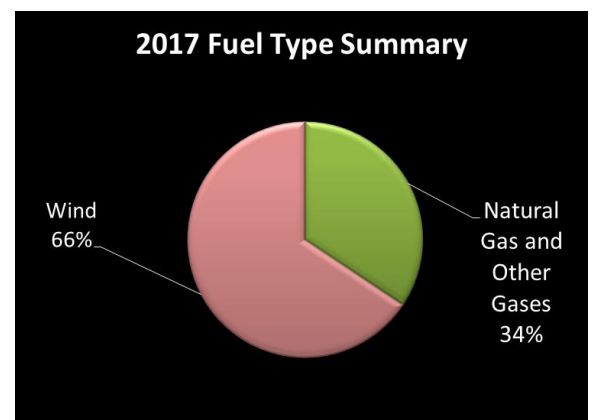
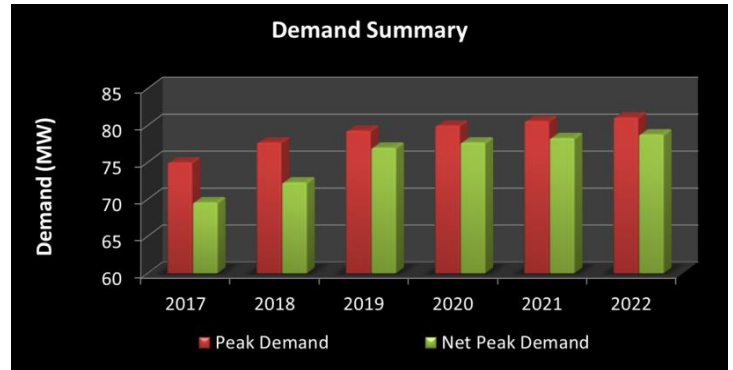
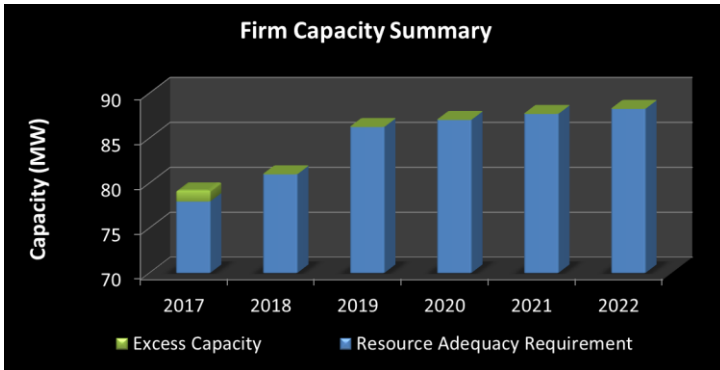
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	80	80	80	80	80	80	80
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	5	5	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	75	75	80	80	80	80	80
Demand Summary								
Peak Demand (Forecasted)	MW	82	83	84	85	86	86	86
Firm Power Purchases	MW	23	23	23	23	23	23	23
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	60	60	61	62	63	64	64
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	67	68	69	69	70	71	71
Excess Capacity	MW	9	8	11	10	10	9	9
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	26.4%	24.8%	30.5%	28.8%	27.2%	25.7%	25.7%
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

KANSAS MUNICIPAL ENERGY AGENCY – EUDORA



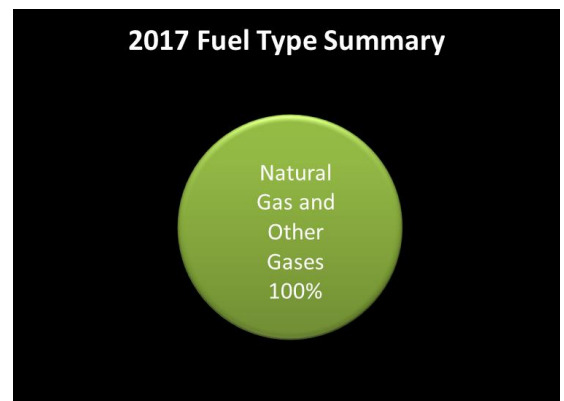
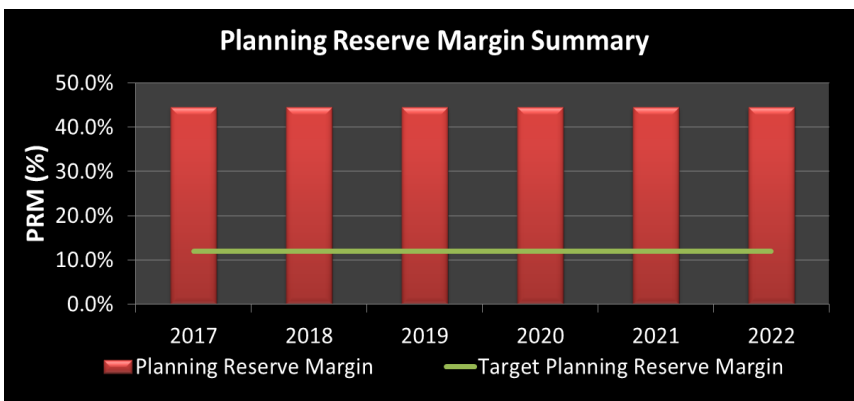
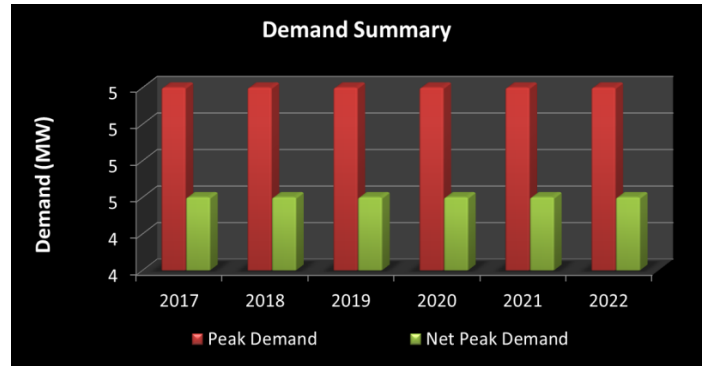
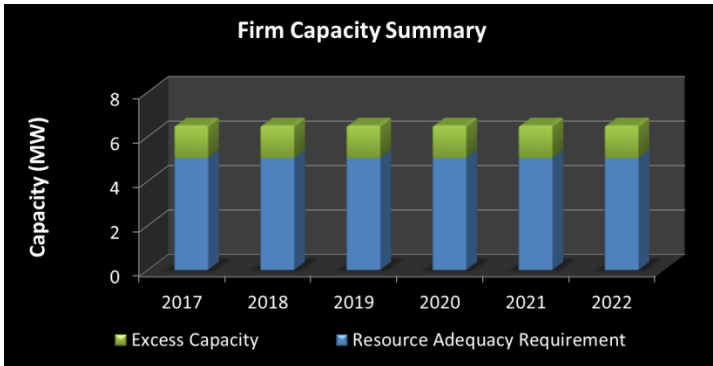
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	0	0	0	0	0	0	0
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	15	15	15	15	15	15	15
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	15	15	15	15	15	15	15
Demand Summary								
Peak Demand (Forecasted)	MW	12	13	13	13	13	13	13
Firm Power Purchases	MW	1	1	1	1	1	1	1
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	12	12	12	12	12	12	12
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	13	13	13	14	14	14	14
Excess Capacity	MW	2	2	2	1	1	1	1
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	27.1%	26.1%	25.0%	23.0%	22.0%	21.0%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

KANSAS MUNICIPAL ENERGY AGENCY – GC



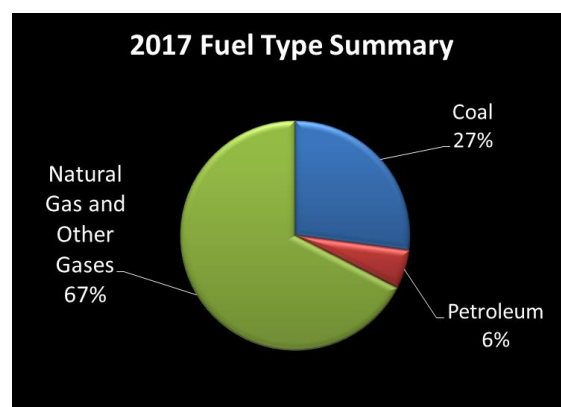
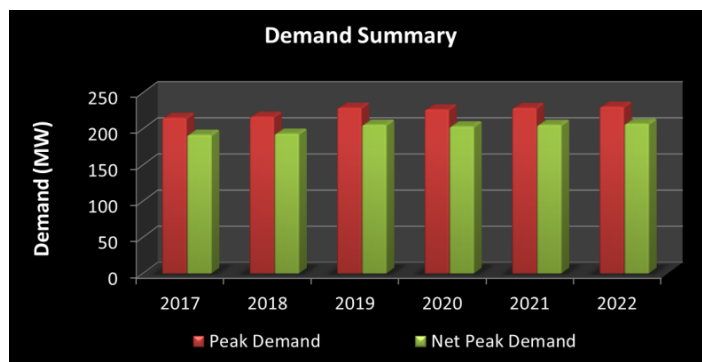
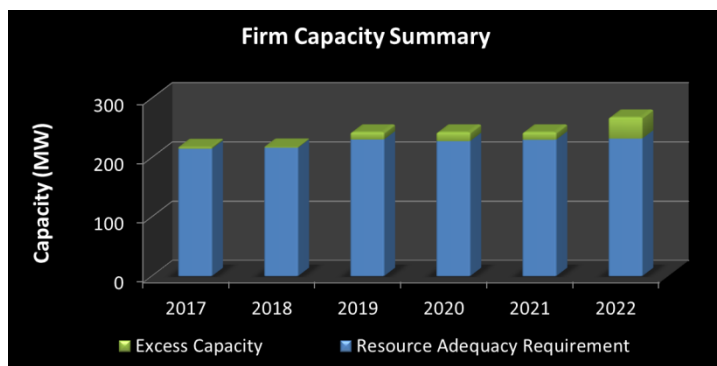
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	27	27	27	27	27	27	27
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	52	37	27	27	0	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	79	64	54	54	27	27	
Demand Summary								
Peak Demand (Forecasted)	MW	75	78	79	80	81	81	
Firm Power Purchases	MW	5	5	2	2	2	2	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	70	72	77	78	78	79	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	78	81	86	87	88	88	
Excess Capacity	MW	1	0	0	0	0	0	
Deficient Capacity	MW	0	17	32	33	60	61	
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	13.8%	-11.2%	-29.6%	-30.2%	-65.3%	-65.5%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

KANSAS MUNICIPAL ENERGY AGENCY – MEADE



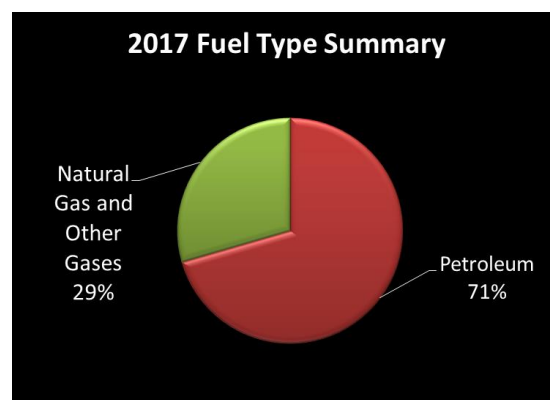
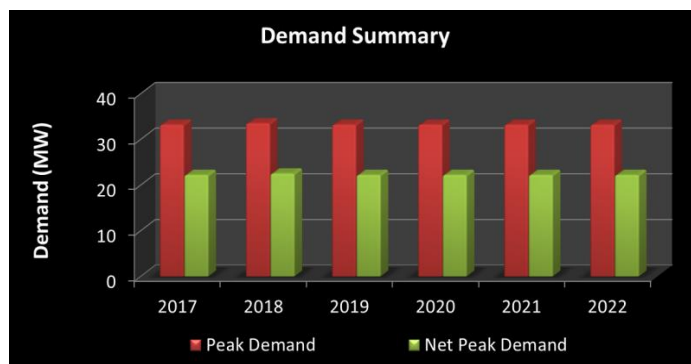
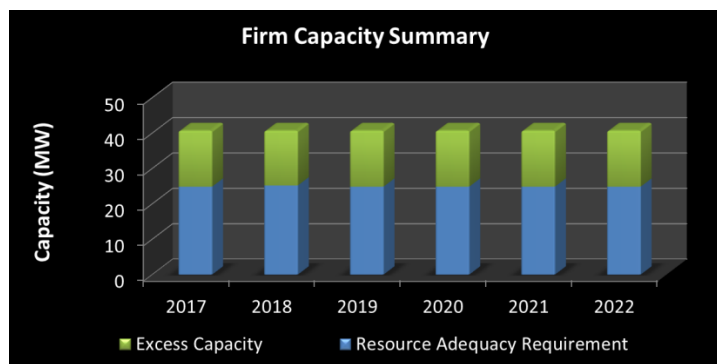
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	7	7	7	7	7	7	7
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	7	7	7	7	7	7	7
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	5	5	5	5	5	5	5
Firm Power Purchases	MW	0	0	0	0	0	0	0
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	5	5	5	5	5	5	5
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	5	5	5	5	5	5	5
Excess Capacity	MW	1	1	1	1	1	1	1
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
SPP Target Planning Reserve Margin	%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

KANSAS POWER POOL



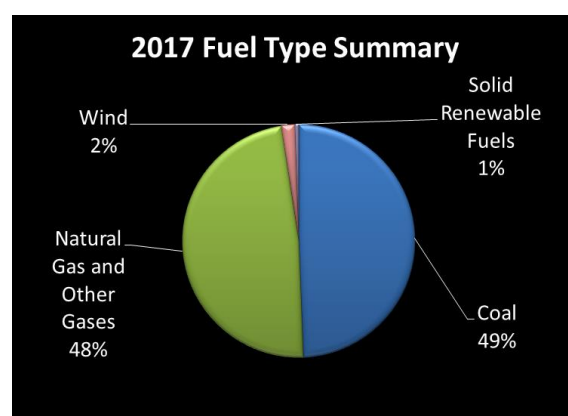
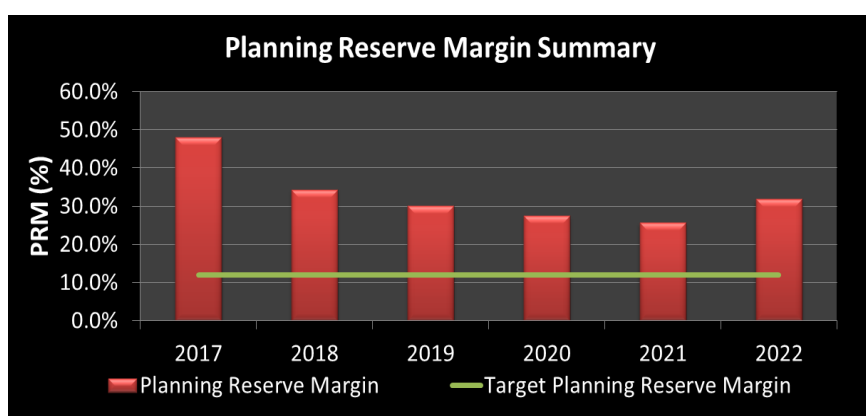
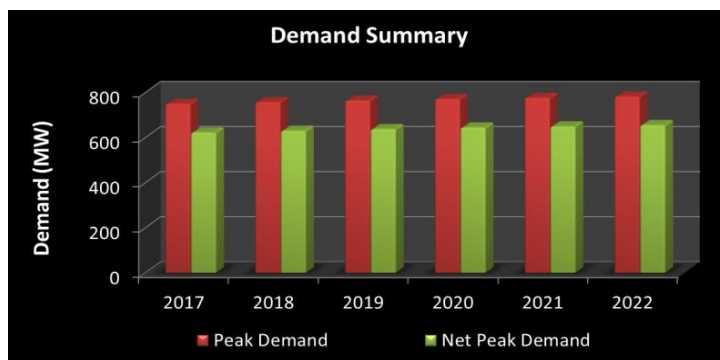
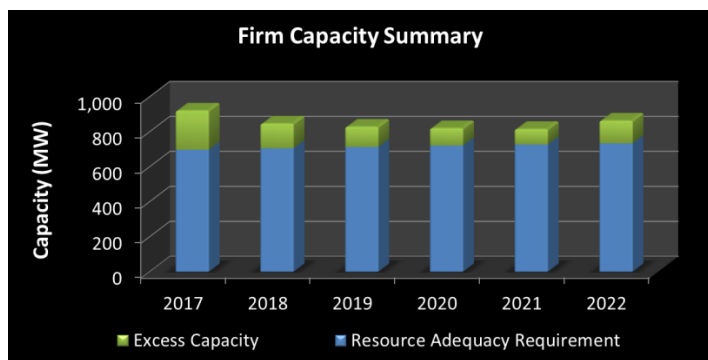
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	209	209	209	209	209	209	209
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	59	59	59	59	59	59	59
Firm Capacity Sales	MW	50	50	25	25	25	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	218	218	243	243	243	243	268
Demand Summary								
Peak Demand (Forecasted)	MW	215	217	229	227	229	231	
Firm Power Purchases	MW	24	24	24	24	24	24	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	192	193	206	203	205	207	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	215	216	230	228	230	232	
Excess Capacity	MW	3	1	12	15	13	36	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	13.6%	12.7%	18.0%	19.4%	18.2%	29.3%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

KENNETT BOARD OF PUBLIC WORKS



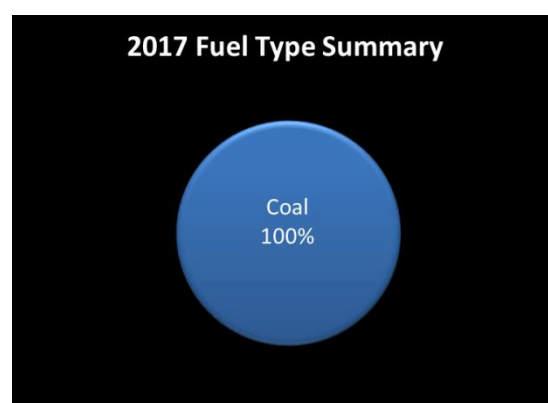
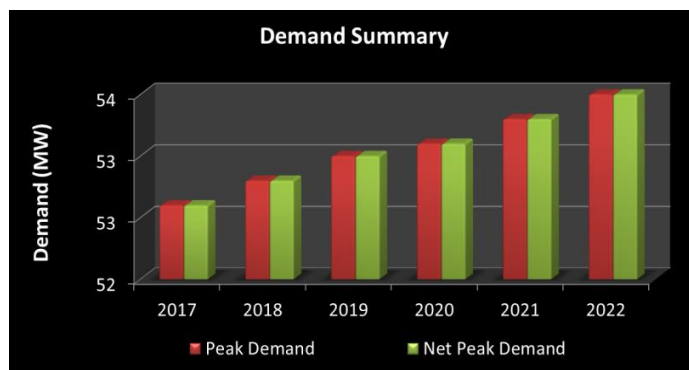
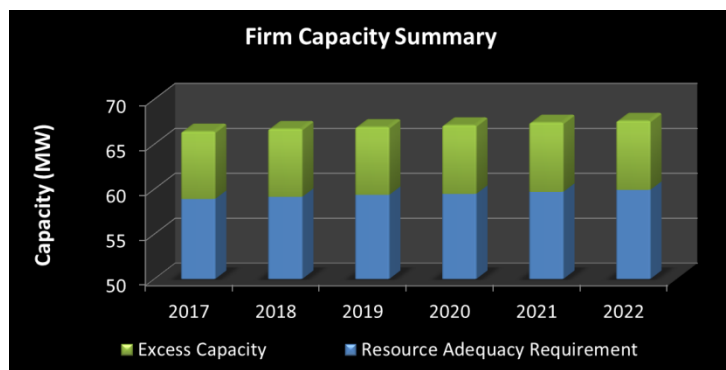
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	41	41	41	41	41	41	41
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	41	41	41	41	41	41	41
Demand Summary								
Peak Demand (Forecasted)	MW	33	34	33	33	33	33	33
Firm Power Purchases	MW	11	11	11	11	11	11	11
Firm Power Sales	MW	0	0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	22	23	22	22	22	22	22
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	25	25	25	25	25	25	25
Excess Capacity	MW	16	16	16	16	16	16	16
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin	%	83.3%	80.9%	83.3%	83.3%	83.3%	83.3%	83.3%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

LINCOLN ELECTRIC SYSTEM



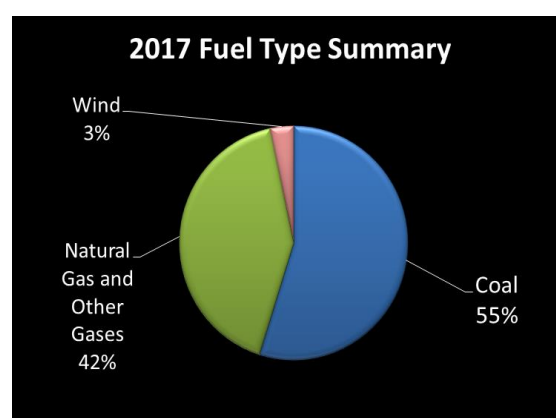
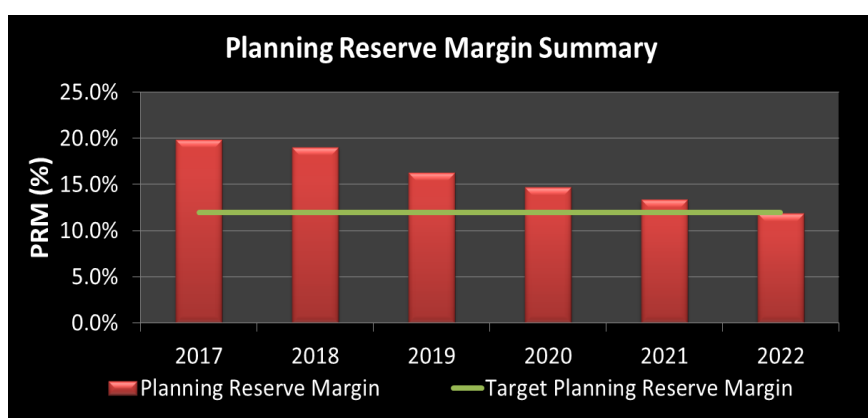
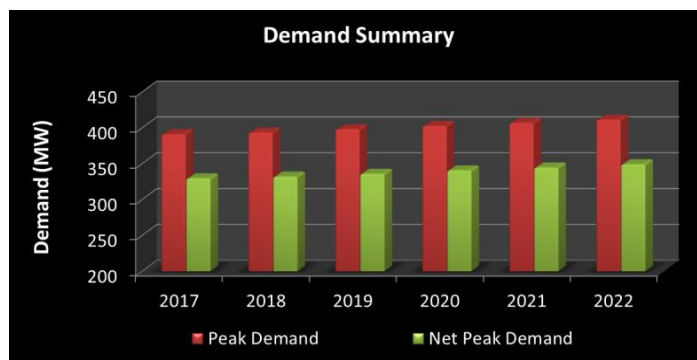
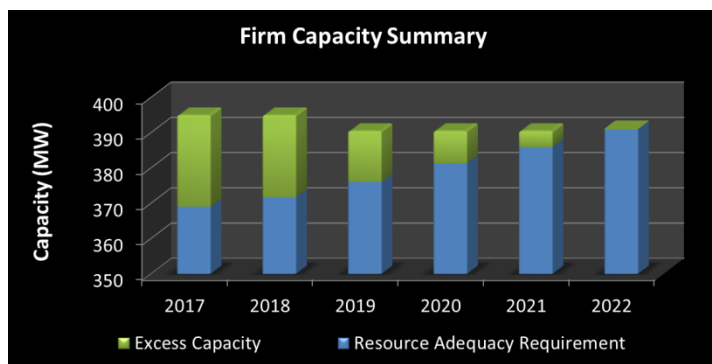
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	765	765	764	763	763	764	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	224	159	159	159	159	159	
Firm Capacity Sales	MW	67	78	95	102	107	60	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	1	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	921	847	829	821	816	864	
Demand Summary								
Peak Demand (Forecasted)	MW	749	757	764	771	776	782	
Firm Power Purchases	MW	127	127	127	127	127	127	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	622	630	637	644	649	655	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	9	9	9	8	8	8	
Standby Load Under Contract (Included in Peak Demand)	MW	7	7	7	7	7	7	
Requirements Summary								
Resource Adequacy Requirement	MW	697	706	714	722	727	734	
Excess Capacity	MW	224	141	115	99	89	130	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin	%	48.1%	34.4%	30.1%	27.4%	25.6%	31.8%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

MIDAMERICAN ENERGY COMPANY



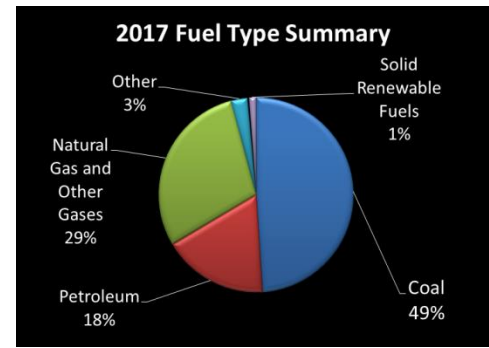
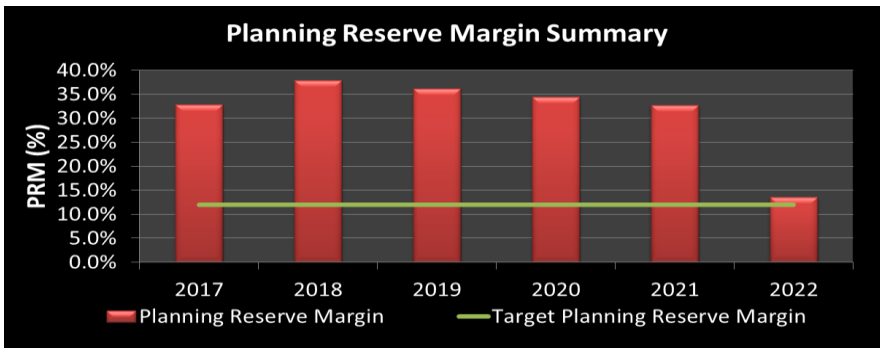
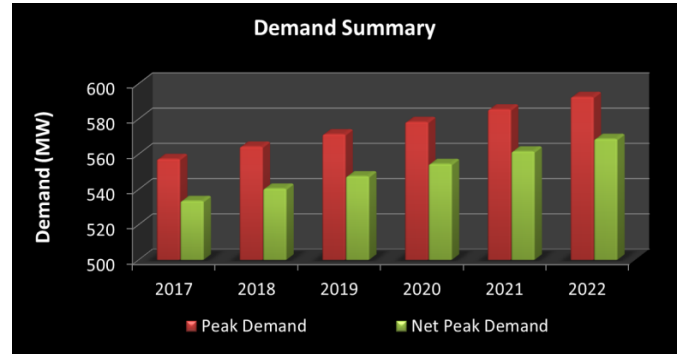
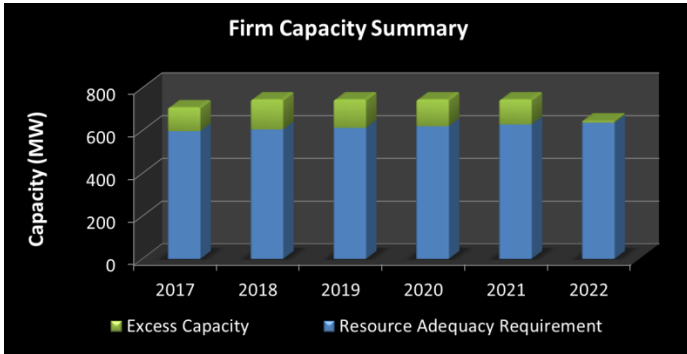
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	66	67	67	67	67	68	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	0	0	0	0	0	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	66	67	67	67	67	68	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	53	53	53	53	53	54	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	53	53	53	53	53	54	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	59	59	59	59	60	60	
Excess Capacity	MW	7	8	8	8	8	8	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
Planning Reserve Margin	%	26.2%	26.3%	26.2%	26.4%	26.5%	26.4%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

MIDWEST ENERGY



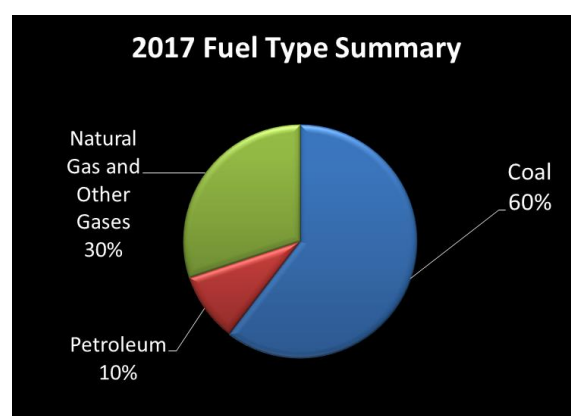
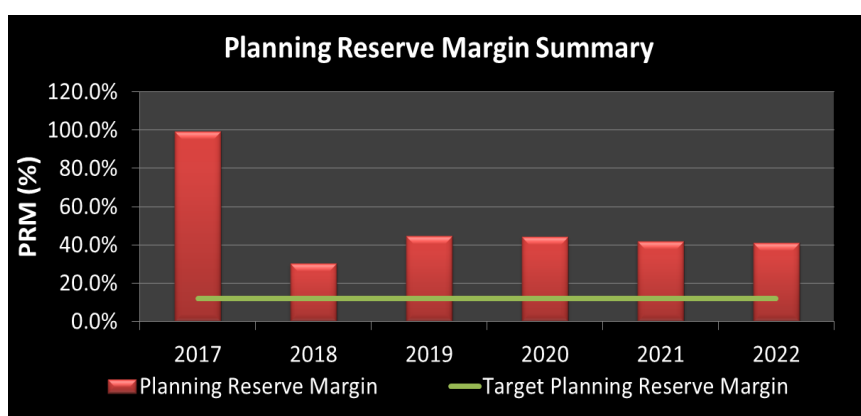
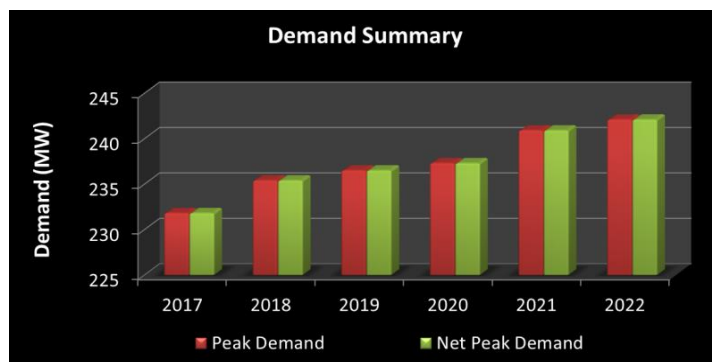
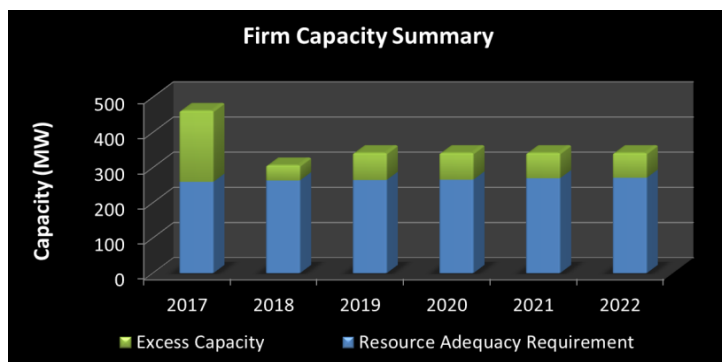
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	115	115	115	115	115	115	115
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	281	281	276	276	276	276	276
Firm Capacity Sales	MW	0	0	0	0	0	0	0
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	395	395	391	391	391	391	391
Demand Summary								
Peak Demand (Forecasted)	MW	391	393	398	403	407	411	
Firm Power Purchases	MW	6	6	6	6	6	6	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	23	23	24	24	24	24	
Other Controllable and Dispatchable DEG - Available	MW	33	33	33	33	33	33	
Net Peak Demand (Forecasted)	MW	330	332	336	341	345	349	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	369	372	376	381	386	391	
Excess Capacity	MW	26	23	14	9	5	0	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	19.9%	19.0%	16.3%	14.7%	13.3%	11.9%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION



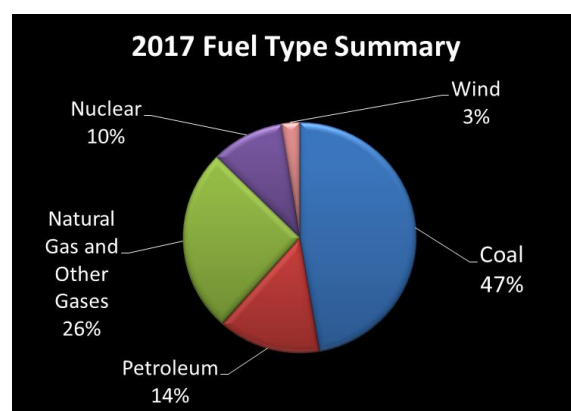
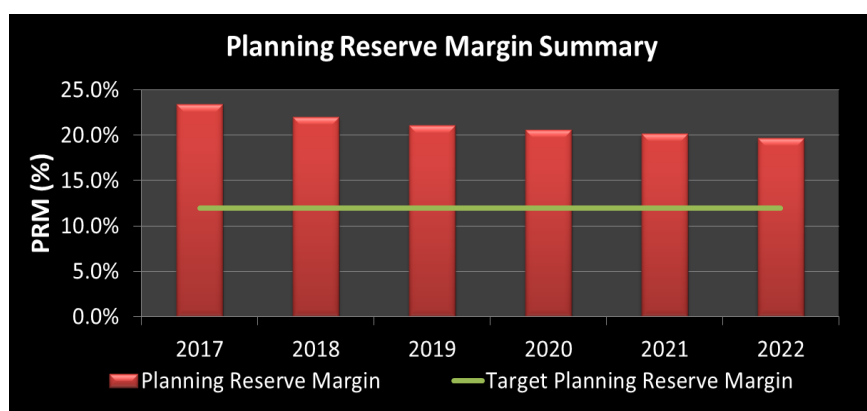
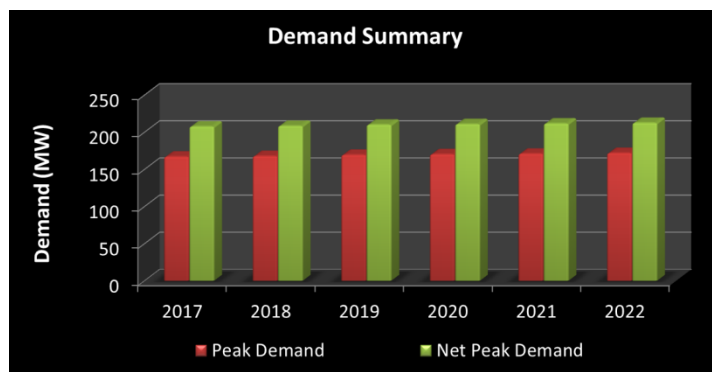
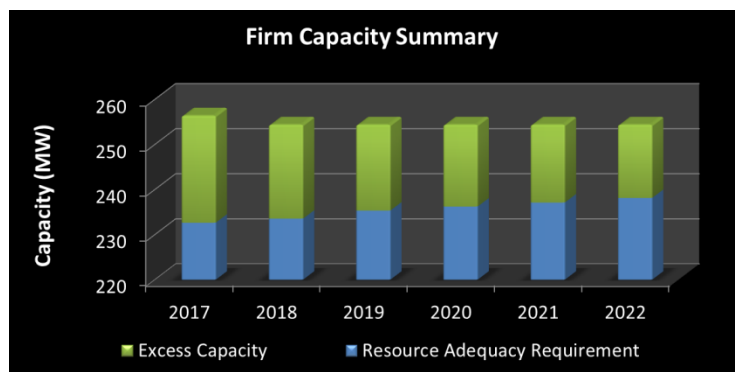
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	590	590	590	590	590	590	590
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	206	208	208	208	208	108	
Firm Capacity Sales	MW	88	53	53	53	53	53	
Confirmed Retirements	MW	16	16	16	16	16	16	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	708	745	745	745	745	745	645
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	557	564	571	578	585	593	
Firm Power Purchases	MW	24	24	24	24	24	24	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	534	541	548	555	562	569	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	598	605	613	621	629	637	
Excess Capacity	MW	111	140	132	124	116	8	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

MISSOURI RIVER ENERGY SERVICES



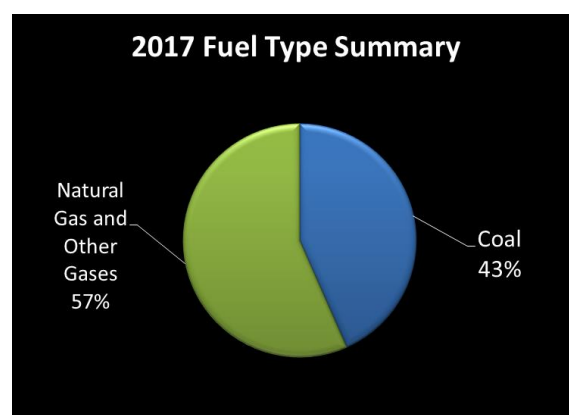
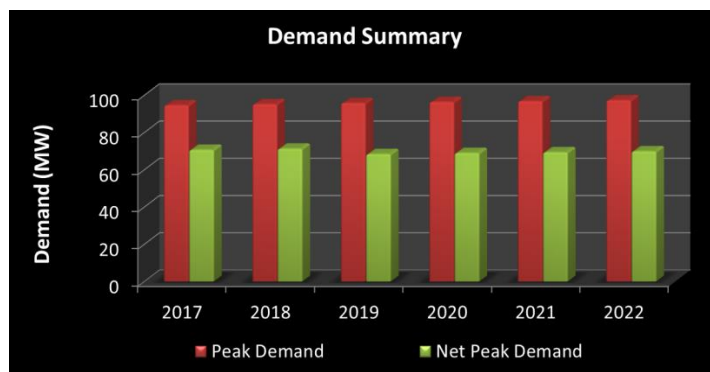
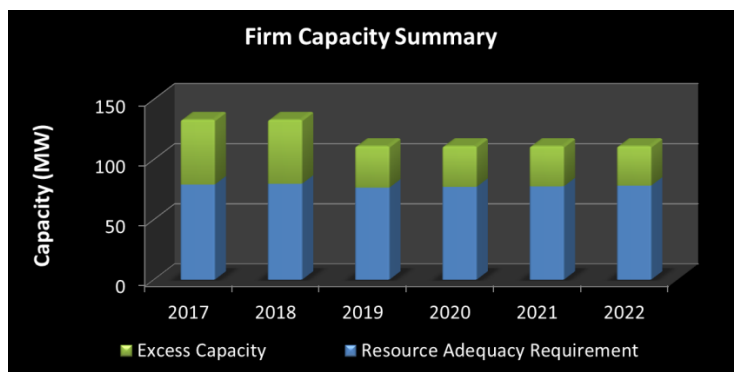
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	496	496	496	496	496	496	496
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	0	0	0	0	0	0	0
Firm Capacity Sales	MW	34	189	154	154	154	154	154
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	462	307	342	342	342	342	342
Demand Summary								
Peak Demand (Forecasted)	MW	232	235	237	237	241	242	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	232	235	237	237	241	242	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	8	12	16	20	24	27	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	260	264	265	266	270	271	
Excess Capacity	MW	202	43	77	76	72	71	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	99.2%	30.3%	44.5%	44.0%	41.9%	41.2%	
	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

MUNICIPAL ENERGY AGENCY OF NEBRASKA



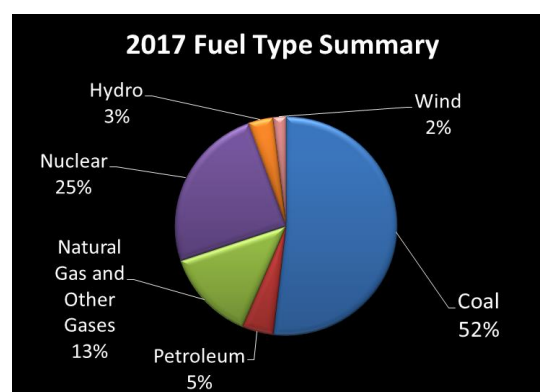
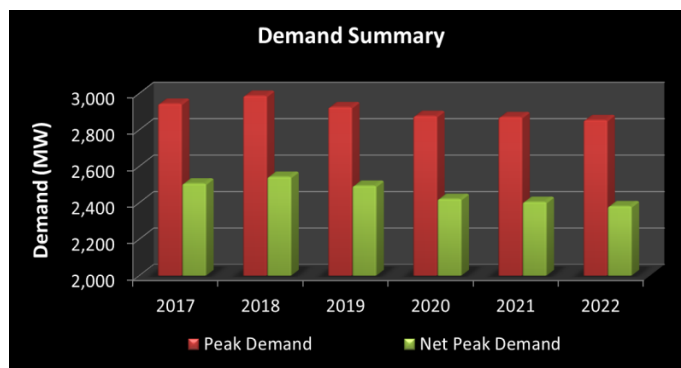
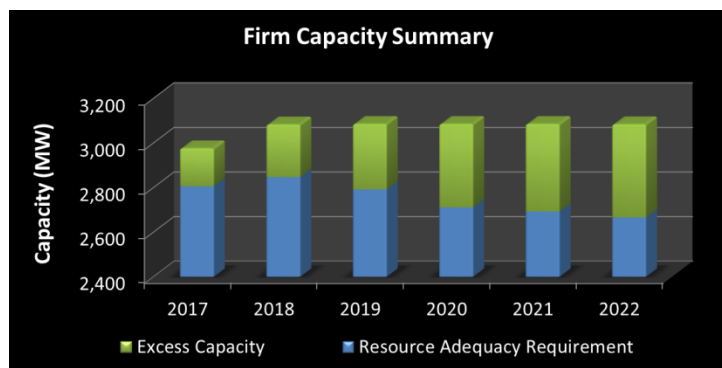
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	190	188	188	188	188	188	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	66	66	66	66	66	66	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity		MW	256	254	254	254	254	254
Demand Summary								
Peak Demand (Forecasted)	MW	167	168	170	170	171	172	
Firm Power Purchases	MW	20	20	20	20	20	20	
Firm Power Sales	MW	62	62	62	62	62	62	
Controllable and Dispatchable DR - Available	MW	1	1	1	1	1	1	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)		MW	208	209	210	211	212	213
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	233	234	235	236	237	238	
Excess Capacity	MW	24	21	19	18	17	16	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	23.4%	22.0%	21.1%	20.6%	20.2%	19.6%
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

NEBRASKA CITY UTILITIES



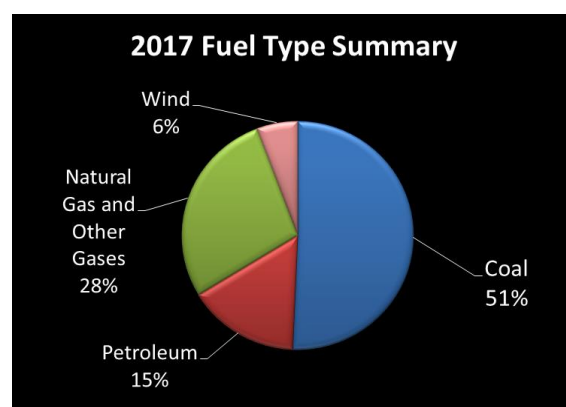
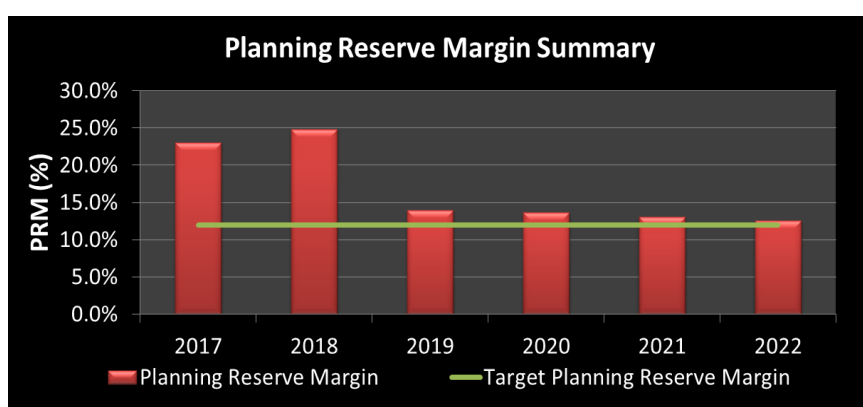
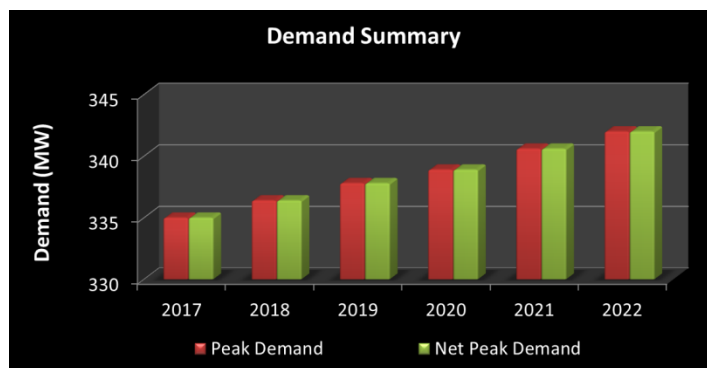
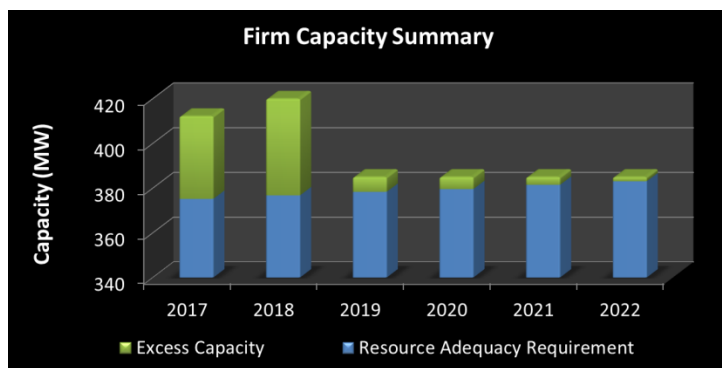
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	38	38	38	38	38	38	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	11	11	11	11	11	11	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	49	49	49	49	49	49	
Demand Summary								
Peak Demand (Forecasted)	MW	37	37	37	37	37	37	
Firm Power Purchases	MW	8	8	8	8	8	8	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	29	29	29	29	29	29	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	33	33	32	32	32	32	
Excess Capacity	MW	16	16	16	16	16	16	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

NEBRASKA PUBLIC POWER DISTRICT



Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	3,072	3,077	3,054	3,054	3,054	3,053	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	195	198	198	198	198	198	
Firm Capacity Sales	MW	281	191	166	166	166	166	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	10	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	2,976	3,083	3,086	3,086	3,086	3,084	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	2,943	2,987	2,925	2,876	2,870	2,854	
Firm Power Purchases	MW	473	473	473	473	473	473	
Firm Power Sales	MW	35	29	42	19	8	1	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	2,506	2,543	2,493	2,421	2,405	2,381	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	4	7	10	13	17	20	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	2,806	2,848	2,792	2,712	2,693	2,667	
Excess Capacity	MW	170	236	293	374	393	417	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
Planning Reserve Margin	%	18.8%	21.3%	23.8%	27.4%	28.3%	29.5%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

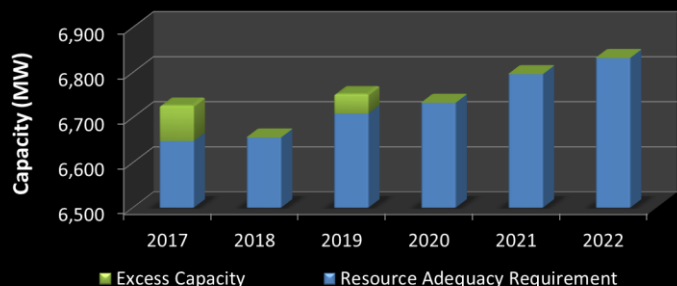
NORTHWESTERN ENERGY



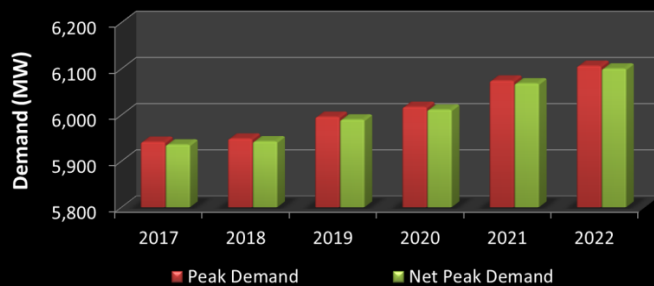
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	382	385	385	385	385	385	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	30	35	0	0	0	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	412	420	385	385	385	385	
Demand Summary								
Peak Demand (Forecasted)	MW	335	336	338	339	341	342	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	335	336	338	339	341	342	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	375	377	378	380	381	383	
Excess Capacity	MW	37	43	7	5	4	2	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
	%	23.0%	24.9%	14.0%	13.6%	13.0%	12.6%	

OKLAHOMA GAS & ELECTRIC COMPANY

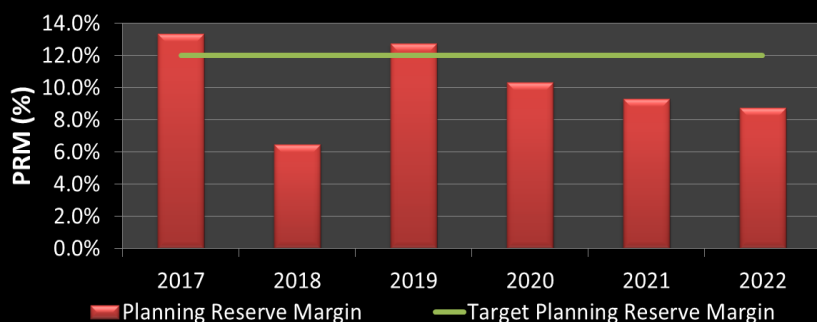
Firm Capacity Summary



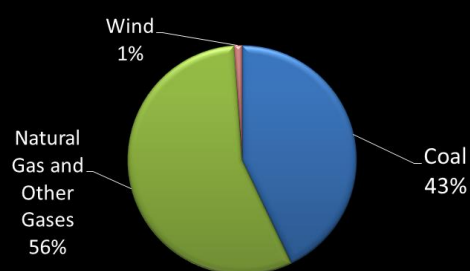
Demand Summary



Planning Reserve Margin Summary

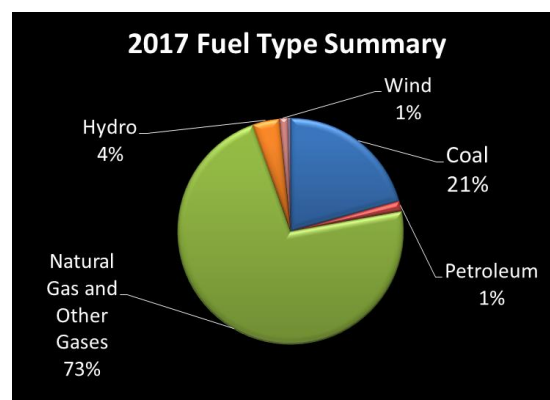
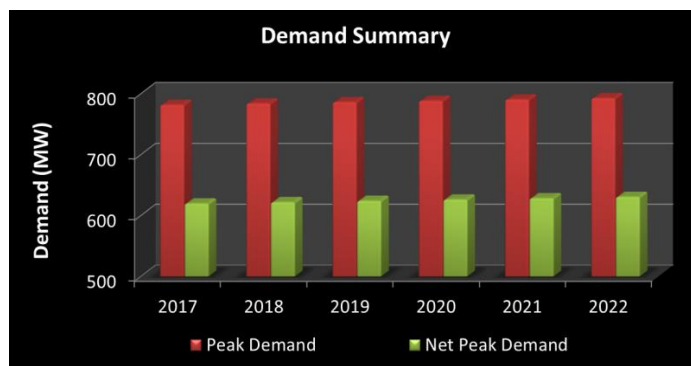
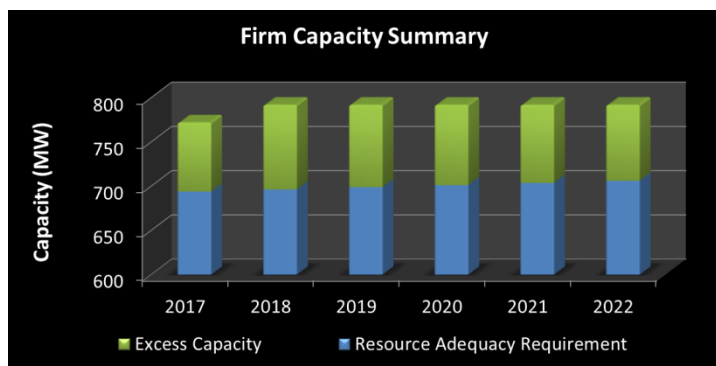


2017 Fuel Type Summary



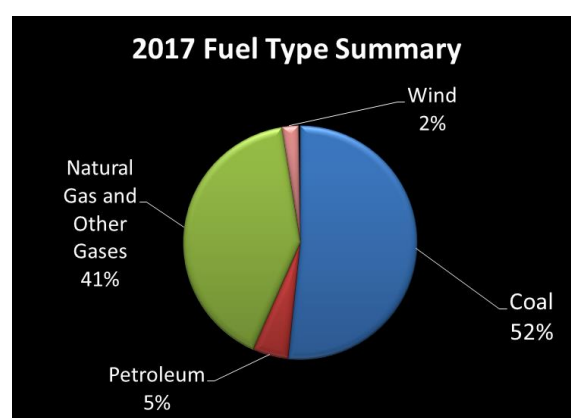
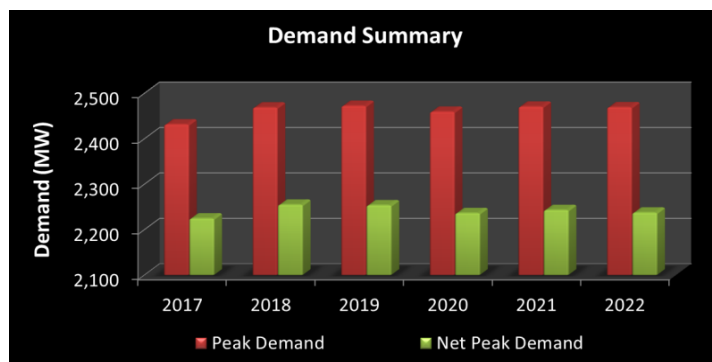
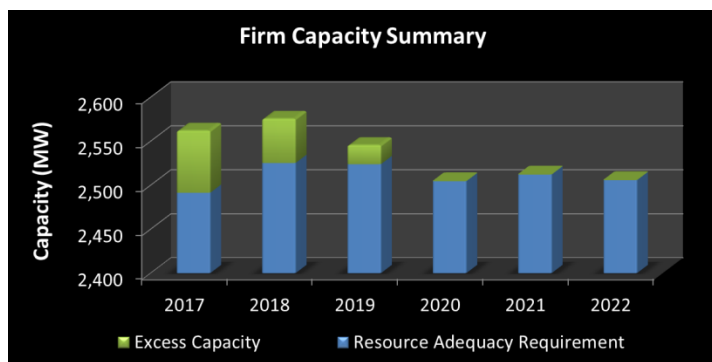
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	6,259	6,380	6,284	6,284	6,284	6,284	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	468	468	468	348	348	348	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	372	372	372	372	372	
Scheduled Outages	MW	0	521	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	6,727	6,327	6,752	6,632	6,632	6,632	
Demand Summary								
Peak Demand (Forecasted)	MW	5,942	5,949	5,996	6,017	6,074	6,106	
Firm Power Purchases	MW	6	6	6	6	6	6	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	5,936	5,943	5,990	6,011	6,068	6,100	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	162	222	248	273	300	326	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	6,648	6,656	6,709	6,733	6,796	6,832	
Excess Capacity	MW	79	0	44	0	0	0	
Deficient Capacity	MW	0	329	0	100	164	200	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

OKLAHOMA MUNICIPAL POWER AUTHORITY



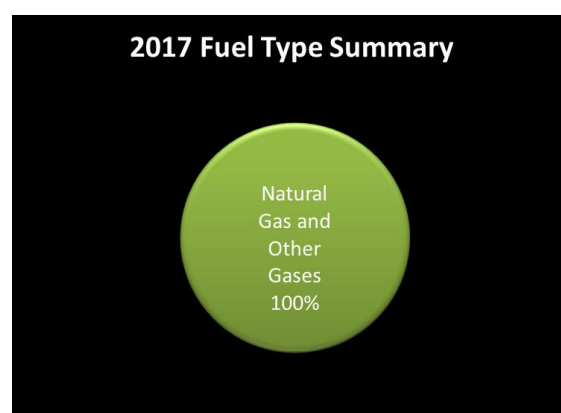
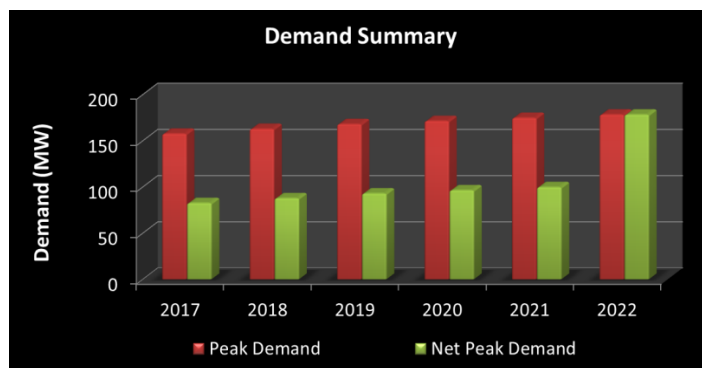
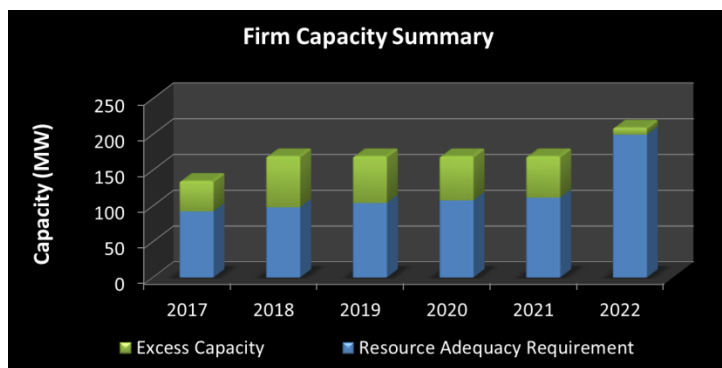
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	713	713	713	713	713	713	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	59	79	79	79	79	79	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	772	792	792	792	792	792	
Demand Summary		Unit	2017	2018	2019	2020	2021	2022
Peak Demand (Forecasted)	MW	782	784	786	788	790	793	
Firm Power Purchases	MW	162	162	162	162	162	162	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	620	622	624	626	628	631	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary		Unit	2017	2018	2019	2020	2021	2022
Resource Adequacy Requirement	MW	694	696	699	701	704	706	
Excess Capacity	MW	78	95	93	91	88	86	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin		%	2017	2018	2019	2020	2021	2022
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

OMAHA PUBLIC POWER DISTRICT



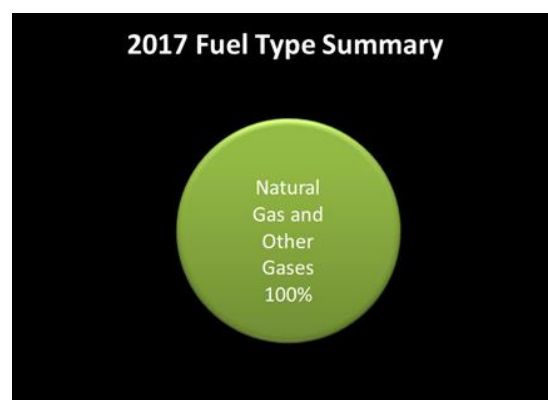
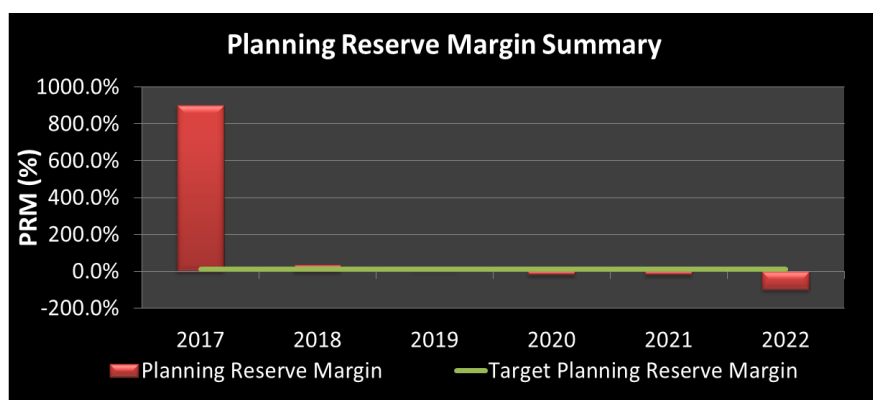
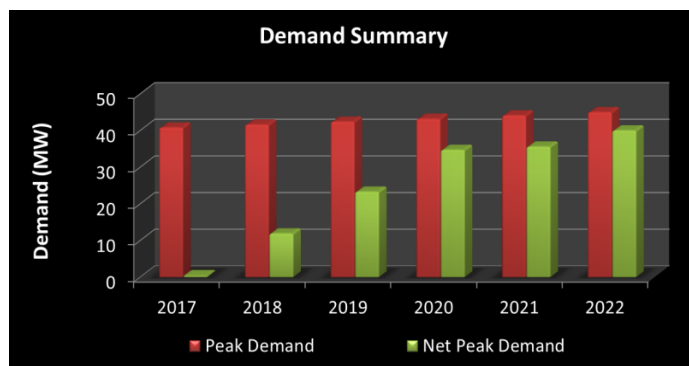
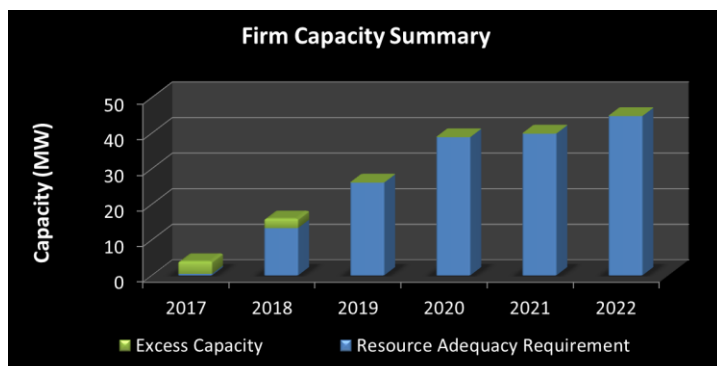
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	2,713	2,744	2,744	2,744	2,744	2,744	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	240	190	140	75	75	0	
Firm Capacity Sales	MW	387	359	339	339	339	339	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	4	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	2,562	2,576	2,546	2,481	2,481	2,406	
Demand Summary								
Peak Demand (Forecasted)	MW	2,431	2,469	2,472	2,459	2,471	2,469	
Firm Power Purchases	MW	87	87	87	87	87	87	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	88	95	100	104	109	113	
Other Controllable and Dispatchable DEG - Available	MW	32	32	32	32	32	32	
Net Peak Demand (Forecasted)	MW	2,225	2,255	2,254	2,236	2,243	2,237	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	3	3	3	3	3	3	
Requirements Summary								
Resource Adequacy Requirement	MW	2,491	2,525	2,524	2,505	2,512	2,506	
Excess Capacity	MW	71	50	22	0	0	0	
Deficient Capacity	MW	0	0	0	24	31	100	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
Actual Planning Reserve Margin	%	15.2%	14.2%	13.0%	10.9%	10.6%	7.5%	

PEOPLE'S ELECTRIC COOPERATIVE



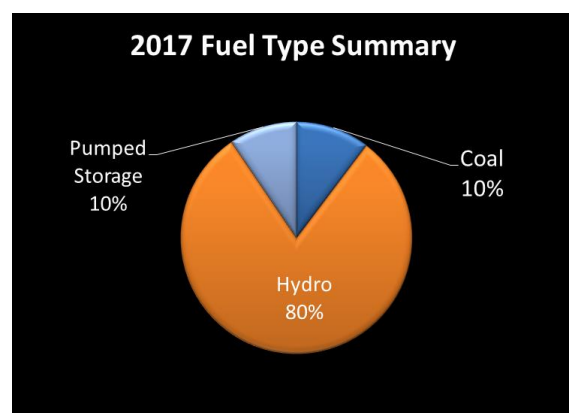
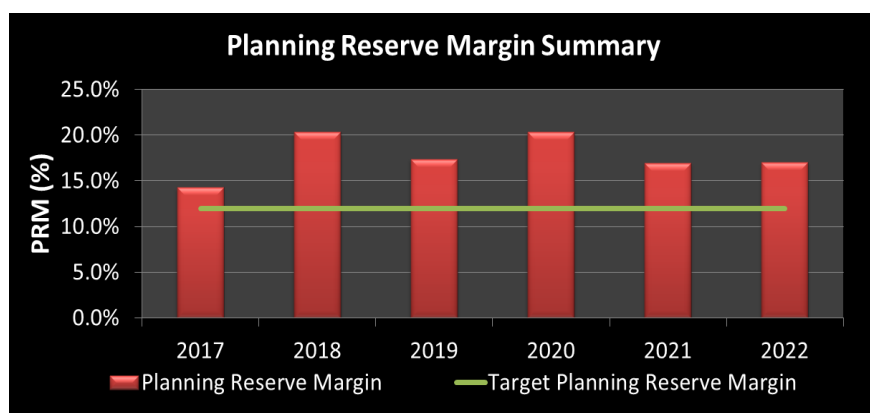
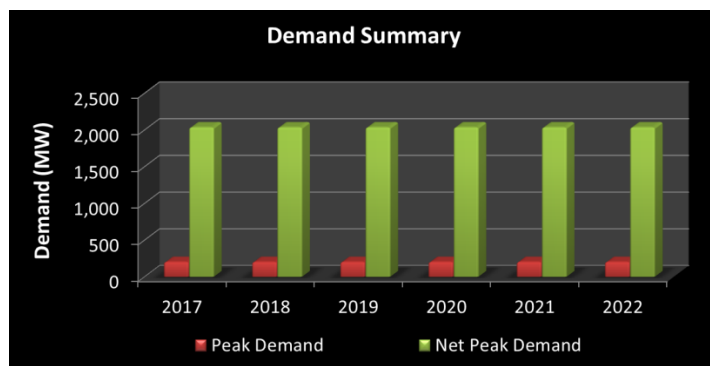
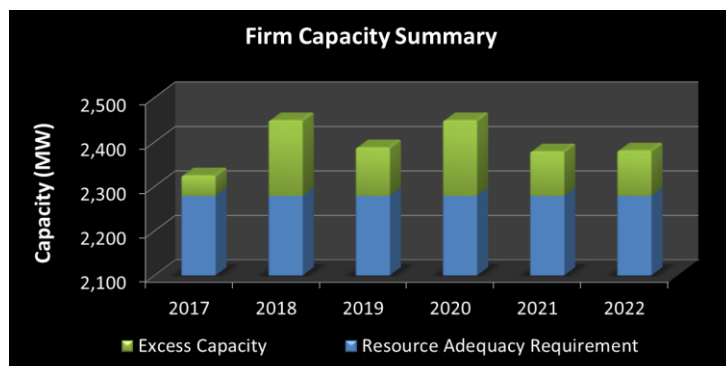
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	60	73	73	73	73	73	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	75	97	97	97	97	137	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	135	170	170	170	170	210	
Demand Summary								
Peak Demand (Forecasted)	MW	158	163	168	171	175	178	
Firm Power Purchases	MW	75	75	75	75	75	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	83	88	93	96	100	178	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	93	98	104	108	112	200	
Excess Capacity	MW	42	71	65	62	58	10	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

SOUTH SIOUX CITY NEBRASKA



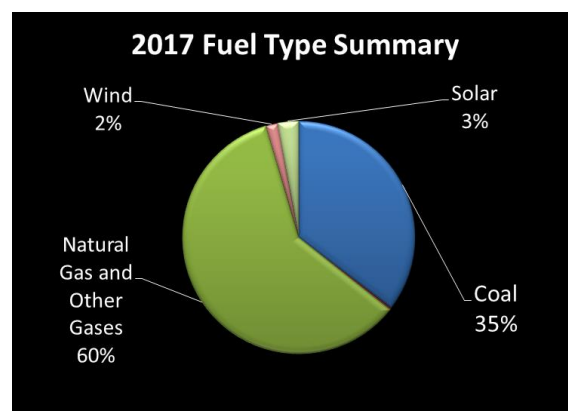
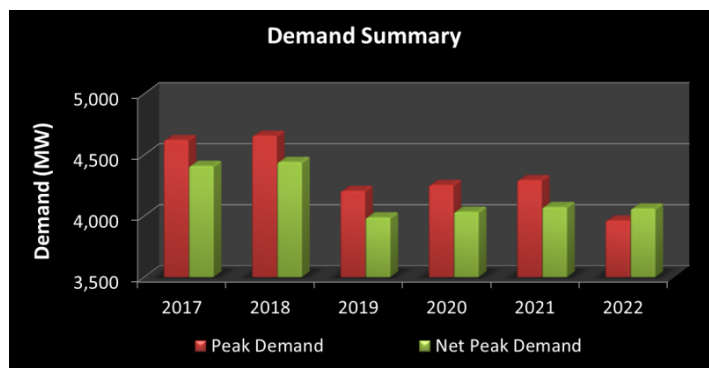
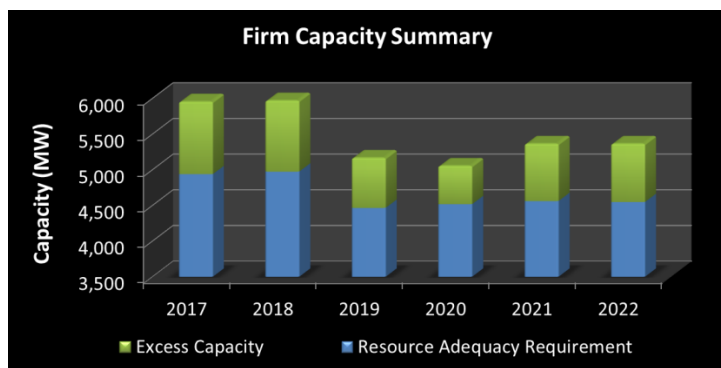
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	0	0	0	0	0	0	0
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	4	16	24	28	29	0	
Firm Capacity Sales	MW	0	0	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	4	16	24	28	29	0	
Demand Summary								
Peak Demand (Forecasted)	MW	41	42	42	43	44	45	
Firm Power Purchases	MW	40	30	19	9	9	5	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	0	12	23	35	36	40	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	0	13	26	39	40	45	
Excess Capacity	MW	4	3	0	0	0	0	
Deficient Capacity	MW	0	0	2	11	11	45	
Planning Reserve Margin		%						
SPP Target Planning Reserve Margin	%	900.0%	34.5%	3.0%	-19.3%	-18.5%	-100.0%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

SOUTHWESTERN POWER ADMINISTRATION



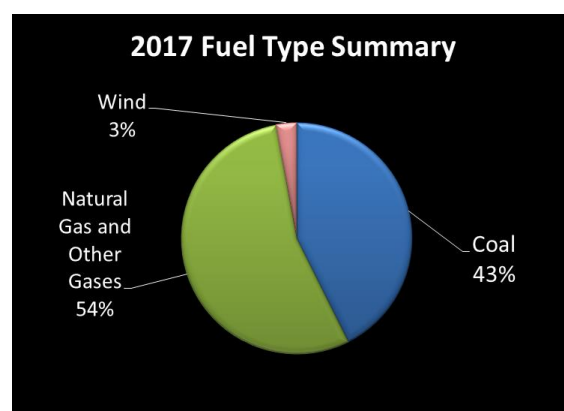
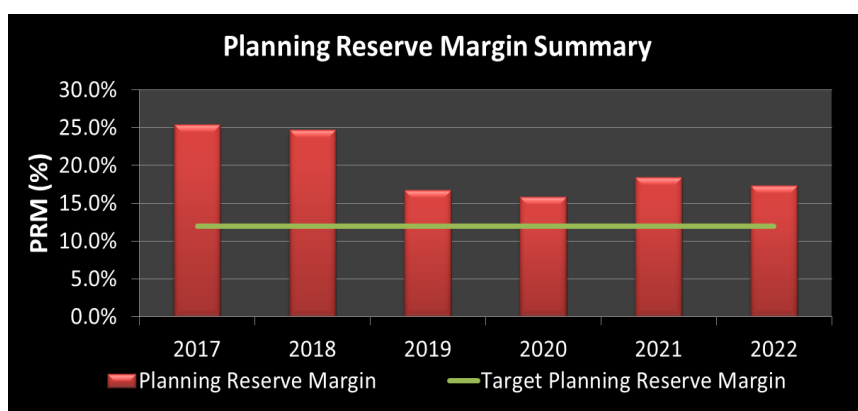
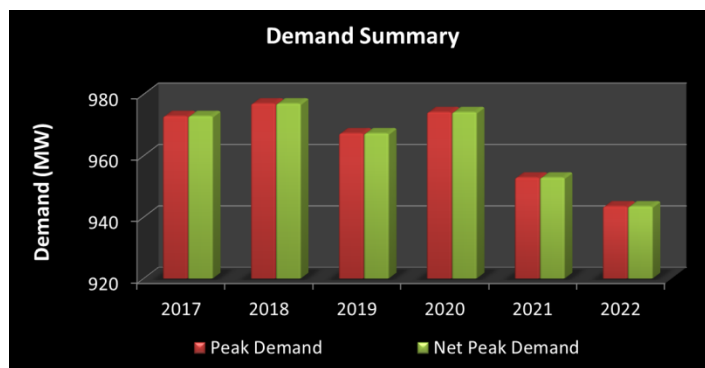
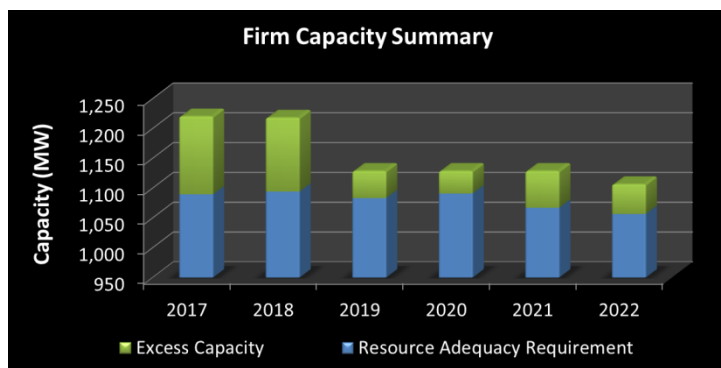
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	2,355	2,355	2,355	2,355	2,355	2,355	2,355
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	213	143	143	143	143	143	143
Firm Capacity Sales	MW	26	26	26	26	26	26	26
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	194	0	63	0	78	78	78
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	24	24	22	24	16	14	14
Firm Capacity	MW	2,325	2,449	2,388	2,449	2,379	2,381	
Demand Summary								
Peak Demand (Forecasted)	MW	203	203	203	203	203	203	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	1,832	1,832	1,832	1,832	1,832	1,832	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	2,035	2,035	2,035	2,035	2,035	2,035	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	2,236	2,236	2,236	2,236	2,236	2,236	
Excess Capacity	MW	88	213	151	213	143	145	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	9.89%	9.89%	9.89%	9.89%	9.89%	9.89%	

SOUTHWESTERN PUBLIC SERVICE COMPANY



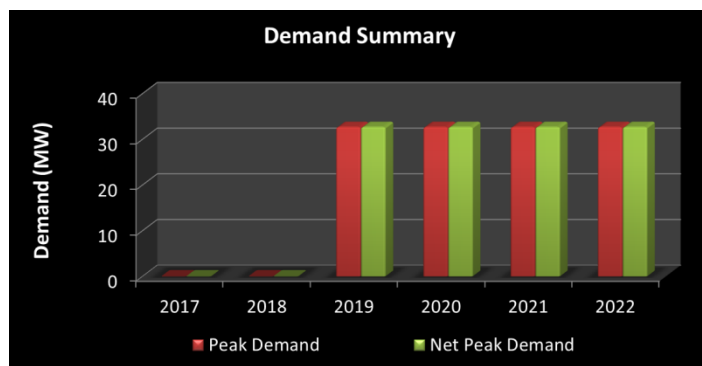
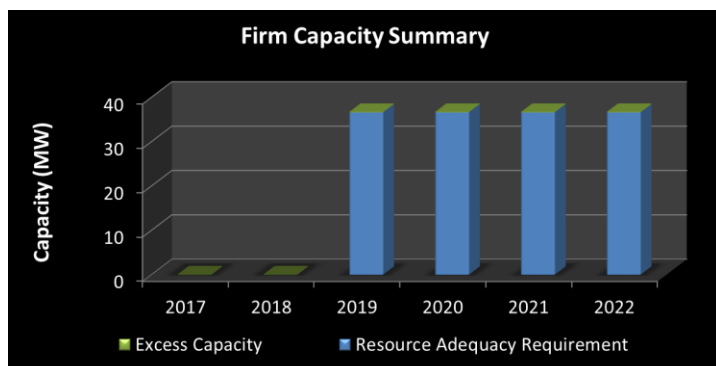
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	4,485	4,485	4,485	4,373	4,283	4,283	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	1,471	1,486	1,083	1,083	1,083	1,083	
Firm Capacity Sales	MW	0	0	400	400	0	0	
Confirmed Retirements	MW	0	0	0	112	202	202	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	5,956	5,971	5,168	5,056	5,366	5,366	
Demand Summary								
Peak Demand (Forecasted)	MW	4,622	4,657	4,205	4,253	4,293	3,963	
Firm Power Purchases	MW	171	171	171	171	171	0	
Firm Power Sales	MW	0	0	0	0	0	150	
Controllable and Dispatchable DR - Available	MW	41	42	43	43	43	44	
Other Controllable and Dispatchable DEG - Available	MW	0	2	3	5	6	8	
Net Peak Demand (Forecasted)	MW	4,410	4,442	3,988	4,034	4,073	4,061	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	4,939	4,975	4,467	4,518	4,562	4,548	
Excess Capacity	MW	1,017	996	701	538	804	818	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	
	%	35.1%	34.4%	29.6%	25.3%	31.7%	32.1%	

SUNFLOWER ELECTRIC POWER CORPORATION



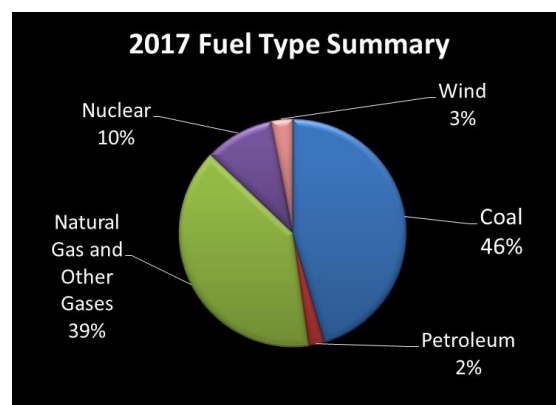
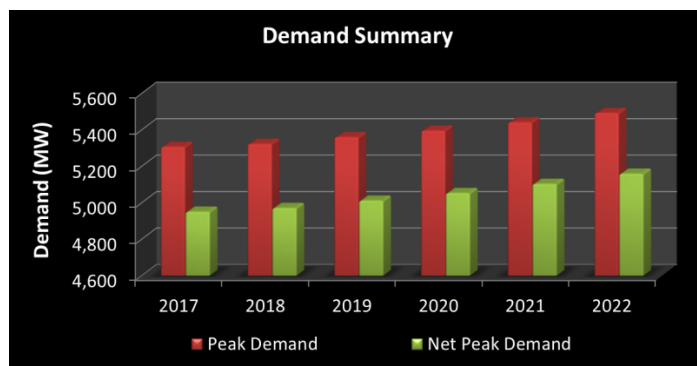
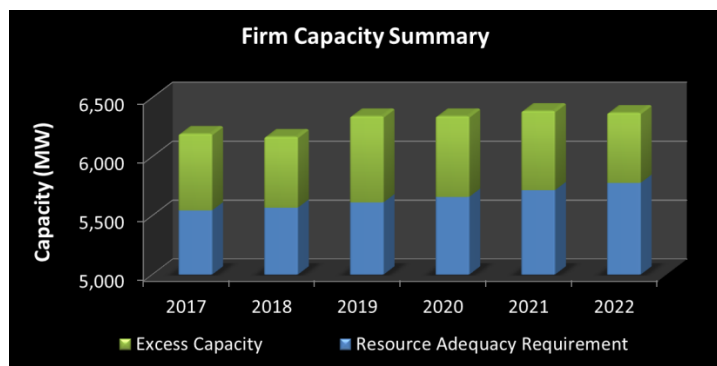
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	1,061	1,074	1,122	1,122	1,122	1,100	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	188	188	7	7	7	7	
Firm Capacity Sales	MW	29	44	0	0	0	0	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	1,220	1,218	1,129	1,129	1,129	1,107	
Demand Summary								
Peak Demand (Forecasted)	MW	973	977	967	974	953	944	
Firm Power Purchases	MW	0	0	0	0	0	0	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	973	977	967	974	953	944	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	1,090	1,094	1,083	1,091	1,067	1,057	
Excess Capacity	MW	131	124	45	38	62	50	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

WEST TEXAS MUNICIPALS



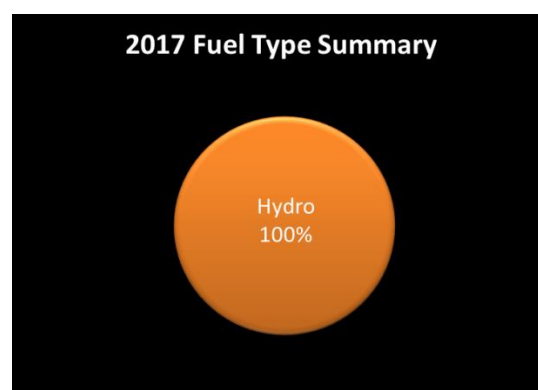
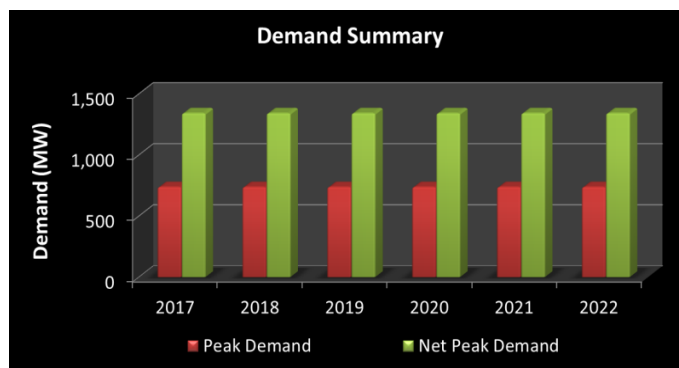
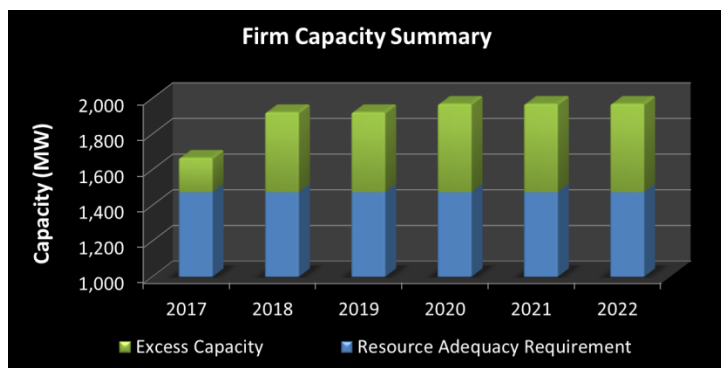
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW		0	0	0	0	0	0
Firm Capacity Resources (Other)	MW		0	0	0	0	0	0
Firm Capacity Purchases	MW		0	0	37	37	37	37
Firm Capacity Sales	MW		0	0	0	0	0	0
Confirmed Retirements	MW		0	0	0	0	0	0
Scheduled Outages	MW		0	0	0	0	0	0
Transmission Limitations	MW		0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW		0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW		0	0	0	0	0	0
Firm Capacity	MW		0	0	37	37	37	37
Demand Summary								
Peak Demand (Forecasted)	MW		0	0	33	33	33	33
Firm Power Purchases	MW		0	0	0	0	0	0
Firm Power Sales	MW		0	0	0	0	0	0
Controllable and Dispatchable DR - Available	MW		0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW		0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW		0	0	33	33	33	33
Energy Efficiency and Conservation (Included in Peak Demand)	MW		0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW		0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW		---	---	37	37	37	37
Excess Capacity	MW		---	---	0	0	0	0
Deficient Capacity	MW		---	---	0	0	0	0
Planning Reserve Margin								
SPP Target Planning Reserve Margin	%		---	---	12.2%	12.2%	12.2%	12.2%

WESTAR ENERGY



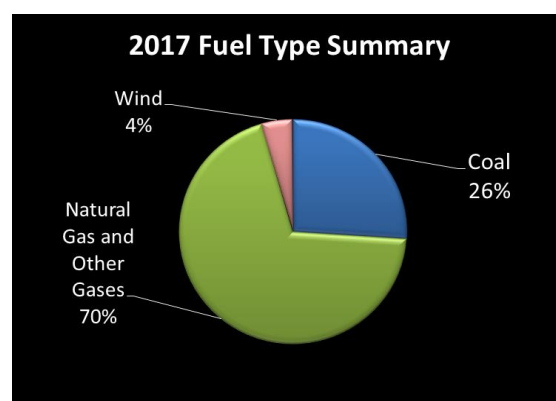
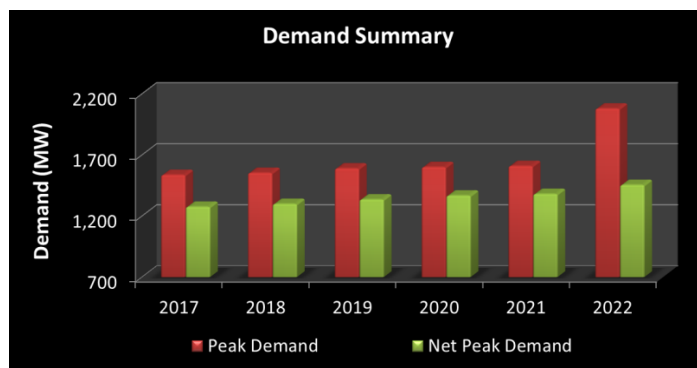
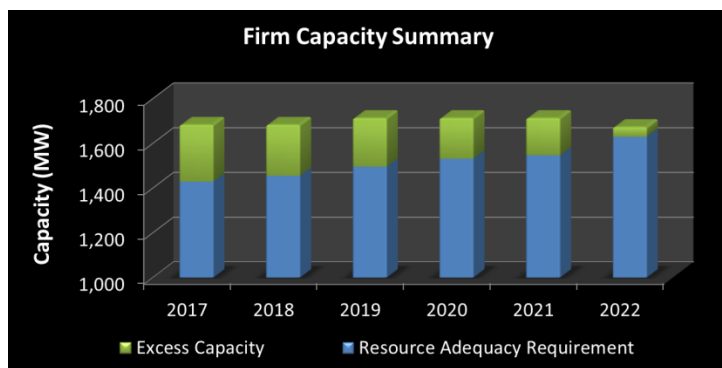
Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	6,527	6,527	6,527	6,527	6,527	6,527	
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	
Firm Capacity Purchases	MW	433	383	420	355	275	209	
Firm Capacity Sales	MW	766	741	604	539	414	364	
Confirmed Retirements	MW	0	0	0	0	0	0	
Scheduled Outages	MW	0	0	0	0	0	0	
Transmission Limitations	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	
Firm Capacity	MW	6,194	6,169	6,343	6,343	6,388	6,372	
Demand Summary								
Peak Demand (Forecasted)	MW	5,307	5,323	5,360	5,396	5,441	5,492	
Firm Power Purchases	MW	112	112	112	112	112	112	
Firm Power Sales	MW	0	0	0	0	0	0	
Controllable and Dispatchable DR - Available	MW	244	240	236	231	226	221	
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	
Net Peak Demand (Forecasted)	MW	4,951	4,971	5,012	5,053	5,104	5,159	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	5,545	5,567	5,613	5,659	5,716	5,778	
Excess Capacity	MW	649	602	730	684	672	594	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin								
Planning Reserve Margin	%	25.1%	24.1%	26.6%	25.5%	25.2%	23.5%	
SPP Target Planning Reserve Margin	%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	

WESTERN AREA POWER ADMINISTRATION



Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	2,406	2,406	2,406	2,406	2,406	2,406	2,406
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	2	2	2	4	4	4	4
Firm Capacity Sales	MW	440	440	440	440	440	440	440
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	45	45	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	301	0	0	0	0	0	0
Firm Capacity	MW	1,667	1,923	1,923	1,970	1,970	1,970	1,970
Demand Summary								
Peak Demand (Forecasted)	MW	738	738	738	738	738	738	738
Firm Power Purchases	MW	144	144	144	144	144	144	144
Firm Power Sales	MW	748	748	748	748	748	748	748
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	0
Other Controllable and Dispatchable DEG - Available	MW	0	0	0	0	0	0	0
Net Peak Demand (Forecasted)	MW	1,342	1,342	1,342	1,342	1,342	1,342	1,342
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	0
Requirements Summary								
Resource Adequacy Requirement	MW	1,475	1,475	1,475	1,475	1,475	1,475	1,475
Excess Capacity	MW	192	448	448	495	495	495	495
Deficient Capacity	MW	0	0	0	0	0	0	0
Planning Reserve Margin	%	24.2%	43.3%	43.3%	46.8%	46.8%	46.8%	46.8%
SPP Target Planning Reserve Margin	%	9.89%	9.89%	9.89%	9.89%	9.89%	9.89%	9.89%

WESTERN FARMERS ENERGY SERVICES



Firm Capacity Summary		Unit	2017	2018	2019	2020	2021	2022
Firm Capacity Resources	MW	1,359	1,359	1,359	1,359	1,359	1,359	1,359
Firm Capacity Resources (Other)	MW	0	0	0	0	0	0	0
Firm Capacity Purchases	MW	325	325	355	355	355	355	355
Firm Capacity Sales	MW	0	0	0	0	0	0	40
Confirmed Retirements	MW	0	0	0	0	0	0	0
Scheduled Outages	MW	0	0	0	0	0	0	0
Transmission Limitations	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Additions	MW	0	0	0	0	0	0	0
Other Capacity Adjustments - Reductions	MW	0	0	0	0	0	0	0
Firm Capacity	MW	1,683	1,683	1,713	1,713	1,713	1,673	
Demand Summary								
Peak Demand (Forecasted)	MW	1,537	1,554	1,590	1,601	1,610	2,080	
Firm Power Purchases	MW	460	460	460	460	460	610	
Firm Power Sales	MW	246	246	246	246	246	0	
Controllable and Dispatchable DR - Available	MW	0	0	0	0	0	0	
Other Controllable and Dispatchable DEG - Available	MW	47	40	40	19	15	15	
Net Peak Demand (Forecasted)	MW	1,276	1,300	1,336	1,368	1,381	1,455	
Energy Efficiency and Conservation (Included in Peak Demand)	MW	0	0	0	0	0	0	
Standby Load Under Contract (Included in Peak Demand)	MW	0	0	0	0	0	0	
Requirements Summary								
Resource Adequacy Requirement	MW	1,429	1,455	1,496	1,532	1,547	1,630	
Excess Capacity	MW	254	228	217	181	167	44	
Deficient Capacity	MW	0	0	0	0	0	0	
Planning Reserve Margin	%	31.9%	29.5%	28.2%	25.3%	24.1%	15.0%	

