

MEEIA Cycle 2 Throughput Disincentive Example  
 Example Assumes 5 Standard Measures for One Residential Program

2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016
January	February	March	April	May	June	July	August	September	October	November	December	

Throughput Disincentive Calculation - Recovered Contemporaneously through DSIM Rider

Example Assumptions -	
General Rate Case Effective Date	2/1/2017
True-Up Date	8/31/2016
Rate Increase	5.0%
2016 EM&V Approved	
Ex Post Gross kWh Savings Per Measure A	975
Ex Post Gross kWh Savings Per Measure E	775
Ex Post Gross kWh Savings Per Measure C	1,200
Ex Post Gross kWh Savings Per Measure D	550
Ex Post Gross kWh Savings Per Measure E	55
2017 EM&V Approved	
Ex Post Gross kWh Savings Per Measure	1,050
Program Net To Gross	95.0%

1 MC	Measure Units Installed - Measure A	Per Implementer	10	15	20	25	20	30	45	50	60	55	50	60
	Measure Units Installed - Measure E		13	18	23	28	23	33	48	53	63	58	53	63
	Measure Units Installed - Measure C		8	13	18	23	18	28	43	48	58	53	48	58
	Measure Units Installed - Measure D		20	30	40	50	40	60	90	100	120	110	100	120
	Measure Units Installed - Measure E		50	75	100	125	100	150	225	250	300	275	250	300
2 ME	Annual Normalized kWh Savings per Measure - A	Per TRM	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
	Annual Normalized kWh Savings per Measure - B		750	750	750	750	750	750	750	750	750	750	750	750
	Annual Normalized kWh Savings per Measure - C		1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
	Annual Normalized kWh Savings per Measure - D		500	500	500	500	500	500	500	500	500	500	500	500
	Annual Normalized kWh Savings per Measure - E		50	50	50	50	50	50	50	50	50	50	50	50
3 MAS	Total Program kWh Savings Installed Measures	= Sumproduct (1 x 2)	42,250	63,500	84,750	106,000	84,750	127,250	191,000	212,250	254,750	233,500	212,250	254,750
4 CAS	Cumulative Program kWh Savings	Sum of 3, Program-to-Date	42,250	105,750	190,500	296,500	381,250	508,500	699,500	911,750	1,166,500	1,400,000	1,612,250	1,867,000
5 RA	Cumulative Program kWh Savings Rebased in General Rate Case	For Example Purposes Assumed 2 months preceding the True-Up Date	-	-	-	-	-	-	-	-	-	-	-	-
6	Cumulative Program kWh Savings, net	= (4 + 5)	42,250	105,750	190,500	296,500	381,250	508,500	699,500	911,750	1,166,500	1,400,000	1,612,250	1,867,000
7	Mid-Month Program kWh Savings	= (3 x 50%)	21,125	31,750	42,375	53,000	42,375	63,625	95,500	106,125	127,375	116,750	106,125	127,375
8	Preceding Month Cumulative Program kWh Savings, net	= (6 preceding month)	-	42,250	105,750	190,500	296,500	381,250	508,500	699,500	911,750	1,166,500	1,400,000	1,612,250
9 LS	Monthly Program LoadShape %	Per SB file	10.160209%	9.176963%	8.665566%	8.386032%	8.665566%	6.805615%	7.075037%	7.124154%	7.345904%	8.352083%	8.082661%	10.160209%
10 MS	Monthly Program kWh Savings per TRM	= (7 + 8) x 9	2,146	6,791	12,836	20,420	29,365	30,276	42,733	57,394	76,333	107,178	121,735	176,750
11 NMR	Residential Incremental Rate per kWh	Per Last Rate Case Effective	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.09700	\$ 0.09700	\$ 0.09700	\$ 0.09700	\$ 0.06600	\$ 0.06600	\$ 0.06600
12	Estimated Residential Program Throughput Disincentive = (10 x 11)	NTGF	\$ 141.66	\$ 448.20	\$ 847.17	\$ 1,347.72	\$ 1,938.12	\$ 2,936.82	\$ 4,145.12	\$ 5,567.22	\$ 7,404.31	\$ 7,073.76	\$ 8,034.51	\$ 11,665.47
13 TD\$	Residential Program Throughput Disincentive Recovered at NTGF	= (12 x TD NTG Factor %)	85%	\$ 120.41	\$ 380.97	\$ 720.09	\$ 1,145.56	\$ 1,647.40	\$ 2,496.30	\$ 3,523.35	\$ 4,732.14	\$ 6,293.66	\$ 6,012.70	\$ 8,229.33

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Throughput Disincentive Calculation - Recovered Contemporaneously through DSIM Rider

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General Rate Case Effective Date	2/1/2017
True-Up Date	8/31/2016
Rate Increase	5.0%
2016 EM&V Approved	
Ex Post Gross kWh Savings Per Measure A	975
Ex Post Gross kWh Savings Per Measure E	775
Ex Post Gross kWh Savings Per Measure C	1,200
Ex Post Gross kWh Savings Per Measure D	550
Ex Post Gross kWh Savings Per Measure E	55
2017 EM&V Approved	
Ex Post Gross kWh Savings Per Measure	1,050
Program Net To Gross	95.0%

1 MC	Measure Units Installed - Measure A	Per Implementer	40	50	60	70	80	90	100	105	115	100	110	150
	Measure Units Installed - Measure E		43	53	63	73	83	93	103	108	118	103	113	153
	Measure Units Installed - Measure C		38	48	58	68	78	88	98	103	113	98	108	148
	Measure Units Installed - Measure D		80	100	120	140	160	180	200	210	230	200	220	300
	Measure Units Installed - Measure E		200	250	300	350	400	450	500	525	575	500	550	750
2 ME	Annual Normalized kWh Savings per Measure - A	Per TRM	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	975	975	975
	Annual Normalized kWh Savings per Measure - B		750	750	750	750	750	750	750	750	750	775	775	775
	Annual Normalized kWh Savings per Measure - C		1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,200	1,200	1,200
	Annual Normalized kWh Savings per Measure - D		500	500	500	500	500	500	500	500	500	550	550	550
	Annual Normalized kWh Savings per Measure - E		50	50	50	50	50	50	50	50	50	55	55	55
3 MAS	Total Program kWh Savings Installed Measures	= Sumproduct (1 x 2)	169,750	212,250	254,750	297,250	339,750	382,250	424,750	446,000	488,500	432,425	475,675	648,675
4 CAS	Cumulative Program kWh Savings	Sum of 3, Program-to-Date	2,036,750	2,249,000	2,503,750	2,801,000	3,140,750	3,523,000	3,947,750	4,393,750	4,882,250	5,314,675	5,790,350	6,439,025
5 RA	Cumulative Program kWh Savings Rebased in General Rate Case	For Example Purposes Assumed 2 months preceding the True-Up Date	-	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)	(508,500)
6	Cumulative Program kWh Savings, net	= (4 + 5)	2,036,750	1,740,500	1,995,250	2,292,500	2,632,250	3,014,500	3,439,250	3,885,250	4,373,750	4,806,175	5,281,850	5,930,525
7	Mid-Month Program kWh Savings	= (3 x 50%)	84,875	106,125	127,375	148,625	169,875	191,125	212,375	223,000	244,250	216,213	237,838	324,338
8	Preceding Month Cumulative Program kWh Savings, net	= (6 preceding month)	1,867,000	2,036,750	1,740,500	1,995,250	2,292,500	2,632,250	3,014,500	3,439,250	3,885,250	4,373,750	4,806,175	5,281,850
9 LS	Monthly Program LoadShape %	Per SB file	10.160209%	9.176963%	8.665566%	8.386032%	8.665566%	6.805615%	7.075037%	7.124154%	7.345904%	8.352083%	8.082661%	10.160209%
10 MS	Monthly Program kWh Savings per TRM	= (7 + 8) x 9	198,315	196,651	161,862	179,786	213,379	192,148	228,303	260,904	303,349	383,357	407,690	569,600
11 NMR	Residential Incremental Rate per kWh	Per Last Rate Case Effective	\$ 0.06600	\$ 0.06930	\$ 0.06930	\$ 0.06930	\$ 0.06930	\$ 0.10185	\$ 0.10185	\$ 0.10185	\$ 0.10185	\$ 0.06930	\$ 0.06930	\$ 0.06930
12	Estimated Residential Program Throughput Disincentive = (10 x 11)	NTGF	\$ 13,088.76	\$ 13,627.90	\$ 11,217.03	\$ 12,459.17	\$ 14,787.15	\$ 19,570.28	\$ 23,252.62	\$ 26,573.11	\$ 30,896.11	\$ 26,566.67	\$ 28,252.95	\$ 39,473.30
13 TD\$	Residential Program Throughput Disincentive Recovered at NTGF	= (12 x TD NTG Factor %)	85%	\$ 11,125.45	\$ 11,583.72	\$ 9,534.48	\$ 10,590.29	\$ 12,569.08	\$ 16,634.74	\$ 19,764.73	\$ 22,587.14	\$ 26,261.69	\$ 22,581.67	\$ 33,552.31

Earnings Opportunity TD Adjustments - Recovered over 2 years following Cycle														
TD NTG Adjustment														
14	Estimated Throughput Disincentiv	= 12	\$ 141.66	\$ 448.20	\$ 847.17	\$ 1,347.72	\$ 1,938.12	\$ 2,936.82	\$ 4,145.12	\$ 5,567.22	\$ 7,404.31	\$ 7,073.76	\$ 8,034.51	\$ 11,665.47
15	Estimated TD NTG	= 14 x (1 - (TD Cap <NTG > TD Floor ))	\$ 134.58	\$ 425.79	\$ 804.81	\$ 1,280.33	\$ 1,841.21	\$ 2,789.98	\$ 3,937.86	\$ 5,288.86	\$ 7,034.09	\$ 6,720.07	\$ 7,632.78	\$ 11,082.20
16	TD NTG Adjustment	= (15 - 13)	\$ 14.17	\$ 44.82	\$ 84.72	\$ 134.77	\$ 193.81	\$ 293.68	\$ 414.51	\$ 556.72	\$ 740.43	\$ 707.37	\$ 803.45	\$ 1,166.55
TD Ex Post Gross Adjustment														
17	Measure Units Installed - Measure A	Per Implementer	10	15	20	25	20	30	45	50	60	55	50	60
	Measure Units Installed - Measure E		13	18	23	28	23	33	48	53	63	58	53	63
	Measure Units Installed - Measure C		8	13	18	23	18	28	43	48	58	53	48	58
	Measure Units Installed - Measure E		20	30	40	50	40	60	90	100	120	110	100	120
	Measure Units Installed - Measure E		50	75	100	125	100	150	225	250	300	275	250	300
18	Annual Normalized kWh Savings per Measure - A	Per EM&V	975	975	975	975	975	975	975	975	975	975	975	975
	Annual Normalized kWh Savings per Measure - B		775	775	775	775	775	775	775	775	775	775	775	775
	Annual Normalized kWh Savings per Measure - C		1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
	Annual Normalized kWh Savings per Measure - D		550	550	550	550	550	550	550	550	550	550	550	550
	Annual Normalized kWh Savings per Measure - E		55	55	55	55	55	55	55	55	55	55	55	55
19	Total Program kWh Savings Installed Measures	= (17 x 18)	43,175	64,800	86,425	108,050	86,425	129,675	194,550	216,175	259,425	237,800	216,175	259,425
20	Cumulative Program kWh Savings	Sum of 19, Program-to-Date	43,175	107,975	194,400	302,450	388,875	518,550	713,100	929,275	1,188,700	1,426,500	1,642,675	1,902,100
21	Cumulative Program kWh Savings Rebased in General Rate Case	For Example Purposes Assumed 2 months preceding the True-Up Date	-	-	-	-	-	-	-	-	-	-	-	-
22	Cumulative Program kWh Savings, net	= (20 + 21)	43,175	107,975	194,400	302,450	388,875	518,550	713,100	929,275	1,188,700	1,426,500	1,642,675	1,902,100
23	Mid-Month Program kWh Savings	= (19 x 50%)	21,588	32,400	43,213	54,025	43,213	64,838	97,275	108,088	129,713	118,900	108,088	129,713
24	Preceding Month Cumulative Program kWh Savings, net	= (22 preceding month)	-	43,175	107,975	194,400	302,450	388,875	518,550	713,100	929,275	1,188,700	1,426,500	1,642,675
25	Monthly Program LoadShape %	Per SB file	10.160209%	9.176963%	8.665566%	8.386032%	8.665566%	6.805615%	7.075037%	7.124154%	7.345904%	8.352083%	8.082661%	10.160209%
26	Monthly Program kWh Savings	= (23 + 24) x 25	2,193	6,935	13,101	20,833	29,954	30,878	43,570	58,503	77,792	109,212	124,036	180,078
27	Residential Program Incremental Rate per kWh	Per Last Rate Case Effective	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.06600	\$ 0.09700	\$ 0.09700	\$ 0.09700	\$ 0.09700	\$ 0.06600	\$ 0.06600	\$ 0.06600
28	Residential Program Throughput Disincentive Ex Pos	= (26 x 27)	\$ 144.76	\$ 457.74	\$ 864.68	\$ 1,374.98	\$ 1,976.94	\$ 2,995.16	\$ 4,226.28	\$ 5,674.76	\$ 7,545.84	\$ 7,207.98	\$ 8,186.34	\$ 11,885.17
29	Residential Program TD Ex Post Gross x NTG	= 28 x (1 - (TD Cap <NTG > TD Floor ))	\$ 137.52	\$ 434.85	\$ 821.45	\$ 1,306.23	\$ 1,878.09	\$ 2,845.40	\$ 4,014.97	\$ 5,391.02	\$ 7,168.55	\$ 6,847.58	\$ 7,777.02	\$ 11,290.91
30	Residential Program TD Ex Post Gross Adjustmen	= (25 - 12)	\$ 2.94	\$ 9.06	\$ 16.64	\$ 25.90	\$ 36.88	\$ 55.42	\$ 77.11	\$ 102.16	\$ 134.46	\$ 127.51	\$ 144.24	\$ 208.71
31	Earnings Opportunity TD Adjustment:	= (16 + 30)	\$ 17.11	\$ 53.88	\$ 101.36	\$ 160.67	\$ 230.69	\$ 349.10	\$ 491.62	\$ 658.88	\$ 874.89	\$ 834.88	\$ 947.69	\$ 1,375.26
32	Total TD Recovery over Cycle	= (13 + 31)	\$ 137.52	\$ 434.85	\$ 821.45	\$ 1,306.23	\$ 1,878.09	\$ 2,845.40	\$ 4,014.97	\$ 5,391.02	\$ 7,168.55	\$ 6,847.58	\$ 7,777.02	\$ 11,290.91

Earnings Opportunity TD Adjustments - Recovered over 2 years following Cycle														
TD NTG Adjustment														
14	Estimated Throughput Disincentiv	= 12	\$ 13,088.76	\$ 13,627.90	\$ 11,217.03	\$ 12,459.17	\$ 14,787.15	\$ 19,570.28	\$ 23,252.62	\$ 26,573.11	\$ 30,896.11	\$ 26,566.67	\$ 28,252.95	\$ 39,473.30
15	Estimated TD NTG	= 14 x (1 - (TD Cap <NTG > TD Floor ))	\$ 12,434.32	\$ 12,946.51	\$ 10,656.18	\$ 11,836.21	\$ 14,047.79	\$ 18,591.77	\$ 22,089.99	\$ 25,244.45	\$ 29,351.30	\$ 25,238.34	\$ 26,840.30	\$ 37,499.64
16	TD NTG Adjustment	= (15 - 13)	\$ 1,308.87	\$ 1,362.79	\$ 1,121.70	\$ 1,245.92	\$ 1,478.71	\$ 1,957.03	\$ 2,325.26	\$ 2,657.31	\$ 3,089.61	\$ 2,656.67	\$ 2,825.29	\$ 3,947.33
TD Ex Post Gross Adjustment														
17	Measure Units Installed - Measure A	Per Implementer	40	50	60	70	80	90	100	105	115	100	110	150
	Measure Units Installed - Measure E		43	53	63	73	83	93	103	108	118	103	113	153
	Measure Units Installed - Measure C		38	48	58	68	78	88	98	103	113	98	108	148
	Measure Units Installed - Measure D		80	100	120	140	160	180	200	210	230	200	220	300
	Measure Units Installed - Measure E		200	250	300	350	400	450	500	525	575	500	550	750
18	Annual Normalized kWh Savings per Measure - A	Per EM&V	975	975	975	975	975	975	975	975	975	975	975	975
	Annual Normalized kWh Savings per Measure - B		775	775	775	775	775	775	775	775	775	775	775	775
	Annual Normalized kWh Savings per Measure - C		1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
	Annual Normalized kWh Savings per Measure - D		550	550	550	550	550	550	550	550	550	550	550	550
	Annual Normalized kWh Savings per Measure - E		55	55	55	55	55	55	55	55	55	55	55	55
19	Total Program kWh Savings Installed Measures	= (17 x 18)	172,925	216,175	259,425	302,675	345,925	389,175	432,425	454,050	497,300	432,425	475,675	648,675
20	Cumulative Program kWh Savings	Sum of 19, Program-to-Date	2,075,025	2,291,200	2,550,625	2,853,300	3,199,225	3,588,400	4,020,825	4,474,875	4,972,175	5,404,600	5,880,275	6,528,950
21	Cumulative Program kWh Savings Rebased in General Rate Case	For Example Purposes Assumed 2 months preceding the True-Up Date	-	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)	(518,550)
22	Cumulative Program kWh Savings, net	= (20 + 21)	2,075,025	1,772,650	2,032,075	2,334,750	2,680,675	3,069,850	3,502,275	3,956,325	4,453,625	4,886,050	5,361,725	6,010,400
23	Mid-Month Program kWh Savings	= (19 x 50%)	86,463	108,088	129,713	151,338	172,963	194,588	216,213	227,025	248,650	216,213	237,838	324,338
24	Preceding Month Cumulative Program kWh Savings, net	= (22 preceding month)	1,902,100	2,075,025	1,772,650	2,032,075	2,334,750	2,680,675	3,069,850	3,502,275	3,956,325	4,453,625	4,886,050	5,361,725
25	Monthly Program LoadShape %	Per SB file	10.160209%	9.176963%	8.665566%	8.386032%	8.665566%	6.805615%	7.075037%	7.124154%	7.345904%	8.352083%	8.082661%	10.160209%
26	Monthly Program kWh Savings	= (23 + 24) x 25	202,042	200,343	164,850	183,102	217,307	195,679	232,490	265,681	308,893	390,029	414,146	577,716
27	Residential Program Incremental Rate per kWh	Per Last Rate Case Effective	\$ 0.06600	\$ 0.06930	\$ 0.06930	\$ 0.06930	\$ 0.06930	\$ 0.10185	\$ 0.10185	\$ 0.10185	\$ 0.10185	\$ 0.06930	\$ 0.06930	\$ 0.06930
28	Residential Program Throughput Disincentive Ex Pos	= (26 x 27)	\$ 13,334.78	\$ 13,883.80	\$ 11,424.14	\$ 12,688.95	\$ 15,059.41	\$ 19,929.94	\$ 23,679.12	\$ 27,059.62	\$ 31,460.80	\$ 27,028.99	\$ 28,700.35	\$ 40,035.71
29	Residential Program TD Ex Post Gross x NTG	= 28 x (1 - (TD Cap <NTG > TD Floor ))	\$ 12,668.04	\$ 13,189.61	\$ 10,852.93	\$ 12,054.50	\$ 14,306.44	\$ 18,933.44	\$ 22,495.16	\$ 25,706.64	\$ 29,887.76	\$ 25,677.54	\$ 27,265.33	\$ 38,033.92
30	Residential Program TD Ex Post Gross Adjustment	= (25 - 12)	\$ 233.72	\$ 243.10	\$ 196.75	\$ 218.29	\$ 258.65	\$ 341.67	\$ 405.17	\$ 462.19	\$ 536.46	\$ 439.20	\$ 425.03	\$ 534.28
31	Earnings Opportunity TD Adjustment:	= (16 + 30)	\$ 1,542.59	\$ 1,605.89	\$ 1,318.45	\$ 1,464.21	\$ 1,737.36	\$ 2,298.70	\$ 2,730.43	\$ 3,119.50	\$ 3,626.07	\$ 3,095.87	\$ 3,250.32	\$ 4,481.61
32	Total TD Recovery over Cycle	= (13 + 31)	\$ 12,668.04	\$ 13,189.61	\$ 10,852.93	\$ 12,054.50	\$ 14,306.44	\$ 18,933.44	\$ 22,495.16	\$ 25,706.64	\$ 29,887.76	\$ 25,677.54	\$ 27,265.33	\$ 38,033.92