Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Case No. U-18232

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		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
Line		2017		2018		2019		2020		2021		2022		2023	
No.		RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent
1	**Technology Mix (1)**														
2	**Wind**	**2,911,562**	**67.96%**	**2,961,910**	**67.40%**	**3,285,088**	**74.25%**	**3,794,310**	**75.49%**	**3,844,508**	**74.41%**	**4,506,162**	**77.00%**	**4,927,737**	**80.03%**
3	Owned	1,484,418	34.65%	1,534,765	34.92%	1,857,944	41.99%	2,367,165	47.10%	2,417,364	46.79%	3,079,018	52.61%	3,500,593	56.85%
4	Purchased	1,427,145	33.31%	1,427,145	32.48%	1,427,145	32.26%	1,427,145	28.39%	1,427,145	27.62%	1,427,145	24.39%	1,427,145	23.18%
5	**Solar**	**70,944**	**1.66%**	**92,770**	**2.11%**	**73,629**	**1.66%**	**85,586**	**1.70%**	**87,584**	**1.70%**	**87,106**	**1.49%**	**86,630**	**1.41%**
6	Owned	57,139	1.33%	79,114	1.80%	60,083	1.36%	72,148	1.44%	74,253	1.44%	73,882	1.26%	73,512	1.19%
7	Purchased	13,805	0.32%	13,656	0.31%	13,546	0.31%	13,438	0.27%	13,331	0.26%	13,224	0.23%	13,118	0.21%
8	**Biomass**	**117,306**	**2.74%**	**117,306**	**2.67%**	**117,306**	**2.65%**	**117,628**	**2.34%**	**117,306**	**2.27%**	**117,306**	**2.00%**	**107,671**	**1.75%**
9	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
10	Purchased	117,306	2.74%	117,306	2.67%	117,306	2.65%	117,628	2.34%	117,306	2.27%	117,306	2.00%	107,671	1.75%
11	**Steam**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
12	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
13	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
14	**Geothermal**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
15	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
16	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
17	**Municipal Solid Waste**	**233,961**	**5.46%**	**233,961**	**5.32%**	**233,961**	**5.29%**	**233,961**	**4.65%**	**233,961**	**4.53%**	**233,961**	**4.00%**	**233,961**	**3.80%**
18	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
19	Purchased	233,961	5.46%	233,961	5.32%	233,961	5.29%	233,961	4.65%	233,961	4.53%	233,961	4.00%	233,961	3.80%
20	**Landfill Gas**	**551,134**	**12.86%**	**551,134**	**12.54%**	**301,134**	**6.81%**	**301,277**	**5.99%**	**301,134**	**5.83%**	**298,851**	**5.11%**	**298,851**	**4.85%**
21	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
22	Purchased	551,134	12.86%	551,134	12.54%	301,134	6.81%	301,277	5.99%	301,134	5.83%	298,851	5.11%	298,851	4.85%
23	**Hydroelectric**	**18,328**	**0.43%**	**18,328**	**0.42%**	**18,328**	**0.41%**	**18,328**	**0.36%**	**18,328**	**0.35%**	**18,328**	**0.31%**	**18,328**	**0.30%**
24	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
25	Purchased	18,328	0.43%	18,328	0.42%	18,328	0.41%	18,328	0.36%	18,328	0.35%	18,328	0.31%	18,328	0.30%
26	**Incentive**	**380,926**	**8.89%**	**419,078**	**9.54%**	**395,062**	**8.93%**	**475,266**	**9.46%**	**563,938**	**10.91%**	**590,591**	**10.09%**	**484,241**	**7.86%**
27	Owned	269,222	6.28%	315,616	7.18%	316,600	7.16%	396,758	7.89%	485,476	9.40%	512,549	8.76%	407,163	6.61%
28	Purchased	111,705	2.61%	103,462	2.35%	78,462	1.77%	78,508	1.56%	78,462	1.52%	78,042	1.33%	77,078	1.25%
29	**Other**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
30	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
31	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
32	**Total**	**4,284,163**	**100.00%**	**4,394,488**	**100.00%**	**4,424,509**	**100.00%**	**5,026,355**	**100.00%**	**5,166,759**	**100.00%**	**5,852,305**	**100.00%**	**6,157,420**	**100.00%**
33															
34		2017		2018		2019		2020		2021		2022		2023	
35		RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent
36	**Program Type**														
37	PURPA	436,493	97%	436,493	97%	436,493	97%	436,493	83%	436,493	32%	434,210	32%	434,210	32%
38	Net Metering	13,805	3%	13,656	3%	13,546	3%	13,438	3%	13,331	1%	13,224	1%	13,118	1%
39	Feed-in Tariffs	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
40	Community Solar	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
41	Other (VGPs)	0	0%	0	0%	0	0%	74,664	14%	893,520	67%	893,520	67%	893,520	67%
42	**Total**	**450,298**	**100%**	**450,149**	**100%**	**450,039**	**100%**	**524,595**	**100%**	**1,343,344**	**100%**	**1,340,954**	**100%**	**1,340,848**	**100%**

(1) Excludes Voluntary Pricing Programs

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		(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
Line		2024		2025		2026		2027		2028		2029	
No.		RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent
1	**Technology Mix (1)**												
2	**Wind**	**4,941,238**	**80.97%**	**4,927,737**	**85.12%**	**4,927,737**	**85.68%**	**4,927,737**	**85.73%**	**4,941,238**	**85.80%**	**3,285,158**	**86.16%**
3	Owned	3,510,183	57.52%	3,500,593	60.47%	3,500,593	60.87%	3,500,593	60.90%	3,510,183	60.95%	2,333,728	61.21%
4	Purchased	1,431,055	23.45%	1,427,145	24.65%	1,427,145	24.81%	1,427,145	24.83%	1,431,055	24.85%	951,430	24.95%
5	**Solar**	**86,312**	**1.41%**	**85,688**	**1.48%**	**85,221**	**1.48%**	**84,756**	**1.47%**	**84,445**	**1.47%**	**56,602**	**1.48%**
6	Owned	73,298	1.20%	72,779	1.26%	72,415	1.26%	72,053	1.25%	71,843	1.25%	47,556	1.25%
7	Purchased	13,013	0.21%	12,909	0.22%	12,806	0.22%	12,703	0.22%	12,602	0.22%	9,046	0.24%
8	**Biomass**	**117,628**	**1.93%**	**117,306**	**2.03%**	**117,306**	**2.04%**	**117,306**	**2.04%**	**117,628**	**2.04%**	**78,204**	**2.05%**
9	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
10	Purchased	117,628	1.93%	117,306	2.03%	117,306	2.04%	117,306	2.04%	117,628	2.04%	78,204	2.05%
11	**Steam**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
12	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
13	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
14	**Geothermal**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
15	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
16	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
17	**Municipal Solid Waste**	**201,461**	**3.30%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
18	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
19	Purchased	201,461	3.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
20	**Landfill Gas**	**268,201**	**4.40%**	**268,058**	**4.63%**	**268,058**	**4.66%**	**268,058**	**4.66%**	**268,201**	**4.66%**	**178,706**	**4.69%**
21	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
22	Purchased	268,201	4.40%	268,058	4.63%	268,058	4.66%	268,058	4.66%	268,201	4.66%	178,706	4.69%
23	**Hydroelectric**	**18,328**	**0.30%**	**18,328**	**0.32%**	**18,328**	**0.32%**	**18,328**	**0.32%**	**18,328**	**0.32%**	**7,525**	**0.20%**
24	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
25	Purchased	18,328	0.30%	18,328	0.32%	18,328	0.32%	18,328	0.32%	18,328	0.32%	7,525	0.20%
26	**Incentive**	**469,210**	**7.69%**	**371,713**	**6.42%**	**334,730**	**5.82%**	**331,727**	**5.77%**	**329,479**	**5.72%**	**206,531**	**5.42%**
27	Owned	396,785	6.50%	313,508	5.42%	276,525	4.81%	273,522	4.76%	271,228	4.71%	176,685	4.63%
28	Purchased	72,426	1.19%	58,205	1.01%	58,205	1.01%	58,205	1.01%	58,251	1.01%	29,846	0.78%
29	**Other**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**	**0**	**0.00%**
30	Owned	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
31	Purchased	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
32	**Total**	**6,102,377**	**100.00%**	**5,788,831**	**100.00%**	**5,751,380**	**100.00%**	**5,747,914**	**100.00%**	**5,759,318**	**100.00%**	**3,812,726**	**100.00%**
33													
34		2024		2025		2026		2027		2028		2029	
35		RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent
36	**Program Type**												
37	PURPA	403,417	31%	234,456	21%	234,456	21%	234,456	21%	234,456	21%	151,611	20%
38	Net Metering	13,013	1%	12,909	1%	12,806	1%	12,703	1%	12,602	1%	9,046	1%
39	Feed-in Tariffs	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
40	Community Solar	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
41	Other (VGPs)	895,968	68%	893,520	78%	893,520	78%	893,520	78%	895,968	78%	595,680	79%
42	**Total**	**1,312,398**	**100%**	**1,140,885**	**100%**	**1,140,782**	**100%**	**1,140,679**	**100%**	**1,143,026**	**100%**	**756,336**	**100%**

(1) Excludes Voluntary Pricing Programs

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Line No.	(a)		(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) 2020	(g) 2021	(h) 2022
1	**Sales and Requirement Calculation**	**Source**							
2	**Method: Weather Normalized or 3 Year Average**								
3	If Selected Weather Normalized:								
4	Current Year Sales to Retail Customers	A-21 Column (i)				41,889,925	41,895,549	41,992,100	41,949,343
5	Current Year Weather Normalization Factor					1	1	1	1
6	Current Year Weather Normalized Sales (Row Number 4 * 5)	A-21 Column (i)				41,889,925	41,895,549	41,992,100	41,949,343
7	If Selected 3 Year Average:								
8	Current Retail Sales to Retail Customers								
9	3 Year Average of Retail Sales								
10	RPS Required Energy Credits (For 2017 and 2018 enter the same amount as 2015 requirement in MIRECS, for 2019 and 2020 enter 12.5% of row 6 or 9, for 2021 enter 15% of row 6 or 9)	Calculated		4,244,832	4,244,832	5,236,241	5,236,944	6,298,815	6,292,401
11	**Energy Credits**								
12	Energy Credit Beginning Balance	Row 21		7,708,845	7,748,176	7,897,832	7,086,100	6,875,512	5,743,456
13	Energy Credits Obtained through Generation/BOT	A-3 line 40 + WP-4 (IRECs)		1,810,779	1,929,496	2,234,627	2,836,071	2,977,093	3,665,448
14	Energy Credits Obtained through PPA	A-4 + WP-4 (IRECs)		2,144,579	2,136,336	2,111,336	2,111,846	2,111,336	2,108,633
15	Energy Credits Obtained through REC Purchases	A-4		328,805	328,656	78,546	78,438	78,331	78,224
16	Plus: Energy Credit Obtained (Row 13 + 14 + 15)	Calculated		4,284,163	4,394,488	4,424,509	5,026,355	5,166,759	5,852,305
17	Less: Energy Credits Sold			0	0	0	0	0	0
18	Available Energy Credits (Row 12 + 16 + 17)	Calculated		11,993,008	12,142,664	12,322,341	12,112,455	12,042,271	11,595,761
19	Compliance Requirement (Row 10)	Calculated		4,244,832	4,244,832	5,236,241	5,236,944	6,298,815	6,292,401
20	Less: Energy Credit Expiration			0	0	0	0	0	0
21	Energy Credit Ending Balance (Row 18 - 19 - 20)	Calculated	7,708,845	7,748,176	7,897,832	7,086,100	6,875,512	5,743,456	5,303,360
22	**Revenue Requirement**								
23	Cost of Renewable Energy Generation/BOT	A-17 line 22 - lines 14 & 15		$ 183,890,258	$ 188,986,633	$ 211,113,140	$ 242,369,438	$ 320,835,468	$ 379,588,883
24	Cost of Renewable Energy PPA	A-17 line 14		$ 105,584,342	$ 106,641,944	$ 107,582,730	$ 107,922,326	$ 108,258,642	$ 108,616,307
25	Cost of Renewable Energy Credit Purchases	A-17 line 15		$ 13,501,819	$ 11,067,943	$ 9,914,917	$ 6,690,706	$ 5,702,542	$ 3,921,811
26	Costs of Administration of Renewable Energy Plan	A-6 line 2		$ 444,366	$ 455,475	$ 466,862	$ 478,534	$ 490,497	$ 502,759
27	Less: Revenue Obtained from Renewable Energy Sales (non-retail)								
28	Total Revenue Requirement for Renewable Energy Plan (Row 23 + 24 + 25 + 26 - 27)	Calculated		$ 303,420,785	$ 307,151,995	$ 329,077,649	$ 357,461,004	$ 435,287,149	$ 492,629,760
29	**Cost Recovery**								
30	Forecasted Transfer Price per MWh	A-15 line 60/line 59		$ 66.06	$ 66.46	$ 65.67	$ 63.40	$ 63.40	$ 61.85
31	MWh of Renewable Energy	A-15 line 59		3,137,938.25	3,210,261.05	3,514,407.61	4,036,157.84	4,087,998.06	4,749,280.54
32	Amount Recovered through the PSCR (Row 30 * 31)	Calculated		$ 207,298,152	$ 213,356,648	$ 230,773,859	$ 255,888,400	$ 259,174,651	$ 293,754,179
33	Federal Tax Impacts (including PTC/ITC/TCJA Remeasurement) (1)	A-16 ine 10, 11, and 22		$ 59,362,159	$ 50,637,870	$ 67,120,743	$ 90,511,675	$ 120,817,923	$ 129,518,891
34	Revenue from Voluntary Green Pricing Programs (2)	A-16 line 14 and 17		$ 315,900	$ 3,155,016	$ 7,347,902	$ 10,710,068	$ 47,520,799	$ 47,503,180
35	Incremental Cost of Compliance (Row 28 - 32)	Calculated		$ 36,444,574	$ 40,002,460	$ 23,835,145	$ 350,861	$ 7,773,777	$ 21,853,509
36	**Non-Volumetric Surcharge Meter (or customer) Forecast**								
37	Residential	A-26 Column (b)				1,993,185	2,007,320	2,021,987	2,032,230
38	Secondary	A-26 Column (c)				202,446	203,930	205,470	206,545
39	Primary	A-26 Column (d)				2,966	2,966	2,966	2,966
40	Total (Row 35 + 36 + 37)	Calculated				2,198,597	2,214,215	2,230,423	2,241,742
41	**Planned Surcharge Revenue**								
42	Residential					$ -	$ -	$ -	$ -
43	Secondary					$ -	$ -	$ -	$ -
44	Primary					$ -	$ -	$ -	$ -
45	Total (Row 40 + 41 + 42)					$ -	$ -	$ -	$ -
46	**Year-End Regulatory Liability Balance**								
47	Current Year Regulatory Liability Balance (Row 43 - 33)	Calculated		$ (36,444,574)	$ (40,002,460)	$ (23,835,145)	$ (350,861)	$ (7,773,777)	$ (21,853,509)
48	Forecasted Ending Balance Prior to Current Year Interest (Row 48 for prior year + Row 45 of current year)	Calculated		$ 108,559,828	$ 70,036,330	$ 48,072,161	$ 49,394,018	$ 43,129,971	$ 22,708,447
49	Carrying Charges (short-term interest)	A-18 line 7		$ 1,478,962	$ 1,870,976	$ 1,672,718	$ 1,509,729	$ 1,431,986	$ 1,024,422
50	Total Balance (Row 46 + 47) (2)	Calculated	$ 145,004,402	$ 110,038,790	$ 71,907,306	$ 49,744,879	$ 50,903,747	$ 44,561,956	$ 23,732,869
51	**Cumulative Megawatts by Year**								
52	DTE Owned Wind			451	612	612	1081	1306	1456
53	DTE Owned Solar			64	64	74	77	77	77

(1) Tax Impacts added to accurately reflect Incremental Cost of Compliance calculation
(2) VGP revenue included in cost recovery per MCL 460.1047 Section 2(b)(vi)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Renewable Energy Plan Summary

Case No.: U-18232
Exhibit: A-2
Witness: T. L. Schroeder
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Line No.	(a)		(i) 2023	(j) 2024	(k) 2025	(l) 2026	(m) 2027	(n) 2028	(o) 2029
1	**Sales and Requirement Calculation**	**Source**							
2	**Method: Weather Normalized or 3 Year Average**								
3	If Selected Weather Normalized:								
4	Current Year Sales to Retail Customers	A-21 Column (i)	41,922,895	41,877,048	41,858,014	41,844,030	41,836,406	41,834,496	28,310,905
5	Current Year Weather Normalization Factor		1	1	1	1	1	1	1
6	Current Year Weather Normalized Sales (Row Number 4 * 5)	A-21 Column (i)	41,922,895	41,877,048	41,858,014	41,844,030	41,836,406	41,834,496	28,310,905
7	If Selected 3 Year Average:								
8	Current Retail Sales to Retail Customers								
9	3 Year Average of Retail Sales								
10	RPS Required Energy Credits (For 2017 and 2018 enter the same amount as 2015 requirement in MIRECS, for 2019 and 2020 enter 12.5% of row 6 or 9, for 2021 enter 15% of row 6 or 9)	Calculated	6,288,434	6,281,557	6,278,702	6,276,604	6,275,461	6,275,174	4,246,636
11	**Energy Credits**								
12	Energy Credit Beginning Balance	Row 21	5,303,360	5,172,346	4,993,166	4,503,295	3,978,071	3,450,524	2,934,668
13	Energy Credits Obtained through Generation/BOT	A-3 line 40 + WP-4 (IRECs)	3,981,268	3,980,266	3,886,880	3,849,532	3,846,168	3,853,254	2,557,969
14	Energy Credits Obtained through PPA	A-4 + WP-4 (IRECs)	2,098,035	2,076,598	1,889,042	1,889,042	1,889,042	1,893,462	1,245,711
15	Energy Credits Obtained through REC Purchases	A-4	78,118	45,513	12,909	12,806	12,703	12,602	9,046
16	Plus: Energy Credit Obtained (Row 13 + 14 + 15)	Calculated	6,157,420	6,102,377	5,788,831	5,751,380	5,747,914	5,759,318	3,812,726
17	Less: Energy Credits Sold		0	0	0	0	0	0	0
18	Available Energy Credits (Row 12 + 16 + 17)	Calculated	11,460,780	11,274,723	10,781,997	10,254,675	9,725,985	9,209,842	6,747,394
19	Compliance Requirement (Row 10)	Calculated	6,288,434	6,281,557	6,278,702	6,276,604	6,275,461	6,275,174	4,246,636
20	Less: Energy Credit Expiration		0	0	0	0	0	0	0
21	Energy Credit Ending Balance (Row 18 - 19 - 20)	Calculated	5,172,346	4,993,166	4,503,295	3,978,071	3,450,524	2,934,668	2,500,758
22	**Revenue Requirement**								
23	Cost of Renewable Energy Generation/BOT	A-17 line 22 - lines 14 & 15	$ 389,668,566	$ 380,154,532	$ 366,445,940	$ 355,358,997	$ 348,709,911	$ 343,725,880	$ 226,217,720
24	Cost of Renewable Energy PPA	A-17 line 14	$ 108,064,161	$ 109,750,867	$ 109,451,002	$ 109,451,002	$ 109,451,002	$ 109,750,867	$ 72,967,334
25	Cost of Renewable Energy Credit Purchases	A-17 line 15	$ 2,711,467	$ 1,783,693	$ 1,244,134	$ 963,808	$ 824,325	$ 754,057	$ 321,811
26	Costs of Administration of Renewable Energy Plan	A-6 line 2	$ 515,328	$ 528,212	$ 541,417	$ 554,952	$ 568,826	$ 583,047	$ 398,415
27	Less: Revenue Obtained from Renewable Energy Sales (non-retail)								
28	Total Revenue Requirement for Renewable Energy Plan (Row 23 + 24 + 25 + 26 - 27)	Calculated	$ 500,959,522	$ 492,217,303	$ 477,682,492	$ 466,328,760	$ 459,554,064	$ 454,813,851	$ 299,905,281
29	**Cost Recovery**								
30	Forecasted Transfer Price per MWh	A-15 line 60/line 59	$ 61.52	$ 61.72	$ 61.77	$ 61.82	$ 61.88	$ 61.94	$ 62.00
31	MWh of Renewable Energy	A-15 line 59	5,160,851.13	5,184,236.55	5,169,752.85	5,169,388.96	5,169,026.88	5,182,781.54	3,445,538.77
32	Amount Recovered through the PSCR (Row 30 * 31)	Calculated	$ 317,497,230	$ 319,987,287	$ 319,327,180	$ 319,581,269	$ 319,836,884	$ 321,004,184	$ 213,610,171
33	Federal Tax Impacts (including PTC/ITC/TCJA Remeasurement) (1)	A-16 ine 10, 11, and 22	$ 129,132,132	$ 112,665,647	$ 110,084,859	$ 110,084,859	$ 103,901,976	$ 105,068,007	$ 60,968,857
34	Revenue from Voluntary Green Pricing Programs (2)	A-16 line 14 and 17	$ 47,485,649	$ 47,598,256	$ 47,450,851	$ 47,433,582	$ 47,416,399	$ 47,529,163	$ 31,588,194
35	Incremental Cost of Compliance (Row 28 - 32)	Calculated	$ 6,844,511	$ 11,966,113	$ 819,603	$ (10,770,950)	$ (11,601,195)	$ (18,787,504)	$ (6,261,942)
36	**Non-Volumetric Surcharge Meter (or customer) Forecast**								
37	Residential	A-26 Column (b)	2,039,968	2,046,034	2,051,590	2,058,441	2,066,118	2,072,139	2,076,520
38	Secondary	A-26 Column (c)	207,358	207,994	208,578	209,297	210,103	210,735	211,195
39	Primary	A-26 Column (d)	2,966	2,966	2,966	2,966	2,966	2,966	2,966
40	Total (Row 35 + 36 + 37)	Calculated	2,250,291	2,256,995	2,263,134	2,270,705	2,279,188	2,285,841	2,290,681
41	**Planned Surcharge Revenue**								
42	Residential		$ -	$ -	$ -	$ -	$ -	$ -	$ -
43	Secondary		$ -	$ -	$ -	$ -	$ -	$ -	$ -
44	Primary		$ -	$ -	$ -	$ -	$ -	$ -	$ -
45	Total (Row 40 + 41 + 42)		$ -	$ -	$ -	$ -	$ -	$ -	$ -
46	**Year-End Regulatory Liability Balance**								
47	Current Year Regulatory Liability Balance (Row 43 - 33)	Calculated	$ (6,844,511)	$ (11,966,113)	$ (819,603)	$ 10,770,950	$ 11,601,195	$ 18,787,504	$ 6,261,942
48	Forecasted Ending Balance Prior to Current Year Interest (Row 48 for prior year + Row 45 of current year)	Calculated	$ 16,888,358	$ 5,540,843	$ 5,072,222	$ 16,010,137	$ 27,934,926	$ 47,396,571	$ 54,815,959
49	Carrying Charges (short-term interest)	A-18 line 7	$ 618,597	$ 350,982	$ 166,965	$ 323,594	$ 674,142	$ 1,157,446	$ 1,044,141
50	Total Balance (Row 46 + 47) (2)	Calculated	$ 17,506,956	$ 5,891,825	$ 5,239,187	$ 16,333,731	$ 28,609,068	$ 48,554,017	$ 55,860,101
51	**Cumulative Megawatts by Year**								
52	DTE Owned Wind		1456	1456	1456	1456	1456	1456	1456
53	DTE Owned Solar		77	77	77	77	77	77	77

(1) Tax Impacts added to accurately reflect Incremental Cost of Compliance calculation
(2) VGP revenue included in cost recovery per MCL 460.1047 Section 2(b)(vi)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
DTE Electric Owned Renewable Energy Facilities Generation

Case No.: U-18232
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Line No.	(a)	(b)	(c)	(d) As Filed 2016	(e) 2017	(f) 2018	(g) 2019	(h) 2020	(i) 2021	(j) 2022
1	**DTE Electric Owned**									
2	Gratiot County Wind	Installed Capacity	**MW**	102.4	102.4	102.4	102.4	102.4	102.4	102.4
3		Generation	**1,000 MWh**	254	261	261	261	262	261	261
4	Thumb Wind Parks	Installed Capacity	**MW**	110.4	110.4	110.4	110.4	110.4	110.4	110.4
5		Generation	**1,000 MWh**	406	402	402	402	403	402	402
6	Echo Wind Park	Installed Capacity	**MW**	112.0	112.0	112.0	112.0	112.0	112.0	112.0
7		Generation	**1,000 MWh**	387	391	391	391	392	391	391
8	Brookfield Wind Park	Installed Capacity	**MW**	74.8	74.8	74.8	74.8	74.8	74.8	74.8
9		Generation	**1,000 MWh**	261	263	263	263	264	263	263
10	Pinnebog Wind Park	Installed Capacity	**MW**	51.0	51.0	51.0	51.0	51.0	51.0	51.0
11		Generation	**1,000 MWh**	13	170	170	170	170	170	170
12	Pine River Wind Park	Installed Capacity	**MW**	-	-	161.3	161.3	161.3	161.3	161.3
13		Generation	**1,000 MWh**	-	-	71	424	425	424	424
14	2019 Future Wind Build	Installed Capacity	**MW**	-	-	-	-	168.8	168.8	168.8
15		Generation	**1,000 MWh**	-	-	-	-	504	503	503
16	2020 Future Wind Build	Installed Capacity	**MW**	-	-	-	-	300.0	300.0	300.0
17		Generation	**1,000 MWh**	-	-	-	-	75	894	894
18	2021 Future Wind Build	Installed Capacity	**MW**	-	-	-	-	-	225.0	225.0
19		Generation	**1,000 MWh**	-	-	-	-	-	57	680
20	2022 Future Wind Build	Installed Capacity	**MW**	-	-	-	-	-	-	150.0
21		Generation	**1,000 MWh**	-	-	-	-	-	-	38
22	MIGreenPower Subscribed Wind	Subscribed Capacity	**MW**	-	(0.7)	(6.8)	(15.8)	(15.8)	(15.8)	(15.8)
23		Subscribed Generation	**1,000 MWh**	-	(2)	(23)	(53)	(53)	(53)	(53)
24	VGP Subscribed Wind	Subscribed Capacity	**MW**	-	-	-	-	(300.0)	(300.0)	(300.0)
25		Subscribed Generation	**1,000 MWh**	-	-	-	-	(75)	(894)	(894)
26	DTE Solar Currents (~13.75MW)	Installed Capacity	**MW**	12.8	13.3	13.3	13.3	13.3	13.3	13.3
27		Generation	**1,000 MWh**	16	16	16	16	16	16	16
28	DTE Solar Currents (~1.25MW)	Installed Capacity	**MW**	1.2	1.2	1.2	1.2	1.2	1.2	1.2
29		Generation	**1,000 MWh**	1	1	1	1	1	1	1
30	Demille/Turrill/O'Shea Utility-Scale Solar	Installed Capacity	**MW**	-	50.0	50.0	50.0	50.0	50.0	50.0
31		Generation	**1,000 MWh**	-	42	83	82	82	82	81
32	2019 Future Solar Pilot	Installed Capacity	**MW**	-	-	-	10.0	10.0	10.0	10.0
33		Generation	**1,000 MWh**	-	-	-	10	19	19	19
34	2020 Future Solar Pilot	Installed Capacity	**MW**	-	-	-	-	3.0	3.0	3.0
35		Generation	**1,000 MWh**	-	-	-	-	3	5	5
36	MIGreenPower Subscribed Solar	Subscribed Capacity	**MW**	-	(1.3)	(12.8)	(30.0)	(30.0)	(30.0)	(30.0)
37		Subscribed Generation	**1,000 MWh**	-	(2)	(21)	(49)	(49)	(49)	(49)
38	Total Wind Generation (excluding VGPs)		**1,000 MWh**	1,321	1,484	1,535	1,858	2,367	2,417	3,079
39	Total Solar Generation (excluding VGPs)		**1,000 MWh**	17	57	79	60	72	74	74
40	Total Generation (excluding VGPs)		**1,000 MWh**	1,338	1,542	1,614	1,918	2,439	2,492	3,153

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
DTE Electric Owned Renewable Energy Facilities Generation

Case No.: U-18232
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Witness: T. L. Schroeder
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Line No.	(a)	(b)	(c)	(k) 2023	(l) 2024	(m) 2025	(n) 2026	(o) 2027	(p) 2028	(q) 2029
1	**DTE Electric Owned**									
2	Gratiot County Wind	Installed Capacity	**MW**	102.4	102.4	102.4	102.4	102.4	102.4	102.4
3		Generation	**1,000 MWh**	261	262	261	261	261	262	174
4	Thumb Wind Parks	Installed Capacity	**MW**	110.4	110.4	110.4	110.4	110.4	110.4	110.4
5		Generation	**1,000 MWh**	402	403	402	402	402	403	268
6	Echo Wind Park	Installed Capacity	**MW**	112.0	112.0	112.0	112.0	112.0	112.0	112.0
7		Generation	**1,000 MWh**	391	392	391	391	391	392	260
8	Brookfield Wind Park	Installed Capacity	**MW**	74.8	74.8	74.8	74.8	74.8	74.8	74.8
9		Generation	**1,000 MWh**	263	264	263	263	263	264	176
10	Pinnebog Wind Park	Installed Capacity	**MW**	51.0	51.0	51.0	51.0	51.0	51.0	51.0
11		Generation	**1,000 MWh**	170	170	170	170	170	170	113
12	Pine River Wind Park	Installed Capacity	**MW**	161.3	161.3	161.3	161.3	161.3	161.3	161.3
13		Generation	**1,000 MWh**	424	425	424	424	424	425	283
14	2019 Future Wind Build	Installed Capacity	**MW**	168.8	168.8	168.8	168.8	168.8	168.8	168.8
15		Generation	**1,000 MWh**	503	504	503	503	503	504	335
16	2020 Future Wind Build	Installed Capacity	**MW**	300.0	300.0	300.0	300.0	300.0	300.0	300.0
17		Generation	**1,000 MWh**	894	896	894	894	894	896	596
18	2021 Future Wind Build	Installed Capacity	**MW**	225.0	225.0	225.0	225.0	225.0	225.0	225.0
19		Generation	**1,000 MWh**	680	682	680	680	680	682	453
20	2022 Future Wind Build	Installed Capacity	**MW**	150.0	150.0	150.0	150.0	150.0	150.0	150.0
21		Generation	**1,000 MWh**	460	461	460	460	460	461	307
22	MIGreenPower Subscribed Wind	Subscribed Capacity	**MW**	(15.8)	(15.8)	(15.8)	(15.8)	(15.8)	(15.8)	(15.8)
23		Subscribed Generation	**1,000 MWh**	(53)	(53)	(53)	(53)	(53)	(53)	(35)
24	VGP Subscribed Wind	Subscribed Capacity	**MW**	(300.0)	(300.0)	(300.0)	(300.0)	(300.0)	(300.0)	(300.0)
25		Subscribed Generation	**1,000 MWh**	(894)	(896)	(894)	(894)	(894)	(896)	(596)
26	DTE Solar Currents (~13.75MW)	Installed Capacity	**MW**	13.3	13.3	13.3	13.3	13.3	13.3	13.3
27		Generation	**1,000 MWh**	16	16	16	16	15	15	10
28	DTE Solar Currents (~1.25MW)	Installed Capacity	**MW**	1.2	1.2	1.2	1.2	1.2	1.2	1.2
29		Generation	**1,000 MWh**	1	1	1	1	1	1	1
30	Demille/Turrill/O'Shea Utility-Scale Solar	Installed Capacity	**MW**	50.0	50.0	50.0	50.0	50.0	50.0	50.0
31		Generation	**1,000 MWh**	81	81	80	80	79	79	52
32	2019 Future Solar Pilot	Installed Capacity	**MW**	10.0	10.0	10.0	10.0	10.0	10.0	10.0
33		Generation	**1,000 MWh**	19	19	19	19	19	18	12
34	2020 Future Solar Pilot	Installed Capacity	**MW**	3.0	3.0	3.0	3.0	3.0	3.0	3.0
35		Generation	**1,000 MWh**	5	5	5	5	5	5	3
36	MIGreenPower Subscribed Solar	Subscribed Capacity	**MW**	(30.0)	(30.0)	(30.0)	(30.0)	(30.0)	(30.0)	(30.0)
37		Subscribed Generation	**1,000 MWh**	(48)	(48)	(48)	(48)	(47)	(47)	(31)
38	Total Wind Generation (excluding VGPs)		**1,000 MWh**	3,501	3,510	3,501	3,501	3,501	3,510	2,334
39	Total Solar Generation (excluding VGPs)		**1,000 MWh**	74	73	73	72	72	72	48
40	Total Generation (excluding VGPs)		**1,000 MWh**	3,574	3,583	3,573	3,573	3,573	3,582	2,381

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
RECs/ACECs from Renewable Energy & Advanced Cleaner Energy &
Associated Cost For Use in 2016 PA 342 Activities for the Period 2016-2029

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Witness: T. L. Schroeder
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Line No.	(a)		(b) As Filed 2016	(c) 2017	(d) 2018	(e) 2019	(f) 2020	(g) 2021	(h) 2022
1	Beginning Balance of RECs	**1,000 RECs**	7,877	7,709	7,748	7,898	7,086	6,876	5,743
2									
3	Beginning Balance of ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
4									
5	PURPA RECs (less non-jurisdictional)	**1,000 RECs**	436	436	436	436	436	436	434
6									
7	Purchase of RECs (REC-only Contracts)	**1,000 RECs**	305	329	329	79	78	78	78
8									
9	Purchase of RECs (PPA Contracts)	**1,000 RECs**	1,530	1,596	1,596	1,596	1,597	1,596	1,596
10									
11	Generation of RECs	**1,000 RECs**	1,337	1,542	1,614	1,918	2,439	2,492	3,153
12									
13	Generation of ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
14									
15	Michigan Incentive RECs	**1,000 RECs**	364	381	419	395	475	564	591
16									
17	Transferred GreenCurrents RECs	**1,000 RECs**	-	-	-	-	-	-	-
18									
19	Total Available RECs	**1,000 RECs**	11,849	11,993	12,143	12,322	12,112	12,042	11,596
20									
21	Total Available ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
22									
23	Expected RECs to be Consumed	**1,000 RECs**	(4,140)	(4,245)	(4,245)	(5,236)	(5,237)	(6,299)	(6,292)
24									
25	Expected ACECs to be Consumed	**1,000 ACECs**	-	-	-	-	-	-	-
26									
27	Expired RECs	**1,000 RECs**	-	-	-	-	-	-	-
28									
29	Expired ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
30									
31	Ending REC Balance	**1,000 RECs**	7,709	7,748	7,898	7,086	6,876	5,743	5,303
32									
33	Ending ACEC Balance	**1,000 ACECs**	-	-	-	-	-	-	-
34									
35	Beginning Balance of EOCs	**1,000 EOCs/RECs**	105	78	-	(0)	(0)	(0)	(0)
36									
37	Transferred Energy Optimization Credits	**1,000 EOCs/RECs**	78	-	-	-	-	-	-
38									
39	Expected EOCs to be Consumed	**1,000 EOCs/RECs**	(105)	(78)	(0)	(0)	-	-	-
40									
41	Excess EOCs	**1,000 EOCs/RECs**	-	-	-	(0)	-	-	-
42									
43	Ending Balance EOCs	**1,000 EOCs/RECs**	78	-	(0)	(0)	(0)	(0)	(0)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
RECs/ACECs from Renewable Energy & Advanced Cleaner Energy
Associated Cost For Use in 2016 PA 342 Activities for the Period 2

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Line No.	(a)		(i) 2023	(j) 2024	(k) 2025	(l) 2026	(m) 2027	(n) 2028	(o) 2029
1	Beginning Balance of RECs	**1,000 RECs**	5,303	5,172	4,993	4,503	3,978	3,451	2,935
2									
3	Beginning Balance of ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
4									
5	PURPA RECs (less non-jurisdictional)	**1,000 RECs**	434	403	234	234	234	234	152
6									
7	Purchase of RECs (REC-only Contracts)	**1,000 RECs**	78	46	13	13	13	13	9
8									
9	Purchase of RECs (PPA Contracts)	**1,000 RECs**	1,587	1,601	1,596	1,596	1,596	1,601	1,064
10									
11	Generation of RECs	**1,000 RECs**	3,574	3,583	3,573	3,573	3,573	3,582	2,381
12									
13	Generation of ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
14									
15	Michigan Incentive RECs	**1,000 RECs**	484	469	372	335	332	329	207
16									
17	Transferred GreenCurrents RECs	**1,000 RECs**	-	-	-	-	-	-	-
18									
19	Total Available RECs	**1,000 RECs**	11,461	11,275	10,782	10,255	9,726	9,210	6,747
20									
21	Total Available ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
22									
23	Expected RECs to be Consumed	**1,000 RECs**	(6,288)	(6,282)	(6,279)	(6,277)	(6,275)	(6,275)	(4,247)
24									
25	Expected ACECs to be Consumed	**1,000 ACECs**	-	-	-	-	-	-	-
26									
27	Expired RECs	**1,000 RECs**	-	-	-	-	-	-	-
28									
29	Expired ACECs	**1,000 ACECs**	-	-	-	-	-	-	-
30									
31	Ending REC Balance	**1,000 RECs**	5,172	4,993	4,503	3,978	3,451	2,935	2,501
32									
33	Ending ACEC Balance	**1,000 ACECs**	-	-	-	-	-	-	-
34									
35	Beginning Balance of EOCs	**1,000 EOCs/RECs**	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36									
37	Transferred Energy Optimization Credits	**1,000 EOCs/RECs**	-	-	-	-	-	-	-
38									
39	Expected EOCs to be Consumed	**1,000 EOCs/RECs**	-	-	-	-	-	-	-
40									
41	Excess EOCs	**1,000 EOCs/RECs**	-	-	-	-	-	-	-
42									
43	Ending Balance EOCs	**1,000 EOCs/RECs**	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
RECs/ACECs from Renewable Energy & Advanced Cleaner Energy &
Associated Cost For Use in 2016 PA 342 Activities for the Period 2016-2029

Case No.: U-18232
Exhibit: A-4
Witness: T. L. Schroeder
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Line No.	(a)		(b) As Filed 2016	(c) 2017	(d) 2018	(e) 2019	(f) 2020	(g) 2021	(h) 2022
1	Beginning Balance of RECs	**$Mil**	$ 37.6	$ 29.4	$ 23.5	$ 19.4	$ 12.5	$ 8.5	$ 5.2
2									
3	Beginning Balance of ACECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4									
5	PURPA RECs (less non-jurisdictional)	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6									
7	Purchase of RECs (REC-only Contracts)	**$Mil**	$ 4.1	$ 4.2	$ 4.2	$ 1.2	$ 1.1	$ 1.1	$ 1.1
8									
9	Generation of RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10									
11	Generation of ACECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12									
13	Michigan Incentive RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
14									
15	Transferred GreenCurrents RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16									
17	Purchase of RECs (PPA Contracts)	**$Mil**	$ 4.5	$ 3.9	$ 2.8	$ 1.9	$ 1.6	$ 1.2	$ 0.8
18									
19	Generation of RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20									
21	Total Available RECs & ACECs	**$Mil**	$ 46.1	$ 37.4	$ 30.5	$ 22.4	$ 15.2	$ 10.9	$ 7.1
22									
23	Expected RECs & ACECs to be Consumed	**$Mil**	$ (16.8)	$ (13.5)	$ (11.1)	$ (9.9)	$ (6.7)	$ (5.7)	$ (3.9)
24									
25	Ending Balance	**$Mil**	$ 29.4	$ 23.5	$ 19.4	$ 12.5	$ 8.5	$ 5.2	$ 3.2
26									
27	Total Average Cost of Available RECs & ACECs	**$/REC**	$ 3.81	$ 3.03	$ 2.46	$ 1.76	$ 1.24	$ 0.90	$ 0.61

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
RECs/ACECs from Renewable Energy & Advanced Cleaner Energy
Associated Cost For Use in 2016 PA 342 Activities for the Period 2

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Exhibit: A-4
Witness: T. L. Schroeder
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Line No.	(a)		(i) 2023	(j) 2024	(k) 2025	(l) 2026	(m) 2027	(n) 2028	(o) 2029
1	Beginning Balance of RECs	**$Mil**	$ 3.2	$ 2.0	$ 1.2	$ 0.6	$ 0.3	$ 0.1	$ 0.0
2									
3	Beginning Balance of ACECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4									
5	PURPA RECs (less non-jurisdictional)	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6									
7	Purchase of RECs (REC-only Contracts)	**$Mil**	$ 1.1	$ 0.9	$ 0.7	$ 0.7	$ 0.7	$ 0.7	$ 0.5
8									
9	Generation of RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10									
11	Generation of ACECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12									
13	Michigan Incentive RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
14									
15	Transferred GreenCurrents RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16									
17	Purchase of RECs (PPA Contracts)	**$Mil**	$ 0.4	$ -	$ -	$ -	$ -	$ -	$ -
18									
19	Generation of RECs	**$Mil**	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20									
21	Total Available RECs & ACECs	**$Mil**	$ 4.8	$ 2.9	$ 1.8	$ 1.2	$ 0.9	$ 0.8	$ 0.5
22									
23	Expected RECs & ACECs to be Consumed	**$Mil**	$ (2.7)	$ (1.8)	$ (1.2)	$ (1.0)	$ (0.8)	$ (0.8)	$ (0.3)
24									
25	Ending Balance	**$Mil**	$ 2.0	$ 1.2	$ 0.6	$ 0.3	$ 0.1	$ 0.0	$ 0.1
26									
27	Total Average Cost of Available RECs & ACECs	**$/REC**	$ 0.39	$ 0.23	$ 0.13	$ 0.07	$ 0.03	$ 0.00	$ 0.06

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
NREL Annual Technology Baseline (ATB) Installed Costs

Case No.: U-18232
Exhibit: A-5
Witness: T. L. Schroeder
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Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
	Wind (NREL ATB TRG 7 Low)												
1	Online Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2	Installed Cost Input (2015 $/kW)	$ 1,567	$ 1,554	$ 1,534	$ 1,534	$ 1,528	$ 1,518	$ 1,503	$ 1,484	$ 1,460	$ 1,432	$ 1,400	$ 1,364
3	Inflation Adjustment	1.077	1.104	1.131	1.160	1.189	1.218	1.249	1.280	1.312	1.345	1.379	1.413
4	Installed Cost (nominal $/kW)	$ 1,688	$ 1,715	$ 1,736	$ 1,778	$ 1,817	$ 1,850	$ 1,877	$ 1,899	$ 1,915	$ 1,925	$ 1,929	$ 1,927

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Expense Elements of Incremental Cost of Compliance

Case No.: U-18232
Exhibit: A-6
Witness: P. D. Kauffman
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Line No.	(a)	(b) Units	(c) 2016	(d) 2017	(e) 2018	(f) 2019	(g) 2020	(h) 2021	(i) 2022
1	Total Royalty and Easement Payments	$Mil	3.9	4.1	4.4	5.1	6.1	7.9	9.1
2	Administrative Expense	$Mil	0.4	0.4	0.5	0.5	0.5	0.5	0.5
3	O&M-MPSC Accts. 553, 920, 921, 923	$Mil	20.1	22.1	22.6	27.5	32.4	40.2	45.2
4	Insurance Expense	$Mil	0.7	0.7	0.8	1.0	1.3	1.5	1.7
5	Property Tax	$Mil	9.6	9.4	9.5	9.7	10.8	12.0	16.2
6	Miscellaneous Other Power: Coke Oven Gas Expense	$Mil	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Book Depreciation	$Mil	40.0	44.1	51.5	57.5	65.7	86.6	105.1
8	Interest Received from ITC Holdings Corp.	$Mil	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		Units	2023	2024	2025	2026	2027	2028	2029
9	Total Royalty and Easement Payments	$Mil	10.3	10.1	10.2	10.3	10.4	10.5	7.1
10	Administrative Expense	$Mil	0.5	0.5	0.5	0.6	0.6	0.6	0.4
11	O&M-MPSC Accts. 553, 920, 921, 923	$Mil	49.0	50.0	50.9	51.9	53.0	54.0	36.7
12	Insurance Expense	$Mil	1.7	1.7	1.7	1.7	1.7	1.8	1.2
13	Property Tax	$Mil	19.9	19.8	19.0	17.9	16.8	15.6	9.6
14	Miscellaneous Other Power: Coke Oven Gas Expense	$Mil	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	Book Depreciation	$Mil	111.8	114.0	115.3	116.7	117.9	119.1	80.0
16	Interest Received from ITC Holdings Corp.	$Mil	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Rate Base Financial Data
($ Millions)

Case No.: U-18232
Exhibit: A-7
Witness: P. D. Kauffman
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		As Filed						
Line No.	**Description**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**
1	**Plant in Service**							
2	Beginning Balance	956.9	1,086.3	1,188.9	1,468.3	1,508.5	1,899.2	2,631.6
3	In Service Amounts	129.4	113.6	279.4	40.1	390.7	732.4	268.6
4	Ending Balance	1,086.3	1,188.9	1,468.3	1,508.5	1,899.2	2,631.6	2,900.2
5	Average Balance	968.0	1,123.6	1,328.6	1,488.4	1,703.8	2,265.4	2,765.9
6								
7	**Depreciation Reserve**							
8	Beginning Balance	106.9	145.7	178.8	230.3	287.9	353.6	440.1
9	Ending Balance	145.7	178.8	230.3	287.9	353.6	440.1	545.3
10	Average Balance	125.8	162.4	204.6	259.1	320.7	396.8	492.7
11								
12	**Construction Work in Progress**							
13	Beginning Balance	84.3	94.8	34.0	37.2	55.2	82.4	98.1
14	Transfer to Plant In Service	(129.4)	(113.6)	(279.4)	(40.1)	(390.7)	(732.4)	(268.6)
15	Plus: Additions	139.9	52.8	282.6	58.1	417.9	748.1	170.5
16	Ending Balance	94.8	34.0	37.2	55.2	82.4	98.1	(0.0)
17	Average Balance	129.5	74.0	35.6	46.2	68.8	90.2	49.0
18								
19	**REC/ACEC Inventory (1)**							
20	Net RECs/ACECs Transferred to Inventory	(8.3)	(5.9)	(4.1)	(6.9)	(4.0)	(3.4)	(2.0)
21	Ending Balance	29.4	23.5	19.4	12.5	8.5	5.2	3.2
22	Average Balance	39.6	30.9	21.4	15.9	10.5	6.9	4.2
23								
24	**ITC Holdings Corp. A/R**							
25	Beginning Balance	4.6	4.6	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
26	Additions	-	(4.6)	-	-	-	-	-
27	Ending Balance	4.6	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
28	Average Balance	4.6	0.4	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)

(1) Provided by witness Schroeder on Exhibit A-4

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Rate Base Financial Data
($ Millions)

Case No.: U-18232
Exhibit: A-7
Witness: P. D. Kauffman
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Line No.	(a) Description	(i) 2023	(j) 2024	(k) 2025	(l) 2026	(m) 2027	(n) 2028	(o) 2029
1	**Plant in Service**							
2	Beginning Balance	2,900.2	2,989.2	3,022.3	3,058.2	3,094.0	3,127.4	3,155.6
3	In Service Amounts	89.0	33.1	35.9	35.8	33.4	28.1	19.2
4	Ending Balance	2,989.2	3,022.3	3,058.2	3,094.0	3,127.4	3,155.6	3,174.8
5	Average Balance	2,944.7	3,005.7	3,040.2	3,076.1	3,110.7	3,141.5	3,165.2
6								
7	**Depreciation Reserve**							
8	Beginning Balance	545.3	657.0	771.1	886.4	1,003.1	1,121.0	1,240.1
9	Ending Balance	657.0	771.1	886.4	1,003.1	1,121.0	1,240.1	1,320.1
10	Average Balance	601.2	714.1	828.8	944.7	1,062.0	1,180.5	1,280.1
11								
12	**Construction Work in Progress**							
13	Beginning Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
14	Transfer to Plant In Service	(89.0)	(33.1)	(35.9)	(35.8)	(33.4)	(28.1)	(19.2)
15	Plus: Additions	89.0	33.1	35.9	35.8	33.4	28.1	19.2
16	Ending Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
17	Average Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
18								
19	**REC/ACEC Inventory (1)**							
20	Net RECs/ACECs Transferred to Inventory	(1.2)	(0.9)	(0.6)	(0.3)	(0.2)	(0.1)	0.1
21	Ending Balance	2.0	1.2	0.6	0.3	0.1	0.0	0.1
22	Average Balance	2.6	1.6	0.9	0.4	0.2	0.1	0.1
23								
24	**ITC Holdings Corp. A/R**							
25	Beginning Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
26	Additions	-	-	-	-	-	-	-
27	Ending Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
28	Average Balance	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)

(1) Provided by witness Schroeder on Exhibit A-4

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Production Tax Credits
($ Millions, except where noted)

Case No.: U-18232
Exhibit: A-8
Witness: P. D. Kauffman
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
		As Filed													
Line No.	**Description**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**
1	**Production Tax Credits**														
2	Qualifying Generation (MWh)	1,320,520	1,501,749	1,557,317	1,910,564	2,494,594	3,349,186	3,597,349	3,461,060	2,991,536	2,809,875	2,809,875	2,640,106	2,576,690	1,477,473
3	PTC Rate ($/MWh)	23.00	24.00	24.00	24.00	25.00	25.00	25.00	26.00	26.00	27.00	27.00	27.00	28.00	28.00
4	Wind Production Tax Credits Net	30.4	36.0	37.4	45.9	62.4	83.7	89.9	90.0	77.8	75.9	75.9	71.3	72.1	41.4
5	Reduction to Incremental Cost Of Compliance Grossed Up	49.8	59.1	50.4	61.9	84.1	113.3	121.8	121.4	104.9	102.3	102.3	96.2	97.3	55.8

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
U-15806 Transfer Prices

Case No.: U-18232
Exhibit: A-9
Witness: M. J. Rivard
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	(a)	(b)	(c)	(d)	(e)	(f) {(b) + (e)}	(g)	(h) {(b) + (g)}	(i)	(j) {(b) + (i)}	(k)	(l) {(b) + (k)}
					Landfill Gas/Biomass		**Anaerobic/Cellulosic Digester**		**Solar**		**Wind**	
Line No.	**Year**	**Annual Average Locational Marginal Cost ($/MWh)**	**Final Capacity Cost ($/MW-yr.)**	**Final Capacity Cost @ 100% Capacity Factor ($/MWh)**	**Adjusted Capacity Payment ($/MWh)**	**Total Transfer Price ($/MWh)**	**Adjusted Capacity Payment ($/MWh)**	**Total Transfer Price ($/MWh)**	**Adjusted Capacity Payment ($/MWh)**	**Total Transfer Price ($/MWh)**	**Adjusted Capacity Payment ($/MWh)**	**Total Transfer Price ($/MWh)**
1	2009	48.52	24,700	2.82	3.13	51.66	3.52	52.05	21.69	70.21	1.14	49.66
2	2010	54.39	30,000	3.42	3.81	58.20	4.28	58.67	26.34	80.73	1.38	55.77
3	2011	56.32	40,000	4.57	5.07	61.40	5.71	62.03	35.12	91.45	1.84	58.16
4	2012	71.73	60,000	6.83	7.59	79.32	8.54	80.27	52.54	124.27	2.75	74.49
5	2013	72.32	90,000	10.27	11.42	83.74	12.84	85.17	79.03	151.35	4.14	76.47
6	2014	73.05	125,000	14.27	15.85	88.90	17.84	90.88	109.76	182.81	5.75	78.80
7	2015	76.01	156,154	17.83	19.81	95.82	22.28	98.29	137.12	213.13	7.19	83.20
8	2016	78.06	162,831	18.54	20.60	98.65	23.17	101.23	142.59	220.65	7.47	85.53
9	2017	79.12	169,393	19.34	21.49	100.60	24.17	103.29	148.75	227.87	7.80	86.92
10	2018	81.20	176,047	20.10	22.33	103.53	25.12	106.32	154.59	235.79	8.10	89.30
11	2019	84.75	182,846	20.87	23.19	107.95	26.09	110.85	160.56	245.31	8.42	93.17
12	2020	88.04	189,960	21.63	24.03	112.07	27.03	115.07	166.35	254.39	8.72	96.76
13	2021	92.34	197,423	22.54	25.04	117.38	28.17	120.51	173.36	265.70	9.09	101.43
14	2022	96.36	205,164	23.42	26.02	122.38	29.28	125.63	180.16	276.51	9.44	105.80
15	2023	101.25	213,210	24.34	27.04	128.29	30.42	131.67	187.22	288.47	9.81	111.06
16	2024	106.78	221,470	25.21	28.01	134.80	31.52	138.30	193.95	300.73	10.17	116.95
17	2025	107.68	230,268	26.29	29.21	136.89	32.86	140.54	202.20	309.88	10.60	118.28
18	2026	111.74	239,304	27.32	30.35	142.09	34.15	145.89	210.14	321.88	11.02	122.76
19	2027	116.34	248,730	28.39	31.55	147.89	35.49	151.83	218.41	334.75	11.45	127.79
20	2028	124.68	258,620	29.44	32.71	157.39	36.80	161.48	226.48	351.16	11.87	136.55
21	2029	129.94	268,341	30.63	34.04	163.98	38.29	168.23	235.64	365.58	12.35	142.29

	Technology	Capacity Factor %	On-Peak Capacity Credit %
22			
23	Landfill Gas/Biomass	90%	100.0%
24	Anaerobic/Cellulosic Digester	80%	100.0%
25	Solar	13%	100.0%
26	Wind	31%	12.5%

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
2012 MPSC Staff Transfer Prices

Case No.: U-18232
Exhibit: A-10
Witness: M. J. Rivard
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Line No.	(a) Year	(b) MPSC Staff 2012 Transfer Price - Fixed Cost ($/MWh)	(c) MPSC Staff 2012 Transfer Price - Variable Cost ($/MWh)	(d) 2012 MPSC Staff Transfer Price ($/MWh)
1	2013	29.13	35.49	64.62
2	2014	29.65	38.22	67.87
3	2015	30.16	40.99	71.16
4	2016	30.34	41.68	72.02
5	2017	30.31	40.89	71.20
6	2018	30.29	41.81	72.09
7	2019	30.29	43.17	73.46
8	2020	30.30	44.05	74.34
9	2021	30.49	45.25	75.75
10	2022	30.70	46.56	77.26
11	2023	30.88	47.93	78.81
12	2024	31.12	49.44	80.56
13	2025	31.35	50.96	82.31
14	2026	31.58	52.11	83.69
15	2027	31.78	52.77	84.56
16	2028	32.01	54.05	86.06
17	2029	32.21	55.45	87.66

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2016 PA 342 Renewable Energy 2018 Amended Plan
2014 MPSC Staff Transfer Prices

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Line No.	(a) Year	(b) MPSC Staff 2014 Transfer Price - Fixed Cost ($/MWh)	(c) MPSC Staff 2014 Transfer Price - Variable Cost ($/MWh)	(d) 2014 MPSC Staff Transfer Price ($/MWh)
1	2014	31.19	38.93	70.12
2	2015	31.59	38.50	70.09
3	2016	32.03	38.37	70.40
4	2017	32.44	39.56	71.99
5	2018	32.74	41.16	73.89
6	2019	33.03	41.05	74.08
7	2020	33.37	40.64	74.01
8	2021	33.81	42.85	76.66
9	2022	34.30	44.19	78.49
10	2023	34.81	45.13	79.94
11	2024	35.29	45.62	80.91
12	2025	35.80	47.00	82.80
13	2026	36.33	49.00	85.33
14	2027	36.84	50.14	86.98
15	2028	37.33	51.36	88.69
16	2029	37.81	52.61	90.41

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2015 MPSC Staff Transfer Prices

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	(a)	(b)	(c)	(d)
Line No.	**Year**	**MPSC Staff 2015 Transfer Price - Fixed Cost ($/MWh)**	**MPSC Staff 2015 Transfer Price - Variable Cost ($/MWh)**	**2015 MPSC Staff Transfer Price ($/MWh)**
1	2015	32.06	36.21	68.27
2	2016	32.61	36.79	69.40
3	2017	33.61	38.91	72.52
4	2018	34.52	40.55	75.07
5	2019	35.27	42.17	77.44
6	2020	36.04	43.33	79.37
7	2021	36.75	43.75	80.50
8	2022	37.33	44.31	81.64
9	2023	37.91	45.59	83.50
10	2024	38.43	46.28	84.72
11	2025	39.01	47.70	86.71
12	2026	39.56	48.72	88.28
13	2027	40.18	49.85	90.02
14	2028	40.81	51.87	92.68
15	2029	41.38	53.17	94.55

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Line No.	(a) Year	(b) MPSC Staff 2016 Transfer Price - Fixed Cost ($/MWh)	(c) MPSC Staff 2016 Transfer Price - Variable Cost ($/MWh)	(d) 2016 MPSC Staff Transfer Price ($/MWh)
1	2016	33.21	38.58	71.80
2	2017	34.01	40.61	74.62
3	2018	35.19	42.77	77.96
4	2019	36.15	44.49	80.64
5	2020	37.01	45.94	82.95
6	2021	37.77	47.97	85.75
7	2022	38.49	50.26	88.75
8	2023	39.07	50.87	89.94
9	2024	39.59	52.04	91.63
10	2025	40.07	53.41	93.48
11	2026	40.48	54.07	94.56
12	2027	40.92	55.63	96.55
13	2028	41.34	56.82	98.16
14	2029	41.77	58.11	99.88

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2017 MPSC Staff Transfer Prices

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	(a)	(b)	(c)	(d)
Line No.	**Year**	**MPSC Staff 2017 Transfer Price - Fixed Cost ($/MWh)**	**MPSC Staff 2017 Transfer Price - Variable Cost ($/MWh)**	**DTE Electric Proposed / 2017 MPSC Staff Transfer Price ($/MWh)**
1	2017	31.74	43.20	74.95
2	2018	32.15	42.03	74.18
3	2019	32.73	41.24	73.97
4	2020	33.29	42.75	76.04
5	2021	33.82	43.33	77.15
6	2022	34.39	45.19	79.58
7	2023	34.97	47.64	82.61
8	2024	35.56	49.66	85.22
9	2025	36.13	50.89	87.02
10	2026	36.71	51.75	88.46
11	2027	37.39	53.33	90.72
12	2028	38.11	54.66	92.77
13	2029	38.79	56.08	94.88

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2017 MPSC Staff Combined Cycle Levelized Cost

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Line No.	(a)	(b)	(c)	(d)	(e)	(f)
1	Levelized Cost Calculation					
2						
3		NGCC	*notes*			
4	Capacity MW	400	MW			
5	Loading Factor	71.00%	The % of time the unit would be dispatched if available			
6	Equivalent Avail.	87.00%	The % of time the unit would be available for dispatch. A combination of FOR and planned outages			
7	Capacity Factor	61.77%	(Loading Factor)(Equivalent Availability)			
8	Heat Rate Btu/kWh	6719	BTU/kWh			
9	Fuel Cost $/MBtu	$5.99	$ per thousand BTU			
10	Total Cost MM no AFUDC	$478.651				
11	AFUDC	$65.45				
12	Total Cost MM	$544.100	MM			
13	Fixed Charge Rate	12.38%	% used to calculate fixed cost recovery component			
14	Fixed O&M $/kW	$14.62	$/kW			
15	Annual Lev. Fixed Cost MM	$67.36	MM			
16	Total Annual Lev. Fixed Cost MM	$73.21	MM			
17	Fixed Cost $/kWh	0.0338	$/kWh			
18	Fuel Cost $/kWh	0.0402	$/kWh			
19	Var. O&M $/kWh	0.0031	$/kWh			
20	Total Var. Cost	0.0433	$/kWh			
21	Total Cost $/kWh	0.07715	$/kWh			
22						
23						
24						

25	**AFUDC**		**Total Overnight Cost (MM) in 2016 $**	**Inflation Rate**	**Cumulative**	**Finance Rate**
26	Year	GCC	$451.868	2%		6.56%
27	1	5%	23	23.05	23.05	1.51
28	2	30%	136	141.04	164.08	10.76
29	3	35%	158	167.83	331.92	21.77
30	4	30%	136	146.73	478.65	31.40
31		1	452	478.651		65.45

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2017 MPSC Staff Combined Cycle Levelized Fuel Price

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Line No.	(a)	(b)	(c)	(d)
1	**Source: EIA Annual Energy Outlook 2017**			
2	http://www.eia.gov/			
3			Henry Hub	Henry Hub
4		Period (Used for Levelized Calculation)	2016 Dollars	2017 Dollars
5				
6	2017		$3.06	$3.12
7	2018		$3.55	$3.62
8	2019		$4.22	$4.30
9	2020		$4.90	$5.00
10	2021	1	$4.88	$4.98
11	2022	2	$4.83	$4.93
12	2023	3	$4.97	$5.07
13	2024	4	$5.23	$5.33
14	2025	5	$5.45	$5.56
15	2026	6	$5.74	$5.85
16	2027	7	$6.01	$6.13
17	2028	8	$6.29	$6.42
18	2029	9	$6.56	$6.69
19	2030	10	$6.76	$6.90
20	2031	11	$7.05	$7.19
21	2032	12	$7.20	$7.34
22	2033	13	$7.23	$7.37
23	2034	14	$7.33	$7.48
24	2035	15	$7.60	$7.75
25				
26				
27				
28	**Discount Rate**		**8.98%**	
29	**Net Present Value Fuel**		**$47.36**	**$48.31**
30	**Levelized Fuel Price**		**$5.87**	**$5.99**

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Line No.	(a)	(b)	(c)	(d) As Filed 2016	(e) 2017	(f) 2018	(g) 2019	(h) 2020	(i) 2021	(j) 2022
	PPAs									
1	L'Anse Warden	Generation	**1,000 MWh**	95.5	117.3	117.3	117.3	117.6	117.3	117.3
2	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 9.4	$ 11.8	$ 12.0	$ 12.0	$ 12.0	$ 12.0	$ 12.0
3	Blue Water	Generation	**1,000 MWh**	24.4	25.5	25.5	25.5	25.6	25.5	25.5
4	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 2.4	$ 2.5	$ 2.5	$ 2.5	$ 2.5	$ 2.5	$ 2.5
5	WM Renewable	Generation	**1,000 MWh**	26.0	26.4	26.4	26.4	26.5	26.4	26.4
6	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 2.2	$ 2.2	$ 2.2	$ 2.2	$ 2.3	$ 2.2	$ 2.2
7	Stoney Corners	Generation	**1,000 MWh**	80.9	81.8	81.8	81.8	81.8	81.8	81.8
8	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 6.9	$ 7.1	$ 7.3	$ 7.6	$ 7.9	$ 8.3	$ 8.7
9	Gratiot	Generation	**1,000 MWh**	284.1	293.0	293.0	293.0	293.0	293.0	293.0
10	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 24.3	$ 25.5	$ 26.2	$ 26.8	$ 26.8	$ 26.8	$ 26.8
11	Tuscola Bay Wind	Generation	**1,000 MWh**	362.4	368.9	368.9	368.9	368.9	368.9	368.9
12	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 22.1	$ 22.5	$ 22.5	$ 22.5	$ 22.5	$ 22.5	$ 22.5
13	Tuscola Wind II	Generation	**1,000 MWh**	312.7	325.2	325.2	325.2	325.2	325.2	325.2
14	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 15.4	$ 16.0	$ 16.0	$ 16.0	$ 16.0	$ 16.0	$ 16.0
15	Pheasant Run	Generation	**1,000 MWh**	264.6	275.8	275.8	275.8	275.8	275.8	275.8
16	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 13.0	$ 13.6	$ 13.6	$ 13.6	$ 13.6	$ 13.6	$ 13.6
17	Big Turtle	Generation	**1,000 MWh**	79.4	82.4	82.4	82.4	82.4	82.4	82.4
18	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 4.2	$ 4.4	$ 4.4	$ 4.4	$ 4.4	$ 4.4	$ 4.4
19		**Generation - PPA**	**1,000 MWh**	**1,529.8**	**1,596.4**	**1,596.4**	**1,596.4**	**1,596.8**	**1,596.4**	**1,596.4**
20		**PSCR Transfer Expense - PPA**	**$Mil**	**$ 100.0**	**$ 105.6**	**$ 106.6**	**$ 107.6**	**$ 107.9**	**$ 108.3**	**$ 108.6**

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Line No.	(a)	(b)	(c)	(k) 2023	(l) 2024	(m) 2025	(n) 2026	(o) 2027	(p) 2028	(q) 2029
	PPAs									
1	L'Anse Warden	Generation	**1,000 MWh**	107.7	117.6	117.3	117.3	117.3	117.6	78.2
2	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 11.0	$ 12.0	$ 12.0	$ 12.0	$ 12.0	$ 12.0	$ 8.0
3	Blue Water	Generation	**1,000 MWh**	25.5	25.6	25.5	25.5	25.5	25.6	17.0
4	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 2.5	$ 2.5	$ 2.5	$ 2.5	$ 2.5	$ 2.5	$ 1.7
5	WM Renewable	Generation	**1,000 MWh**	26.4	26.5	26.4	26.4	26.4	26.5	17.6
6	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 2.2	$ 2.3	$ 2.2	$ 2.2	$ 2.2	$ 2.3	$ 1.5
7	Stoney Corners	Generation	**1,000 MWh**	81.8	82.1	81.8	81.8	81.8	82.1	54.6
8	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 9.1	$ 9.5	$ 9.5	$ 9.5	$ 9.5	$ 9.5	$ 6.3
9	Gratiot	Generation	**1,000 MWh**	293.0	293.8	293.0	293.0	293.0	293.8	195.3
10	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 26.8	$ 26.9	$ 26.8	$ 26.8	$ 26.8	$ 26.9	$ 17.9
11	Tuscola Bay Wind	Generation	**1,000 MWh**	368.9	369.9	368.9	368.9	368.9	369.9	245.9
12	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 22.5	$ 22.5	$ 22.5	$ 22.5	$ 22.5	$ 22.5	$ 15.0
13	Tuscola Wind II	Generation	**1,000 MWh**	325.2	326.1	325.2	325.2	325.2	326.1	216.8
14	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 16.0	$ 16.1	$ 16.0	$ 16.0	$ 16.0	$ 16.1	$ 10.7
15	Pheasant Run	Generation	**1,000 MWh**	275.8	276.6	275.8	275.8	275.8	276.6	183.9
16	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 13.6	$ 13.6	$ 13.6	$ 13.6	$ 13.6	$ 13.6	$ 9.1
17	Big Turtle	Generation	**1,000 MWh**	82.4	82.7	82.4	82.4	82.4	82.7	55.0
18	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 4.4	$ 4.4	$ 4.4	$ 4.4	$ 4.4	$ 4.4	$ 2.9
19		**Generation - PPA**	**1,000 MWh**	**1,586.7**	**1,600.8**	**1,596.4**	**1,596.4**	**1,596.4**	**1,600.8**	**1,064.3**
20		**PSCR Transfer Expense - PPA**	**$Mil**	**$ 108.1**	**$ 109.8**	**$ 109.5**	**$ 109.5**	**$ 109.5**	**$ 109.8**	**$ 73.0**

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Line No.	(a)	(b)	(c)	(d) As Filed 2016	(e) 2017	(f) 2018	(g) 2019	(h) 2020	(i) 2021	(j) 2022
	DTE Electric Owned									
21	Gratiot County Wind	Generation	**1,000 MWh**	253.7	261.3	261.3	261.3	262.1	261.3	261.3
22	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 21.7	$ 22.7	$ 23.3	$ 24.3	$ 24.6	$ 24.5	$ 24.5
23	Thumb Wind Parks	Generation	**1,000 MWh**	406.3	401.8	401.8	401.8	402.9	401.8	401.8
24	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 27.0	$ 26.7	$ 26.7	$ 26.7	$ 26.8	$ 26.7	$ 26.7
25	Echo Wind Park	Generation	**1,000 MWh**	386.8	390.5	390.5	390.5	391.6	390.5	390.5
26	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 22.6	$ 22.8	$ 22.8	$ 22.8	$ 22.9	$ 22.8	$ 22.8
27	Brookfield Wind Park	Generation	**1,000 MWh**	260.6	263.3	263.3	263.3	264.0	263.3	263.3
28	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 13.5	$ 13.6	$ 13.6	$ 13.6	$ 13.7	$ 13.6	$ 13.6
29	Pinnebog Wind Park	Generation	**1,000 MWh**	13.1	169.8	169.8	169.8	170.2	169.8	169.8
30	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 0.7	$ 9.3	$ 9.3	$ 9.3	$ 9.3	$ 9.3	$ 9.3
31	Pine River Wind Park	Generation	**1,000 MWh**	-	-	70.6	423.9	425.1	423.9	423.9
32	2015 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	$ 3.7	$ 22.0	$ 22.1	$ 22.0	$ 22.0
33	2019 Future Wind Build	Generation	**1,000 MWh**	-	-	-	-	504.1	502.8	502.8
34	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	-	$ 23.2	$ 23.1	$ 23.1
35	2020 Future Wind Build	Generation	**1,000 MWh**	-	-	-	-	74.7	893.5	893.5
36	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	-	$ 3.4	$ 41.1	$ 41.1
37	2021 Future Wind Build	Generation	**1,000 MWh**	-	-	-	-	-	56.7	680.0
38	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	-	-	$ 2.9	$ 34.7
39	2022 Future Wind Build	Generation	**1,000 MWh**	-	-	-	-	-	-	38.3
40	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	-	-	-	$ 2.2
41	MIGreenPower Subscribed Wind	Subscribed Generation	**1,000 MWh**	-	(2.3)	(22.6)	(52.6)	(52.8)	(52.6)	(52.6)
42	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	$ (0.1)	$ (1.2)	$ (2.9)	$ (2.9)	$ (2.9)	$ (2.9)
43	VGP Subscribed Wind	Subscribed Generation	**1,000 MWh**	-				(74.7)	(893.5)	(893.5)
44	Transfer Amount to PSCR	Transfer Amount to PSCR	**$Mil**	-				$ (3.4)	$ (41.1)	$ (41.1)
45	DTE Solar Currents (~13.75MW)	Generation	**1,000 MWh**	15.8	16.2	16.1	16.1	16.0	15.9	15.8
46	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 3.3	$ 3.7	$ 3.8	$ 3.9	$ 4.1	$ 4.2	$ 4.4
47	DTE Solar Currents (~1.25MW)	Generation	**1,000 MWh**	1.5	1.4	1.4	1.4	1.4	1.4	1.4
48	2012 MPSC Staff Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1
49	Demille/Turrill/O'Shea Utility-Scale Solar	Generation	**1,000 MWh**	-	41.6	82.8	82.4	82.2	81.6	81.2
50	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	$ 3.0	$ 6.1	$ 6.1	$ 6.1	$ 6.3	$ 6.4
51	2019 Future Solar Pilot	Generation	**1,000 MWh**	-	-	-	9.6	19.2	19.1	19.0
52	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	1	$ 1.5	$ 1.5	$ 1.5
53	2020 Future Solar Pilot	Generation	**1,000 MWh**	-	-	-	-	2.6	5.2	5.2
54	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	-	-	-	-	0	$ 0.4	$ 0.4
55	MIGreenPower Subscribed Solar	Subscribed Generation	**1,000 MWh**	-	(2.1)	(21.3)	(49.4)	(49.3)	(48.9)	(48.7)
56	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ -	$ (0.2)	$ (1.6)	$ (3.7)	$ (3.7)	$ (3.8)	$ (3.8)
57		**Generation - Owned (excluding VGPs)**	**1,000 MWh**	**1,337.8**	**1,541.6**	**1,613.9**	**1,918.0**	**2,439.3**	**2,491.6**	**3,152.9**
58		**PSCR Transfer Expense - Owned**	**$Mil**	**$ 88.9**	**$ 101.7**	**$ 106.7**	**$ 123.2**	**$ 148.0**	**$ 150.9**	**$ 185.1**
59		**Total Generation (excluding VGPs)**	**1,000 MWh**	**2,867.7**	**3,137.9**	**3,210.3**	**3,514.4**	**4,036.2**	**4,088.0**	**4,749.3**
60		**Total PSCR Transfer Expense**	**$Mil**	**$ 188.9**	**$ 207.3**	**$ 213.4**	**$ 230.8**	**$ 255.9**	**$ 259.2**	**$ 293.8**

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	DTE Electric Owned									
21	Gratiot County Wind	Generation	**1,000 MWh**	261.3	262.1	261.3	261.3	261.3	262.1	174.2
22	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 24.5	$ 24.6	$ 24.5	$ 24.5	$ 24.5	$ 24.6	$ 16.4
23	Thumb Wind Parks	Generation	**1,000 MWh**	401.8	402.9	401.8	401.8	401.8	402.9	267.9
24	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 26.7	$ 26.8	$ 26.7	$ 26.7	$ 26.7	$ 26.8	$ 17.8
25	Echo Wind Park	Generation	**1,000 MWh**	390.5	391.6	390.5	390.5	390.5	391.6	260.3
26	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 22.8	$ 22.9	$ 22.8	$ 22.8	$ 22.8	$ 22.9	$ 15.2
27	Brookfield Wind Park	Generation	**1,000 MWh**	263.3	264.0	263.3	263.3	263.3	264.0	175.5
28	2012 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 13.6	$ 13.7	$ 13.6	$ 13.6	$ 13.6	$ 13.7	$ 9.1
29	Pinnebog Wind Park	Generation	**1,000 MWh**	169.8	170.2	169.8	169.8	169.8	170.2	113.2
30	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 9.3	$ 9.3	$ 9.3	$ 9.3	$ 9.3	$ 9.3	$ 6.2
31	Pine River Wind Park	Generation	**1,000 MWh**	423.9	425.1	423.9	423.9	423.9	425.1	282.6
32	2015 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 22.0	$ 22.1	$ 22.0	$ 22.0	$ 22.0	$ 22.1	$ 14.7
33	2019 Future Wind Build	Generation	**1,000 MWh**	502.8	504.1	502.8	502.8	502.8	504.1	335.2
34	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 23.1	$ 23.2	$ 23.1	$ 23.1	$ 23.1	$ 23.2	$ 15.4
35	2020 Future Wind Build	Generation	**1,000 MWh**	893.5	896.0	893.5	893.5	893.5	896.0	595.7
36	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 41.1	$ 41.2	$ 41.1	$ 41.1	$ 41.1	$ 41.2	$ 27.4
37	2021 Future Wind Build	Generation	**1,000 MWh**	680.0	681.9	680.0	680.0	680.0	681.9	453.3
38	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 34.7	$ 34.8	$ 34.7	$ 34.7	$ 34.7	$ 34.8	$ 23.1
39	2022 Future Wind Build	Generation	**1,000 MWh**	459.9	461.2	459.9	459.9	459.9	461.2	306.6
40	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 26.2	$ 26.3	$ 26.2	$ 26.2	$ 26.2	$ 26.3	$ 17.5
41	MIGreenPower Subscribed Wind	Subscribed Generation	**1,000 MWh**	(52.6)	(52.8)	(52.6)	(52.6)	(52.6)	(52.8)	(35.1)
42	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ (2.9)	$ (2.9)	$ (2.9)	$ (2.9)	$ (2.9)	$ (2.9)	$ (1.9)
43	VGP Subscribed Wind	Subscribed Generation	**1,000 MWh**	(893.5)	(896.0)	(893.5)	(893.5)	(893.5)	(896.0)	(596)
44	Transfer Amount to PSCR	Transfer Amount to PSCR	**$Mil**	$ (41.1)	$ (41.2)	$ (41.1)	$ (41.1)	$ (41.1)	$ (41.2)	$ (27.4)
45	DTE Solar Currents (~13.75MW)	Generation	**1,000 MWh**	15.7	15.7	15.6	15.5	15.4	15.3	10.2
46	U-15806 Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 4.5	$ 4.7	$ 4.8	$ 5.0	$ 5.2	$ 5.4	$ 3.7
47	DTE Solar Currents (~1.25MW)	Generation	**1,000 MWh**	1.4	1.4	1.4	1.4	1.4	1.4	0.9
48	2012 MPSC Staff Transfer Price	Transfer Amount to PSCR	**$Mil**	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1	$ 0.1
49	Demille/Turrill/O'Shea Utility-Scale Solar	Generation	**1,000 MWh**	80.8	80.6	79.9	79.5	79.2	79.0	52.2
50	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 6.5	$ 6.5	$ 6.6	$ 6.8	$ 6.9	$ 7.0	$ 4.7
51	2019 Future Solar Pilot	Generation	**1,000 MWh**	18.9	18.8	18.7	18.6	18.5	18.5	12.2
52	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 1.6	$ 1.6	$ 1.6	$ 1.6	$ 1.7	$ 1.7	$ 1.2
53	2020 Future Solar Pilot	Generation	**1,000 MWh**	5.2	5.2	5.1	5.1	5.1	5.1	3.3
54	2017 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ 0.4	$ 0.4	$ 0.4	$ 0.5	$ 0.5	$ 0.5	$ 0.3
55	MIGreenPower Subscribed Solar	Subscribed Generation	**1,000 MWh**	(48.5)	(48.3)	(48.0)	(47.7)	(47.5)	(47.4)	(31.3)
56	2014 MPSC Staff Transfer Prices	Transfer Amount to PSCR	**$Mil**	$ (3.9)	$ (3.9)	$ (4.0)	$ (4.1)	$ (4.1)	$ (4.2)	$ (2.8)
57		**Generation - Owned (excluding VGPs)**	**1,000 MWh**	**3,574.1**	**3,583.5**	**3,573.4**	**3,573.0**	**3,572.6**	**3,582.0**	**2,381.3**
58		**PSCR Transfer Expense - Owned**	**$Mil**	**$ 209.4**	**$ 210.2**	**$ 209.9**	**$ 210.1**	**$ 210.4**	**$ 211.3**	**$ 140.6**
59		**Total Generation (excluding VGPs)**	**1,000 MWh**	**5,160.9**	**5,184.2**	**5,169.8**	**5,169.4**	**5,169.0**	**5,182.8**	**3,445.5**
60		**Total PSCR Transfer Expense**	**$Mil**	**$ 317.5**	**$ 320.0**	**$ 319.3**	**$ 319.6**	**$ 319.8**	**$ 321.0**	**$ 213.6**

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Incremental Cost of Compliance Summary
for the Period 2016 to 2029
($ Millions)

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Line No.	MCL 460.104	Description	As Filed 2016	2017	2018	2019	2020	2021	2022
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	(2)(a)	**Sum of Costs:**							
2	(i,ii,iii,iv)	Capital, O&M, ROE, Financing, Interconnect & Ancillary	174.9	184.3	189.4	211.6	242.8	321.3	380.1
3	(v)(A)	Expected RECs & ACECs to be Consumed	16.8	13.5	11.1	9.9	6.7	5.7	3.9
4	(v)(B)	Costs of Contracts under Sec 33(1) - Estimated PPA Charges	100.0	105.6	106.6	107.6	107.9	108.3	108.6
5	(vi)	State & Federal Government Actions Related to Renewable Energy	-	-	-	-	-	-	-
6	(vii)	Additional Costs Determined Necessary by the Commission	-	-	-	-	-	-	-
7		**Subtotal of Costs (Gross Revenue Requirement)**	291.7	303.4	307.2	329.1	357.5	435.3	492.6
8	(2)(b)	**Subtractions from the Sum of Costs:**							
9	(i)	Revenue from the Sale of Environmental Attributes - REC Sales	-	-	-	-	-	-	-
10	(iii)	Tax Credits to Promote Renewable Energy - PTC	49.8	59.1	50.4	61.9	84.1	113.3	121.8
11	(iii)	Tax Benefit of Solar Grants / Investment Tax Credit	0.3	0.3	0.2	0.4	1.5	2.6	2.8
12	(iv)	Cost Recovered under the PSCR (Transfer Expense)	188.9	207.3	213.4	230.8	255.9	259.2	293.8
13	(v)	Revenue From Wholesale Renewable Energy Sales	-	-	-	-	-	-	-
14	(vi)	VGP Subscription Revenue	-	-	-	-	3.4	40.2	40.2
15	(vi)	VGP Subscription Credit	-	-	-	-	(2.3)	(28.0)	(28.9)
16	(vi)	VGP Subscription Credit (PSCR reimbursement)	-	-	-	-	2.3	28.0	28.9
17	(vi)	MiGreenPower Subscription Revenue	-	0.3	3.2	7.3	7.4	7.3	7.3
18	(vi)	MiGreenPower Subscription Credit	-	(0.2)	(1.9)	(4.4)	(4.6)	(4.7)	(4.8)
19	(vi)	MiGreenPower Subscription Credit (PSCR reimbursement)	-	0.2	1.9	4.4	4.6	4.7	4.8
20	(vi)	Additional Revenue as Determined by the Commission	-	-	-	-	-	-	-
21	(vii)	Revenues Recovered in Rates for Renewable Energy Costs Included in 2(a)	-	-	-	-	-	-	-
22		Tax Cuts and Jobs Act of 2017 - Regulatory Liability Amortization	-	-	-	4.9	4.9	4.9	4.9
23									
24		**Subtotal of Subtractions**	239.0	267.0	267.1	305.2	357.1	427.5	470.8
25		**Subtotal - Prior to Interest on Regulatory Liabilities**	52.7	36.4	40.0	23.8	0.4	7.8	21.9
26	(2)(a)(ii)	Interest on Regulatory Liabilities @ Short Term Interest Rate	1.1	1.5	1.9	1.7	1.5	1.4	1.0
27	(3)	Carrying Charges for Regulatory Assets @ Pre-tax Cost of Capital	-	-	-	-	-	-	-
28									
29		**Total Incremental Cost of Compliance**	51.6	35.0	38.1	22.2	(1.2)	6.3	20.8

Line No.		
	Sum of Costs:	
2	Capital, O&M, ROE, Financing, Interconnect & Ancillary	Exh A-17, line 22 minus lines 14 & 15
3	Expected RECs & ACECs to be Consumed	Exh A-4 ln 23
4	Costs of Contracts under Sec 33(1) - Estimated PPA Charges	Exh A-15 ln 20
5	State & Federal Government Actions Related to Renewable Energy	none
6	Additional Costs Determined Necessary by the Commission	none
8	**Subtractions from the Sum of Costs:**	
9	Revenue from the Sale of Environmental Attributes - REC Sales	none
10	Tax Credits to Promote Renewable Energy - PTC	Exh A-8 ln 5
11	Tax Benefit of Solar Grants / Investment Tax Credit	WP-17
12	Cost Recovered under the PSCR (Transfer Expense)	Exh A-15 ln 60
13	Revenue From Wholesale Renewable Energy Sales	none
14-20	Additional Revenue as Determined by the Commission	WP-6
21	Revenues Recovered in Rates for Renewable Energy Costs Included in 2(a)	none
22	Tax Cuts and Jobs Act of 2017 Regulatory Liability Amortization	WP-14
24	Subtotal of Subtractions	Sum lines 9 thru 22
25	**Subtotal - Prior to Interest on Regulatory Liabilities**	Line 7 minus line 24
26	Interest on Regulatory Liabilities @ Short Term Interest Rate	Exh A-18 ln 7
27	Carrying Charges for Regulatory Assets @ Pre-tax Cost of Capital	none
29	**Total Incremental Cost of Compliance**	line 25 minus line 26 plus line 27

Michigan Public Service Commission
DTE Electric Company
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Line No.	(a) MCL 460.104	(b) Description	(j) 2023	(k) 2024	(l) 2025	(m) 2026	(n) 2027	(o) 2028	(p) 2029
1	(2)(a)	**Sum of Costs:**							
2	(i,ii,iii,iv)	Capital, O&M, ROE, Financing, Interconnect & Ancillary	390.2	380.7	367.0	355.9	349.3	344.3	226.6
3	(v)(A)	Expected RECs & ACECs to be Consumed	2.7	1.8	1.2	1.0	0.8	0.8	0.3
4	(v)(B)	Costs of Contracts under Sec 33(1) - Estimated PPA Charges	108.1	109.8	109.5	109.5	109.5	109.8	73.0
5	(vi)	State & Federal Government Actions Related to Renewable Energy	-	-	-	-	-	-	-
6	(vii)	Additional Costs Determined Necessary by the Commission	-	-	-	-	-	-	-
7		**Subtotal of Costs (Gross Revenue Requirement)**	501.0	492.2	477.7	466.3	459.6	454.8	299.9
8	(2)(b)	**Subtractions from the Sum of Costs:**							
9	(i)	Revenue from the Sale of Environmental Attributes - REC Sales	-	-	-	-	-	-	-
10	(iii)	Tax Credits to Promote Renewable Energy - PTC	121.4	104.9	102.3	102.3	96.2	97.3	55.8
11	(iii)	Tax Benefit of Solar Grants / Investment Tax Credit	2.9	2.9	2.9	2.9	2.9	2.9	1.9
12	(iv)	Cost Recovered under the PSCR (Transfer Expense)	317.5	320.0	319.3	319.6	319.8	321.0	213.6
13	(v)	Revenue From Wholesale Renewable Energy Sales	-	-	-	-	-	-	-
14	(vi)	VGP Subscription Revenue	40.2	40.3	40.2	40.2	40.2	40.3	26.8
15	(vi)	VGP Subscription Credit	(29.8)	(30.9)	(31.8)	(32.8)	(33.8)	(35.0)	(24.0)
16	(vi)	VGP Subscription Credit (PSCR reimbursement)	29.8	30.9	31.8	32.8	33.8	35.0	24.0
17	(vi)	MiGreenPower Subscription Revenue	7.3	7.3	7.2	7.2	7.2	7.2	4.8
18	(vi)	MiGreenPower Subscription Credit	(4.9)	(5.1)	(5.2)	(5.4)	(5.5)	(5.7)	(3.9)
19	(vi)	MiGreenPower Subscription Credit (PSCR reimbursement)	4.9	5.1	5.2	5.4	5.5	5.7	3.9
20	(vi)	Additional Revenue as Determined by the Commission	-	-	-	-	-	-	-
21	(vii)	Revenues Recovered in Rates for Renewable Energy Costs Included in 2(a)	-	-	-	-	-	-	-
22		Tax Cuts and Jobs Act of 2017 - Regulatory Liability Amortization	4.9	4.9	4.9	4.9	4.9	4.9	3.3
23									
24		**Subtotal of Subtractions**	494.1	480.3	476.9	477.1	471.2	473.6	306.2
25		**Subtotal - Prior to Interest on Regulatory Liabilities**	6.8	12.0	0.8	(10.8)	(11.6)	(18.8)	(6.3)
26	(2)(a)(ii)	Interest on Regulatory Liabilities @ Short Term Interest Rate	0.6	0.4	0.2	0.3	0.7	1.2	1.0
27	(3)	Carrying Charges for Regulatory Assets @ Pre-tax Cost of Capital	-	-	-	-	-	-	-
28									
29		**Total Incremental Cost of Compliance**	6.2	11.6	0.7	(11.1)	(12.3)	(19.9)	(7.3)

Line No.	
	Sum of Costs:
2	Capital, O&M, ROE, Financing, Interconnect & Ancillary
3	Expected RECs & ACECs to be Consumed
4	Costs of Contracts under Sec 33(1) - Estimated PPA Charges
5	State & Federal Government Actions Related to Renewable Energy
6	Additional Costs Determined Necessary by the Commission
8	**Subtractions from the Sum of Costs:**
9	Revenue from the Sale of Environmental Attributes - REC Sales
10	Tax Credits to Promote Renewable Energy - PTC
11	Tax Benefit of Solar Grants / Investment Tax Credit
12	Cost Recovered under the PSCR (Transfer Expense)
13	Revenue From Wholesale Renewable Energy Sales
14-20	Additional Revenue as Determined by the Commission
21	Revenues Recovered in Rates for Renewable Energy Costs Included in 2(a)
22	Tax Cuts and Jobs Act of 2017 Regulatory Liability Amortization
24	Subtotal of Subtractions
25	**Subtotal - Prior to Interest on Regulatory Liabilities**
26	Interest on Regulatory Liabilities @ Short Term Interest Rate
27	Carrying Charges for Regulatory Assets @ Pre-tax Cost of Capital
29	**Total Incremental Cost of Compliance**

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Revenue Requirement for the Period 2016 to 2029

($Millions)

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Line No.	**Description**	**Exhibit**	**As Filed 2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**
1	**Revenue Requirement Development**								
2	**Average Rate Base**								
3	Plant In-Service	Exh A-7 ln 5	968.0	1,123.6	1,328.6	1,488.4	1,703.8	2,265.4	2,765.9
4	Construction Work in Progress	Exh A-7 ln 17	129.5	74.0	35.6	46.2	68.8	90.2	49.0
5	Accumulated Depreciation Reserve	Exh A-7 ln 10	125.8	162.4	204.6	259.1	320.7	396.8	492.7
6	Net Plant	line 3 + line 4 - line 5	971.6	1,035.2	1,159.6	1,275.5	1,451.9	1,958.8	2,322.2
7	REC/ACEC Inventory	Exh A-7 ln 22	39.6	30.9	21.4	15.9	10.5	6.9	4.2
8	ITC Holdings Corp. A/R	Exh A-7 ln 28	4.6	0.4	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
9	Accumulated Deferred Income Taxes	Exh A-25 ln 36	(111.4)	(135.3)	(138.1)	(142.6)	(150.0)	(167.3)	(219.7)
10	Net Rate Base (Average)	Sum lines 6 thru 9	904.4	931.2	1,043.0	1,148.8	1,312.4	1,798.3	2,106.6
11	Pre-Tax Rate of Return	Exh A-19	11.12%	11.12%	9.60%	9.60%	9.60%	9.60%	9.60%
12	**Revenue Requirements**								
13	Pre-Tax Return on Net Rate Base	(line 10 X 11)	100.5	103.5	100.1	110.3	126.0	172.6	202.2
14	PPA Purchased Power	Exh A-15 ln 20	100.0	105.6	106.6	107.6	107.9	108.3	108.6
15	RECs/ACECs Consumed	Exh A-4 ln 23	16.8	13.5	11.1	9.9	6.7	5.7	3.9
16	Operation & Maintenance	Exh A-6 ln 2&3, 10&11	20.5	22.5	23.0	27.9	32.9	40.7	45.7
17	Royalty Payments	Exh A-6 ln 1 & 9	3.9	4.1	4.4	5.1	6.1	7.9	9.1
18	Depreciation	Exh A-6 ln 7 & 15	40.0	44.1	51.5	57.5	65.7	86.6	105.1
19	Property Taxes	Exh A-6 ln 5 & 13	9.3	9.4	9.5	9.7	10.8	12.0	16.2
20	Insurance	Exh A-6 ln 4 & 12	0.7	0.7	0.8	1.0	1.3	1.5	1.7
21	Interest Received from ITC Holdings Corp.	Exh A-6, ln 8 & 16	-	-	-	-	-	-	-
22	Gross Revenue Requirements	(Lines 13 thru 21)	291.7	303.4	307.2	329.1	357.5	435.3	492.6

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Revenue Requirement
for the Period 2016 to 2029
($Millions)

	(a)	(b)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
Line No.	**Description**	**Exhibit**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**
1	**Revenue Requirement Development**								
2	**Average Rate Base**								
3	Plant In-Service	Exh A-7 ln 5	2,944.7	3,005.7	3,040.2	3,076.1	3,110.7	3,141.5	3,165.2
4	Construction Work in Progress	Exh A-7 ln 17	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
5	Accumulated Depreciation Reserve	Exh A-7 ln 10	601.2	714.1	828.8	944.7	1,062.0	1,180.5	1,280.1
6	Net Plant	line 3 + line 4 - line 5	2,343.5	2,291.6	2,211.4	2,131.3	2,048.7	1,960.9	1,885.1
7	REC/ACEC Inventory	Exh A-7 ln 22	2.6	1.6	0.9	0.4	0.2	0.1	0.1
8	ITC Holdings Corp. A/R	Exh A-7 ln 28	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
9	Accumulated Deferred Income Taxes	Exh A-25 ln 36	(293.7)	(370.3)	(448.5)	(497.2)	(497.2)	(473.6)	(452.7)
10	Net Rate Base (Average)	Sum lines 6 thru 9	2,052.4	1,922.9	1,763.8	1,634.5	1,551.6	1,487.3	1,432.4
11	Pre-Tax Rate of Return	Exh A-19	9.60%	9.60%	9.60%	9.60%	9.60%	9.60%	6.40%
12	**Revenue Requirements**								
13	Pre-Tax Return on Net Rate Base	(line 10 X 11)	197.0	184.6	169.3	156.9	149.0	142.8	91.7
14	PPA Purchased Power	Exh A-15 ln 20	108.1	109.8	109.5	109.5	109.5	109.8	73.0
15	RECs/ACECs Consumed	Exh A-4 ln 23	2.7	1.8	1.2	1.0	0.8	0.8	0.3
16	Operation & Maintenance	Exh A-6 ln 2&3, 10&11	49.5	50.5	51.5	52.5	53.5	54.6	37.1
17	Royalty Payments	Exh A-6 ln 1 & 9	10.3	10.1	10.2	10.3	10.4	10.5	7.1
18	Depreciation	Exh A-6 ln 7 & 15	111.8	114.0	115.3	116.7	117.9	119.1	80.0
19	Property Taxes	Exh A-6 ln 5 & 13	19.9	19.8	19.0	17.9	16.8	15.6	9.6
20	Insurance	Exh A-6 ln 4 & 12	1.7	1.7	1.7	1.7	1.7	1.8	1.2
21	Interest Received from ITC Holdings Corp.	Exh A-6, ln 8 & 16	-	-	-	-	-	-	-
22	Gross Revenue Requirements	(Lines 13 thru 21)	501.0	492.2	477.7	466.3	459.6	454.8	299.9

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Interest On Regulatory Liability
for the Period 2016 to 2029
($Millions)

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Line No.	**Description**	**Source**	**As Filed 2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**
1	Surcharge Revenue	N/A	0.0	-	-	-	-	-	-
2	Incremental Cost of Compliance	Exh A-16 ln 29	51.6	35.0	38.1	22.2	(1.2)	6.3	20.8
3	Regulatory Liability - Increase / (Decre	line 1 - line 2	(51.6)	(35.0)	(38.1)	(22.2)	1.2	(6.3)	(20.8)
4	Regulatory Liability Ending Balance	Prior Yr End + Cur. Yr Change	145.0	110.0	71.9	49.7	50.9	44.6	23.7
5	Average Regulatory Liability	[Prior Yr End + Cur. Yr End]/2	170.8	127.5	91.0	60.8	50.3	47.7	34.1
6	Short Term Interest Rate	Treasury	0.85%	1.16%	2.06%	2.75%	3.00%	3.00%	3.00%
7	Interest on Ave Reg Liability	line 5 x line 6	1.1	1.5	1.9	1.7	1.5	1.4	1.0

Line No.	**Description**	**Source**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**
1	Surcharge Revenue	N/A	-	-	-	-	-	-	-
2	Incremental Cost of Compliance	Exh A-16 ln 29	6.2	11.6	0.7	(11.1)	(12.3)	(19.9)	(7.3)
3	Regulatory Liability - Increase / (Decre	line 1 - line 2	(6.2)	(11.6)	(0.7)	11.1	12.3	19.9	7.3
4	Regulatory Liability Ending Balance	Prior Yr End + Cur. Yr Change	17.5	5.9	5.2	16.3	28.6	48.6	55.9
5	Average Regulatory Liability	[Prior Yr End + Cur. Yr End]/2	20.6	11.7	5.6	10.8	22.5	38.6	52.2
6	Short Term Interest Rate	Treasury	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
7	Interest on Ave Reg Liability	line 5 x line 6	0.6	0.4	0.2	0.3	0.7	1.2	1.0

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Pre-tax Rate of Return
Based on ROE and Debt to Equity ratios
Authorized in Case No. U-15244
Actual 2016 Debt Cost by Month

Case No.: U-18232
Exhibit: A-19
Witness: T. W. Lacey
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
						2016							
Line No.	**Description**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Sum** (a thru l)
1	Debt Ratio	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	51.22%	
2	Debt Cost	4.57%	4.57%	4.56%	4.56%	4.52%	4.52%	4.52%	4.52%	4.47%	4.47%	4.47%	4.47%	
3	Revenue Conversion	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
4	Debt Component	2.34%	2.34%	2.34%	2.34%	2.32%	2.32%	2.32%	2.32%	2.29%	2.29%	2.29%	2.29%	
5	Equity Ratio	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	48.78%	
6	Equity Cost	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	11.00%	
7	Revenue Conversion	1.64028	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	1.63928	
8	Equity Component	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	8.80%	
9	Pre-Tax Cost of Capital *	11.14%	11.14%	11.13%	11.13%	11.11%	11.11%	11.11%	11.11%	11.09%	11.09%	11.09%	11.09%	
10	Pre-Tax Cost of Capital/12	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.92%	0.92%	0.92%	0.92%	11.12%

* The pre-tax cost of capital is unchanged by the inclusion of the solar ITC regulatory liability

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Revenue Conversion Factors & Effective Tax Rate

Case No.: U-18232
Exhibit: A-19
Witness: T. W. Lacey
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Revenue Conversion Factors

Line No.	Revenue Conversion Factor	(a) 2018-2029 Debt Conversion Percent	(b) 2018-2029 Equity Conversion Percent	(c) 2017 Debt Conversion Percent	(d) 2017 Equity Conversion Percent
1	Base	100.00%	100.00%	100.00%	100.00%
2	MCIT Income Tax (1)		5.82%		5.82%
3	Municipal Tax Base (L1 - L2)	100.00%	94.18%	100.00%	94.18%
4	Municipal Tax Rate (1)		0.34%		0.33%
5	FIT Base (L4 - L5)	100.00%	93.84%	100.00%	93.85%
6	FIT Rate		21.00%		35.00%
7	FIT Tax (L5 x L6)	0.00%	19.71%	0.00%	32.85%
8	Income (L5 - L7)	100.00%	74.14%	100.00%	61.00%
9	Revenue Multiplier (L1 / L8)	1.0000	1.3489	1.0000	1.6393
10	Cumulative Effective Tax Rate (1 - line 8, col b)		25.86%		39.00%

(1) Provided by DTE Tax Department

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Pre-Tax Rate of Return and Revenue Conversion Factors
Based on Authorized ROE and Debt to Equity ratios
Authorized in Case No. U-15244 and U-18014, Debt Cost from U-18014

Case No.: U-18232
Exhibit: A-19
Witness: T. W. Lacey
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Pre-Tax Rate of Return and Revenue Conversion Factors

Line No.		(a) Ratio	(b) Cost	(c) Regulated RoR	(d) Revenue Conversion	(e) Pre Tax RoR
1	Debt	51.22%	4.61%	2.361%	1.0000	2.361%
2	Equity	48.78%	11.00% 1/	5.366%	1.3489	7.238%
3		100.00%		**7.73%**		**9.60%**

1/- ROE of 11.00% authorized in U-15244

		2018-2029		2016-2017	
	Revenue Conversion Factor	**Debt Conversion Percent**	**Equity Conversion Percent**	**Debt Conversion Percent**	**Equity Conversion Percent**
4	Base	100.00%	100.00%	100.00%	100.00%
5	MCIT Income Tax		5.82%		5.82%
6	Municipal Tax Base (L4 - L5)	100.00%	94.18%	100.00%	94.18%
7	Municipal Tax Rate		0.34%		0.33%
8	FIT Base (L6 - L7)	100.00%	93.84%	100.00%	93.85%
9	FIT Rate		21.00%		35.00%
10	FIT Tax (L8 x L9)	0.00%	19.71%	0.00%	32.85%
11	Income (L8 - L10)	100.00%	74.14%	100.00%	61.00%
12	Revenue Multiplier (L4 / L11)	1.0000	1.3489	1.0000	1.6393
13	Effective Tax Rate (L4 - L11)		25.86%		39.00%

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Annual Service Area Sales
2008-2017 Historical; 2018-2029 Forecast

Case No.: U-18232
Exhibit: A-20
Witness: M. B. Leuker
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Line No.	(a) Year	(b) Residential	(c) Commercial	(d) Industrial	(e) St Ltg	(f) Pumping	(g) Wholesale	(h) Total
		Annual Sales - GWh						
1	Actual							
2	2008	15,493	20,114	13,349	303	90	2,825	52,174
3	2009	14,625	19,750	9,849	302	77	2,850	47,453
4	2010	15,727	19,805	11,964	296	44	2,870	50,706
5	2011	15,908	20,181	11,780	287	48	2,800	51,006
6	2012	15,667	20,064	11,954	282	4	673	48,643
7	2013	15,274	19,777	12,387	277	0	664	48,379
8	2014	14,940	19,821	12,202	271	0	246	47,480
9	2015	15,001	20,191	11,589	291	0	0	47,072
10	2016	15,875	20,519	11,942	264	0	0	48,601
11	2017	14,885	19,979	12,020	258	0	0	47,142
12								
13	Temperature-Normalized (T-N)							
14	2016 T-N	15,182	20,219	11,885	264	0	0	47,551
15	2017 T-N	14,982	19,939	12,027	258	0	0	47,206
16								
17	Forecast							
18	2018	15,001	20,170	11,409	232	0	0	46,812
19	2019	14,975	20,086	11,504	224	0	0	46,790
20	2020	14,950	20,032	11,593	220	0	0	46,796
21	2021	14,925	20,074	11,677	217	0	0	46,892
22	2022	14,900	20,077	11,657	215	0	0	46,849
23	2023	14,893	20,076	11,639	215	0	0	46,823
24	2024	14,885	20,071	11,606	215	0	0	46,777
25	2025	14,878	20,063	11,602	215	0	0	46,758
26	2026	14,870	20,056	11,602	215	0	0	46,744
27	2027	14,863	20,057	11,601	215	0	0	46,736
28	2028	14,855	20,067	11,597	215	0	0	46,734
29	2029	10,113	13,532	7,824	139	0	0	31,608

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Annual Bundled Sales
2008-2017 Historical; 2018-2029 Forecast

Case No.: U-18232
Exhibit: A-21
Witness: M. B. Leuker
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Line No.	(a) Year	(b) Residential	(c) Commercial	(d) Industrial	(e) St Ltg	(f) Pumping	(g) Wholesale	(h) Total	(i) Retail Sales (Total less Wholesale)
		Annual Sales - GWh							
1	Actual								
2	2008	15,493	18,920	13,086	303	90	2,825	50,716	47,892
3	2009	14,625	18,200	9,922	302	77	2,850	45,977	43,127
4	2010	15,726	16,570	10,195	296	44	2,870	45,701	42,831
5	2011	15,907	16,778	9,739	287	48	2,800	45,561	42,760
6	2012	15,666	16,832	9,989	282	4	673	43,446	42,773
7	2013	15,273	16,661	10,303	277	0	664	43,179	42,515
8	2014	14,940	16,792	10,199	271	0	246	42,447	42,201
9	2015	15,001	17,192	9,690	291	0	0	42,173	42,173
10	2016	15,875	17,521	10,004	264	0	0	43,665	43,665
11	2017	14,885	17,283	9,897	258	0	0	42,323	42,323
12									
13	Temperature-Normalized (T-N)								
14	2016 T-N	15,182	17,263	9,951	264	0	0	42,660	42,660
15	2017 T-N	14,981	17,254	9,904	258	0	0	42,397	42,397
16									
17	Forecast								
18	2018	15,001	17,210	9,469	232	0	0	41,912	41,912
19	2019	14,975	17,126	9,564	224	0	0	41,890	41,890
20	2020	14,950	17,072	9,653	220	0	0	41,896	41,896
21	2021	14,925	17,114	9,737	217	0	0	41,992	41,992
22	2022	14,900	17,117	9,717	215	0	0	41,949	41,949
23	2023	14,893	17,116	9,699	215	0	0	41,923	41,923
24	2024	14,885	17,111	9,666	215	0	0	41,877	41,877
25	2025	14,878	17,103	9,662	215	0	0	41,858	41,858
26	2026	14,870	17,096	9,662	215	0	0	41,844	41,844
27	2027	14,863	17,097	9,661	215	0	0	41,836	41,836
28	2028	14,855	17,107	9,657	215	0	0	41,834	41,834
29	2029	10,113	11,541	6,518	139	0	0	28,311	28,311

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Annual Electric Choice Sales
2008-2017 Historical; 2018-2029 Forecast

Case No.: U-18232
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Witness: M. B. Leuker
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	(a)	(b)	(c)	(d)	(e)	(f)
		Annual Sales - GWh				
Line No.	Year	Residential	Commercial	Industrial	Other	Total
1	Actual					
2	2008	0	1,194	263	0	1,458
3	2009	0	1,550	-73	0	1,477
4	2010	1	3,235	1,769	0	5,005
5	2011	1	3,403	2,042	0	5,445
6	2012	1	3,231	1,965	0	5,197
7	2013	1	3,116	2,083	0	5,200
8	2014	1	3,029	2,004	0	5,033
9	2015	1	3,000	1,898	0	4,899
10	2016	0	2,998	1,938	0	4,936
11	2017	0	2,696	2,123	0	4,820
12						
13	Temperature-Normalized (T-N)					
14	2016 T-N	0	2,956	1,935	0	4,892
15	2017 T-N	0	2,685	2,123	0	4,809
16						
17	Forecast					
18	2018	0	2,960	1,940	0	4,900
19	2019	0	2,960	1,940	0	4,900
20	2020	0	2,960	1,940	0	4,900
21	2021	0	2,960	1,940	0	4,900
22	2022	0	2,960	1,940	0	4,900
23	2023	0	2,960	1,940	0	4,900
24	2024	0	2,960	1,940	0	4,900
25	2025	0	2,960	1,940	0	4,900
26	2026	0	2,960	1,940	0	4,900
27	2027	0	2,960	1,940	0	4,900
28	2028	0	2,960	1,940	0	4,900
29	2029	0	1,991	1,306	0	3,297

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Summary of Economic Outlook
2008-2016 Historical; 2017-2029 Forecast

Case No.: U-18232
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Witness: M. B. Leuker
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Line No.	(a) Year	(b) Change in Real GDP (Percent)	(c) Change in U.S. CPI (Percent)	(d) Index of Industrial Production (2007 = 100)	(e) U.S. Car & Truck Production (Millions)	(f) Detroit Area Car & Truck Production (Millions)	(g) Detroit Area Steel Production (M Tons)	(h) Detroit Area Total Employment (Thousands)	(i) Detroit Area Housing Permits (Thousands)	(j) Detroit Area Total Households (Thousands)
1	2008 Historical	-0.3	3.8	97.0	8.5	1.5	5.3	2,176.4	3.1	1,955.2
2	2009	-2.8	-0.4	78.6	5.6	0.9	2.9	2,006.4	1.7	1,952.6
3	2010	2.5	1.6	86.9	7.6	1.1	6.1	2,003.4	3.7	1,920.9
4	2011	1.6	3.2	94.1	8.5	1.4	6.0	2,056.7	4.0	1,906.6
5	2012	2.2	2.1	100.0	10.1	1.8	6.0	2,110.3	4.9	1,922.5
6	2013	1.7	1.5	104.4	10.9	1.9	6.0	2,149.4	7.3	1,930.6
7	2014	2.4	1.6	110.9	11.4	1.7	5.6	2,184.8	7.1	1,932.3
8	2015	2.6	0.1	112.2	11.8	1.9	4.9	2,225.5	8.0	1,945.6
9	2016	1.6	1.3	114.1	11.9	1.7	5.6	2,269.3	8.6	1,951.1
10										
11	2017 Forecast	2.3	2.0	114.6	11.4	1.6	5.6	2,307.2	7.3	1,956.6
12	2018	2.7	1.6	117.5	11.3	1.4	5.6	2,328.4	7.2	1,966.1
13	2019	2.3	2.2	120.4	11.4	1.4	5.7	2,345.6	7.3	1,977.4
14	2020	2.1	2.8	123.1	11.6	1.5	5.5	2,359.7	7.4	1,991.4
15	2021	2.3	2.7	125.1	11.9	1.6	5.5	2,369.5	7.4	2,005.9
16	2022	2.1	2.6	126.3	11.9	1.6	5.4	2,379.2	7.2	2,016.1
17	2023	2.0	2.6	127.2	11.9	1.6	5.4	2,386.0	7.0	2,023.8
18	2024	1.9	2.6	128.0	11.9	1.6	5.4	2,390.0	6.7	2,029.8
19	2025	1.8	2.5	129.5	11.9	1.6	5.3	2,393.2	6.5	2,035.3
20	2026	1.8	2.5	131.8	11.9	1.6	5.3	2,397.6	6.4	2,042.1
21	2027	1.8	2.5	134.0	11.9	1.6	5.3	2,400.7	6.3	2,049.7
22	2028	1.8	2.4	136.2	12.0	1.6	5.2	2,403.3	6.2	2,055.7
23	2029	1.8	2.5	138.8	12.0	1.6	5.2	2,405.4	6.2	2,060.0

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Annual Customer Count
2009-2017 Historical; 2018-2029 Forecast

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Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
		Historical									Forecast	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	SERVICE AREA											
2												
3	RESIDENTIAL	1,932,360	1,922,824	1,922,812	1,925,966	1,935,140	1,943,926	1,953,780	1,966,675	1,978,285	1,981,791	1,993,185
4												
5	COMM SECONDARY	197,234	196,965	197,402	198,147	198,781	199,523	200,572	202,045	202,176	204,295	205,492
6	SECONDARY PUMPING	797	846	855	1,436	1,464	1,495	1,521	1,442	1,695	1,442	1,442
7	COMM PRIMARY	2,618	2,574	2,536	2,493	2,436	2,410	2,361	2,346	2,474	2,346	2,346
8	TOTAL COMMERCIAL	200,649	200,385	200,793	202,076	202,680	203,429	204,453	205,833	206,345	208,083	209,280
9												
10	INDUSTRIAL	1,019	948	941	931	922	896	842	852	886	845	845
11												
12	STREET LIGHTING	877	892	886	874	895	898	895	890	1,135	946	946
13	PUMPING	1,057	979	945	72	1	0	0	0	0	0	0
14	WHOLESALE	5	5	3	2	2	1	0	0	0	0	0
15	TOTAL OTHER CLASS	1,939	1,875	1,834	948	898	899	895	890	1,135	946	946
16												
17	TOTAL	2,135,967	2,126,032	2,126,381	2,129,922	2,139,640	2,149,150	2,159,971	2,174,250	2,186,651	2,191,665	2,204,256
18												
19	ELECTRIC CHOICE											
20												
21	RESIDENTIAL	16	71	67	58	53	47	44	40	37	0	0
22												
23	COMM SECONDARY	2,674	5,434	5,267	4,832	4,651	4,490	4,298	4,045	3,930	3,992	3,992
24	SECONDARY PUMPING	6	44	32	31	27	26	25	25	27	25	25
25	COMM PRIMARY	241	621	647	634	626	617	614	608	595	604	604
26	TOTAL COMMERCIAL	2,921	6,099	5,946	5,497	5,304	5,133	4,938	4,678	4,551	4,621	4,621
27												
28	INDUSTRIAL	24	110	122	121	119	117	116	115	121	115	115
29												
30	STREET LIGHTING	0	0	0	0	0	0	0	0	0	0	0
31	PUMPING	0	0	0	0	0	0	0	0	0	0	0
32	WHOLESALE	0	0	0	0	0	0	0	0	0	0	0
33	TOTAL OTHER CLASS	0	0	0	0	0	0	0	0	0	0	0
34												
35	TOTAL	2,961	6,280	6,136	5,676	5,476	5,297	5,097	4,833	4,710	4,736	4,736
36												
37	BUNDLED											
38												
39	RESIDENTIAL	1,932,344	1,922,753	1,922,745	1,925,908	1,935,087	1,943,880	1,953,736	1,966,635	1,978,247	1,981,791	1,993,185
40												
41	COMM SECONDARY	194,560	191,531	192,135	193,315	194,130	195,033	196,274	198,000	198,245	200,303	201,500
42	SECONDARY PUMPING	791	802	823	1,405	1,437	1,469	1,496	1,417	1,668	1,417	1,417
43	COMM PRIMARY	2,377	1,953	1,889	1,859	1,810	1,794	1,746	1,737	1,880	1,742	1,742
44	TOTAL COMMERCIAL	197,728	194,286	194,847	196,579	197,376	198,296	199,516	201,155	201,793	203,462	204,659
45												
46	INDUSTRIAL	995	838	819	810	803	778	727	737	765	730	730
47												
48	STREET LIGHTING	877	892	886	874	895	898	895	890	1,135	946	946
49	PUMPING	1,057	979	945	72	1	0	0	0	0	0	0
50	WHOLESALE	5	5	3	2	2	1	0	0	0	0	0
51	TOTAL OTHER CLASS	1,939	1,875	1,834	948	898	899	895	890	1,135	946	946
52												
53	TOTAL	2,133,006	2,119,752	2,120,245	2,124,246	2,134,163	2,143,853	2,154,874	2,169,417	2,181,941	2,186,929	2,199,520

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Annual Customer Count
2009-2017 Historical; 2018-2029 Forecast

Case No.: U-18232
Exhibit: A-24
Witness: M. B. Leuker
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Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
		Forecast									
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1	SERVICE AREA										
2											
3	RESIDENTIAL	2,007,320	2,021,987	2,032,230	2,039,968	2,046,034	2,051,590	2,058,441	2,066,118	2,072,139	2,076,520
4											
5	COMM SECONDARY	206,976	208,516	209,591	210,404	211,040	211,624	212,343	213,149	213,781	214,241
6	SECONDARY PUMPING	1,442	1,442	1,442	1,442	1,442	1,442	1,442	1,442	1,442	1,442
7	COMM PRIMARY	2,346	2,346	2,346	2,346	2,346	2,346	2,346	2,346	2,346	2,346
8	TOTAL COMMERCIAL	210,764	212,304	213,379	214,192	214,828	215,412	216,131	216,937	217,569	218,029
9											
10	INDUSTRIAL	845	845	845	845	845	845	845	845	845	845
11											
12	STREET LIGHTING	946	946	946	946	946	946	946	946	946	946
13	PUMPING	0	0	0	0	0	0	0	0	0	0
14	WHOLESALE	0	0	0	0	0	0	0	0	0	0
15	TOTAL OTHER CLASS	946	946	946	946	946	946	946	946	946	946
16											
17	TOTAL	2,219,874	2,236,082	2,247,400	2,255,950	2,262,653	2,268,793	2,276,364	2,284,847	2,291,500	2,296,340
18											
19	ELECTRIC CHOICE										
20											
21	RESIDENTIAL	0	0	0	0	0	0	0	0	0	0
22											
23	COMM SECONDARY	3,992	3,992	3,992	3,992	3,992	3,992	3,992	3,992	3,992	3,992
24	SECONDARY PUMPING	25	25	25	25	25	25	25	25	25	25
25	COMM PRIMARY	604	604	604	604	604	604	604	604	604	604
26	TOTAL COMMERCIAL	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621	4,621
27											
28	INDUSTRIAL	115	115	115	115	115	115	115	115	115	115
29											
30	STREET LIGHTING	0	0	0	0	0	0	0	0	0	0
31	PUMPING	0	0	0	0	0	0	0	0	0	0
32	WHOLESALE	0	0	0	0	0	0	0	0	0	0
33	TOTAL OTHER CLASS	0	0	0	0	0	0	0	0	0	0
34											
35	TOTAL	4,736	4,736	4,736	4,736	4,736	4,736	4,736	4,736	4,736	4,736
36											
37	BUNDLED										
38											
39	RESIDENTIAL	2,007,320	2,021,987	2,032,230	2,039,968	2,046,034	2,051,590	2,058,441	2,066,118	2,072,139	2,076,520
40											
41	COMM SECONDARY	202,984	204,524	205,599	206,412	207,048	207,632	208,351	209,157	209,789	210,249
42	SECONDARY PUMPING	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417
43	COMM PRIMARY	1,742	1,742	1,742	1,742	1,742	1,742	1,742	1,742	1,742	1,742
44	TOTAL COMMERCIAL	206,143	207,683	208,758	209,571	210,207	210,791	211,510	212,316	212,948	213,408
45											
46	INDUSTRIAL	730	730	730	730	730	730	730	730	730	730
47											
48	STREET LIGHTING	946	946	946	946	946	946	946	946	946	946
49	PUMPING	0	0	0	0	0	0	0	0	0	0
50	WHOLESALE	0	0	0	0	0	0	0	0	0	0
51	TOTAL OTHER CLASS	946	946	946	946	946	946	946	946	946	946
52											
53	TOTAL	2,215,138	2,231,346	2,242,664	2,251,214	2,257,917	2,264,057	2,271,628	2,280,111	2,286,764	2,291,604

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Tax Credits & Deferred Income Taxes
($ Millions, except where noted)

Case No.: U-18232
Exhibit: A-25
Witness: S. L. Wisniewski
Page: 1 of 2

Line No.	(a) Description		(b) As Filed 2016	(c) 2017	(d) 2018	(e) 2019	(f) 2020	(g) 2021	(h) 2022
1	**Deferred Tax Asset-PTC**								
2	Beginning Balance		30.9	61.3	97.3	134.7	149.6	165.9	187.7
3	Generated		30.4	36.0	37.4	45.9	62.4	83.7	89.9
4	Utilized		-	-	-	(31.0)	(46.0)	(62.0)	(95.0)
5	Ending Balance		61.31	97.35	134.72	149.58	165.94	187.67	182.60
6	Average Balance		46.1	79.3	116.0	142.1	157.8	176.8	185.1
7									
8	**Deferred Tax Liability - Plant**								
9	Beginning Balance		(206.4)	(247.2)	(183.7)	(209.5)	(233.0)	(257.3)	(311.8)
10	Book / Tax Timing Difference (Note 1)		(37.9)	(35.2)	(25.8)	(23.4)	(24.3)	(54.4)	(67.3)
11	Re-measurement Adjustment			98.7					
12	Ending Balance		(244.3)	(183.7)	(209.5)	(233.0)	(257.3)	(311.8)	(379.0)
13	Average Balance		(225.4)	(215.5)	(196.6)	(221.3)	(245.2)	(284.5)	(345.4)
14									
15	**Deferred Tax Asset - Reg. Liability**								
16	Beginning Balance		76.7	57.1	28.8	18.9	13.2	13.5	11.9
17	Reg Liability Activity		(19.6)	(13.6)	(9.9)	(5.7)	0.3	(1.6)	(5.4)
18	Re-measurement Adjustment			(14.7)					
19	Ending Balance		57.1	28.8	18.9	13.2	13.5	11.9	6.5
20	Average Balance		66.9	42.9	23.9	16.1	13.3	12.7	9.2
21									
22	**Deferred Tax Asset - Renewable Energy Credits**								
23	Beginning Balance		(6.1)	(1.8)	1.0	1.0	1.0	1.0	1.0
24	Renewable Energy Credit Activity		1.4	3.4					
25	Re-measurement Adjustment			(0.5)					
26	Ending Balance		(4.7)	1.0	1.0	1.0	1.0	1.0	1.0
27	Average Balance		(5.4)	(0.4)	1.0	1.0	1.0	1.0	1.0
28	**New Tax Regulatory Liability - TCJA of 2017**								
29	Beginning Balance		-		(83.4)	(83.4)	(79.8)	(76.2)	(72.6)
30	Amortization		-			3.6	3.6	3.6	3.6
31	Re-measurement Adjustment	1/	-	(83.4)					
32	Ending Balance		-	(83.4)	(83.4)	(79.8)	(76.2)	(72.6)	(68.9)
33	Average Balance		-	(41.7)	(83.4)	(81.6)	(78.0)	(74.4)	(70.7)
34									
35									
36	**Total Average Deferred Taxes - Rate Base**		(110.9)	(135.3)	(138.1)	(142.6)	(150.0)	(167.3)	(219.7)
37									
38	**Note 1**								
39	Tax Depreciation		131.7	122.2	151.3	146.0	158.8	297.0	365.2
40	Book Depreciation		40.0	44.1	51.5	57.5	65.7	86.6	105.1
41	Difference		(91.7)	(78.1)	(99.8)	(88.5)	(93.1)	(210.5)	(260.1)
42	Effective Tax Rate		39.00%	39.00%	25.86%	25.86%	25.86%	25.86%	25.86%
43	Deferred Tax (Expense) / Income		(35.8)	(30.5)	(25.8)	(22.9)	(24.1)	(54.4)	(67.3)
44	Deferred Taxes on ITC Solar Basis Difference			(4.8)	(0.0)	(0.6)	(0.3)	-	-
45	Deferred Tax Activity - Plant			(35.2)	(25.8)	(23.4)	(24.3)	(54.4)	(67.3)
				0.00	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)

1/ Deferred Tax Asset & Liability balances at 12/31/2017 was re-measured to reflect the impact of the 2017 Tax Cut and Job Act (TCJA) as follows:

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Tax Credits & Deferred Income Taxes
($ Millions, except where noted)

Case No.: U-18232
Exhibit: A-25
Witness: S. L. Wisniewski
Page: 2 of 2

	(a)		(i)	(j)	(k)	(l)	(m)	(n)	(o)
Line No.	**Description**		**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**
1	**Deferred Tax Asset-PTC**								
2	Beginning Balance		182.6	151.6	95.4	28.2	-	-	-
3	Generated		90.0	77.8	75.9	75.9	71.3	72.1	41.4
4	Utilized		(121.0)	(134.0)	(143.0)	(104.1)	(71.3)	(72.1)	(41.4)
5	Ending Balance		151.59	95.37	28.24	-	-	-	-
6	Average Balance		167.1	123.5	61.8	14.1	-	-	-
7									
8	**Deferred Tax Liability - Plant**								
9	Beginning Balance		(379.0)	(423.8)	(447.7)	(461.0)	(459.7)	(446.1)	(428.0)
10	Book / Tax Timing Difference (Note 1)		(44.8)	(23.9)	(13.3)	1.3	13.6	18.0	9.5
11	Re-measurement Adjustment								
12	Ending Balance		(423.8)	(447.7)	(461.0)	(459.7)	(446.1)	(428.0)	(418.6)
13	Average Balance		(401.4)	(435.7)	(454.3)	(460.3)	(452.9)	(437.1)	(423.3)
14									
15	**Deferred Tax Asset - Reg. Liability**								
16	Beginning Balance		6.5	4.9	1.9	1.7	4.6	7.7	12.9
17	Reg Liability Activity		(1.6)	(3.0)	(0.2)	2.9	3.2	5.2	1.9
18	Re-measurement Adjustment								
19	Ending Balance		4.9	1.9	1.7	4.6	7.7	12.9	14.8
20	Average Balance		5.7	3.4	1.8	3.1	6.1	10.3	13.8
21									
22	**Deferred Tax Asset - Renewable Energy Credits**								
23	Beginning Balance		1.0	1.0	1.0	1.0	1.0	1.0	1.0
24	Renewable Energy Credit Activity								
25	Re-measurement Adjustment								
26	Ending Balance		1.0	1.0	1.0	1.0	1.0	1.0	1.0
27	Average Balance		1.0	1.0	1.0	1.0	1.0	1.0	1.0
28	**New Tax Regulatory Liability - TCJA of 2017**								
29	Beginning Balance		(68.9)	(65.3)	(61.7)	(58.0)	(54.4)	(50.8)	(47.2)
30	Amortization		3.6	3.6	3.6	3.6	3.6	3.6	3.6
31	Re-measurement Adjustment	1/							
32	Ending Balance		(65.3)	(61.7)	(58.0)	(54.4)	(50.8)	(47.2)	(43.5)
33	Average Balance		(67.1)	(63.5)	(59.9)	(56.2)	(52.6)	(49.0)	(45.3)
34									
35									
36	**Total Average Deferred Taxes - Rate Base**		(293.7)	(370.3)	(448.5)	(497.2)	(497.2)	(473.6)	(452.7)
37									
38	**Note 1**								
39	Tax Depreciation		284.8	206.3	166.8	111.6	65.3	49.4	43.4
40	Book Depreciation		111.8	114.0	115.3	116.7	117.9	119.1	80.0
41	Difference		(173.1)	(92.3)	(51.5)	5.0	52.6	69.7	36.5
42	Effective Tax Rate		25.86%	25.86%	25.86%	25.86%	25.86%	25.86%	25.86%
43	Deferred Tax (Expense) / Income		(44.8)	(23.9)	(13.3)	1.3	13.6	18.0	9.5
44	Deferred Taxes on ITC Solar Basis Difference		-	-	-	-	-	-	-
45	Deferred Tax Activity - Plant		(44.8)	(23.9)	(13.3)	1.3	13.6	18.0	9.5
			(0.00)	(0.00)	(0.00)	0.00	0.00	0.00	0.00

1/ Deferred Tax Asset & Liability balances at 12/31/2017 was re-measured to reflect the impact of the 2017 Tax Cut and Job Act (TCJA) as follows:

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Actual and Forecast Meter Counts by Class

Case No.: U-18232
Exhibit: A-26
Witness: P. W. Dennis
Page: 1 of 1

(a)	(b)	(c)	(d)
	BUNDLED CUSTOMER METERS BY CLASS		
LINE NO.	**YEAR**	**RESIDENTIAL**	**COMMERCIAL SECONDARY**	**COMMERCIAL / INDUSTRIAL PRIMARY**
1	2016	1,966,635	198,890	2,970
2	2017	1,978,247	199,381	3,174
3	2018	1,981,791	201,249	2,966
4	2019	1,993,185	202,446	2,966
5	2020	2,007,320	203,930	2,966
6	2021	2,021,987	205,470	2,966
7	2022	2,032,230	206,545	2,966
8	2023	2,039,968	207,358	2,966
9	2024	2,046,034	207,994	2,966
10	2025	2,051,590	208,578	2,966
11	2026	2,058,441	209,297	2,966
12	2027	2,066,118	210,103	2,966
13	2028	2,072,139	210,735	2,966
14	2029	2,076,520	211,195	2,966

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Calculation of Renewable Energy Refund Associated with U-13808

Case No.: U-18232
Exhibit: A-27
Witness: P. W. Dennis
Page: 1 of 6

Line No.	(a) Customer Class	(b) 2019 Forecasted Meter Counts 1/	(c) Percentage	(d) Refund per Customer Class	(e) 2019 Forecasted Customer Count 2/	(f) One Month Refund per Customer
1	Residential	1,993,185	90.4%	($1,305,133.92)	1,993,185	($0.65)
2						
3	Commercial Secondary	206,934	9.4%	($135,499.77)	206,934	($0.65)
4						
5	Commercial and Industrial					
6	Primary	3,829	0.2%	($2,507.22)	3,191	($0.79)
7						
8	Total	2,203,948	100.0%	($1,443,140.91)	2,203,310	
9	**Refund Amount per Exhibit A-27, page 6**			($1,443,140.91)		

1/ Column (e) times ratio of meters per customer class (Exhibit A-26)
2/ See Exhibit A-24 (Service Area)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Calculation of Renewable Energy Refund Associated with U-13808

Case No.: U-18232
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Line No.	(a) Month	(b) Beginning Balance	(c) Ending Balance	(d) Average Balance	(e) Monthly Interest Rate	(f) Carrying Charges	(g) Carrying Charges Ending Balance	(h) Monthly Accrual
	For 2005							
1	January	$0.00	($9,769.42)	($4,884.71)	0.2691%	($13.14)	($13.14)	($9,769.42)
2	February	(9,769.42)	(19,840.57)	(14,805.00)	0.2200%	(32.57)	(45.71)	(10,071.15)
3	March	(19,840.57)	(30,608.43)	(25,224.50)	0.2396%	(60.44)	(106.15)	(10,767.86)
4	April	(30,608.43)	(40,747.17)	(35,677.80)	0.2539%	(90.59)	(196.74)	(10,138.74)
5	May	(40,747.17)	(51,023.98)	(45,885.58)	0.2740%	(125.73)	(322.47)	(10,276.81)
6	June	(51,023.98)	(61,013.60)	(56,018.79)	0.2828%	(158.42)	(480.89)	(9,989.62)
7	July	(61,013.60)	(70,450.12)	(65,731.86)	0.2931%	(192.66)	(673.55)	(9,436.52)
8	August	(70,450.12)	(81,055.43)	(75,752.78)	0.3131%	(237.18)	(910.73)	(10,605.31)
9	September	(81,055.43)	(91,179.76)	(86,117.60)	0.3274%	(281.95)	(1,192.68)	(10,124.33)
10	October	(91,179.76)	(101,644.19)	(96,411.98)	0.3634%	(350.36)	(1,543.04)	(10,464.43)
11	November	(101,644.19)	(111,711.20)	(106,677.70)	0.3699%	(394.60)	(1,937.64)	(10,067.01)
12	December	(111,711.20)	(120,950.36)	(116,330.78)	0.3635%	(422.86)	(2,360.50)	(9,239.16)
13	Totals					(2,360.50)		(120,950.36)
	For 2006							
14	January	($123,310.86)	($245,992.73)	($184,651.80)	0.3899%	($719.96)	($719.96)	($122,681.87)
15	February	(245,992.73)	(367,572.22)	(306,782.48)	0.4018%	(1,232.65)	(1,952.61)	(121,579.49)
16	March	(367,572.22)	(508,039.69)	(437,805.96)	0.4087%	(1,789.31)	(3,741.92)	(140,467.47)
17	April	(508,039.69)	(627,343.12)	(567,691.41)	0.4255%	(2,415.53)	(6,157.45)	(119,303.43)
18	May	(627,343.12)	(757,927.64)	(692,635.38)	0.4446%	(3,079.46)	(9,236.91)	(130,584.52)
19	June	(757,927.64)	(887,617.38)	(822,772.51)	0.4608%	(3,791.34)	(13,028.25)	(129,689.74)
20	July	(887,617.38)	(1,006,350.72)	(946,984.05)	0.4737%	(4,485.86)	(17,514.11)	(118,733.34)
21	August	(1,006,350.72)	(1,146,456.60)	(1,076,403.66)	0.4812%	(5,179.65)	(22,693.76)	(140,105.88)
22	September	(1,146,456.60)	(1,164,866.26)	(1,155,661.43)	0.4817%	(5,566.82)	(28,260.58)	(18,409.66)
23	October	(1,164,866.26)	(1,165,390.49)	(1,165,128.38)	0.4820%	(5,615.92)	(33,876.50)	(524.23)
24	November	(1,165,390.49)	(1,165,719.82)	(1,165,555.16)	0.4893%	(5,703.06)	(39,579.56)	(329.33)
25	December	(1,165,719.82)	(1,165,939.89)	(1,165,829.86)	0.4993%	(5,820.99)	(45,400.55)	(220.07)
26	Totals					(45,400.55)		(1,042,629.03)
	For 2007							
27	January	($1,211,340.44)	($1,211,517.49)	($1,211,428.97)	0.4685%	($5,675.54)	($5,675.54)	($177.05)
28	February	(1,211,517.49)	(1,211,718.01)	(1,211,617.75)	0.4657%	(5,642.50)	(11,318.04)	(200.52)
29	March	(1,211,718.01)	(1,211,955.95)	(1,211,836.98)	0.4696%	(5,690.79)	(17,008.83)	(237.94)
30	April	(1,211,955.95)	(1,212,117.42)	(1,212,036.69)	0.4470%	(5,417.80)	(22,426.63)	(161.47)
31	May	(1,212,117.42)	(1,212,298.69)	(1,212,208.06)	0.4512%	(5,469.48)	(27,896.11)	(181.27)
32	June	(1,212,298.69)	(1,212,425.33)	(1,212,362.01)	0.4944%	(5,993.92)	(33,890.03)	(126.64)
33	July	(1,212,425.33)	(1,212,539.01)	(1,212,482.17)	0.4897%	(5,937.53)	(39,827.56)	(113.68)
34	August	(1,212,539.01)	(1,212,678.07)	(1,212,608.54)	0.4971%	(6,027.88)	(45,855.44)	(139.06)
35	September	(1,212,678.07)	(1,212,781.24)	(1,212,729.66)	0.5042%	(6,114.58)	(51,970.02)	(103.17)
36	October	(1,212,781.24)	(1,212,901.62)	(1,212,841.43)	0.5074%	(6,153.96)	(58,123.98)	(120.38)
37	November	(1,212,901.62)	(1,213,011.20)	(1,212,956.41)	0.5217%	(6,327.99)	(64,451.97)	(109.58)
38	December	(1,213,011.20)	(1,213,079.26)	(1,213,045.23)	0.5219%	(6,330.88)	(70,782.85)	(68.06)
39	Totals					(70,782.85)		(1,738.82)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
Calculation of Renewable Energy Refund Associated with U-13808

Case No.: U-18232
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Witness: P.W. Dennis
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Line No.	(a) Month	(b) Beginning Balance	(c) Ending Balance	(d) Average Balance	(e) Monthly Interest Rate	(f) Carrying Charges	(g) Carrying Charges Ending Balance	(h) Monthly Accrual
	For 2008							
1	January	($1,283,862.11)	($1,283,929.86)	($1,283,895.99)	0.4028%	($5,171.53)	($5,171.53)	($67.75)
2	February	(1,283,929.86)	(1,283,980.82)	(1,283,955.34)	0.3802%	(4,881.60)	(10,053.13)	(50.96)
3	March	(1,283,980.82)	(1,284,048.90)	(1,284,014.86)	0.3651%	(4,687.94)	(14,741.07)	(68.08)
4	April	(1,284,048.90)	(1,284,106.54)	(1,284,077.72)	0.3556%	(4,566.18)	(19,307.25)	(57.64)
5	May	(1,284,106.54)	(1,284,154.05)	(1,284,130.30)	0.3613%	(4,639.56)	(23,946.81)	(47.51)
6	June	(1,284,154.05)	(1,284,198.73)	(1,284,176.39)	0.3613%	(4,639.73)	(28,586.54)	(44.68)
7	July	(1,284,198.73)	(1,284,240.09)	(1,284,219.41)	0.3743%	(4,806.83)	(33,393.37)	(41.36)
8	August	(1,284,240.09)	(1,284,271.47)	(1,284,255.78)	0.3509%	(4,506.45)	(37,899.82)	(31.38)
9	September	(1,284,271.47)	(1,284,313.48)	(1,284,292.48)	0.3334%	(4,281.83)	(42,181.65)	(42.01)
10	October	(1,284,313.48)	(1,284,353.63)	(1,284,333.56)	0.3449%	(4,429.67)	(46,611.32)	(40.15)
11	November	(1,284,353.63)	(1,284,385.69)	(1,284,369.66)	0.3567%	(4,581.35)	(51,192.67)	(32.06)
12	December	(1,284,385.69)	(1,284,404.87)	(1,284,395.28)	0.3287%	(4,221.81)	(55,414.48)	(19.18)
13	Totals					(55,414.48)		(542.76)
	For 2009							
14	January	($1,339,819.35)	($1,339,837.26)	($1,339,828.31)	0.1226%	($1,642.63)	($1,642.63)	($17.91)
15	February	(1,339,837.26)	(1,339,851.40)	(1,339,844.33)	0.1130%	(1,514.02)	(3,156.65)	(14.14)
16	March	(1,339,851.40)	(1,339,870.29)	(1,339,860.85)	0.1129%	(1,512.70)	(4,669.35)	(18.89)
17	April	(1,339,870.29)	(1,339,881.15)	(1,339,875.72)	0.1081%	(1,448.41)	(6,117.76)	(10.86)
18	May	(1,339,881.15)	(1,339,895.87)	(1,339,888.51)	0.1060%	(1,420.28)	(7,538.04)	(14.72)
19	June	(1,339,895.87)	(1,339,916.72)	(1,339,906.30)	0.1448%	(1,940.18)	(9,478.22)	(20.85)
20	July	(1,339,916.72)	(1,339,934.11)	(1,339,925.42)	0.1349%	(1,807.56)	(11,285.78)	(17.39)
21	August	(1,339,934.11)	(1,339,945.29)	(1,339,939.70)	0.1229%	(1,646.79)	(12,932.57)	(11.18)
22	September	(1,339,945.29)	(1,339,963.24)	(1,339,954.27)	0.0932%	(1,248.84)	(14,181.41)	(17.95)
23	October	(1,339,963.24)	(1,339,976.97)	(1,339,970.11)	0.0724%	(970.14)	(15,151.55)	(13.73)
24	November	(1,339,976.97)	(1,339,985.06)	(1,339,981.02)	0.0693%	(928.61)	(16,080.16)	(8.09)
25	December	(1,339,985.06)	(1,339,998.72)	(1,339,991.89)	0.0650%	(870.99)	(16,951.15)	(13.66)
26	Totals					(16,951.15)		(179.37)
	For 2010							
27	January	($1,356,949.87)	($1,356,959.30)	($1,356,954.59)	0.0541%	($734.11)	($734.11)	($9.43)
28	February	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0319%	(432.87)	(1,166.98)	0.00
29	March	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0275%	(373.16)	(1,540.14)	0.00
30	April	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0266%	(360.95)	(1,901.09)	0.00
31	May	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0326%	(442.37)	(2,343.46)	0.00
32	June	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0325%	(441.01)	(2,784.47)	0.00
33	July	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0409%	(554.54)	(3,339.01)	0.00
34	August	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0325%	(440.90)	(3,779.91)	0.00
35	September	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0292%	(395.78)	(4,175.69)	0.00
36	October	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0307%	(416.70)	(4,592.39)	0.00
37	November	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0289%	(391.94)	(4,984.33)	0.00
38	December	(1,356,959.30)	(1,356,959.30)	(1,356,959.30)	0.0304%	(412.18)	(5,396.51)	0.00
39	Totals					(5,396.51)		(9.43)

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
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Line No.	(a) Month	(b) Beginning Balance	(c) Ending Balance	(d) Average Balance	(e) Monthly Interest Rate	(f) Carrying Charges	(g) Carrying Charges Ending Balance	(h) Monthly Accrual
	For 2011							
1	January	($1,362,355.81)	($1,362,355.81)	($1,362,355.81)	0.0300%	($408.14)	($408.14)	$0.00
2	February	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0271%	(368.52)	(776.66)	0.00
3	March	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0292%	(397.35)	(1,174.01)	0.00
4	April	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0284%	(386.40)	(1,560.41)	0.00
5	May	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0277%	(376.86)	(1,937.27)	0.00
6	June	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0269%	(366.01)	(2,303.28)	0.00
7	July	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0290%	(395.00)	(2,698.28)	0.00
8	August	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0380%	(517.81)	(3,216.09)	0.00
9	September	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0315%	(429.57)	(3,645.66)	0.00
10	October	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0303%	(412.85)	(4,058.51)	0.00
11	November	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0289%	(393.47)	(4,451.98)	0.00
12	December	(1,362,355.81)	(1,362,355.81)	(1,362,355.81)	0.0297%	(405.22)	(4,857.20)	0.00
13	Totals					(4,857.20)		0.00
	For 2012							
14	January	($1,367,213.01)	($1,367,213.01)	($1,367,213.01)	0.0299%	($408.20)	($408.20)	$0.00
15	February	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0302%	(412.44)	(820.64)	0.00
16	March	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0336%	(459.76)	(1,280.40)	0.00
17	April	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0364%	(496.98)	(1,777.38)	0.00
18	May	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0357%	(488.45)	(2,265.83)	0.00
19	June	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0348%	(475.26)	(2,741.09)	0.00
20	July	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0326%	(445.73)	(3,186.82)	0.00
21	August	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0336%	(459.15)	(3,645.97)	0.00
22	September	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0345%	(471.37)	(4,117.34)	0.00
23	October	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0338%	(462.71)	(4,580.05)	0.00
24	November	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0350%	(478.56)	(5,058.61)	0.00
25	December	(1,367,213.01)	(1,367,213.01)	(1,367,213.01)	0.0317%	(433.29)	(5,491.90)	0.00
26	Totals					(5,491.90)		0.00
	For 2013							
27	January	($1,372,704.91)	($1,372,704.91)	($1,372,704.91)	0.3900%	($5,353.55)	($5,353.55)	$0.00
28	February	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.3000%	(4,118.11)	(9,471.66)	0.00
29	March	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.3100%	(4,255.39)	(13,727.05)	0.00
30	April	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2900%	(3,980.84)	(17,707.89)	0.00
31	May	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2600%	(3,569.03)	(21,276.92)	0.00
32	June	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2700%	(3,706.30)	(24,983.22)	0.00
33	July	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2900%	(3,980.84)	(28,964.06)	0.00
34	August	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2700%	(3,706.30)	(32,670.36)	0.00
35	September	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2342%	(3,215.29)	(35,885.65)	0.00
36	October	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.3598%	(4,938.58)	(40,824.23)	0.00
37	November	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2300%	(3,157.22)	(43,981.45)	0.00
38	December	(1,372,704.91)	(1,372,704.91)	(1,372,704.91)	0.2067%	(2,836.97)	(46,818.42)	0.00
39	Totals					(46,818.42)		0.00

Michigan Public Service Commission
DTE Electric Company
2016 PA 342 Renewable Energy 2018 Amended Plan
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Line No.	(a) Month	(b) Beginning Balance	(c) Ending Balance	(d) Average Balance	(e) Monthly Interest Rate	(f) Carrying Charges	(g) Carrying Charges Ending Balance	(h) Monthly Accrual
	For 2014							
1	January	($1,364,070.66)	($1,364,070.66)	($1,364,070.66)	0.1981%	($2,702.16)	($2,702.16)	$0.00
2	February	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2011%	(2,743.30)	(5,445.46)	0.00
3	March	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.1955%	(2,666.23)	(8,111.69)	0.00
4	April	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.1893%	(2,582.81)	(10,694.50)	0.00
5	May	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2044%	(2,788.49)	(13,482.99)	0.00
6	June	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.1881%	(2,565.88)	(16,048.87)	0.00
7	July	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.1891%	(2,579.64)	(18,628.51)	0.00
8	August	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2042%	(2,785.65)	(21,414.16)	0.00
9	September	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2294%	(3,128.64)	(24,542.80)	0.00
10	October	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2571%	(3,506.60)	(28,049.40)	0.00
11	November	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.2736%	(3,732.41)	(31,781.81)	0.00
12	December	(1,364,070.66)	(1,364,070.66)	(1,364,070.66)	0.3204%	(4,370.58)	(36,152.39)	0.00
13	Totals					(36,152.39)		0.00
	For 2015							
14	January	($1,400,223.05)	($1,400,223.05)	($1,400,223.05)	0.0334%	($468.01)	($468.01)	$0.00
15	February	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0301%	(422.02)	(890.03)	0.00
16	March	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0322%	(451.02)	(1,341.05)	0.00
17	April	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0314%	(439.84)	(1,780.89)	0.00
18	May	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0334%	(467.91)	(2,248.80)	0.00
19	June	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0317%	(443.39)	(2,692.19)	0.00
20	July	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0279%	(390.50)	(3,082.69)	0.00
21	August	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0332%	(464.21)	(3,546.90)	0.00
22	September	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0271%	(380.04)	(3,926.94)	0.00
23	October	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0282%	(395.45)	(4,322.39)	0.00
24	November	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0272%	(381.35)	(4,703.74)	0.00
25	December	(1,400,223.05)	(1,400,223.05)	(1,400,223.05)	0.0558%	(781.23)	(5,484.97)	0.00
26	Totals					(5,484.97)		0.00
	For 2016							
27	January	($1,405,708.02)	($1,405,708.02)	($1,405,708.02)	0.0557%	($783.66)	($783.66)	$0.00
28	February	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0507%	(712.50)	(1,496.16)	0.00
29	March	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0524%	(736.34)	(2,232.50)	0.00
30	April	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0497%	(698.63)	(2,931.13)	0.00
31	May	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0521%	(732.20)	(3,663.33)	0.00
32	June	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0539%	(758.23)	(4,421.56)	0.00
33	July	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0496%	(696.83)	(5,118.39)	0.00
34	August	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0479%	(673.35)	(5,791.74)	0.00
35	September	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0480%	(674.74)	(6,466.48)	0.00
36	October	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0539%	(757.33)	(7,223.81)	0.00
37	November	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0547%	(768.45)	(7,992.26)	0.00
38	December	(1,405,708.02)	(1,405,708.02)	(1,405,708.02)	0.0718%	(1,009.31)	(9,001.57)	0.00
39	Totals					(9,001.57)		0.00

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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Month	**Beginning Balance**	**Ending Balance**	**Average Balance**	**Monthly Interest Rate**	**Carrying Charges**	**Ending Balance**	**Monthly Accrual**
	For 2017							
1	January	($1,414,709.59)	($1,414,709.59)	($1,414,709.59)	0.0684%	($967.63)	($967.63)	$0.00
2	February	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.0702%	(992.67)	(1,960.30)	0.00
3	March	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.0773%	(1,093.93)	(3,054.23)	0.00
4	April	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.0899%	(1,271.78)	(4,326.01)	0.00
5	May	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.0925%	(1,309.08)	(5,635.09)	0.00
6	June	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.0958%	(1,355.73)	(6,990.82)	0.00
7	July	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1041%	(1,472.62)	(8,463.44)	0.00
8	August	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1104%	(1,561.92)	(10,025.36)	0.00
9	September	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1085%	(1,534.50)	(11,559.86)	0.00
10	October	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1117%	(1,579.64)	(13,139.50)	0.00
11	November	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1103%	(1,560.32)	(14,699.82)	0.00
12	December	(1,414,709.59)	(1,414,709.59)	(1,414,709.59)	0.1206%	(1,706.56)	(16,406.38)	0.00
13	Totals					(16,406.38)		0.00
	For 2018							
14	January	($1,431,115.97)	($1,431,115.97)	($1,431,115.97)	0.0684%	($978.85)	($978.85)	$0.00
15	February	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(1,983.04)	0.00
16	March est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(2,987.23)	0.00
17	April est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(3,991.42)	0.00
18	May est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(4,995.61)	0.00
19	June est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(5,999.80)	0.00
20	July est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(7,003.99)	0.00
21	August est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(8,008.18)	0.00
22	September est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(9,012.37)	0.00
23	October est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(10,016.56)	0.00
24	November est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(11,020.75)	0.00
25	December est.	(1,431,115.97)	(1,431,115.97)	(1,431,115.97)	0.0702%	(1,004.19)	(12,024.94)	0.00
26	Totals					(12,024.94)		0.00
27	Grand Total		**($1,443,140.91)**					

M.P.S.C. No. 1 - Electric
DTE Electric Company
(Implement REP Refund)

Twenty-Fourth Revised Sheet No. C-69.00
Cancels Twenty-Third Revised Sheet No. C-69.00

(Continued from Sheet No. C-68.00)

C9 SURCHARGES AND CREDITS APPLICABLE TO DELIVERY SERVICE (Contd.)

C9.7.7 HOLD FOR FUTURE USE

C9.7.8 HOLD FOR FUTURE USE

C9.7.9 Low Income Energy Assistance Fund (LIEAF) Factor

On July 1, 2013, Public Act 95 of 2013 was signed into law, creating the Low Income Energy Assistance Fund (LIEAF). Money from the LIEAF will be distributed by the Department of Human Services as provided in the Michigan Energy Assistance Act, 2012 PA 615.

The Low Income Energy Assistance Fund (LIEAF) Factor is a monthly per meter charge for all customers receiving retail distribution service from a participating Michigan electric utility. DTE Electric Company is participating, and the LIEAF Factor effective beginning with the September 2017 billing month is $0.93. For residential customers, the LIEAF Factor will only apply to one meter per site.

C9.7.10 HOLD FOR FUTURE USE

C9.7.11 U-18014 Self- Implementation Refund (U-18014 SIR)

On September 15, 2017, the MPSC issued an Order in Case No. U-18344 approving the U-18014 Self-Implementation Refund (U-18014 SIR). This refund is a return of a portion of the revenue collected through the U-18014 Self- Implementation Surcharge (from August 1, 2016 through February 7, 2017) that exceeded the revenue increase approved by the MPSC on January 31, 2017 in Case No. U-18014, and the associated interest. The U-18014 SIR originally applied to bills rendered in the October, November and December 2017 billing cycles. To address the residual balance, a credit or surcharge will be applied to the rate schedules in section C9.8 in the April 2018 billing cycle. These factors apply on a per customer basis.

C9.7.12 TRANSITIONAL RECOVERY MECHANISM (TRM)

On October 25, 2017, the MPSC issued an Order in Case No. U-18251 authorizing the implementation of the Transitional Recovery Mechanism (TRM). This case is the annual reconciliation of the incremental revenues and costs associated with attaching former City of Detroit Public Lighting Department customers to DTE Electric's distribution system. The TRM surcharge of $0.001356 per kWh will be effective on a bills rendered basis for November 2017 through April 2018.

C9.7.13 U-13808 Renewable Energy Refund (REP Refund)

On _____, 2018, the MPSC issued an Order in Case No. U-18232, authorizing the Company to issue a refund of amounts previously collected through a per meter charge to promote renewable energy resources. The refund will be made through a one month, per customer credit effective in the January 2019 billing month. Residential and commercial secondary customers will each receive a credit of ($0.65), commercial and industrial primary customers will each receive a credit of ($0.79).

Issued March 19, 2018
D. M. Stanczak
Vice President
Regulatory Affairs

Detroit, Michigan

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dated _____, 2018
in Case No. U-18232

M.P.S.C. No. 1 - Electric
DTE Electric Company
(Implement REP Refund)

Fortieth Revised Sheet No. C-70.00
Cancels Thirty-Ninth Revised Sheet No. C-70.00

(Continued from Sheet No. C-69.00)

C9 SURCHARGES AND CREDITS APPLICABLE TO DELIVERY SERVICE: (Contd.)

C9.8 Summary of Surcharges and Credits: Summary of surcharges and credits, pursuant to sub-rules C9.1, C9.2, C9.6, C9.7.9, C9.7.10, C9.7.11, C9.7.12 and C9.7.13. Cents per kilowatthour or percent of base bill, unless otherwise noted.

	NS ¢/kWh	EWRS ¢/kWh	TRM ¢/kWh	U-18255 IS ¢/kWh	Total Delivery Surcharges ¢/kWh	LIEAF Factor $/Billing Meter	U-13808 REP Refund $/Customer
Residential							
D1 Residential	0.0728	0.3396	0.1356	0.4105	0.9585¢	$0.93	*$(0.65)*
D1.1 Int. Space Conditioning	0.0728	0.3396	0.1356	0.3509	0.8989¢	N/A	*N/A*
D1.2 Time of Day	0.0728	0.3396	0.1356	0.3275	0.8755¢	$0.93	*$(0.65)*
D1.6 Special Low Income Pilot	0.0728	0.3396	0.1356	0.4105	0.9585¢	$0.93	*$(0.65)*
D1.7 Geothermal Time-of-Day	0.0728	0.3396	0.1356	0.2494	0.7974¢	N/A	*N/A*
D1.8 Dynamic Peak Pricing	0.0728	0.3396	0.1356	0.3720	0.9200¢	$0.93	*$(0.65)*
D1.9 Electric Vehicle	0.0728	0.3396	0.1356	0.3865	0.9345¢	N/A	*N/A*
D2 Space Heating	0.0728	0.3396	0.1356	0.3594	0.9074¢	$0.93	*$(0.65)*
D5 Wtr Htg	0.0728	0.3396	0.1356	0.2999	0.8479¢	N/A	*N/A*
D9 Outdoor Lighting	0.0728	0.3396	0.1356	0.5040	1.0520¢	N/A	*N/A*
Commercial							
D1.1 Int. Space Conditioning	0.0728	See C9.6	0.1356	0.2706		$0.93	*N/A*
D1.7 Geothermal Time –of- day	0.0728	See C9.6	0.1356	0.1741		$0.93	*N/A*
D1.8 Dynamic Peak Pricing	0.0728	See C9.6	0.1356	0.3146		$0.93	*$(0.65)*
D1.9 Electric Vehicle	0.0728	See C9.6	0.1356	0.3865		$0.93	*N/A*
D3 General Service	0.0728	See C9.6	0.1356	0.3252		$0.93	*$(0.65)*
D3.1 Unmetered	0.0728	See C9.6	0.1356	0.2819		N/A	*$(0.65)*
D3.2 Educ. Inst.	0.0728	See C9.6	0.1356	0.2307		$0.93	*$(0.65)*
D3.3 Interruptible	0.0728	See C9.6	0.1356	0.2670		$0.93	*$(0.65)*
D4 Large General Service	0.0728	See C9.6	0.1356	0.2691		$0.93	*$(0.65)*
D5 Wtr Htg	0.0728	See C9.6	0.1356	0.1993		$0.93	*N/A*
D9 Outdoor Lighting	0.0728	See C9.6	0.1356	0.5040		$0.93	*N/A*
R3 Standby Secondary	0.0728	See C9.6	0.1356	0.2214		$0.93	*N/A*
R7 Greenhouse Lighting	0.0728	See C9.6	0.1356	0.1862		$0.93	*N/A*
R8 Space Conditioning	0.0728	See C9.6	0.1356	0.3049		$0.93	*N/A*
Industrial							
D6.2 Educ. Inst.	0.0728	See C9.6	0.1356	0.2178		$0.93	*$(0.79)*
D8 Interruptible Primary	0.0728	See C9.6	0.1356	0.1816		$0.93	*$(0.79)*
D10 Schools	0.0728	See C9.6	0.1356	0.2839		$0.93	*$(0.79)*
D11 Primary Supply	0.0728	See C9.6	0.1356	0.1892		$0.93	*$(0.79)*
R1.1 Metal Melting	0.0728	See C9.6	0.1356	0.1773		$0.93	*N/A*
R1.2 Electric Process Heating	0.0728	See C9.6	0.1356	0.1864		$0.93	*N/A*
R3 Standby Primary	0.0728	See C9.6	0.1356	0.2214		$0.93	*N/A*
R10 Interruptible Supply	0.0728	See C9.6	0.1356	0.1422		$0.93	*N/A*

(Continued on Sheet No. C-71.00)

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D. M. Stanczak
Vice President
Regulatory Affairs

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M.P.S.C. No. 1 - Electric
DTE Electric Company
(Implement REP Refund)

Fortieth Revised Sheet No. C-71.00
Cancels Thirty-Ninth Revised Sheet No. C-71.00

(Continued from Sheet No. C-70.00)

C9 SURCHARGES AND CREDITS APPLICABLE TO DELIVERY SERVICE: (Contd.)

C9.8 Summary of Surcharges and Credits (Contd.)**:**

	NS ¢/kWh	EWRS ¢/kWh	TRM ¢/kWh	U-18255 IS ¢/kWh	LIEAF Factor $/Billing Meter	U-13808 REP Refund $/Customer
Governmental						
E1	0.0728	See C9.6	0.1356	0.7986	N/A	*N/A*
E1.1 Energy	0.0728	See C9.6	0.1356	0.2228	$0.93	*N/A*
E2 Traffic	0.0728	See C9.6	0.1356	0.2001	N/A	*N/A*
Electric						
EC2 Secondary	0.0728	See C9.6	0.1356	0.0832	$0.93	*N/A*
EC2 Primary	0.0728	See C9.6	0.1356	0.0252	$0.93	*N/A*
EC2	0.0728	0.3396	0.1356	0.0832	$0.93	*N/A*

(Continued on Sheet No. C-72.00)

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