

**BEFORE THE
PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Annual Alternative)	
Energy Status Report and Alternative)	
Energy Resource Plan of Ohio Edison)	Case No. 17-946-EL-ACP
Company, The Cleveland Electric)	
Illuminating Company and The Toledo)	
Edison Company)	

**ANNUAL ALTERNATIVE ENERGY STATUS REPORT AND ALTERNATIVE
ENERGY RESOURCE PLAN OF OHIO EDISON COMPANY, THE CLEVELAND
ELECTRIC ILLUMINATING COMPANY AND THE TOLEDO EDISON COMPANY**

I. INTRODUCTION

Pursuant to Rule 4901:1-40-05 of the Ohio Administrative Code (“O.A.C.”), Ohio Edison Company (“Ohio Edison”), The Cleveland Electric Illuminating Company (“CEI”) and The Toledo Edison Company (“Toledo Edison”) (collectively, the “Companies”) submit their Annual Status Report (“Report”) for the period January 1, 2016 through December 31, 2016 (“Reporting Period”). This Report addresses the Companies’ 2016 baselines and benchmarks utilizing the methodology set forth in R.C. § 4928.643(A) and O.A.C. 4901:1-40 and the Companies’ compliance with the 2016 Renewable Energy Portfolio Standard Benchmarks (“2016 Benchmarks”) set forth in R.C. § 4928.64(B) as amended by S.B. 310 for the Reporting Period. The Companies are pleased to inform the Commission that they are in compliance with their statutory Non-Solar and Solar 2016 Benchmarks. As demonstrated below and in Exhibit A to this Report, the Companies met their 2016 Non-Solar and Solar Benchmarks by obtaining Non-Solar Renewable Energy Credits (“RECs”) and Solar Renewable Energy Credits (“SRECs”).

In addition, as requested by Staff, the Companies are filing in the same document, pursuant to Rule 4901:1-40-03(C), O.A.C. their Alternative Energy Resource Plan for

compliance with future annual advanced and renewable energy resource benchmarks for the period January 1, 2017 through December 31, 2026 (the “Plan”). This Plan is speculative in nature and is subject to change due to changes in statutory requirements for renewable energy resources and evolution of the alternative energy resource market.

II. ANNUAL STATUS REPORT

O.A.C. 4901:1-40-05(A) requires that each electric utility file “an annual alternative energy portfolio status report analyzing all activities undertaken in the previous calendar year to demonstrate how the applicable alternative energy portfolio benchmarks and planning requirements have or will be met.” O.A.C. 4901:1-40-05(A) also requires that the Commission Staff conduct an annual compliance review of the electric utility’s compliance with benchmarks under the alternative energy portfolio standard.

A. BASELINES

O.A.C. 4901:1-40-03(B) provides that an electric utility’s baseline for compliance with the alternative energy resource requirements shall be determined using the following methodology:

. . . the baseline shall be computed as an average of the three preceding calendar years of the total annual number of kilowatt-hours of electricity sold under its standard service offer to any and all retail electric customers whose electric load centers are served by that electric utility and are located within the electric utility’s certified territory. The calculation of the baseline shall be based upon the average, annual, kilowatt-hour sales reported in that electric utility’s three most recent forecast reports or reporting forms.

While R.C. § 4928.643(B) allows for an alternative option for establishing the baseline, the companies have elected to use the methodology contemplated by R.C. § 4928.643(A) and Rule 4901:1-40-03(B).

In compliance with Rule 4901:1-40-03(B) set forth above, the Companies calculated their total annual number of kilowatt-hours of electricity sold to their respective retail electric

customers under their standard service offer (“SSO”) for each of calendar years 2013, 2014, and 2015 utilizing their three most recent reporting forms (herein referred to respectively as, the “2013 Sales”, “2014 Sales” and “2015 Sales”)¹. The Companies then averaged their respective 2013 Sales, 2014 Sales and 2015 Sales to compute their respective 2016 baselines (“2016 Baseline”). The Companies did not make any adjustments to their 2016 Baselines.

The Companies’ respective 2016 Baselines, as defined in Section 4901:1-40-03(B)(2), and 2016 Benchmarks are shown on Exhibit A to this Report. The Companies’ 2016 Baselines total 10,474,348 MWh based on the average of the Companies’ total annual number of kilowatt-hours of electricity sold to their respective retail electric customers under their standard service offer for the prior three years (2013-15).²

B. BENCHMARKS

The Companies then calculated their respective 2016 Benchmarks in accordance with R.C. § 4928.64(B)(2) as amended by S.B. 310. By 2027, the Companies must provide twelve and one half (12.5) percent of their electricity from qualifying renewable energy resources. R.C. § 4928.64(B)(1). The law further requires that at least one-half (.5) percent of the twelve and one half (12.5) percent must be supplied from solar energy resources by 2027. R.C. § 4928.64(B)(2). The law sets annual benchmarks for both renewable energy and solar energy. *Id.* For 2016, the Companies’ benchmark was to supply 2.50% of their electricity supply from renewable energy resources and 0.12% of their electricity supply from solar energy resources. *Id.*

¹ The actual kilowatt hours sold in each of 2013, 2014, and 2015 were reported on the SE -1 Monthly Historical Electricity Data, Part A.

² Ohio Edison’s 2016 Baseline 5,104,817 MWh; CEI’s 2016 Baseline is 2,884,653 MWh; Toledo Edison’s 2016 Baseline is 2,484,878 MWh.

The Companies' 2016 Benchmarks are based on the renewable benchmark equal to 2.50% of their 2016 Baselines. Exhibit A to this Report depicts each company's baseline; the number of RECs and SRECs each company needed to obtain to meet its 2016 Benchmark; and the number of RECs and SRECs that each company actually obtained. Beginning in the 2014 compliance year, there is no longer a minimum in-state requirement.

1. 2016 Non-Solar Benchmarks

The Companies were able to meet one hundred (100) percent of their 2016 Non-Solar Benchmarks. The Companies were required to obtain 249,288 total Non-Solar RECs. These RECs were obtained through requests for proposals ("RFPs") conducted by the Companies.

2. 2016 Solar Benchmarks

The Companies' were able to meet one hundred (100) percent of their 2016 Solar benchmarks. The Companies were required to obtain 12,570 total SRECs. These SRECs were obtained through requests for proposals ("RFPs"), including long-term contracts, conducted by the Companies and through purchases made through the Residential REC Program.

III. ALTERNATIVE ENERGY RESOURCE PLAN

A. BASELINES AND BENCHMARKS FOR ALTERNATIVE ENERGY RESOURCE COMPLIANCE

Section 4901:1-40-03(B), OAC, provides that an electric utility's baseline for compliance with the alternative energy resource requirements shall be determined using the following methodology:

. . . the baseline shall be computed as an average of the three preceding calendar years of the total annual number of kilowatt-hours of electricity sold under its standard service offer to any and all retail electric customers whose electric load centers are served by that electric utility and are located within the electric utility's certified territory. The calculation of the baseline shall be based upon the average, annual, kilowatt-hour sales reported in that electric utility's three most recent forecast reports or reporting forms.

While R.C. § 4928.643(B) allows for an alternative option for establishing the baseline, for purposes of the Plan, the Companies have elected to use the methodology in R.C. §4928.643(A) and Rule 4901:1-40-03(B). In compliance with Section 4901:1-40-03(B) set forth above, the Companies calculated their total annual number of kilowatt-hours of electricity sold to their respective retail electric customers under their standard service offer (“SSO”) for each of calendar years 2014, 2015, and 2016 utilizing their three most recent reporting forms (herein referred to respectively as, the “2014 Sales” “2015 Sales” and “2016 Sales”).³ The Companies then averaged their respective 2014 Sales, 2015 Sales and 2016 Sales to compute their respective 2017 baselines (“2017 Baselines”). The Companies did not make any adjustments to the 2017 Baselines. *See Exhibit B.*

The Companies’ baselines, for the purpose of this Plan, for 2018 forward are calculated using 2015 Sales and 2016 Sales (when applicable to formulate an average of the three preceding calendar years), and a projected amount of sales for calendar years 2017 forward, in each case to formulate an average of the three preceding calendar years (“Projected Sales”). The Companies then averaged their respective Projected Sales to compute their respective 2017-2026 baselines (“2017-2026 Baselines”).⁴ The Companies’ forecast years do reflect shopping levels that may occur. *See Exhibit B.* The Companies then calculated their respective renewable energy resources and solar energy resources benchmarks in accordance with R.C. § 4928.64 as amended by S.B. 310. *See Exhibit B.*

³ The actual kilowatt hours sold in each of 2014, 2015, and 2016 were reported on the SE-1 Reporting Forms.

⁴ The Companies’ baselines for calendar years 2017-2026 will be updated to reflect actual sales when such information becomes available, and shall be reported in the Companies’ applicable Annual Status Report and Compliance Review.

B. SUPPLY PORTFOLIO PROJECTION

The Companies plan to supply the generation associated with the above baselines in accordance with standard service offer procurement plans (“SSO Procurement Plans”).⁵ These quantities represent the energy that the suppliers of the SSO will be obligated to supply through applicable supplier master agreements associated with the SSO Procurement Plans.

C. METHODOLOGY USED TO EVALUATE COMPLIANCE OPTIONS

Given that the Companies do not own alternative energy resource facilities, the Companies’ methodology or process for assessing compliance options was to evaluate a variety of potential options. Such options included banking and purchasing renewable energy credits (“RECs”) through long-term contracts, short-term spot purchases, and competitive requests for proposals. The Companies have purchased and plan to continue to purchase RECs and SRECs through competitive request for proposal solicitation structure for the duration of this ten year plan (“RFP REC Procurement Process”). The RFP REC Procurement Process is an efficient means of meeting the annual benchmarks as required by R.C. § 4928.64 and provides the Companies with market intelligence about potential suppliers and the availability of RECs and SRECs from completed and planned renewable projects. The 2016 RFP REC Procurement Process was managed by Navigant Consulting, Inc. (“NCI”). The Companies plan to retain an independent consultant for the management of future RFP REC Procurement Processes. The Companies, as necessary and as part of a contingency plan, will also continue to purchase RECs and SRECs through brokers and bilateral agreements.

⁵ The Companies’ SSO Procurement Plans contemplate power purchases. The Companies do not own generation.

IV. CONCLUSION

As demonstrated above, the Companies achieved full compliance with the 2016 renewable energy benchmark and Solar Benchmark in R.C. § 4928.64(B)(2) as amended by S.B. 310. The Companies also appreciate the opportunity to file this initial Plan and expect this Plan will be updated and refined over the ten-year planning horizon.

Respectfully submitted,

/s/ Robert M. Endris

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ILLUMINATING COMPANY AND THE

TOLEDO EDISON COMPANY

2016 ALTERNATIVE ENERGY BENCHMARKS AND COMPLIANCE RECONCILIATION

Line No.	Year	Company's SSO Retail Electric Sales	Baseline	Renewable Energy Resource Target %	Solar Energy Target %	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECS	Renewable Less Solar Benchmark - RECS
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)*(5)	(8)=(4)*(6)	(9)=(7)-(8)
		Ohio Edison Company						
1	2013	5,189,587						
2	2014	5,038,011						
3	2015	5,086,853						
4	2016		5,104,817	2.50%	0.12%	127,620	6,126	121,494
5	2016	Ohio All Renewable (OH), Zone: OH Compliance RECs retired in GATS						
							6,126	121,494

Column (3) = 2013 through 2015 From Form(s) SE-1: Monthly Historical Electricity Data, Part A

Column (4) = simple average of preceding three years from Column (3)

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) thru (12) = calculation of benchmarks

2016 ALTERNATIVE ENERGY BENCHMARKS AND COMPLIANCE RECONCILIATION

Line No.	Year	Company's SSO Retail Electric Sales	Baseline	Renewable Energy Resource Target %	Solar Energy Target %	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECS	Renewable Less Solar Benchmark - RECS
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)*(5)	(8)=(4)*(6)	(9)=(7)-(8)
	The Cleveland Electric Illuminating Company							
1	2013	2,662,258						
2	2014	2,877,135						
3	2015	3,114,567						
4	2016		2,884,653	2.50%	0.12%	72,116	3,462	68,654
5	2016	Ohio All Renewable (OH), Zone: OH Compliance RECs retired in GATS						
							3,462	68,654

Column (3) = 2013 through 2015 From Form(s) SE-1: Monthly Historical Electricity Data, Part A

Column (4) = simple average of preceding three years from Column (3)

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) thru (12) = calculation of benchmarks

2016 ALTERNATIVE ENERGY BENCHMARKS AND COMPLIANCE RECONCILIATION

Line No.	Year	Company's SSO Retail Electric Sales	Baseline	Renewable Energy Resource Target %	Solar Energy Target %	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECS	Renewable Less Solar Benchmark - RECS
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)*(5)	(8)=(4)*(6)	(9)=(7)-(8)
The Toledo Edison Company								
1	2013	2,412,668						
2	2014	2,464,640						
3	2015	2,577,327						
4	2016		2,484,878	2.50%	0.12%	62,122	2,982	59,140
5	2016	Ohio All Renewable (OH), Zone: OH Compliance RECs retired in GATS						
							2,982	59,140

Column (3) = 2013 through 2015 From Form(s) SE-1: Monthly Historical Electricity Data, Part A

Column (4) = simple average of preceding three years from Column (3)

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) thru (12) = calculation of benchmarks

2016 ALTERNATIVE ENERGY BENCHMARKS AND COMPLIANCE RECONCILIATION

Line No.	Year	Company's SSO Retail Electric Sales	Baseline	Renewable Energy Resource Target %	Solar Energy Target %	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECS	Renewable Less Solar Benchmark - RECS
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)*(5)	(8)=(4)*(6)	(9)=(7)-(8)
		Total Ohio						
1	2013	10,264,513						
2	2014	10,379,787						
3	2015	10,778,747						
4	2016		10,474,348	2.50%	0.12%	261,858	12,570	249,288
5	2016	Ohio All Renewable (OH), Zone: OH Compliance RECs retired in GATS						
							12,570	249,288

Column (3) = 2013 through 2015 From Form(s) SE-1: Monthly Historical Electricity Data, Part A

Column (4) = simple average of preceding three years from Column (3)

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) thru (12) = calculation of benchmarks

Ohio Edison Company

Renewable Energy Resources Baselines and Benchmarks

(Megawatt Hours/Year)		Planning baselines and benchmarks in the forecasted years are calculated using forecasted SSO Retail Electric Sales and the same percentage of customer sales taking SSO service as 12/2016 actual. Associated compliance baselines and benchmarks will reflect actual SSO Retail Electric Sales.												
Year	Delivery Retail Electric Sales Excluding Losses	Delivery Retail Electric Sales Including Losses	Company's Calendar-Month SSO Retail Electric Sales	Renewable Energy Resource Target %	Solar Energy Resource Target %	Alternative Energy Baselines	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark	Renewable Less Solar Benchmark	Contracted SRECS	Long Term solar RFP	Contracted non-solar RECs	Long Term non-solar RFP	Supply Portfolio Projection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5)/(7)	(9)=(6)/(7)	(10) = (8)-(9)	(11)	(12)	(13)	(14)	(15)
20.26% Percent of customer sales taking SSO service on 12/2016 (as calculated from PUCO Form SE-1)														
2009			19,043,752											
2010			9,928,843											
2011			6,657,188											
2012			5,889,259											
2013			5,189,587											
2014			5,038,011											
2015			5,086,853											
2016			4,775,375											
2017	23,554,000	25,302,000	4,772,040	3.50%	0.15%	4,966,747	173,836	7,450	166,386		2,936		9,787	5,126,185
2018	23,659,000	25,406,000	4,793,313	4.50%	0.18%	4,878,089	219,514	8,781	210,733		3,042		10,140	5,147,256
2019	23,757,000	25,504,000	4,813,168	5.50%	0.22%	4,780,243	282,913	10,517	252,396		3,199		10,658	5,167,110
2020	23,616,000	25,349,000	4,784,602	6.50%	0.26%	4,792,840	311,535	12,461	299,074		3,262		10,873	5,135,707
2021	23,616,000	25,348,000	4,784,602	7.50%	0.30%	4,797,028	359,777	14,391	345,386		544		-	5,135,505
2022	23,682,000	25,418,000	4,797,973	8.50%	0.34%	4,794,124	407,501	16,300	391,201		-		-	5,149,687
2023	23,803,000	25,546,000	4,822,488	9.50%	0.38%	4,789,059	454,961	18,198	436,763		-		-	5,175,620
2024	23,915,000	25,667,000	4,845,179	10.50%	0.42%	4,801,688	504,177	20,167	484,010		-		-	5,200,134
2025	23,964,000	25,721,000	4,855,106	11.50%	0.46%	4,821,880	554,516	22,181	532,335		-		-	5,211,075
2026	24,026,000	25,788,000	4,867,668	12.50%	0.50%	4,840,924	605,116	24,205	580,911		-		-	5,224,849

Column (2) and (3) PUCO Case No. 17-913-EL-FOR PUCO FORM FE-D1

Column (4) = 2009 through 2010 From PUCO Form(s) SE-1: Monthly Historical Electricity Data, Part A.

The actual kilowatt hours sold in 2012 through 2016 were reported by cycle on the SE-1 Report Form. However, the Companies' calculated their baseline based on 2012 through 2016 calendar year sales.
 = 2017 through 2024 From Column (2) Times percent of customer sales taking SSO service on 12/2016

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) Average of the three preceding calendar years of Column (4)

Column (8) and (9) from OAC 4901:1-40-03 (A) [Column (9) is not incremental to Column (8)]

Column (10) = Net renewable benchmark

Columns (12) & (14) = Filled in Cases 10-2891-EL-ACP and 11-4625-EL-ACP, as stipulated to in 10-0388-EL-SSO.

Column (15) = Column (3) times the percent of customer sales taking SSO service on 12/2016 Service Offer percent of delivery retail electric sales.

SSO supplier is obligated to provide Standard Service Offer percent of delivery retail electric sales including distribution losses.

The Cleveland Electric Illuminating Company
Renewable Energy Resources Baselines and Benchmarks

(Megawatt Hours/Year)														
Planning baselines and benchmarks in the forecasted years are calculated using forecasted SSO Retail Electric Sales and the same percentage of customer sales taking SSO service as 12/2016 actual. Associated compliance baselines and benchmarks will reflect actual SSO Retail Electric Sales.														
Year	Delivery Retail Electric Sales Excluding Losses	Delivery Retail Electric Sales Including Losses	Company's Calendar-Month SSO Retail Electric Sales	Renewable Energy Resource Target %	Solar Energy Resource Target %	Alternative Energy Baselines	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECs	Renewable Less Solar Benchmark - RECs	Contracted SRECS	Long Term solar RFP	Contracted non-solar RECs	Long Term non-solar RFP	Supply Portfolio Projection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5)*(7)	(9)=(6)*(7)	(10) = (8)-(9)	(11)	(12)	(13)	(14)	(15)
14.59% Percent of customer sales taking SSO service on 12/2016 (as calculated from PUCO Form SE-1)														
2009			14,450,199											
2010			6,981,963											
2011			3,337,566											
2012			2,866,655											
2013			2,662,258											
2014			2,877,135											
2015			3,114,567											
2016			2,748,573											
2017	18,179,000	19,491,000	2,652,316	3.50%	0.15%	2,913,425	101,970	4,370	97,600		1,722		5,741	2,843,737
2018	18,133,000	19,445,000	2,645,605	4.50%	0.18%	2,838,486	127,732	5,109	122,623		1,770		5,900	2,837,026
2019	18,044,000	19,350,000	2,632,620	5.50%	0.22%	2,682,165	147,519	5,901	141,618		1,794		5,981	2,823,165
2020	17,921,000	19,217,000	2,614,674	6.50%	0.26%	2,643,514	171,828	6,873	164,955		1,799		5,997	2,803,760
2021	17,887,000	19,181,000	2,609,713	7.50%	0.30%	2,630,966	197,322	7,893	189,429		299		-	2,798,508
2022	17,944,000	19,241,000	2,618,030	8.50%	0.34%	2,619,002	222,615	8,905	213,710		-		-	2,807,262
2023	18,103,000	19,409,000	2,641,228	9.50%	0.38%	2,614,139	248,343	9,934	238,409		-		-	2,831,773
2024	18,239,000	19,554,000	2,661,070	10.50%	0.42%	2,622,990	275,414	11,017	264,397		-		-	2,852,929
2025	18,309,000	19,630,000	2,671,283	11.50%	0.46%	2,640,109	303,613	12,145	291,468		-		-	2,864,017
2026	18,388,000	19,717,000	2,682,809	12.50%	0.50%	2,657,860	332,233	13,289	318,944		-		-	2,876,710

Column (2) and (3) PUCO Case No. 17-913-EL-FOR PUCO FORM FE-D1

Column (4) = 2009 through 2010 From PUCO Form(s) SE-1: Monthly Historical Electricity Data, Part A

The actual kilowatt hours sold in 2012 through 2016 were reported by cycle on the SE-1 Report Form. However, the Companies' calculated their baseline based on 2012 through 2016 calendar year sales.
= 2017 through 2024 From Column (2) Times percent of customer sales taking SSO service on 12/2016

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) Average of the three preceding calendar years of Column (4)

Column (8) and (9) from OAC 4901:1-40-03 (A) [Column (9) is not incremental to Column (8)]

Column (10) = Net renewable benchmark

Columns (12) & (14) = Filed in Cases 10-2891-EL-ACP and 11-4625-EL-ACP, as stipulated to in 10-0388-EL-SSO.

Column (15) = Column (3) times the percent of customer sales taking SSO service on 12/2016 Service Offer percent of delivery retail electric sales,

SSO supplier is obligated to provide Standard Service Offer percent of delivery retail electric sales including distribution losses.

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The Toledo Edison Company

Renewable Energy Resources Baselines and Benchmarks

(Megawatt Hours/Year)		Planning baselines and benchmarks in the forecasted years are calculated using forecasted SSO Retail Electric Sales and the same percentage of customer sales taking SSO service as 12/2016 actual. Associated compliance baselines and benchmarks will reflect actual SSO Retail Electric Sales.												
Year	(2)	(3)	(4)	Renewable Energy Resource Target %	Solar Energy Resource Target %	Alternative Energy Baselines	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECs	Renewable Less Solar Benchmark - RECs	Contracted SRECS	Long Term solar RFP	Contracted non-solar RECs	Long Term non-solar RFP	Supply Portfolio Projection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5)/(7)	(9)=(6)/(7)	(10) = (8)/(9)	(11)	(12)	(13)	(14)	(15)
12.67% Percent of customer sales taking SSO service on 12/2016 (as calculated from PUCO Form SE-1)														
2009	7,815,831													
2010	3,537,132													
2011	2,811,863													
2012	2,560,233													
2013	2,412,668													
2014	2,454,640													
2015	2,577,327													
2016	1,768,988													
2017	10,807,000	11,405,000	1,369,247	3.50%	0.15%	2,270,318	79,461	3,405	76,056		1,342		4,473	1,445,014
2018	10,921,000	11,521,000	1,383,691	4.50%	0.18%	1,905,187	85,733	3,429	82,304		1,188		3,960	1,459,711
2019	10,941,000	11,542,000	1,386,225	5.50%	0.22%	1,507,309	82,902	3,316	79,586		1,008		3,361	1,462,371
2020	10,920,000	11,519,000	1,383,564	6.50%	0.26%	1,379,721	89,682	3,587	86,095		939		3,130	1,459,457
2021	10,973,000	11,573,000	1,390,279	7.50%	0.30%	1,384,493	103,837	4,153	99,684		157		-	1,466,299
2022	11,222,000	11,830,000	1,421,827	8.50%	0.34%	1,386,689	117,869	4,715	113,154		-		-	1,498,861
2023	11,413,000	12,027,000	1,446,027	9.50%	0.38%	1,398,557	132,863	5,315	127,548		-		-	1,523,821
2024	11,512,000	12,130,000	1,458,570	10.50%	0.42%	1,419,378	149,035	5,961	143,074		-		-	1,536,871
2025	11,565,000	12,186,000	1,465,286	11.50%	0.46%	1,442,141	165,846	6,634	159,212		-		-	1,543,966
2026	11,616,000	12,239,000	1,471,747	12.50%	0.50%	1,456,628	182,079	7,283	174,796		-		-	1,550,681

Column (2) and (3) PUCO Case No. 17-913-EL-FOR PUCO FORM FE-D1

Column (4) = 2009 through 2010 From PUCO Form(s) SE-1: Monthly Historical Electricity Data, Part A.

The actual kilowatt hours sold in 2012 through 2016 were reported by cycle on the SE-1 Report Form. However, the Companies' calculated their baseline based on 2012 through 2016 calendar year sales.
= 2017 through 2024 From Column (2) Times percent of customer sales taking SSO service on 12/2016

Column (5) and (6) from OAC 4901:1-40-03 (A)

Column (7) Average of the three preceding calendar years of Column (4)

Column (8) and (9) from OAC 4901:1-40-03 (A) [Column (9) is not incremental to Column (8)]

Column (10) = Net renewable benchmark

Columns (12) & (14) = Filled in Cases 10-2891-EL-ACP and 11-4625-EL-ACP, as stipulated to in 10-0388-EL-SSO.

Column (15) = Column (3) times the percent of customer sales taking SSO service on 12/2016 Service Offer percent of delivery retail electric sales,

SSO supplier is obligated to provide Standard Service Offer percent of delivery retail electric sales including distribution losses.

Total Ohio

Renewable Energy Resources Baselines and Benchmarks

(Megawatt Hours/Year)														
Planning baselines and benchmarks in the forecasted years are calculated using forecasted SSO Retail Electric Sales and the same percentage of customer sales taking SSO service as 12/2016 actual. Associated compliance baselines and benchmarks will reflect actual SSO Retail Electric Sales.														
Year	Delivery Retail Electric Sales Excluding Losses	Delivery Retail Electric Sales Including Losses	Company's Calendar-Month SSO Retail Electric Sales	Renewable Energy Resource Target %	Solar Energy Resource Target %	Alternative Energy Baselines	Renewable Energy Resource Benchmark	Solar Energy Resource Benchmark - SRECs	Renewable Less Solar Benchmark - RECs	Contracted SRECS	Long Term solar RFP	Contracted non-solar RECs	Long Term non-solar RFP	Supply Portfolio Projection
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5)*(7)	(9)=(6)*(7)	(10)=(8)-(9)	(11)	(12)	(13)	(14)	(15)
2009			41,309,781											
2010			20,447,939											
2011			12,806,617											
2012			11,316,147											
2013			10,264,513											
2014			10,379,787											
2015			10,778,747											
2016			9,292,937											
2017	52,540,000	56,198,000	8,793,603	3.50%	0.15%	10,150,490	355,267	15,225	340,042		6,000		20,000	9,414,936
2018	52,713,000	56,372,000	8,822,609	4.50%	0.18%	9,621,762	432,979	17,319	415,660		6,000		20,000	9,443,992
2019	52,742,000	56,396,000	8,832,013	5.50%	0.22%	8,969,717	493,334	19,734	473,600		6,000		20,000	9,452,647
2020	52,457,000	56,085,000	8,782,840	6.50%	0.26%	8,816,075	573,045	22,921	550,124		6,000		20,000	9,398,925
2021	52,476,000	56,102,000	8,784,594	7.50%	0.30%	8,812,487	660,936	26,437	634,499		1,000			9,400,312
2022	52,848,000	56,489,000	8,837,830	8.50%	0.34%	8,799,815	747,985	29,920	718,065					9,455,810
2023	53,319,000	56,982,000	8,909,743	9.50%	0.38%	8,801,755	836,167	33,447	802,720					9,531,214
2024	53,666,000	57,351,000	8,964,819	10.50%	0.42%	8,844,056	928,626	37,145	891,481					9,589,934
2025	53,838,000	57,537,000	8,991,675	11.50%	0.46%	8,904,130	1,023,975	40,960	983,015					9,619,058
2026	54,030,000	57,744,000	9,022,224	12.50%	0.50%	8,955,412	1,119,428	44,777	1,074,651					9,652,040

Columns (2), (3), (4), (7), (8), (9), (10) and (15) = sum of the corresponding column from Pages 1 through 3

Column (5) and (6) from OAC 4901:1-40-03 (A)

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Case No(s). 17-0946-EL-ACP

Summary: Report In the Matter of the Annual Alternative Energy Status Report and Alternative Energy Resource Plan of Ohio Edison Company, The Cleveland Electric Illuminating Company and The Toledo Edison Company