

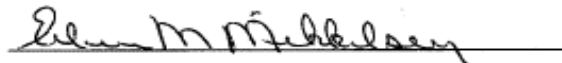
Ohio Edison Company
The Cleveland Electric Illuminating Company
The Toledo Edison Company
and
American Transmission Systems, Incorporated

**2018 ELECTRIC
LONG-TERM FORECAST REPORT
TO THE
PUBLIC UTILITIES COMMISSION OF OHIO
Case № 18-449-EL-FOR**

CERTIFICATE OF SERVICE

I hereby certify that this 2018 Long-Term Forecast Report was filed by Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company and American Transmission Systems, Incorporated with the Public Utilities Commission of Ohio on April 15, 2018 and that:

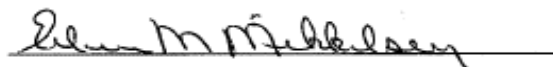
1. Pursuant to Rule 4901:5-1-03(F), Ohio Administrative Code, a copy of the 2018 Long-Term Forecast Report has been delivered or mailed on the day of filing to the Office of the Ohio Consumers' Counsel;
2. Pursuant to Rule 4901:5-1-03(G), Ohio Administrative Code, within three days of filing with the Public Utilities Commission of Ohio, a letter—stating that the Long-Term Forecast Report has been filed with the Public Utilities Commission of Ohio and that a copy of the Long-Term Forecast report is available for public inspection at the Public Utilities Commission offices located at 180 East Broad Street, Columbus, Ohio 43215, shall be sent by first class mail to the appropriate county libraries;
3. Pursuant to Rule 4901:5-1-03(H), Ohio Administrative Code, the Applicants shall keep at least one copy of its 2018 Long-Term Forecast Report at its principal business office for public inspection during business hours; and
4. Pursuant to Rule 4901:5-1-03(I), Ohio Administrative Code, the Applicants shall provide a copy of its 2018 Long-Term Forecast Report to any person upon request at a cost to cover the expenses incurred.



Eileen M. Mikkelsen
Vice President, Rates & Regulatory Affairs
FirstEnergy Service Company
76 South Main St.
Akron, OH 44308-1890
330-384-5166

ATTESTATION

This Long-Term Forecast Report filed by Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company and American Transmission Systems, Incorporated is true and correct to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read "Eileen M. Mikkelsen", is written over a horizontal line.

Eileen M. Mikkelsen
Vice President, Rates & Regulatory Affairs
FirstEnergy Service Company
76 South Main St.
Akron, OH 44308-1890
330-384-5166

SECTION I
TRANSMISSION FORECAST FORMS

FirstEnergy System

Year	(1) Energy Receipts from Generation Sources Connected To The Owner's System Inside Ohio	(2) Energy Receipts from Generation Sources Connected To The System Outside Ohio	(3) Total Energy Receipts From Generation Sources 1 + 2	(4) Energy Receipts At Interconnections With Other Transmission Companies Inside Ohio	(5) Energy Receipts At Interconnections With Other Transmission Companies Outside Ohio	(6) Total Energy Receipts At Interconnections 4 + 5	(7) Total Energy Receipts 3 + 6	(8) Energy Deliveries At Interconnections With Other Transmission Companies Inside Ohio	(9) Energy Deliveries At Interconnections With Other Transmission Companies Outside Ohio	(10) Total Energy Deliveries At Interconnections 8 + 9	(11) Total Energy Deliveries For Load Connected To The System ^b 7 - 10	(12) Energy Deliveries For Loads Connected To The System Inside Ohio	(13) Energy Deliveries For Loads Connected To The System Outside Ohio
-5 2013	33,647,814	18,155,845	51,803,659	16,741,620	18,519,886	35,261,506	87,065,165	5,795,944	16,141,097	21,937,041	65,128,124	57,207,686	7,920,438
-4 2014	30,817,636	17,436,629	48,254,265	17,960,386	18,806,946	36,767,332	85,021,597	5,463,715	15,410,028	20,873,743	64,147,854	58,962,893	5,184,961
-3 2015	34,726,183	13,905,220	48,631,403	14,676,158	20,743,836	35,419,994	84,051,397	6,212,343	9,876,228	16,088,571	67,962,826	62,351,282	5,611,544
-2 2016	30,281,250	12,439,506	42,720,755	16,647,841	21,874,059	38,521,900	81,242,655	5,784,124	6,970,184	12,754,308	68,488,347	62,966,774	5,521,573
-1 2017	31,940,986	8,295,615	40,236,600	17,297,363	23,539,822	40,837,185	81,073,785	7,063,864	7,497,004	14,560,868	66,512,917	60,973,484	5,539,433
0 2018	32,405,514	8,416,261	40,821,775	17,548,924	23,882,170	41,431,094	82,252,869	7,166,596	7,606,035	14,772,632	67,480,237	62,211,611	5,268,626
1 2019	32,332,209	8,397,222	40,729,431	17,509,227	23,828,145	41,337,372	82,066,803	7,150,384	7,588,830	14,739,214	67,327,589	62,065,210	5,262,378
2 2020	32,171,013	8,355,357	40,526,369	17,421,932	23,709,347	41,131,279	81,657,649	7,114,735	7,550,995	14,665,730	66,991,919	61,728,682	5,263,237
3 2021	32,206,819	8,364,656	40,571,475	17,441,323	23,735,735	41,177,058	81,748,532	7,122,654	7,559,399	14,682,053	67,066,480	61,779,637	5,286,843
4 2022	32,312,211	8,392,028	40,704,239	17,498,397	23,813,407	41,311,804	82,016,043	7,145,962	7,584,136	14,730,098	67,285,945	61,945,768	5,340,177
5 2023	32,488,777	8,437,886	40,926,663	17,594,015	23,943,533	41,537,548	82,464,211	7,185,010	7,625,579	14,810,589	67,653,622	62,248,182	5,405,440
6 2024	32,545,381	8,452,586	40,997,967	17,624,668	23,985,248	41,609,917	82,607,884	7,197,528	7,638,864	14,836,392	67,771,492	62,304,207	5,467,285
7 2025	32,632,806	8,475,292	41,108,098	17,672,012	24,049,679	41,721,691	82,829,789	7,216,863	7,659,384	14,876,247	67,953,543	62,423,634	5,529,909
8 2026	32,789,492	8,515,986	41,305,478	17,756,864	24,165,153	41,922,018	83,227,496	7,251,514	7,696,161	14,947,675	68,279,821	62,679,937	5,599,884
9 2027	32,958,039	8,559,761	41,517,799	17,848,139	24,289,368	42,137,508	83,655,307	7,288,789	7,735,721	15,024,510	68,630,797	62,964,176	5,666,621
10 2028	33,171,471	8,615,193	41,786,664	17,963,722	24,446,663	42,410,385	84,197,049	7,335,990	7,785,816	15,121,807	69,075,242	63,332,168	5,743,075

^a To be filled out by electric transmission owners operating in Ohio.

^b These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

^c The Companies do not own or operate generation, nor intend to, for the duration of the forecast. For purposes of this schedule, the Companies have continued to use actual historic information to allocate the forecasted years energy delivery.

PUCO Form FE-T2: Electric Transmission Owner's System
 Seasonal Peak Load Demand Forecast (Megawatts)^{a e}

FirstEnergy System

		Native Load ^b		Internal Load ^c	
	Year	Summer	Winter ^d	Summer	Winter
-5	2013	12,940	11,150	13,141	11,351
-4	2014	12,231	10,909	12,362	11,040
-3	2015	12,074	10,112	12,356	10,394
-2	2016	12,334	10,215	12,752	10,633
-1	2017	11,382	9,850	12,061	10,529
0	2018	12,000	9,830	12,679	10,509
1	2019	11,979	9,786	12,658	10,465
2	2020	11,957	9,778	12,636	10,457
3	2021	11,963	9,804	12,642	10,483
4	2022	11,999	9,786	12,678	10,465
5	2023	12,033	9,813	12,712	10,492
6	2024	12,035	9,818	12,714	10,497
7	2025	12,056	9,857	12,735	10,536
8	2026	12,093	9,899	12,772	10,578
9	2027	12,126	9,956	12,805	10,635
10	2028	12,173	10,010	12,852	10,689

^a To be filled out by electric transmission owners in Ohio.

^b Excludes interruptible load

^c Internal Load equals Native plus Interruptible.

^d Winter load reference is to peak loads which follow the summer peak load.

^e These data include load for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5:04 (B)(3)(a)

PUCO Form FE-T3: Electric Transmission Owner's
Total Monthly Energy Forecast (Megawatt-Hours/Month)

FirstEnergy System

	Ohio Portion ^a	Total Service Area ^b	Total System ^{c d}
Year 0-2018			
January	5,668,433	6,164,811	6,164,811
February	5,154,243	5,608,524	5,608,524
March	5,205,706	5,661,183	5,661,183
April	4,614,084	5,019,352	5,019,352
May	4,836,908	5,245,367	5,245,367
June	5,240,590	5,665,647	5,665,647
July	5,743,684	6,193,444	6,193,444
August	5,641,881	6,092,663	6,092,663
September	4,941,588	5,338,766	5,338,766
October	4,861,850	5,268,283	5,268,283
November	4,881,929	5,305,828	5,305,828
December	5,420,716	5,916,369	5,916,369
Year 1-2019			
January	5,651,604	6,149,283	6,149,283
February	5,128,048	5,582,796	5,582,796
March	5,195,860	5,649,549	5,649,549
April	4,612,241	5,015,705	5,015,705
May	4,818,847	5,226,872	5,226,872
June	5,225,549	5,649,924	5,649,924
July	5,739,727	6,188,608	6,188,608
August	5,639,644	6,088,788	6,088,788
September	4,936,690	5,333,460	5,333,460
October	4,853,736	5,260,621	5,260,621
November	4,868,961	5,293,378	5,293,378
December	5,394,301	5,888,604	5,888,604

^a Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.

^b Electric transmission owner operating across Ohio boundaries shall provide or cause to be provided data for the total service area in this column.

^c Electric transmission owner operating as a part of an integrated operating system shall provide for the total system in this column.

^d These data include load for Pennsylvania Power as well as the 3 Ohio companies

Electric Transmission Owner's
Monthly Internal Peak Load Forecast (Megawatts)

FirstEnergy System

	Ohio Portion ^a	Total Service Area ^b	System ^{c d}
Year 0-2018			
January	9,647	10,529	10,529
February	9,319	10,157	10,157
March	8,911	9,670	9,670
April	8,330	9,062	9,062
May	9,732	10,556	10,556
June	11,376	12,270	12,270
July	11,734	12,679	12,679
August	11,545	12,510	12,510
September	10,980	11,874	11,874
October	8,433	9,118	9,118
November	8,628	9,380	9,380
December	9,483	10,312	10,312
Year 1-2019			
January	9,634	10,509	10,509
February	9,261	10,098	10,098
March	8,848	9,603	9,603
April	8,347	9,075	9,075
May	9,701	10,523	10,523
June	11,397	12,289	12,289
July	11,716	12,658	12,658
August	11,484	12,444	12,444
September	10,913	11,805	11,805
October	8,451	9,136	9,136
November	8,604	9,355	9,355
December	9,436	10,263	10,263

^a Electric transmission owner shall provide or cause to be provided data for the Ohio portion of its service area in this column.

^b Electric transmission owner operating across Ohio boundaries shall provide or cause to be provided data for the total service area

^c Electric transmission owner operating as a part of an integrated operating system shall provide for the total system in this column.

^d These data include load for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: January 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,276,402	-	3,276,402
Energy Receipts from other sources	3,870,302	-	3,870,302
Total Energy Receipts	7,146,704	-	7,146,704

Reporting Month: February 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly transmission system	2,638,407	-	2,638,407
Energy Receipts from other sources	3,405,838	-	3,405,838
Total Energy Receipts	6,044,245	-	6,044,245

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: March 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	2,607,047	-	2,607,047
Energy Receipts from other sources	4,153,044	-	4,153,044
Total Energy Receipts	6,760,091	-	6,760,091

Reporting Month: April 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,076,792	-	3,076,792
Energy Receipts from other sources	3,005,636	-	3,005,636
Total Energy Receipts	6,082,428	-	6,082,428

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: May 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,323,875	-	3,323,875
Energy Receipts from other sources	3,210,012	-	3,210,012
Total Energy Receipts	6,533,887	-	6,533,887

Reporting Month: June 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,425,858	-	3,425,858
Energy Receipts from other sources	3,369,756	-	3,369,756
Total Energy Receipts	6,795,614	-	6,795,614

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: July 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	4,140,306	-	4,140,306
Energy Receipts from other sources	3,359,419	-	3,359,419
Total Energy Receipts	7,499,725	-	7,499,725

Reporting Month: August 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,777,995	-	3,777,995
Energy Receipts from other sources	3,501,428	-	3,501,428
Total Energy Receipts	7,279,423	-	7,279,423

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: September 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,762,168	-	3,762,168
Energy Receipts from other sources	3,071,733	-	3,071,733
Total Energy Receipts	6,833,901	-	6,833,901

Reporting Month: October 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	2,890,537	-	2,890,537
Energy Receipts from other sources	3,428,978	-	3,428,978
Total Energy Receipts	6,319,515	-	6,319,515

4901:5-5-04(B)(3)(c)(i)

PUCO FORM FE-T5:

**MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART A: SOURCES OF ENERGY

Reporting Month: November 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,529,678	-	3,529,678
Energy Receipts from other sources	2,970,794	-	2,970,794
Total Energy Receipts	6,500,472	-	6,500,472

Reporting Month: December 2017

1. Energy Receipts from all sources by type: (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
Energy Receipts from Power Plants directly connected to the Electric Transmission Owner's transmission system	3,787,536	-	3,787,536
Energy Receipts from other sources	3,490,245	-	3,490,245
Total Energy Receipts	7,277,781	-	7,277,781

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: January 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System
(MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,777,978	-	4,777,978
Other Investor-Owned Electric Utilities	1,182,273	-	1,182,273
Cooperative-Owned Electric System	110,724	-	110,724
Municipal-Owned Electric Systems	458,233	-	458,233
Federal and State Electric Agencies	48,148	-	48,148
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,577,356	-	6,577,356

Reporting Month: January 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System
located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,325,542	-	4,325,542
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	110,724	-	110,724
Municipal-Owned Electric Systems	458,233	-	458,233
Federal and State Electric Agencies	48,148	-	48,148
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,942,647	-	4,942,647

4901:5-5-04(B)(3)(c)(ii)

**PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: February 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,093,900	-	4,093,900
Other Investor-Owned Electric Utilities	908,358	-	908,358
Cooperative-Owned Electric System	89,532	-	89,532
Municipal-Owned Electric Systems	405,800	-	405,800
Federal and State Electric Agencies	51,360	-	51,360
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)			
	-	-	-
Total Energy Delivery	5,548,950	-	5,548,950

Reporting Month: February 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,700,209	-	3,700,209
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	89,532	-	89,532
Municipal-Owned Electric Systems	405,800	-	405,800
Federal and State Electric Agencies	51,360	-	51,360
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)			
	-	-	-
Total Energy Delivery	4,246,902	-	4,246,902

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: March 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,549,730	-	4,549,730
Other Investor-Owned Electric Utilities	1,079,502	-	1,079,502
Cooperative-Owned Electric System	96,773	-	96,773
Municipal-Owned Electric Systems	436,609	-	436,609
Federal and State Electric Agencies	64,027	-	64,027
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,226,641	-	6,226,641

Reporting Month: March 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,126,263	-	4,126,263
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	96,773	-	96,773
Municipal-Owned Electric Systems	436,609	-	436,609
Federal and State Electric Agencies	64,027	-	64,027
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,723,672	-	4,723,672

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: April 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,934,751	-	3,934,751
Other Investor-Owned Electric Utilities	1,198,228	-	1,198,228
Cooperative-Owned Electric System	75,313	-	75,313
Municipal-Owned Electric Systems	378,341	-	378,341
Federal and State Electric Agencies	40,881	-	40,881
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,627,514	-	5,627,514

Reporting Month: April 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,564,148	-	3,564,148
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	75,313	-	75,313
Municipal-Owned Electric Systems	378,341	-	378,341
Federal and State Electric Agencies	40,881	-	40,881
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,058,683	-	4,058,683

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: May 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,153,984	-	4,153,984
Other Investor-Owned Electric Utilities	1,391,528	-	1,391,528
Cooperative-Owned Electric System	78,978	-	78,978
Municipal-Owned Electric Systems	399,758	-	399,758
Federal and State Electric Agencies	29,490	-	29,490
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,053,739	-	6,053,739

Reporting Month: May 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,774,486	-	3,774,486
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	78,978	-	78,978
Municipal-Owned Electric Systems	399,758	-	399,758
Federal and State Electric Agencies	29,490	-	29,490
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,282,713	-	4,282,713

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: June 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,585,310	-	4,585,310
Other Investor-Owned Electric Utilities	1,089,267	-	1,089,267
Cooperative-Owned Electric System	87,400	-	87,400
Municipal-Owned Electric Systems	448,997	-	448,997
Federal and State Electric Agencies	48,625	-	48,625
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,259,599	-	6,259,599

Reporting Month: June 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,177,670	-	4,177,670
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	87,400	-	87,400
Municipal-Owned Electric Systems	448,997	-	448,997
Federal and State Electric Agencies	48,625	-	48,625
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,762,692	-	4,762,692

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: July 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	5,005,107	-	5,005,107
Other Investor-Owned Electric Utilities	1,267,704	-	1,267,704
Cooperative-Owned Electric System	99,129	-	99,129
Municipal-Owned Electric Systems	486,520	-	486,520
Federal and State Electric Agencies	55,868	-	55,868
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,914,328	-	6,914,328

Reporting Month: July 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,562,715	-	4,562,715
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	99,129	-	99,129
Municipal-Owned Electric Systems	486,520	-	486,520
Federal and State Electric Agencies	55,868	-	55,868
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,204,231	-	5,204,231

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: August 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,780,524	-	4,780,524
Other Investor-Owned Electric Utilities	1,309,982	-	1,309,982
Cooperative-Owned Electric System	91,264	-	91,264
Municipal-Owned Electric Systems	476,597	-	476,597
Federal and State Electric Agencies	53,276	-	53,276
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,711,643	-	6,711,643

Reporting Month: August 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,354,214	-	4,354,214
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	91,264	-	91,264
Municipal-Owned Electric Systems	476,597	-	476,597
Federal and State Electric Agencies	53,276	-	53,276
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,975,350	-	4,975,350

4901:5-5-04(B)(3)(c)(ii)

**PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: September 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,298,754	-	4,298,754
Other Investor-Owned Electric Utilities	1,484,671	-	1,484,671
Cooperative-Owned Electric System	81,656	-	81,656
Municipal-Owned Electric Systems	427,138	-	427,138
Federal and State Electric Agencies	32,712	-	32,712
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,324,931	-	6,324,931

Reporting Month: September 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,921,741	-	3,921,741
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	81,656	-	81,656
Municipal-Owned Electric Systems	427,138	-	427,138
Federal and State Electric Agencies	32,712	-	32,712
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,463,246	-	4,463,246

4901:5-5-04(B)(3)(c)(ii)

**PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: October 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,173,051	-	4,173,051
Other Investor-Owned Electric Utilities	1,107,217	-	1,107,217
Cooperative-Owned Electric System	82,234	-	82,234
Municipal-Owned Electric Systems	416,906	-	416,906
Federal and State Electric Agencies	40,442	-	40,442
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,819,850	-	5,819,850

Reporting Month: October 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,792,842	-	3,792,842
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	82,234	-	82,234
Municipal-Owned Electric Systems	416,906	-	416,906
Federal and State Electric Agencies	40,442	-	40,442
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,332,424	-	4,332,424

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: November 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,196,030	-	4,196,030
Other Investor-Owned Electric Utilities	1,240,392	-	1,240,392
Cooperative-Owned Electric System	94,318	-	94,318
Municipal-Owned Electric Systems	412,349	-	412,349
Federal and State Electric Agencies	50,831	-	50,831
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,993,920	-	5,993,920

Reporting Month: November 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	3,797,057	-	3,797,057
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	94,318	-	94,318
Municipal-Owned Electric Systems	412,349	-	412,349
Federal and State Electric Agencies	50,831	-	50,831
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,354,555	-	4,354,555

4901:5-5-04(B)(3)(c)(ii)

PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR

FirstEnergy System

PART B: DELIVERY OF ENERGY

Reporting Month: December 2017

1. Energy Deliveries to all points connected to the Electric Transmission Owner's System (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,769,933	-	4,769,933
Other Investor-Owned Electric Utilities	1,301,746	-	1,301,746
Cooperative-Owned Electric System	114,785	-	114,785
Municipal-Owned Electric Systems	456,345	-	456,345
Federal and State Electric Agencies	63,745	-	63,745
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,706,553	-	6,706,553

Reporting Month: December 2017

2. Energy Deliveries to all points connected to the Electric Transmission Owner's System located in Ohio (MWh)

	Firm Transmission Service	Non-Firm Transmission Service	Total
For Distribution Service:			
Affiliated Electric Utility Companies	4,313,406	-	4,313,406
Other Investor-Owned Electric Utilities	-	-	-
Cooperative-Owned Electric System	114,785	-	114,785
Municipal-Owned Electric Systems	456,345	-	456,345
Federal and State Electric Agencies	63,745	-	63,745
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	4,948,281	-	4,948,281

4901:5-5-04(B)(3)(c)(iii)

**PUCO FORM FE-T5: MONTHLY ENERGY TRANSACTIONS (TOTAL MWh/MONTH)
FOR THE MOST RECENT YEAR**

FirstEnergy System

PART C: LOSSES AND UNACCOUNTED FOR (MWh)

		Firm Transmission Service	Non-Firm Transmission Service	Total
Sources minus Delivery (a)				
January	2017	569,348	-	569,348
February	2017	495,294	-	495,294
March	2017	533,450	-	533,450
April	2017	454,914	-	454,914
May	2017	480,149	-	480,149
June	2017	536,015	-	536,015
July	2017	585,397	-	585,397
August	2017	567,781	-	567,781
September	2017	508,971	-	508,971
October	2017	499,665	-	499,665
November	2017	506,552	-	506,552
December	2017	571,227	-	571,227

(a) FE2-T5: Part A minus Part B (1)

4901:5-5-04(B)(4)
PUCO Form FE--T6

Conditions at Time of Monthly Peak
(Megawatts)

Date Mo/Day/Yr	Hour (DST)	Peak MWs	Scheduled Transmission Outages (Y/N)	Unscheduled Transmission Outages (Y/N)	Emergency Operating Procedures
01/05/17	19	9,988	N	N	N
02/09/17	19	9,602	N	N	N
03/14/17	21	9,684	N	N	N
04/07/17	11	8,699	N	N	N
05/18/17	17	10,313	N	N	N
06/13/17	14	12,037	N	N	N
07/19/17	17	12,061	N	N	N
08/21/17	14	11,904	N	N	N
09/26/17	16	11,752	N	N	N
10/10/17	15	8,712	N	N	N
11/13/17	19	8,675	N	N	N
12/12/17	19	10,054	N	N	N

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

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*Width is typical ROW width

*Length in miles is approximate

ATSI-Ohio Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
		Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			*Length (Miles)	*Width (Feet)		Design	Installed	
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.									Steel Towers, Wood Poles, or Underground. Etc. and number of miles of the line of each structure			Substation Name

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES

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*Width is typical ROW width

*Length in miles is approximate

ATSI-Toledo Edison Company Area

Transmission Line Name and Number (a)	Point of Origin and Terminus	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure	Number of Circuits		Substations On the Line
		Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			Length (Miles)	Width (Feet)		Design	Installed	
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.									Steel Towers, Wood Poles, or Underground, Etc. and number of miles of the line of each structure			Substation Name

4901:5-5-04(C)(1)(a)

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES
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*Width is typical ROW width
 *Length in miles is approximate

ATSI-Cleveland Electric Illuminating Company Area

Transmission Line Name and Number (a) List each Transmission Line of 125 kV or more.	Point of Origin and Terminus Indicate location of line's beginning and terminus.	Summer Capability (MVA)		Winter Capability (MVA)		Operating Voltage (kV)	Design Voltage (kV)	Right-of-Way		Type of Supporting Structure Steel Towers, Wood Poles, or Underground. Etc. and number of miles of the line of each structure	Number of Circuits		Substations On the Line Substation Name
		Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			*Length (Miles)	*Width (Feet)		Design	Installed	

4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

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ATSI-Ohio Edison Company Area

<u>Substation Name</u>	Type Transmission (T) <u>Distribution (D)</u>	<u>Voltages</u>	Line Association(s) (FE-T7 or FE-T9 <u>Notation</u>)	Line Existing or <u>Proposed</u>
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4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

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ATSI-Toledo Edison Company Area

<u>Substation Name</u>	Type Transmission (T) Distribution (D)	<u>Voltages</u>	Line Association(s) (FE-T7 or FE-T9 <u>Notation</u>)	Line Existing or Proposed
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4901:5-5-04(C)(1)(b)

PUCO FORM FE3-T8: SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

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ATSI-Cleveland Electric Illuminating Company Area

<u>Substation Name</u>	Type <u>Transmission (T)</u> <u>Distribution (D)</u>	<u>Voltages</u>	Line Association(s) (FE-T7 or FE-T9 <u>Notation</u>)	Line <u>Existing</u> <u>or Proposed</u>
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PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Company Area

1	Line Name and Number	Babb-East Akron 138 kV Underground Line
2	Point of Origin and Termination	O - Point on the existing Babb-East Akron 138 kV Transmission Line T- existing Babb distribution substation
3	Right of Way	Length in mile: 9.28 Average width in feet: Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$1.6 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	None
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Required to support ODOT project
12	Consequence of Line Construction Deferment Or Termination	Delay completion of ODOT project
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Ridgeville Tap to Wauseon 138kV Midway-Richland 138kV
2	Point of Origin and Termination	Midway-Richland 138kV O: Midway T: Richland Ridgeville Tap-Wauseon 138kV O: Ridgeville Tap T: Wauseon
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$3.3 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Double circuit existing 138kV line section (Ridgeville Tap-Wauseon 5 miles) to improve reliability by minimizing tripping events and improving operational switching. Coordinate with line relay replacement projects.
12	Consequence of Line Construction Deferral Or Termination	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Company Area

1	Line Name and Number	Ridgeville to Stryker 138kV Richland-Ridgeville-Napoleon Muni 138kV
2	Point of Origin and Termination	Richland-Ridgeville-Napoleon Muni 138kV O: Richland T: Napoleon Muni Ridgeville-Stryker 138kV O: Ridgeville T: Stryker
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$6.8 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Existing
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Double circuit existing 138kV line section (Ridgeville-Stryker 6 miles) to improve reliability by minimizing tripping events and improving operational switching. Coordinate with line relay replacement projects.
12	Consequence of Line Construction Deferment	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI- Toledo Edison / Ohio Edison Company Area

1	Line Name and Number	West Fremont - Hayes 138 kV #2
2	Point of Origin and Termination	West Fremont - Hayes 138 kV #2 O: West Fremont T: Hayes
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date, with construction concurrent with West Fremont-Groton-Hayes 138 kV.
6	Construction	Commence: 2018 Complete: 2019 Operation: 2019
7	Capital Investment	\$22.4 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel Towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Construct a new West Fremont-Hayes 138kV Line #2. Thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2560

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison / Illuminating Company Area

1	Line Name and Number	Black River - Lorain 138 kV
2	Point of Origin and Termination	Black River - Lorain 138 kV O: Black River T: Lorain
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$11.8 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel Towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Rebuild and reconductor 5.96 miles. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #b2896

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Illuminating Company Area

1	Line Name and Number	Ashtabula Tap to Ashtabula 345kV Perry-Erie West 345kV Line
2	Point of Origin and Termination	Perry-Erie West 345kV Line O: Perry T: Erie West Ashtabula Tap to Ashtabula 345kV O: Ashtabula Tap T: Ashtabula
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$9.1 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Double circuit existing 345kV line section (Ashtabula Tap-Ashtabula 1.5 miles) to improve reliability by minimizing tripping events and improving operational switching. Potential operational constraints under multiple contingency conditions.
12	Consequence of Line Construction Deferment Or Termination	
13	Miscellaneous	PJM RTEP # sNNNN

ATSI- Toledo Edison / Ohio Edison Company Area

1	Line Name and Number	West Fremont-Groton-Hayes 138kV Line #1
2	Point of Origin and Termination	West Fremont-Groton-Hayes O: Point on the West Fremont - Hayes 138kV Transmission Line T: Groton
3	Right of Way	New
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Siting Application filed December 2013 and approved August 2014
6	Construction	Commence: 2014 Complete: 2018 Operation: 2018
7	Capital Investment	\$18.7 M
8	Substations	No. of planned substations: 1 Groton Substation Voltage: 138-69kV Location: 8600 Ohio Rt. 269, Bellevue, OH [41°19'56.78"N, 82°49'53.73"W]
9	Supporting Structures	Wood poles, Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Construct a new West Fremont-Groton-Hayes 138kV Line #1. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #b1959

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Area

1	Line Name and Number	Richland J Bus - Richland K Bus 138kV line - relocations
2	Point of Origin and Termination	Richland-Wauseon-Midway T: Richland O: Midway Richland - Napoleon-Stryker T: Richland O: Stryker
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	No OPSB filing anticipated
6	Construction	Commence: 2018 Complete: 2019 Operation: 2019
7	Capital Investment	\$1.5 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Relocate lines and substation exits at Richland Substation. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: b2875

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison Area

1	Line Name and Number	Beaver-Black River 138kV Rebuild Beaver-Brownhelm Jnct Section
2	Point of Origin and Termination	O: Beaver T: Black River
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$12.4 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild and reconductor 2.98 miles. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2673

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Toledo Edison Area

1	Line Name and Number	Lemoyne - Midway 138 kV
2	Point of Origin and Termination	Lemoyne - Midway T: Lemoyne SS O: Midway SS
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2019 Complete: 2019 Operation: 2020
7	Capital Investment	\$2.9 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Replace 24.5 miles of existing conductor due to core corrosion.
12	Consequence of Line Construction Deferment Or Termination	Potential conductor failure.
13	Miscellaneous	PJM RTEP # s1479

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Cleveland Illuminating Area

1	Line Name and Number	Eastlake-Leroy Center Q15 and Q16 138kV lines Eastlake-Mayfield Q3 & Q4 138kV lines.
2	Point of Origin and Termination	Nathan (Existing) T: Leroy Center O: Eastlake Nathan (New) T: Mayfield O: Eastlake
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2017 Complete: 2018 Operation: 2018
7	Capital Investment	\$1.3 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Move Nathan substation from the Eastlake-Leroy Center Q15 and Q16 138kV lines to the Eastlake-Mayfield Q3 & Q4 138kV lines. Minimize potential local load loss and increase operation flexibility.
12	Consequence of Line Construction Deferment Or Termination	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP # s1468

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Cleveland Illuminating Area

1	Line Name and Number	Nash-Painesville 138 kV Line Section Eastlake-Leroy Center Q15 & Q16 138kV lines.
2	Point of Origin and Termination	Eastlake-Leroy Center Q15 & Q16 138kV lines. T: Leroy Center O: Eastlake
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2019 Operation: 2019
7	Capital Investment	\$6.6 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Add a 138kV 4-breaker ring bus between Nash & Painesville Muni #1 substations. Minimize potential local load loss and increase operation flexibility.
12	Consequence of Line Construction Deferment Or Termination	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP # s1469

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Beaver-Black River 138 kV - Rebuild Brownhelm Jct-Black River Section
2	Point of Origin and Termination	Beaver T: Beaver O: Black River
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$12.4 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild and reconductor 7.2 miles. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2898

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Holloway-Knox 138 kV
2	Point of Origin and Termination	Holloway T: Holloway O: Knox
3	Right of Way	Proposed
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2017 Complete: 2019 Operation: 2019
7	Capital Investment	\$64.1 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild/Rehab 64 miles of 138 kV line due to aged infrastructure
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Seville-Star 138 kV
2	Point of Origin and Termination	Seville T: Seville O: Star
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2017 Complete: 2019 Operation: 2019
7	Capital Investment	\$13.8 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild/Rehab 15.4 miles of 138 kV line due to aged infrastructure
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Hanna-Newton Falls 138 kV
2	Point of Origin and Termination	Hanna T: Hanna O: Seville
3	Right of Way	Proposed
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$22.2 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild/Rehab 20.5 miles of 138kV Line due to aged infrastructure
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Chamberlin - Hudson Muni East 138 kV
2	Point of Origin and Termination	Chamberlin T: Chamberlin O: Hudson Muni East
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2017 Complete: 2018 Operation: 2018
7	Capital Investment	\$7.2 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild/Rehab of 5.8 miles 138 kV line due to aged infrastructure
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Formerly Burger-Harmon #2 and Burger-Cloverdale 138kV lines (Existing lines de-energized from Holloway to old Burger Plant site)
2	Point of Origin and Termination	Burger T: Burger O: Harmon & Cloverdale
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$2.1 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Reconfigure 2.4 miles of the formerly Burger-Harmon #2 138 kV line and the Burger-Cloverdale 138kV line from Holloway substation for an interconnection to AEP to address PJM criteria violations in AEP zone.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2753.4 & b2753.5

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Toronto-Dobbins & Toronto-Boardman-Sammis
2	Point of Origin and Termination	Toronto T: Toronto O: Dobbins & Boardman
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$1.5 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Relocate & replace Tower #8037 on Dobbins-Toronto 138kV line due to conditions at tower base. Relocate & replace Tower #6437 on Sammis-Boardman/Boardman-Toronto 138kV line due to conditions at tower base.
12	Consequence of Line Construction Deferment Or Termination	Potential Tower structure failure
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Lallendorf-Monroe 345 kV
2	Point of Origin and Termination	Lallendorf T: Lallendorf O: Monroe
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2019 Operation: 2019
7	Capital Investment	\$0.5 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Reconductor 1.0 mile 345 kV line. Eliminate thermal overloads on the 345kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 345kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2972

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Avon - Admiral - Lorain Q2 138kV
2	Point of Origin and Termination	Avon T: Avon O: Lorain
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$3.0 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Reconductor 4.5 miles of 138 kV line. Eliminate thermal overloads on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP # b2897

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Chrysler-Dowling 138 kV
2	Point of Origin and Termination	Chrysler T: Chrysler O: Dowling
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2018 Operation: 2018
7	Capital Investment	\$0 (Fully Reimbursable)
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Modify existing service tap on circuit per customer request
12	Consequence of Line Construction Deferment Or Termination	Unable to serve 138kV customer
13	Miscellaneous	PJM RTEP # s1466

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Fowles-Fox Q12 & Q13 138 kV
2	Point of Origin and Termination	Fowles T: Fowles O: Fox
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2018 Operation: 2018
7	Capital Investment	\$0 (Fully Reimbursable)
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rehab lines due to removal of Q17 & Q18 138 kV lines
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # s1467

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	East Springfield-Tangy Loop to Broadview 138 kV
2	Point of Origin and Termination	East Springfield T: East Springfield O: Tangy
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2019 Complete: 2019 Operation: 2019
7	Capital Investment	\$8.8 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Existing East Springfield-Tangy 138 kV line to loop to Broadview substation
12	Consequence of Line Construction Deferment Or Termination	Potential operational constraints under multiple contingency conditions
13	Miscellaneous	PJM RTEP # s1210

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Clark-Urbana Loop to Broadview 138 kV
2	Point of Origin and Termination	Clark T: Clark O: Urbana
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2018 Operation: 2018
7	Capital Investment	\$ 5.0 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Existing Clark-Urbana 138 kV line to loop to Broadview substation
12	Consequence of Line Construction Deferment Or Termination	Potential operational constraints under multiple contingency conditions
13	Miscellaneous	PJM RTEP # s1210

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	East Springfield-London #2 138 kV
2	Point of Origin and Termination	East Springfield T: East Springfield O: London
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Letter of Notification at future date.
6	Construction	Commence: 2018 Complete: 2018 Operation: 2018
7	Capital Investment	\$ 1.0 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Provide 138kV service to new customer.
12	Consequence of Line Construction Deferment Or Termination	Unable to serve new customer by required in-service date.
13	Miscellaneous	PJM RTEP # sNNNN

PUCO FORM FE3-T9: SPECIFICATIONS OF PLANNED ELECTRIC TRANSMISSION LINES

ATSI-Ohio Edison

1	Line Name and Number	Clark-Green 138 kV
2	Point of Origin and Termination	Clark T: Clark O: Green
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Letter of Notification filed on March 7, 2018 in Case No. 18-0226-EL-BLN.
6	Construction	Commence: 2018 Complete: 2018 Operation: 2018
7	Capital Investment	\$ 3.0 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Reinsulate Clark-Green 138 kV
12	Consequence of Line Construction Deferment Or Termination	Insulator failure and potential risk of transmission outages
13	Miscellaneous	PJM RTEP # sNNNN Added at the request of PUCO staff

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Ohio Edison Company Area

<u>Substation Name:</u>	<u>Type of Substation</u>	<u>Voltage (kV)</u>	<u>Timing</u>	<u>Line Association(s):</u>	<u>Line Existing or Proposed:</u>
Madison	Transmission	138 kV	ISD: 12/18	Create 3 Breaker Ring Bus Madison-Brookside Madison-Longview	N/A
		138 kV			Existing Existing
Ryan	Transmission	138 kV	ISD: 12/18	Create 3 Breaker Ring Bus Ryan-West Medina Ryan-Seville	N/A Existing Existing
Silfex	Transmission	138 kV	ISD: 10/18	Service to new customer Loop East Springfield-London into Silfex	N/A Proposed
Beaver	Transmission	138 - 69 kV	ISD: 12/19	Create 3 Breaker Ring Bus Beaver-Shinrock Beaver-Black River	N/A
		138 kV			Existing Existing
Broadview	Transmission	138 kV	ISD: 12/19	East Springfield-Tangy loop to Broadview Clark-Urbana loop to Broadview Expand and Install Transformers	Proposed
		138 kV			Proposed
		138 kV 69 kV			N/A
Wellington	Transmission	138 kV	ISD: 12/20	Create 4 Breaker Ring Bus Install Transformer Beaver-Wellington	N/A
		138/69 kV			N/A
		138 kV			Existing
Grotton	Transmission	138 - 69 kV	ISD: 8/18	Install 138-69 kV transformer Grotton-Hayes 138 kV Grotton-West Fremont 138 kV Hayes-West Fremont 138 kV	N/A
		138 kV			Proposed
		138 kV			Proposed
		138			Proposed
Chamberlin	Transmission	345 kV	ISD: 12/20	Add 2nd transformer Reconfigure Chamberlin-Hanna 345kV Line Exit	N/A Existing

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Cleveland Electric Illuminating Company Area

<u>Substation Name:</u>	<u>Type of Substation</u>	<u>Voltage (kV)</u>	<u>Timing</u>	<u>Line Association(s):</u>	<u>Line Existing or Proposed:</u>
Avon	Transmission	138 kV 345 kV	ISD: 06/19	Reconfigure existing breaker layout Install three new breakers	N/A N/A
Southerly Sewage	Transmission	138 kV	ISD: 11/19	Service to an existing customer Harding-Pleasant Valley Q11 138kV line	N/A Existing

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Toledo Edison Company Area

<u>Substation Name:</u>	<u>Type of Substation</u>	<u>Voltage (kV)</u>	<u>Timing</u>	<u>Line Association(s):</u>	<u>Line Existing or Proposed:</u>
Brim	Transmission	138 - 69 kV 138 kV	ISD: 6/20	Add Transformer Construct line section	N/A Proposed
Stryker	Transmission	138 kV 138 kV	ISD: 6/21	Install new breaker Ridgeville-Stryker (Create Double Circuit)	N/A Proposed
Wauseon	Transmission	138 kV	ISD: 12/20	Install new breaker Ridgeville Tap-Wauseon (Create Double Circuit)	N/A Proposed

SECTION II

DISTRIBUTION FORECAST FORMS

Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year)

Ohio Edison Company

	(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
Year	Residential	Commercial	Industrial	Transportation ^a	Other ^b	Energy Efficiency & Demand Response ^d	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load ^c
-5 2013	9,275,000	6,628,000	8,264,000	-	137,000	-	24,304,000	2,121,000	26,425,000
-4 2014	9,353,000	6,689,000	8,746,000	-	139,000	-	24,927,000	1,630,000	26,557,000
-3 2015	9,222,000	6,662,000	8,266,000	-	142,000	-	24,292,000	1,609,000	25,901,000
-2 2016	9,429,000	6,748,000	7,910,000	-	140,000	-	24,227,000	1,450,000	25,677,000
-1 2017	8,931,000	6,463,000	7,879,000	-	139,000	-	23,412,000	838,000	24,250,000
0 2018	9,224,000	6,805,000	8,009,900	-	137,300	(507,800)	23,668,400	1,741,100	25,409,500
1 2019	9,202,500	6,901,600	8,213,500	-	135,400	(780,800)	23,672,200	1,733,300	25,405,500
2 2020	9,182,400	7,019,800	8,382,100	-	134,100	(1,252,600)	23,465,800	1,713,500	25,179,300
3 2021	9,316,700	7,138,600	8,616,600	-	133,600	(1,724,700)	23,480,800	1,710,600	25,191,400
4 2022	9,476,400	7,269,500	8,803,400	-	133,200	(2,195,500)	23,487,000	1,709,700	25,196,700
5 2023	9,677,100	7,412,700	9,002,900	-	132,900	(2,665,200)	23,560,400	1,714,400	25,274,800
6 2024	9,902,800	7,549,700	9,198,300	-	132,600	(3,135,300)	23,648,100	1,720,700	25,368,800
7 2025	10,132,700	7,684,000	9,373,200	-	132,200	(3,606,500)	23,715,600	1,726,300	25,441,900
8 2026	10,402,400	7,821,000	9,526,600	-	131,900	(4,079,500)	23,802,400	1,735,100	25,537,500
9 2027	10,697,000	7,966,700	9,683,400	-	131,600	(4,554,000)	23,924,700	1,747,000	25,671,700
10 2028	10,823,700	7,981,700	9,703,400	-	131,300	(4,553,900)	24,086,200	1,761,000	25,847,200

^a Transportation includes railroads & railways.

^b Other includes street & highway lighting, public authorities and interdepartmental sales.

^c Years 0 through 10 is calculated by applying a loss factor to each rate class then summing the results.

^d Incremental to 2017.

Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year)

The Cleveland Electric Illuminating Company

	(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 + 2 + 3 + 4 + 5a + 5b)	(7)	(8) (6 + 7)
Year	Residential	Commercial	Industrial	Transportation ^a	Other ^b	Energy Efficiency & Demand Response ^d	Total End-User Consumption	Losses And Unaccounted For Company	Net Energy For Load ^c
-5 2013	5,508,000	6,618,000	6,444,000	-	143,000	-	18,713,000	1,091,000	19,804,000
-4 2014	5,549,000	6,580,000	6,461,000	-	144,000	-	18,734,000	1,401,000	20,135,000
-3 2015	5,490,000	6,548,000	6,323,000	-	141,000	-	18,502,000	1,149,000	19,651,000
-2 2016	5,669,000	6,661,000	6,349,000	-	139,000	-	18,818,000	1,163,000	19,981,000
-1 2017	5,306,000	6,283,000	6,557,000	-	144,000	-	18,291,000	1,315,000	19,606,000
0 2018	5,607,100	6,585,300	6,487,900	-	138,200	(346,700)	18,471,800	1,306,100	19,777,900
1 2019	5,637,300	6,649,900	6,465,400	-	137,300	(534,000)	18,355,900	1,299,100	19,655,000
2 2020	5,682,000	6,744,000	6,596,400	-	136,500	(901,400)	18,257,500	1,289,700	19,547,200
3 2021	5,782,900	6,831,200	6,735,800	-	135,700	(1,268,700)	18,216,900	1,285,200	19,502,100
4 2022	5,892,000	6,944,800	6,879,300	-	135,900	(1,634,400)	18,217,600	1,284,300	19,501,900
5 2023	6,017,300	7,075,400	7,023,000	-	136,100	(1,999,000)	18,252,800	1,286,600	19,539,400
6 2024	6,150,700	7,192,500	7,154,500	-	136,300	(2,363,600)	18,270,400	1,288,200	19,558,600
7 2025	6,285,800	7,305,400	7,285,900	-	136,500	(2,728,600)	18,285,000	1,289,400	19,574,400
8 2026	6,436,800	7,422,700	7,418,200	-	136,700	(3,093,900)	18,320,500	1,292,400	19,612,900
9 2027	6,598,400	7,555,200	7,550,600	-	136,900	(3,459,800)	18,381,300	1,298,000	19,679,300
10 2028	6,653,800	7,564,700	7,556,900	-	137,100	(3,459,700)	18,452,800	1,304,200	19,757,000

^a Transportation includes railroads & railways.^b Other includes street & highway lighting, public authorities and interdepartmental sales.^c Years 0 through 10 is calculated by applying a loss factor to each rate class then summing the results.^d Incremental to 2017.

Electric Utility Service Area Energy Consumption Forecast
(Megawatt Hours/Year)

The Toledo Edison Company

		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1 +2+3+4+5a+5b)	(7)	(8) (6 + 7)
		Residential	Commercial	Industrial	Transportation ^a	Other ^b	Energy Efficiency & Demand Response ^d	Total End-User Consumption	Losses And Unaccounted For Company	Net Energy For Load ^c
Year										
-5	2013	2,496,000	1,975,000	6,006,000	-	51,000	-	10,528,000	454,000	10,982,000
-4	2014	2,538,000	2,001,000	5,954,000	-	52,000	-	10,545,000	767,000	11,312,000
-3	2015	2,469,000	1,975,000	5,959,000	-	51,000	-	10,454,000	856,000	11,310,000
-2	2016	2,560,000	2,014,000	6,016,000	-	53,000	-	10,643,000	870,000	11,513,000
-1	2017	2,411,000	1,883,000	6,034,000	-	52,000	-	10,380,000	933,000	11,313,000
0	2018	2,539,900	1,985,300	6,167,500	-	51,900	(174,300)	10,570,300	580,700	11,151,000
1	2019	2,563,200	2,024,400	6,247,900	-	51,800	(269,700)	10,617,600	581,400	11,199,000
2	2020	2,596,600	2,058,900	6,418,700	-	51,800	(480,400)	10,645,600	580,900	11,226,500
3	2021	2,630,900	2,091,300	6,659,300	-	51,700	(692,500)	10,740,700	582,100	11,322,800
4	2022	2,680,500	2,126,100	6,948,100	-	51,200	(906,000)	10,899,900	586,200	11,486,100
5	2023	2,739,500	2,166,400	7,243,200	-	50,600	(1,121,000)	11,078,700	591,800	11,670,500
6	2024	2,800,500	2,206,800	7,300,000	-	50,100	(1,339,300)	11,018,100	591,100	11,609,200
7	2025	2,864,500	2,247,000	7,440,100	-	49,500	(1,559,300)	11,041,800	592,800	11,634,600
8	2026	2,933,800	2,287,900	7,664,000	-	48,900	(1,780,100)	11,154,500	597,300	11,751,800
9	2027	3,007,500	2,328,700	7,845,500	-	48,400	(2,001,600)	11,228,500	601,000	11,829,500
10	2028	3,034,100	2,332,000	7,919,400	-	47,900	(2,001,600)	11,331,800	605,700	11,937,500

^a Transportation includes railroads & railways.

^b Other includes street & highway lighting, public authorities and interdepartmental sales.

^c Years 0 through 10 are calculated by applying a loss factor to each rate class then summing the results.

^d Incremental to 2017.

System Service Area Energy Consumption Forecast
(Megawatt Hours/Year)

Total Ohio		(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1+2+3+4+5a+5b)	(7)	(8) (6 + 7)
Year	Residential	Commercial	Industrial	Transportation ^a	Other ^b	Energy Efficiency & Demand Response ^d	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load ^c	
-5 2013	17,279,000	15,221,000	20,714,000	-	331,000	-	53,545,000	3,666,000	57,211,000	
-4 2014	17,440,000	15,270,000	21,161,000	-	335,000	-	54,206,000	3,798,000	58,004,000	
-3 2015	17,181,000	15,185,000	20,548,000	-	334,000	-	53,248,000	3,614,000	56,862,000	
-2 2016	17,658,000	15,423,000	20,275,000	-	332,000	-	53,688,000	3,483,000	57,171,000	
-1 2017	16,648,000	14,629,000	20,470,000	-	335,000	-	52,082,000	3,086,000	55,169,000	
0 2018	17,371,000	15,375,600	20,665,300	-	327,400	(1,028,800)	52,710,500	3,627,900	56,338,400	
1 2019	17,403,000	15,575,900	20,926,800	-	324,500	(1,584,500)	52,645,700	3,613,800	56,259,500	
2 2020	17,461,000	15,822,700	21,397,200	-	322,400	(2,634,400)	52,368,900	3,584,100	55,953,000	
3 2021	17,730,500	16,061,100	22,011,700	-	321,000	(3,685,900)	52,438,400	3,577,900	56,016,300	
4 2022	18,048,900	16,340,400	22,630,800	-	320,300	(4,735,900)	52,604,500	3,580,200	56,184,700	
5 2023	18,433,900	16,654,500	23,269,100	-	319,600	(5,785,200)	52,891,900	3,592,800	56,484,700	
6 2024	18,854,000	16,949,000	23,652,800	-	319,000	(6,838,200)	52,936,600	3,600,000	56,536,600	
7 2025	19,283,000	17,236,400	24,099,200	-	318,200	(7,894,400)	53,042,400	3,608,500	56,650,900	
8 2026	19,773,000	17,531,600	24,608,800	-	317,500	(8,953,500)	53,277,400	3,624,800	56,902,200	
9 2027	20,302,900	17,850,600	25,079,500	-	316,900	(10,015,400)	53,534,500	3,646,000	57,180,500	
10 2028	20,511,600	17,878,400	25,179,700	-	316,300	(10,015,200)	53,870,800	3,670,900	57,541,700	

^a Transportation includes railroads & railways.

^b Other includes street & highway lighting, public authorities and interdepartmental sales.

^c Years 0 through 10 are calculated by applying a loss factor to each rate class then summing the results.

^d Incremental to 2017.

PUCO FORM FE - D2: System Service Area Energy Consumption Forecast
(Megawatt Hours/Year)^c

FirstEnergy System

	(1)	(2)	(3)	(4)	(5a)	(5b)	(6) (1+2+3+4+5a+5b)	(7)	(8) (6 + 7)
Year	Residential	Commercial	Industrial	Transportation ^a	Other ^b	Energy Efficiency & Demand Response ^d	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load
-5 2013	18,983,000	16,570,000	22,223,000	-	337,000	-	58,113,000	4,005,000	62,118,000
-4 2014	19,168,000	16,651,000	22,760,000	-	341,000	-	58,920,000	4,019,000	62,939,000
-3 2015	18,884,000	16,506,000	22,044,000	-	340,000	-	57,774,000	3,829,000	61,603,000
-2 2016	19,344,000	16,778,000	21,844,000	-	337,000	-	58,303,000	3,694,000	61,997,000
-1 2017	18,239,000	15,931,000	22,208,000	-	338,000	-	56,716,000	3,276,000	59,993,000
0 2018	19,011,000	16,692,200	22,367,600	-	333,600	(1,028,800)	57,375,700	3,951,300	61,327,000
1 2019	19,020,200	16,887,900	22,640,300	-	330,700	(1,584,500)	57,294,600	3,935,200	61,229,800
2 2020	19,064,700	17,126,100	23,123,500	-	328,600	(2,634,400)	57,008,600	3,904,000	60,912,600
3 2021	19,325,200	17,355,700	23,768,500	-	327,200	(3,685,900)	57,090,800	3,897,200	60,988,000
4 2022	19,647,300	17,633,700	24,424,500	-	326,500	(4,735,900)	57,296,200	3,901,000	61,197,200
5 2023	20,038,800	17,947,500	25,105,600	-	325,800	(5,785,200)	57,632,600	3,915,700	61,548,300
6 2024	20,465,100	18,242,300	25,528,300	-	325,200	(6,838,200)	57,722,700	3,924,800	61,647,500
7 2025	20,901,200	18,526,700	26,016,800	-	324,400	(7,894,400)	57,874,800	3,935,100	61,809,900
8 2026	21,399,500	18,822,900	26,570,000	-	323,700	(8,953,500)	58,162,600	3,953,800	62,116,400
9 2027	21,937,800	19,139,900	27,083,500	-	323,100	(10,015,400)	58,469,000	3,977,100	62,446,100
10 2028	22,155,600	19,168,300	27,231,600	-	322,500	(10,015,200)	58,862,900	4,004,500	62,867,400

^a Transportation includes railroads & railways.^b Other includes street & highway lighting, public authorities and interdepartmental sales.^c These data include energy for Pennsylvania Power as well as the 3 Ohio companies.^d Incremental to 2017.

Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

The Ohio Edison Company

		Native Load				Internal Load ^b			
		Energy Efficiency & Demand Response ^c		Net	Winter ^a	Energy Efficiency & Demand Response		Net	Winter
Year		Summer		Summer		Summer		Summer	
-5	2013	5,189	-	5,189	4,447	5,242	-	5,242	4,500
-4	2014	4,858	-	4,858	4,349	4,884	-	4,884	4,375
-3	2015	4,979	-	4,979	3,931	5,025	-	5,025	3,977
-2	2016	5,126	-	5,126	3,842	5,280	-	5,280	3,996
-1	2017	4,466	-	4,466	3,741	4,754	-	4,754	4,029
0	2018	4,782	(49)	4,733	3,735	5,070	(49)	5,021	4,023
1	2019	4,886	(131)	4,755	3,703	5,174	(131)	5,043	3,991
2	2020	4,914	(168)	4,745	3,699	5,202	(168)	5,033	3,987
3	2021	4,956	(208)	4,748	3,699	5,244	(208)	5,036	3,987
4	2022	4,958	(209)	4,749	3,706	5,246	(209)	5,037	3,994
5	2023	4,965	(209)	4,755	3,718	5,253	(209)	5,043	4,006
6	2024	4,971	(210)	4,761	3,724	5,259	(210)	5,049	4,012
7	2025	4,976	(210)	4,766	3,734	5,264	(210)	5,054	4,022
8	2026	4,982	(210)	4,773	3,747	5,270	(210)	5,061	4,035
9	2027	4,991	(210)	4,781	3,765	5,279	(210)	5,069	4,053
10	2028	5,002	(210)	4,791	3,784	5,290	(210)	5,079	4,072

^a Winter load reference is the peak loads which follows the summer peak load.^b Internal Load equals Native plus Interruptible.^c Incremental to 2017.

Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

The Cleveland Electric Illuminating Company

		Native Load				Internal Load ^b			
		<u>Energy Efficiency & Demand Response^c</u>		<u>Net</u>		<u>Energy Efficiency & Demand Response</u>		<u>Net</u>	
Year		<u>Summer</u>	<u>Response^c</u>	<u>Summer</u>	<u>Winter^a</u>	<u>Summer</u>	<u>Response</u>	<u>Summer</u>	<u>Winter</u>
-5	2013	4,011	-	4,011	3,214	4,025	-	4,025	3,228
-4	2014	3,827	-	3,827	3,126	3,838	-	3,838	3,137
-3	2015	3,733	-	3,733	2,893	3,801	-	3,801	2,961
-2	2016	3,886	-	3,886	2,974	3,982	-	3,982	3,070
-1	2017	3,801	-	3,801	2,831	3,991	-	3,991	3,021
0	2018	3,678	(34)	3,644	2,878	3,868	(34)	3,834	3,068
1	2019	3,709	(94)	3,615	2,858	3,899	(94)	3,805	3,048
2	2020	3,740	(123)	3,617	2,843	3,930	(123)	3,807	3,033
3	2021	3,765	(152)	3,613	2,836	3,955	(152)	3,803	3,026
4	2022	3,767	(153)	3,614	2,841	3,957	(153)	3,804	3,031
5	2023	3,770	(153)	3,617	2,844	3,960	(153)	3,807	3,034
6	2024	3,771	(153)	3,618	2,845	3,961	(153)	3,808	3,035
7	2025	3,773	(153)	3,620	2,849	3,963	(153)	3,810	3,039
8	2026	3,776	(153)	3,622	2,856	3,966	(153)	3,812	3,046
9	2027	3,780	(153)	3,626	2,866	3,970	(153)	3,816	3,056
10	2028	3,784	(153)	3,631	2,877	3,974	(153)	3,821	3,067

^a Winter load reference is the peak loads which follows the summer peak load.^b Internal Load equals Native plus Interruptible.^c Incremental to 2017.

Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

The Toledo Edison Company

		Native Load				Internal Load ^b			
		<u>Energy</u>		<u>Energy</u>		<u>Energy</u>		<u>Energy</u>	
		<u>Efficiency &</u>		<u>Efficiency &</u>		<u>Efficiency &</u>		<u>Efficiency &</u>	
		<u>Demand</u>		<u>Demand</u>		<u>Demand</u>		<u>Demand</u>	
		<u>Response^c</u>		<u>Net</u>		<u>Response</u>		<u>Net</u>	
<u>Year</u>	<u>Summer</u>	<u>Response^c</u>	<u>Summer</u>	<u>Winter^a</u>	<u>Summer</u>	<u>Response</u>	<u>Summer</u>	<u>Winter</u>	
-5	2013	1,987	-	1,987	1,531	2,121	-	2,121	1,665
-4	2014	1,986	-	1,986	1,596	2,080	-	2,080	1,690
-3	2015	1,891	-	1,891	1,516	2,059	-	2,059	1,684
-2	2016	2,143	-	2,143	1,570	2,311	-	2,311	1,738
-1	2017	1,927	-	1,927	1,480	2,128	-	2,128	1,681
0	2018	1,878	(17)	1,861	1,499	2,079	(17)	2,062	1,700
1	2019	1,889	(48)	1,841	1,510	2,090	(48)	2,042	1,711
2	2020	1,901	(64)	1,837	1,525	2,102	(64)	2,038	1,726
3	2021	1,926	(79)	1,846	1,553	2,127	(79)	2,047	1,754
4	2022	1,954	(80)	1,875	1,514	2,155	(80)	2,076	1,715
5	2023	1,972	(80)	1,892	1,515	2,173	(80)	2,093	1,716
6	2024	1,958	(80)	1,878	1,509	2,159	(80)	2,079	1,710
7	2025	1,962	(80)	1,882	1,524	2,163	(80)	2,083	1,725
8	2026	1,979	(80)	1,899	1,536	2,180	(80)	2,100	1,737
9	2027	1,989	(81)	1,909	1,550	2,190	(81)	2,110	1,751
10	2028	2,007	(81)	1,927	1,567	2,208	(81)	2,128	1,768

^a Winter load reference is the peak loads which follows the summer peak load.^b Internal Load equals Native plus Interruptible.^c Incremental to 2017.

Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

Total Ohio

		Native Load				Internal Load ^b			
		<u>Energy Efficiency & Demand Response^c</u>		<u>Net</u>		<u>Energy Efficiency & Demand Response</u>			
Year	<u>Summer</u>		<u>Summer</u>	<u>Winter^a</u>	<u>Summer</u>		<u>Summer</u>	<u>Winter</u>	
-5 2013	10,961	-	10,961	9,179	11,162	-	11,162	9,380	
-4 2014	10,457	-	10,457	9,070	10,588	-	10,588	9,201	
-3 2015	10,245	-	10,245	8,339	10,527	-	10,527	8,621	
-2 2016	10,459	-	10,459	8,350	10,877	-	10,877	8,768	
-1 2017	9,554	-	9,554	7,989	10,233	-	10,233	8,668	
0 2018	10,189	(100)	10,089	7,995	10,868	(100)	10,768	8,674	
1 2019	10,355	(273)	10,082	7,963	11,034	(273)	10,761	8,642	
2 2020	10,424	(353)	10,071	7,967	11,103	(353)	10,750	8,646	
3 2021	10,517	(438)	10,079	7,991	11,196	(438)	10,758	8,670	
4 2022	10,550	(440)	10,110	7,967	11,229	(440)	10,789	8,646	
5 2023	10,575	(441)	10,135	7,983	11,254	(441)	10,814	8,662	
6 2024	10,569	(441)	10,128	7,984	11,248	(441)	10,807	8,663	
7 2025	10,580	(442)	10,139	8,014	11,259	(442)	10,818	8,693	
8 2026	10,606	(442)	10,164	8,047	11,285	(442)	10,843	8,726	
9 2027	10,628	(442)	10,186	8,089	11,307	(442)	10,865	8,768	
10 2028	10,661	(442)	10,219	8,135	11,340	(442)	10,898	8,814	

^a Winter load reference is the peak loads which follows the summer peak load.

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2017.

4901:5-5-05(B)(2)(b)

PUCO Form FE-D4: Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

FirstEnergy System

		Native Load		Internal Load	
	<u>Year</u>	<u>Summer</u>	<u>Winter</u>	<u>Summer</u>	<u>Winter</u>
-5	2013	11,870	10,102	12,071	10,303
-4	2014	11,275	9,884	11,406	10,015
-3	2015	11,080	9,120	11,362	9,402
-2	2016	11,333	9,194	11,751	9,612
-1	2017	10,406	8,833	11,085	9,512
0	2018	10,997	8,829	11,676	9,508
1	2019	10,987	8,795	11,666	9,474
2	2020	10,971	8,798	11,650	9,477
3	2021	10,980	8,828	11,659	9,507
4	2022	11,018	8,811	11,697	9,490
5	2023	11,051	8,834	11,730	9,513
6	2024	11,052	8,843	11,731	9,522
7	2025	11,071	8,880	11,750	9,559
8	2026	11,107	8,921	11,786	9,600
9	2027	11,138	8,971	11,817	9,650
10	2028	11,182	9,026	11,861	9,705

^a Winter load reference is to peak loads which follow the summer peak load.

4901:5-5-05(B)(3)(a)

PUCO Form FE-D5:

Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year)

Ohio Edison Company

	Monthly Net Energy For Load Forecast	
Year 0-2018	<u>Ohio Service Area</u>	<u>System</u> ^a
January	2,344,000	5,602,000
February	2,143,000	5,092,000
March	2,126,000	5,151,000
April	1,864,000	4,551,000
May	1,959,000	4,763,000
June	2,122,000	5,144,000
July	2,316,000	5,634,000
August	2,280,000	5,546,000
September	1,996,000	4,860,000
October	1,986,000	4,796,000
November	2,034,000	4,815,000
December	2,240,000	5,375,000
Year 1-2019		
January	2,338,000	5,593,000
February	2,138,000	5,073,000
March	2,136,000	5,146,000
April	1,873,000	4,553,000
May	1,966,000	4,750,000
June	2,128,000	5,133,000
July	2,318,000	5,634,000
August	2,281,000	5,546,000
September	1,995,000	4,858,000
October	1,983,000	4,792,000
November	2,029,000	4,804,000
December	2,221,000	5,347,000

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)

PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year)

The Cleveland Electric Illuminating Company

	Monthly Net Energy For Load Forecast	
Year 0-2018	<u>Ohio Service Area</u>	<u>System</u> ^a
January	1,808,000	5,602,000
February	1,621,000	5,092,000
March	1,689,000	5,151,000
April	1,469,000	4,551,000
May	1,553,000	4,763,000
June	1,678,000	5,144,000
July	1,839,000	5,634,000
August	1,804,000	5,546,000
September	1,575,000	4,860,000
October	1,540,000	4,796,000
November	1,513,000	4,815,000
December	1,689,000	5,375,000
Year 1-2019		
January	1,795,000	5,593,000
February	1,600,000	5,073,000
March	1,673,000	5,146,000
April	1,464,000	4,553,000
May	1,531,000	4,750,000
June	1,660,000	5,133,000
July	1,835,000	5,634,000
August	1,802,000	5,546,000
September	1,572,000	4,858,000
October	1,535,000	4,792,000
November	1,507,000	4,804,000
December	1,681,000	5,347,000

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)

PUCO Form FE-D5: Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year)

The Toledo Edison Company

	Monthly Net Energy For Load Forecast	
Year 0-2018	<u>Ohio Service Area</u>	<u>System</u> ^a
January	977,000	5,602,000
February	897,000	5,092,000
March	903,000	5,151,000
April	834,000	4,551,000
May	865,000	4,763,000
June	943,000	5,144,000
July	1,054,000	5,634,000
August	1,037,000	5,546,000
September	915,000	4,860,000
October	887,000	4,796,000
November	866,000	4,815,000
December	974,000	5,375,000
Year 1-2019		
January	988,000	5,593,000
February	904,000	5,073,000
March	906,000	5,146,000
April	835,000	4,553,000
May	868,000	4,750,000
June	946,000	5,133,000
July	1,057,000	5,634,000
August	1,041,000	5,546,000
September	918,000	4,858,000
October	891,000	4,792,000
November	869,000	4,804,000
December	975,000	5,347,000

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901:5-5-05(B)(3)(a)

PUCO Form FE-D5:

Monthly Net Energy For Load Forecast
(Megawatt-Hours Per Year)

Total Ohio

	Monthly Net Energy For Load Forecast	
Year 0-2018	<u>Ohio Service Area</u>	<u>System^a</u>
January	5,129,000	5,602,000
February	4,661,000	5,092,000
March	4,718,000	5,151,000
April	4,167,000	4,551,000
May	4,377,000	4,763,000
June	4,743,000	5,144,000
July	5,209,000	5,634,000
August	5,121,000	5,546,000
September	4,486,000	4,860,000
October	4,413,000	4,796,000
November	4,413,000	4,815,000
December	4,903,000	5,375,000
Year 1-2019		
January	5,121,000	5,593,000
February	4,642,000	5,073,000
March	4,715,000	5,146,000
April	4,172,000	4,553,000
May	4,365,000	4,750,000
June	4,734,000	5,133,000
July	5,210,000	5,634,000
August	5,124,000	5,546,000
September	4,485,000	4,858,000
October	4,409,000	4,792,000
November	4,405,000	4,804,000
December	4,877,000	5,347,000

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

Monthly Peak Load Forecast
(Megawatts) ^a

Ohio Edison Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast ^c	
	<u>Ohio Service Area</u>	<u>Demand Response^c</u>	<u>Net</u>	<u>System^b</u>	<u>Ohio Service Area</u>	<u>System^b</u>
Year 0-2018						
January	3,790	(49)	3,741	8,833	4,029	9,512
February	3,657	(49)	3,608	8,515	3,896	9,194
March	3,436	(49)	3,387	8,042	3,675	8,721
April	3,117	(49)	3,068	7,570	3,356	8,249
May	3,771	(49)	3,722	8,917	4,010	9,596
June	4,531	(49)	4,482	10,578	4,770	11,257
July	4,782	(49)	4,733	10,997	5,021	11,676
August	4,626	(49)	4,577	10,765	4,865	11,444
September	4,315	(49)	4,266	10,249	4,554	10,928
October	3,162	(49)	3,113	7,591	3,401	8,270
November	3,316	(49)	3,267	7,765	3,555	8,444
December	3,621	(49)	3,572	8,649	3,860	9,328
Year 1-2019						
January	3,866	(131)	3,735	8,829	4,023	9,508
February	3,734	(131)	3,603	8,468	3,891	9,147
March	3,506	(131)	3,375	8,008	3,663	8,687
April	3,229	(131)	3,098	7,593	3,386	8,272
May	3,890	(131)	3,759	8,894	4,047	9,573
June	4,643	(131)	4,512	10,613	4,800	11,292
July	4,886	(131)	4,755	10,987	5,043	11,666
August	4,725	(131)	4,594	10,713	4,882	11,392
September	4,410	(131)	4,279	10,185	4,567	10,864
October	3,253	(131)	3,122	7,616	3,410	8,295
November	3,392	(131)	3,261	7,759	3,549	8,438
December	3,681	(131)	3,550	8,610	3,838	9,289

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2017.

Monthly Peak Load Forecast
(Megawatts)^a

The Cleveland Electric Illuminating Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast ^c	
	<u>Ohio Service Area</u>	<u>Demand Response^c</u>	<u>Net</u>	<u>System^b</u>	<u>Ohio Service Area</u>	<u>System^b</u>
Year 0-2018						
January	2,865	(34)	2,831	8,833	3,021	9,512
February	2,815	(34)	2,781	8,515	2,971	9,194
March	2,706	(34)	2,672	8,042	2,862	8,721
April	2,712	(34)	2,678	7,570	2,868	8,249
May	3,017	(34)	2,983	8,917	3,173	9,596
June	3,552	(34)	3,518	10,578	3,708	11,257
July	3,678	(34)	3,644	10,997	3,834	11,676
August	3,661	(34)	3,627	10,765	3,817	11,444
September	3,522	(34)	3,488	10,249	3,678	10,928
October	2,637	(34)	2,603	7,591	2,793	8,270
November	2,551	(34)	2,517	7,765	2,707	8,444
December	2,912	(34)	2,878	8,649	3,068	9,328
Year 1-2019						
January	2,919	(94)	2,825	8,829	3,015	9,508
February	2,822	(94)	2,728	8,468	2,918	9,147
March	2,745	(94)	2,651	8,008	2,841	8,687
April	2,769	(94)	2,675	7,593	2,865	8,272
May	3,054	(94)	2,960	8,894	3,150	9,573
June	3,662	(94)	3,568	10,613	3,758	11,292
July	3,709	(94)	3,615	10,987	3,805	11,666
August	3,650	(94)	3,556	10,713	3,746	11,392
September	3,531	(94)	3,437	10,185	3,627	10,864
October	2,694	(94)	2,600	7,616	2,790	8,295
November	2,607	(94)	2,513	7,759	2,703	8,438
December	2,952	(94)	2,858	8,610	3,048	9,289

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2017.

Monthly Peak Load Forecast
(Megawatts) ^a

The Toledo Edison Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast ^c	
	<u>Ohio Service Area</u>	<u>Demand Response^c</u>	<u>Net</u>	<u>System^b</u>	<u>Ohio Service Area</u>	<u>System^b</u>
Year 0-2018						
January	1,497	(17)	1,480	8,833	1,681	9,512
February	1,422	(17)	1,405	8,515	1,606	9,194
March	1,339	(17)	1,322	8,042	1,523	8,721
April	1,251	(17)	1,234	7,570	1,435	8,249
May	1,539	(17)	1,522	8,917	1,723	9,596
June	1,878	(17)	1,861	10,578	2,062	11,257
July	1,858	(17)	1,841	10,997	2,042	11,676
August	1,831	(17)	1,814	10,765	2,015	11,444
September	1,782	(17)	1,765	10,249	1,966	10,928
October	1,358	(17)	1,341	7,591	1,542	8,270
November	1,324	(17)	1,307	7,765	1,508	8,444
December	1,457	(17)	1,440	8,649	1,641	9,328
Year 1-2019						
January	1,547	(48)	1,499	8,829	1,700	9,508
February	1,465	(48)	1,417	8,468	1,618	9,147
March	1,375	(48)	1,327	8,008	1,528	8,687
April	1,284	(48)	1,236	7,593	1,437	8,272
May	1,537	(48)	1,489	8,894	1,690	9,573
June	1,867	(48)	1,819	10,613	2,020	11,292
July	1,889	(48)	1,841	10,987	2,042	11,666
August	1,869	(48)	1,821	10,713	2,022	11,392
September	1,790	(48)	1,742	10,185	1,943	10,864
October	1,410	(48)	1,362	7,616	1,563	8,295
November	1,361	(48)	1,313	7,759	1,514	8,438
December	1,496	(48)	1,448	8,610	1,649	9,289

^a These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2017.

SECTION III

RESOURCE FORECAST FORMS

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)

Ohio Edison Company

Current Calendar Year: 2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases ^a	4,390	4,246	4,004	3,657	4,370	5,201	5,475	5,305	4,966	3,709	3,877	4,210
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	4,390	4,246	4,004	3,657	4,370	5,201	5,475	5,305	4,966	3,709	3,877	4,210
Native Load	3,741	3,608	3,387	3,068	3,722	4,482	4,733	4,577	4,266	3,113	3,267	3,572
Available Reserve ^c	649	638	618	589	648	720	742	728	700	596	610	637
Internal Load ^d	4,029	3,896	3,675	3,356	4,010	4,770	5,021	4,865	4,554	3,401	3,555	3,860
Reserve ^{c,e}	361	350	330	301	360	432	454	440	412	308	322	349

Next Calendar Year: 2019												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases ^a	4,387	4,243	3,994	3,692	4,413	5,230	5,495	5,320	4,976	3,716	3,866	4,182
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	4,387	4,243	3,994	3,692	4,413	5,230	5,495	5,320	4,976	3,716	3,866	4,182
Native Load	3,735	3,603	3,375	3,098	3,759	4,512	4,755	4,594	4,279	3,122	3,261	3,550
Available Reserve ^c	652	640	619	594	654	718	740	725	697	594	606	632
Internal Load ^d	4,023	3,891	3,663	3,386	4,047	4,800	5,043	4,882	4,567	3,410	3,549	3,838
Reserve ^{c,e}	364	352	331	306	366	430	452	437	409	306	318	344

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)

The Cleveland Electric Illuminating Company

Current Calendar Year -2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	3,292	3,237	3,119	3,125	3,458	4,044	4,181	4,163	4,011	3,046	2,952	3,345
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	3,292	3,237	3,119	3,125	3,458	4,044	4,181	4,163	4,011	3,046	2,952	3,345
Native Load	2,831	2,781	2,672	2,678	2,983	3,518	3,644	3,627	3,488	2,603	2,517	2,878
Available Reserve ^c	461	456	447	447	475	526	537	535	523	443	435	468
Internal Load ^d	3,021	2,971	2,862	2,868	3,173	3,708	3,834	3,817	3,678	2,793	2,707	3,068
Reserve ^{c,e}	271	266	257	257	285	336	347	345	333	253	245	278
Next Calendar Year -2019												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	3,287	3,182	3,098	3,124	3,435	4,095	4,146	4,082	3,952	3,040	2,945	3,321
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	3,287	3,182	3,098	3,124	3,435	4,095	4,146	4,082	3,952	3,040	2,945	3,321
Native Load	2,825	2,728	2,651	2,675	2,960	3,568	3,615	3,556	3,437	2,600	2,513	2,858
Available Reserve ^c	463	454	447	449	475	527	531	526	515	440	432	463
Internal Load ^d	3,015	2,918	2,841	2,865	3,150	3,758	3,805	3,746	3,627	2,790	2,703	3,048
Reserve ^{c,e}	273	264	257	259	285	337	341	336	325	250	242	273

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Monthly Forecast of Electric Utility's Ohio Service Area Peak Load and Resources
Dedicated to Meet Ohio Service Area Peak Load
(Megawatts)

The Toledo Edison Company

Current Calendar Year -2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Purchases ^a	1,832	1,750	1,659	1,564	1,878	2,248	2,226	2,197	2,144	1,682	1,644	1,790
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	1,832	1,750	1,659	1,564	1,878	2,248	2,226	2,197	2,144	1,682	1,644	1,790
Native Load	1,480	1,405	1,322	1,234	1,522	1,861	1,841	1,814	1,765	1,341	1,307	1,440
Available Reserve ^c	352	345	338	330	356	388	386	383	379	341	337	350
Internal Load ^d	1,681	1,606	1,523	1,435	1,723	2,062	2,042	2,015	1,966	1,542	1,508	1,641
Reserve ^{c,e}	151	144	137	129	155	187	185	182	178	140	136	149
Next Calendar Year -2019												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	1,853	1,765	1,666	1,567	1,843	2,201	2,225	2,203	2,117	1,703	1,649	1,797
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	1,853	1,765	1,666	1,567	1,843	2,201	2,225	2,203	2,117	1,703	1,649	1,797
Native Load	1,499	1,417	1,327	1,236	1,489	1,819	1,841	1,821	1,742	1,362	1,313	1,448
Available Reserve ^c	355	347	339	331	354	382	384	382	375	341	337	349
Internal Load ^d	1,700	1,618	1,528	1,437	1,690	2,020	2,042	2,022	1,943	1,563	1,514	1,649
Reserve ^{c,e}	154	146	138	130	153	181	183	181	174	140	136	148

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Monthly Forecast of System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts)

FirstEnergy System ^f

Current Calendar Year: 2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases ^a	10,365	10,019	9,503	8,988	10,456	12,276	12,733	12,479	11,917	9,018	9,209	10,172
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	10,365	10,019	9,503	8,988	10,456	12,276	12,733	12,479	11,917	9,018	9,209	10,172
Native Load	8,833	8,515	8,042	7,570	8,917	10,578	10,997	10,765	10,249	7,591	7,765	8,649
Available Reserve ^c	1,532	1,504	1,461	1,419	1,540	1,698	1,736	1,715	1,668	1,427	1,443	1,523
Internal Load ^d	9,512	9,194	8,721	8,249	9,596	11,257	11,676	11,444	10,928	8,270	8,444	9,328
Reserve ^{c,e}	853	825	782	740	861	1,019	1,057	1,036	989	748	764	844
Next Calendar Year: 2019												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability	0	0	0	0	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0	0	0	0	0
Purchases ^a	10,369	9,975	9,473	9,020	10,439	12,303	12,711	12,413	11,837	9,038	9,195	10,122
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	10,369	9,975	9,473	9,020	10,439	12,303	12,711	12,413	11,837	9,038	9,195	10,122
Native Load	8,829	8,468	8,008	7,593	8,894	10,613	10,987	10,713	10,185	7,616	7,759	8,610
Available Reserve ^c	1,539	1,507	1,465	1,428	1,545	1,691	1,724	1,700	1,652	1,422	1,435	1,511
Internal Load ^d	9,508	9,147	8,687	8,272	9,573	11,292	11,666	11,392	10,864	8,295	8,438	9,289
Reserve ^{c,e}	860	828	786	749	866	1,012	1,045	1,021	973	743	756	832

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies' native load and internal load are served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor do they intend to become, an LSE, and therefore do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

^f These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

4901-5-5-06(A)(6)(c)

PUCO Form FE-R3:

Summary of Existing Electric Generation Facilities for the System ^a
(as of 12/31/2017)

Station Name & Location	Unit No.	Type of Units	Date of First On-Line Service	Expected Retirement Date	Generation Summer (MW)	Generation Winter (MW)	Environmental Protection Measures
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a Not applicable

4901-5-5-06(A)(6)(d)(i)

PUCO Form FE-R4: Actual Generating Capability Dedicated to Meet Ohio Peak Load ^a
(as of 12/31/2017)

Year/Season	Unit Name	Unit Designation Description	Seasonal Total
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^a Not applicable

4901-5-5-06(A)(6)(d)(ii)

PUCO Form FE-R5: Projected Generating Capability Changes To Meet Future Ohio Peak Load ^a

Year/Season	Unit Name	Description	Capability Changes	Seasonal Total
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^a The companies do not own or operate generation, nor intend to, for the duration of this forecast.

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

Ohio Edison Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	5,708	5,336	5,483	5,783	5,181	5,475	5,495	5,485
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	5,708	5,336	5,483	5,783	5,181	5,475	5,495	5,485
Native Load	5,189	4,858	4,979	5,126	4,466	4,733	4,755	4,745
Available Reserve ^c	519	478	505	657	714	742	740	740
Internal Load ^d	5,242	4,884	5,025	5,280	4,754	5,021	5,043	5,033
Reserve ^{c e}	466	452	459	503	426	454	452	452
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	5,488	5,490	5,496	5,502	5,508	5,515	5,524	5,536
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	5,488	5,490	5,496	5,502	5,508	5,515	5,524	5,536
Native Load	4,748	4,749	4,755	4,761	4,766	4,773	4,781	4,791
Available Reserve ^c	740	740	741	741	742	742	743	744
Internal Load ^d	5,036	5,037	5,043	5,049	5,054	5,061	5,069	5,079
Reserve ^{c e}	452	452	453	453	454	454	455	456

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

The Cleveland Electric Illuminating Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,383	4,194	4,148	4,361	4,349	4,181	4,146	4,149
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,383	4,194	4,148	4,361	4,349	4,181	4,146	4,149
Native Load	4,011	3,827	3,733	3,886	3,801	3,644	3,615	3,617
Available Reserve ^c	372	366	415	475	548	537	531	532
Internal Load ^d	4,025	3,838	3,801	3,982	3,991	3,834	3,805	3,807
Reserve ^{c e}	358	355	347	379	358	347	341	342
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	4,144	4,146	4,149	4,150	4,152	4,155	4,159	4,164
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,144	4,146	4,149	4,150	4,152	4,155	4,159	4,164
Native Load	3,613	3,614	3,617	3,618	3,620	3,622	3,626	3,631
Available Reserve ^c	532	532	532	532	532	532	533	533
Internal Load ^d	3,803	3,804	3,807	3,808	3,810	3,812	3,816	3,821
Reserve ^{c e}	342	342	342	342	342	342	343	343

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Summer Season

The Toledo Edison Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	2,309	2,273	2,247	2,531	2,319	2,248	2,225	2,221
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	2,309	2,273	2,247	2,531	2,319	2,248	2,225	2,221
Native Load	1,987	1,986	1,891	2,143	1,927	1,861	1,841	1,837
Available Reserve ^c	323	287	356	388	392	388	384	384
Internal Load ^d	2,121	2,080	2,059	2,311	2,128	2,062	2,042	2,038
Reserve ^{c e}	189	193	188	220	191	187	183	183
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	2,231	2,262	2,281	2,265	2,270	2,288	2,299	2,319
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	2,231	2,262	2,281	2,265	2,270	2,288	2,299	2,319
Native Load	1,846	1,875	1,892	1,878	1,882	1,899	1,909	1,927
Available Reserve ^c	385	387	389	388	388	390	390	392
Internal Load ^d	2,047	2,076	2,093	2,079	2,083	2,100	2,110	2,128
Reserve ^{c e}	184	186	188	187	187	189	189	191

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts) - Summer Season

FirstEnergy System ^f

	(-5) 2013	(-4) 2014	(-3) 2015	(-2) 2016	(-1) 2017	(0) 2018	(1) 2019	(2) 2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	13,144	12,462	12,400	12,870	12,079	12,733	12,711	12,696
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	13,144	12,462	12,400	12,870	12,079	12,733	12,711	12,696
Native Load	11,870	11,275	11,080	11,333	10,406	10,997	10,987	10,971
Available Reserve ^c	1,274	1,187	1,319	1,537	1,673	1,736	1,724	1,725
Internal Load ^d	12,071	11,406	11,362	11,751	11,085	11,676	11,666	11,650
Reserve ^{c e}	1,073	1,056	1,037	1,119	994	1,057	1,045	1,046

	(3) 2021	(4) 2022	(5) 2023	(6) 2024	(7) 2025	(8) 2026	(9) 2027	(10) 2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	12,706	12,748	12,784	12,785	12,806	12,844	12,878	12,926
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	12,706	12,748	12,784	12,785	12,806	12,844	12,878	12,926
Native Load	10,980	11,018	11,051	11,052	11,071	11,107	11,138	11,182
Available Reserve ^c	1,726	1,729	1,732	1,732	1,734	1,737	1,740	1,744
Internal Load ^d	11,659	11,697	11,730	11,731	11,750	11,786	11,817	11,861
Reserve ^{c e}	1,047	1,050	1,053	1,053	1,055	1,058	1,061	1,065

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

^f These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Winter Season

Ohio Edison Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,900	4,764	4,330	4,351	4,390	4,384	4,353	4,344
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,900	4,764	4,330	4,351	4,390	4,384	4,353	4,344
Native Load	4,447	4,349	3,931	3,842	3,741	3,735	3,703	3,699
Available Reserve ^c	453	415	400	509	649	649	649	645
Internal Load ^d	4,500	4,375	3,977	3,996	4,029	4,023	3,991	3,987
Reserve ^{c,e}	400	389	354	355	361	361	361	357

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,345	4,353	4,365	4,372	4,383	4,397	4,417	4,437
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,345	4,353	4,365	4,372	4,383	4,397	4,417	4,437
Native Load	3,699	3,706	3,718	3,724	3,734	3,747	3,765	3,784
Available Reserve ^c	646	647	648	648	649	650	652	654
Internal Load ^d	3,987	3,994	4,006	4,012	4,022	4,035	4,053	4,072
Reserve ^{c,e}	358	359	360	360	361	362	364	366

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Winter Season

The Cleveland Electric Illuminating Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	3,515	3,416	3,224	3,343	3,290	3,343	3,324	3,305
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	3,515	3,416	3,224	3,343	3,290	3,343	3,324	3,305
Native Load	3,214	3,126	2,893	2,974	2,831	2,878	2,858	2,843
Available Reserve ^c	301	290	331	369	459	465	466	462
Internal Load ^d	3,228	3,137	2,961	3,070	3,021	3,068	3,048	3,033
Reserve ^{c,e}	287	279	263	273	269	275	276	272
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	3,298	3,303	3,307	3,307	3,311	3,319	3,330	3,342
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	3,298	3,303	3,307	3,307	3,311	3,319	3,330	3,342
Native Load	2,836	2,841	2,844	2,845	2,849	2,856	2,866	2,877
Available Reserve ^c	462	462	462	463	463	464	464	465
Internal Load ^d	3,026	3,031	3,034	3,035	3,039	3,046	3,056	3,067
Reserve ^{c,e}	272	272	272	273	273	274	274	275

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Electric Utility's Actual and Forecast Ohio Peak Load and Resources
Dedicated to Meet Electric Utility's Ohio Peak Load
(Megawatts) - Winter Season

The Toledo Edison Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	1,813	1,840	1,833	1,893	1,830	1,852	1,866	1,880
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	1,813	1,840	1,833	1,893	1,830	1,852	1,866	1,880
Native Load	1,531	1,596	1,516	1,570	1,480	1,499	1,510	1,525
Available Reserve ^c	282	244	318	323	350	353	356	356
Internal Load ^d	1,665	1,690	1,684	1,738	1,681	1,700	1,711	1,726
Reserve ^{c,e}	148	150	150	155	149	152	155	155
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	1,912	1,869	1,870	1,864	1,880	1,893	1,909	1,927
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	1,912	1,869	1,870	1,864	1,880	1,893	1,909	1,927
Native Load	1,553	1,514	1,515	1,509	1,524	1,536	1,550	1,567
Available Reserve ^c	359	355	355	355	356	357	358	360
Internal Load ^d	1,754	1,715	1,716	1,710	1,725	1,737	1,751	1,768
Reserve ^{c,e}	158	154	154	154	155	156	157	159

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.

^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.

^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.

^d Internal Load equals Native plus Interruptible.

^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".

Actual and Forecast System Peak Load and Resources Dedicated to Meet System Peak Load
(Megawatts) - Winter SeasonFirstEnergy System ^f

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2013	2014	2015	2016	2017	2018	2019	2020
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	11,219	10,905	10,238	10,467	10,365	10,361	10,331	10,326
Sales								
Available Capability ^b	11,219	10,905	10,238	10,467	10,365	10,361	10,331	10,326
Native Load	10,102	9,884	9,120	9,194	8,833	8,829	8,795	8,798
Available Reserve ^c	1,117	1,021	1,118	1,273	1,532	1,532	1,536	1,528
Internal Load ^d	10,303	10,015	9,402	9,612	9,512	9,508	9,474	9,477
Reserve ^{c,e}	916	890	836	855	853	853	857	849
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2021	2022	2023	2024	2025	2026	2027	2028
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	10,361	10,342	10,368	10,377	10,418	10,462	10,517	10,577
Sales								
Available Capability ^b	10,361	10,342	10,368	10,377	10,418	10,462	10,517	10,577
Native Load	8,828	8,811	8,834	8,843	8,880	8,921	8,971	9,026
Available Reserve ^c	1,533	1,531	1,533	1,534	1,537	1,541	1,546	1,551
Internal Load ^d	9,507	9,490	9,513	9,522	9,559	9,600	9,650	9,705
Reserve ^{c,e}	854	852	854	855	858	862	867	872

^a Capacity and energy obligations are served through Certified Retail Electric Suppliers or through power supply contracts.^b Available Capability is equal to Net Seasonal Capability plus Purchases minus Sales.^c All of the Companies native load and internal load is served by Load Serving Entities (LSE), either as a Certified Retail Electric Supplier (CRES) or as suppliers for the Standard Service Offer (SSO). The reserves above are theoretical. The Companies currently are not, nor intend to become an LSE, therefore, do not have any reserves. Reserve requirements are supplied by the LSE.^d Internal Load equals Native plus Interruptible.^e Based upon the Forecast Pool Requirement as stated in PJM's "Reserve Requirement Study".^f These data include energy for Pennsylvania Power as well as the 3 Ohio companies.

1. Facility Name
2. Facility Location
3. Facility Type
4. Anticipated Capability
5. Anticipated Capital Cost
6. Application Timing
7. Construction Timing
8. Planned Pollution Control Measures
9. Fuel
10. Miscellaneous

^aThe companies do not own or operate generation, nor intend to, for the duration of this forecast.

APPENDIX LIBRARIES

Ashland County: Ashland County District Library 224 Claremont Avenue Ashland, OH 44805	Fayette County: Carnegie Public Library 127 S. North Street Washington C.H., OH 43160
Ashtabula County: Ashtabula County District Library 335 W. 44th Street Ashtabula, OH 44004	Franklin County: Columbus Metropolitan Library Attn: N. Friday, Biography, History & Travel Division 96 S. Grant Avenue Columbus, OH 43215
Carroll County: Carroll County District Library 70 Second St NE Carrollton, OH 44615	Fulton County: Delta Public Library 402 Main Street Delta, OH 43515
Champaign County: Champaign County Library 1060 Scioto Street Urbana, OH 43078	Geauga County: Geauga County Public Library 12701 Ravenwood Drive Chardon, OH 44024
Clark County: Clark County Public Library 201 S. Fountain Avenue – PO Box 1080 Springfield, OH 45506	Greene County: Hallie Q. Brown Memorial Library Central State University 1400 Brush Row Road, Box # 1006 Wilberforce, OH 45384
Columbiana County: Carnegie Public Library 219 E. Fourth Street East Liverpool, OH 43920	Greene County: Greene County District Library 76 East Market Street, POB 520 Xenia, OH 45385
Columbiana County: Lepper Library 303 E. Lincoln Way Lisbon, OH 44432	Henry County: Napoleon Public Library 310 W. Clinton Street Napoleon, OH 43545
Crawford County: Bucyrus Public Library 200 E. Mansfield Bucyrus, OH 44820	Holmes County: Holmes County District Library 3102 Glen Drive Millersburg, OH 44654
Cuyahoga County: Cleveland Public Library Reference Division 325 Superior Avenue, N.E. Cleveland, OH 44114	Huron County: Willard Memorial Library 6 W. Emerald Street Willard, OH 44890
Cuyahoga County: Cuyahoga County Public Library Maple Heights Regional 5225 Library Lane Maple Heights, OH 44137	Knox County: Mt. Vernon Public Library 201 N. Mulberry Street Mt. Vernon, OH 43050
Defiance County: Defiance Public Library 320 Fort Street Defiance, OH 43512	Lake County: Morley Library 184 Phelps Street Painesville, OH 44077
Delaware County: Delaware County District Library 84 E. Winter Street Delaware, OH 43015	Lorain County: Lorain Public Library 351 Sixth Street Lorain, OH 44052

Erie County: Sandusky Library 114 W. Adams Street Sandusky, OH 44870	Lorain County: Oberlin College Library Reference Division 148 W. College Street Oberlin, OH 44074
Erie County: Huron Public Library 333 Williams Street Huron, OH 44839	Lorain County: Elyria Public Library 320 Washington Avenue Elyria, OH 44035
Lucas County: Toledo-Lucas County Public Library Reference Division 325 Michigan Street Toledo, OH 43604	Richland County: Mansfield/Richfield Public Library 43 W. Third Street Mansfield, OH 44902
Lucas County: William S. Carlson Library University of Toledo Reference Division 2801 West Bancroft Street	Sandusky County: Birchard Public Library 423 Croghan Street Fremont, OH 43420
Madison County: London Public Library 20 E. First Street London, OH 43140	Seneca County: Tiffin-Seneca Public Library 77 Jefferson Street Tiffin, OH 44883
Madison County: Hurt/Battelle Memorial Library 270 Lilly Chapel Road West Jefferson, OH 43162	Stark County: Stark County District Library 715 Market Ave., N. Canton, OH 44702
Mahoning County: Public Library of Youngstown Reference Division 305 Wick Avenue Youngstown, OH 44503	Summit County: Akron-Summit County Public Library 60 South High Street Akron, OH 44326
Marion County: Marion Public Library 445 E. Church Street Marion, OH 43302	Trumbull County: Warren-Trumbull County Public Library 444 Mahoning Avenue, N.W. Warren, OH 44483
Medina County: Troy- Miami Public Library 416 W Main St Troy, OH 44256	Tuscarawas County: Tuscarawas County Public Library 121 Fair Avenue., N.W. New Philadelphia, OH 44663
Miami County: Medina County District Library 210 S. Broadway Medina, OH 44256	Union County: Marysville Public Library 231 S. Plum Street Marysville, OH 43040
Morrow County: Mt. Gilead Free Public Library 41 E. High Street Mt. Gilead, OH 43338	Wayne County: Wayne County Public Library 304 N. Market Street Wooster, OH 44691
Ottawa County: Ida Rupp Public Library 310 Madison Street Port Clinton, OH 43452	Williams County: Williams County Public Library 107 E. High Street Bryan, OH 43506

Portage County: Portage County District Library 10482 South Street Garrettsville, OH 44231	Wood County: Wood County District Public Library 251 N. Main Street Bowling Green, OH 43402
Portage County: Kent State University Library Serials Department 1 Eastway Drive, P.O. Box 5190 Kent, OH 44242	Wood County: William T. Jerome Library Bowling Green State University Documents Librarian Bowling Green, OH 43403
Putnam County: Putnam County District Library Educational Service Center 124 Putnam Parkway Ottawa, OH 45875	Wyandot County: Upper Sandusky Community Library 301 N. Sandusky Avenue Upper Sandusky, OH 43351

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Case No(s). 18-0449-EL-FOR

Summary: Application In the Matter of the Long-Term Forecasting Report electronically filed by Ms. Tamera J Singleton on behalf of Ohio Edison Company and The Cleveland Electric Illuminating Company and The Toledo Edison Company and American Transmission Systems Incorporated and Endris, Robert M. Mr.