

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

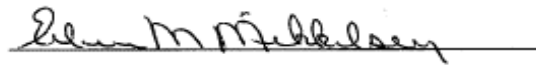
**2020 ELECTRIC
LONG-TERM FORECAST REPORT
TO THE
PUBLIC UTILITIES COMMISSION OF OHIO**

Case № 20-657-EL-FOR

CERTIFICATE OF SERVICE

I hereby certify that this 2020 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, 2020 and that:

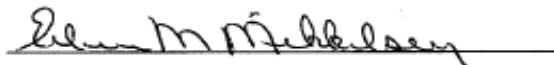
1. Pursuant to Rule 4901:5-1-03(F), Ohio Administrative Code, a copy of the 2020 Long-Term Forecast Report has been delivered or mailed on the day of filing to the Office of the Ohio Consumers' Counsel;
2. Pursuant to Rule 4901:5-1-03(G), Ohio Administrative Code, within three days of filing with the 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 2020 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 2020 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

PUCO FORM FE-T1: TRANSMISSION ENERGY DELIVERY FORECAST
(Megawatt Hours/Year)^{a b}

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	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
-4	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
-3	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
-2	2018	36,688,907	3,524,492	40,213,399	18,391,186	25,200,253	43,591,439	83,804,838	7,700,747	7,392,897	15,093,644	68,711,194	63,392,963	5,318,230
-1	2019	37,939,269	978,211	38,917,481	15,249,917	28,920,994	44,170,911	83,088,392	9,589,098	7,348,592	16,937,690	66,150,702	61,094,619	5,056,083
0	2020	38,236,278	985,869	39,222,147	15,369,301	29,147,403	44,516,704	83,738,851	9,664,167	7,406,121	17,070,287	66,668,564	61,263,393	5,405,171
1	2021	38,504,394	992,782	39,497,176	15,477,072	29,351,787	44,828,859	84,326,036	9,731,932	7,458,053	17,189,985	67,136,050	61,725,825	5,410,225
2	2022	38,688,221	997,522	39,685,743	15,550,963	29,491,917	45,042,880	84,728,623	9,778,394	7,493,659	17,272,054	67,456,569	62,030,096	5,426,474
3	2023	38,775,471	999,772	39,775,243	15,586,033	29,558,428	45,144,462	84,919,705	9,800,447	7,510,559	17,311,006	67,608,699	62,110,144	5,498,555
4	2024	39,013,988	1,005,921	40,019,909	15,681,906	29,740,249	45,422,155	85,442,064	9,860,732	7,556,758	17,417,490	68,024,575	62,324,025	5,700,550
5	2025	40,905,841	1,054,700	41,960,541	16,442,348	31,182,403	47,624,751	89,585,292	10,338,895	7,923,198	18,262,093	71,323,200	65,586,635	5,736,565
6	2026	40,958,295	1,056,053	42,014,348	16,463,432	31,222,388	47,685,821	89,700,169	10,352,153	7,933,358	18,285,510	71,414,658	65,639,615	5,775,043
7	2027	41,085,469	1,059,332	42,144,800	16,514,551	31,319,332	47,833,883	89,978,683	10,384,295	7,957,990	18,342,286	71,636,397	65,814,605	5,821,792
8	2028	41,294,487	1,064,721	42,359,208	16,598,567	31,478,666	48,077,233	90,436,440	10,437,124	7,998,476	18,435,600	72,000,840	66,116,761	5,884,079
9	2029	41,454,673	1,068,851	42,523,524	16,662,954	31,600,776	48,263,730	90,787,254	10,477,611	8,029,503	18,507,114	72,280,140	66,344,855	5,935,284
10	2030	41,563,353	1,071,653	42,635,007	16,706,639	31,683,622	48,390,262	91,025,268	10,505,080	8,050,554	18,555,634	72,469,634	66,490,086	5,979,548

^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.

FirstEnergy System

		Native Load ^b		Internal Load ^c	
Year		Summer	Winter ^d	Summer	Winter
-5	2015	12,074	10,112	12,356	10,394
-4	2016	12,334	10,215	12,752	10,633
-3	2017	11,382	9,850	12,061	10,653
-2	2018	12,226	9,996	12,825	11,091
-1	2019	11,973	9,790	12,572	10,389
0	2020	11,997	9,778	12,596	10,377
1	2021	12,075	9,867	12,674	10,466
2	2022	12,126	9,894	12,725	10,493
3	2023	12,157	9,923	12,756	10,522
4	2024	12,205	9,941	12,804	10,540
5	2025	12,233	9,947	12,832	10,546
6	2026	12,255	9,963	12,854	10,562
7	2027	12,301	9,999	12,900	10,598
8	2028	12,363	10,033	12,962	10,632
9	2029	12,419	10,049	13,018	10,648
10	2030	12,459	10,068	13,058	10,667

^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.

FirstEnergy System

	Ohio Portion ^a	Total Service Area ^b	Total System ^{c d}
Year 0-2020			
January	5,616,626	6,125,895	6,125,895
February	5,055,439	5,524,655	5,524,655
March	5,125,996	5,595,920	5,595,920
April	4,536,009	4,953,136	4,953,136
May	4,724,661	5,136,563	5,136,563
June	5,158,689	5,600,261	5,600,261
July	5,704,527	6,175,011	6,175,011
August	5,673,840	6,143,258	6,143,258
September	4,877,040	5,293,109	5,293,109
October	4,681,480	5,090,630	5,090,630
November	4,775,820	5,195,737	5,195,737
December	5,333,266	5,834,389	5,834,389
Year 1-2021			
January	5,616,418	6,123,544	6,123,544
February	5,056,931	5,520,426	5,520,426
March	5,163,108	5,629,622	5,629,622
April	4,577,295	4,993,753	4,993,753
May	4,764,817	5,176,781	5,176,781
June	5,200,549	5,643,166	5,643,166
July	5,749,934	6,222,327	6,222,327
August	5,722,648	6,194,899	6,194,899
September	4,927,467	5,346,469	5,346,469
October	4,739,129	5,151,453	5,151,453
November	4,827,500	5,250,888	5,250,888
December	5,380,028	5,882,722	5,882,722

^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

FirstEnergy System

	Ohio Portion ^a	Total Service Area ^b	System ^{c d}
Year 0-2020			
January	9,501	10,389	10,389
February	9,114	9,945	9,945
March	8,556	9,321	9,321
April	8,078	8,753	8,753
May	9,574	10,319	10,319
June	10,959	11,799	11,799
July	11,709	12,596	12,596
August	11,333	12,217	12,217
September	10,113	10,943	10,943
October	8,188	8,814	8,814
November	8,355	9,051	9,051
December	9,212	10,004	10,004
Year 1-2021			
January	9,494	10,377	10,377
February	9,131	9,963	9,963
March	8,605	9,364	9,364
April	8,119	8,786	8,786
May	9,624	10,365	10,365
June	11,025	11,860	11,860
July	11,785	12,674	12,674
August	11,395	12,279	12,279
September	10,179	11,005	11,005
October	8,255	8,883	8,883
November	8,429	9,127	9,127
December	9,284	10,085	10,085

^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.

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

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	3,638,647	-	3,638,647
Energy Receipts from other sources	3,800,554	-	3,800,554
Total Energy Receipts	7,439,201	-	7,439,201

Reporting Month: February

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	3,069,328	-	3,069,328
Energy Receipts from other sources	3,838,312	-	3,838,312
Total Energy Receipts	6,907,640	-	6,907,640

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

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	2,751,849	-	2,751,849
Energy Receipts from other sources	4,055,025	-	4,055,025
Total Energy Receipts	6,806,874	-	6,806,874

Reporting Month: April

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	3,251,582	-	3,251,582
Energy Receipts from other sources	2,981,210	-	2,981,210
Total Energy Receipts	6,232,792	-	6,232,792

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

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	3,028,792	-	3,028,792
Energy Receipts from other sources	3,145,848	-	3,145,848
Total Energy Receipts	6,174,640	-	6,174,640

Reporting Month: June

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	3,242,685	-	3,242,685
Energy Receipts from other sources	3,508,825	-	3,508,825
Total Energy Receipts	6,751,510	-	6,751,510

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

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	3,937,838	-	3,937,838
Energy Receipts from other sources	4,126,968	-	4,126,968
Total Energy Receipts	8,064,806	-	8,064,806

Reporting Month: August

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	3,820,069	-	3,820,069
Energy Receipts from other sources	3,693,053	-	3,693,053
Total Energy Receipts	7,513,122	-	7,513,122

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

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	3,289,158	-	3,289,158
Energy Receipts from other sources	3,724,431	-	3,724,431
Total Energy Receipts	7,013,589	-	7,013,589

Reporting Month: October

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	2,801,477	-	2,801,477
Energy Receipts from other sources	3,938,672	-	3,938,672
Total Energy Receipts	6,740,149	-	6,740,149

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

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	2,752,184	-	2,752,184
Energy Receipts from other sources	3,679,035	-	3,679,035
Total Energy Receipts	6,431,219	-	6,431,219

Reporting Month: December

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	3,333,872	-	3,333,872
Energy Receipts from other sources	3,678,978	-	3,678,978
Total Energy Receipts	7,012,850	-	7,012,850

**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 2019

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	5,534,321	-	5,534,321
Other Investor-Owned Electric Utilities	1,312,436	-	1,312,436
Cooperative-Owned Electric System	119,986	-	119,986
Municipal-Owned Electric Systems	473,905	-	473,905
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	7,440,648	-	7,440,648

Reporting Month: January 2019

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	5,055,863	-	5,055,863
Other Investor-Owned Electric Utilities	946,881	-	946,881
Cooperative-Owned Electric System	119,986	-	119,986
Municipal-Owned Electric Systems	457,859	-	457,859
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,580,589	-	6,580,589

**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 2019

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	4,868,814	-	4,868,814
Other Investor-Owned Electric Utilities	1,512,641	-	1,512,641
Cooperative-Owned Electric System	104,016	-	104,016
Municipal-Owned Electric Systems	422,176	-	422,176
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,907,647	-	6,907,647

Reporting Month: February 2019

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	4,456,185	-	4,456,185
Other Investor-Owned Electric Utilities	1,064,692	-	1,064,692
Cooperative-Owned Electric System	104,016	-	104,016
Municipal-Owned Electric Systems	407,991	-	407,991
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,032,883	-	6,032,883

**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 2019

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	5,104,512	-	5,104,512
Other Investor-Owned Electric Utilities	1,162,389	-	1,162,389
Cooperative-Owned Electric System	105,523	-	105,523
Municipal-Owned Electric Systems	435,033	-	435,033
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,807,456	-	6,807,456

Reporting Month: March 2019

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	4,677,290	-	4,677,290
Other Investor-Owned Electric Utilities	979,750	-	979,750
Cooperative-Owned Electric System	105,523	-	105,523
Municipal-Owned Electric Systems	420,521	-	420,521
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,183,084	-	6,183,084

**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 2019

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	4,392,650	-	4,392,650
Other Investor-Owned Electric Utilities	1,379,833	-	1,379,833
Cooperative-Owned Electric System	79,913	-	79,913
Municipal-Owned Electric Systems	380,531	-	380,531
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,232,928	-	6,232,928

Reporting Month: April 2019

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	4,031,149	-	4,031,149
Other Investor-Owned Electric Utilities	1,076,993	-	1,076,993
Cooperative-Owned Electric System	79,913	-	79,913
Municipal-Owned Electric Systems	368,116	-	368,116
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,556,171	-	5,556,171

**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 2019

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	4,547,788	-	4,547,788
Other Investor-Owned Electric Utilities	1,146,013	-	1,146,013
Cooperative-Owned Electric System	81,110	-	81,110
Municipal-Owned Electric Systems	399,772	-	399,772
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,174,684	-	6,174,684

Reporting Month: May 2019

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	4,173,518	-	4,173,518
Other Investor-Owned Electric Utilities	896,066	-	896,066
Cooperative-Owned Electric System	81,110	-	81,110
Municipal-Owned Electric Systems	386,375	-	386,375
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,537,070	-	5,537,070

**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 2019

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	4,793,242	-	4,793,242
Other Investor-Owned Electric Utilities	1,453,847	-	1,453,847
Cooperative-Owned Electric System	85,060	-	85,060
Municipal-Owned Electric Systems	419,692	-	419,692
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,751,841	-	6,751,841

Reporting Month: June 2019

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	4,408,753	-	4,408,753
Other Investor-Owned Electric Utilities	1,135,288	-	1,135,288
Cooperative-Owned Electric System	85,060	-	85,060
Municipal-Owned Electric Systems	405,478	-	405,478
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,034,579	-	6,034,579

**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 2019

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	5,995,997	-	5,995,997
Other Investor-Owned Electric Utilities	1,434,938	-	1,434,938
Cooperative-Owned Electric System	109,746	-	109,746
Municipal-Owned Electric Systems	524,126	-	524,126
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	8,064,807	-	8,064,807

Reporting Month: July 2019

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	5,543,019	-	5,543,019
Other Investor-Owned Electric Utilities	1,142,187	-	1,142,187
Cooperative-Owned Electric System	109,746	-	109,746
Municipal-Owned Electric Systems	505,768	-	505,768
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	7,300,720	-	7,300,720

**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 2019

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	5,465,586	-	5,465,586
Other Investor-Owned Electric Utilities	1,469,049	-	1,469,049
Cooperative-Owned Electric System	97,069	-	97,069
Municipal-Owned Electric Systems	481,554	-	481,554
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	7,513,258	-	7,513,258

Reporting Month: August 2019

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	5,031,243	-	5,031,243
Other Investor-Owned Electric Utilities	1,121,467	-	1,121,467
Cooperative-Owned Electric System	97,069	-	97,069
Municipal-Owned Electric Systems	464,798	-	464,798
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,714,578	-	6,714,578

**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 2019

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	4,873,295	-	4,873,295
Other Investor-Owned Electric Utilities	1,619,443	-	1,619,443
Cooperative-Owned Electric System	88,149	-	88,149
Municipal-Owned Electric Systems	433,869	-	433,869
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	7,014,756	-	7,014,756

Reporting Month: September 2019

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	4,484,634	-	4,484,634
Other Investor-Owned Electric Utilities	1,217,426	-	1,217,426
Cooperative-Owned Electric System	88,149	-	88,149
Municipal-Owned Electric Systems	419,079	-	419,079
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,209,287	-	6,209,287

**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 2019

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	4,507,196	-	4,507,196
Other Investor-Owned Electric Utilities	1,758,738	-	1,758,738
Cooperative-Owned Electric System	84,478	-	84,478
Municipal-Owned Electric Systems	391,332	-	391,332
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,741,744	-	6,741,744

Reporting Month: October 2019

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	4,147,234	-	4,147,234
Other Investor-Owned Electric Utilities	1,181,589	-	1,181,589
Cooperative-Owned Electric System	84,478	-	84,478
Municipal-Owned Electric Systems	377,984	-	377,984
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,791,284	-	5,791,284

**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 2019

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	4,685,658	-	4,685,658
Other Investor-Owned Electric Utilities	1,250,397	-	1,250,397
Cooperative-Owned Electric System	99,748	-	99,748
Municipal-Owned Electric Systems	396,778	-	396,778
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,432,581	-	6,432,581

Reporting Month: November 2019

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	4,302,527	-	4,302,527
Other Investor-Owned Electric Utilities	795,842	-	795,842
Cooperative-Owned Electric System	99,748	-	99,748
Municipal-Owned Electric Systems	383,009	-	383,009
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	5,581,127	-	5,581,127

**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 2019

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	5,046,193	-	5,046,193
Other Investor-Owned Electric Utilities	1,437,966	-	1,437,966
Cooperative-Owned Electric System	108,663	-	108,663
Municipal-Owned Electric Systems	421,223	-	421,223
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	7,014,044	-	7,014,044

Reporting Month: December 2019

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	4,624,495	-	4,624,495
Other Investor-Owned Electric Utilities	1,058,882	-	1,058,882
Cooperative-Owned Electric System	108,663	-	108,663
Municipal-Owned Electric Systems	406,273	-	406,273
Federal and State Electric Agencies	-	-	-
Other end user service	-	-	-
For Non Distribution service (transmission to transmission service)	-	-	-
Total Energy Delivery	6,198,313	-	6,198,313

**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	(1,447)	-	(1,447)
February	(7)	-	(7)
March	(583)	-	(583)
April	(136)	-	(136)
May	(44)	-	(44)
June	(331)	-	(331)
July	(1)	-	(1)
August	(136)	-	(136)
September	(1,167)	-	(1,167)
October	(1,595)	-	(1,595)
November	(1,362)	-	(1,362)
December	(1,194)	-	(1,194)

(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
01/30/19	19	11,091	Y	Y	N
02/01/19	10	10,105	Y	Y	N
03/05/19	20	9,801	Y	Y	N
04/01/19	9	8,602	Y	Y	N
05/28/19	16	9,537	Y	Y	N
06/28/19	15	11,426	Y	Y	N
07/19/19	16	12,572	Y	Y	N
08/20/19	15	11,897	Y	Y	N
09/11/19	14	11,586	Y	Y	N
10/01/19	16	11,269	Y	Y	N
11/13/19	19	8,994	Y	Y	N
12/18/19	19	9,623	Y	Y	N

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES
Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

*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
List each Transmission Line of 125 kV or more.	Indicate location of line's beginning and terminus.	Normal Rating	Emergency Rating	Normal Rating	Emergency Rating			*Length (Miles)	*Width (Feet)	Steel Towers, Wood Poles, or Underground. Etc. and number of mile of the line of each structure	Design	Installed	Substation Name

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES
Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

*Width is typical ROW width
*Length in miles is approximate

ATSI-Toledo Edison 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 terimus.	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 mile 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	

PUCO FORM FE3-T7: CHARACTERISTICS OF TRANSMISSION OWNER'S EXISTING TRANSMISSION LINES
Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

ATSI-Cleveland Electric Illuminating Company Area

*Width is typical ROW width
*Length in miles is approximate

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 mile of the line of each structure			Substation Name

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

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

Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

ATSI-Ohio Edison Company Area

<u>Substation Name</u>	Type	<u>Voltages</u>	Line Association(s) (FE-T7 or FE-T9 <u>Notation</u>)	Line Existing
	Transmission (T) Distribution (D)			

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

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

Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

ATSI-Toledo Edison Company Area

<u>Substation Name</u>	Type	<u>Voltages</u>	Line Association(s) (FE-T7 or FE-T9 <u>Notation</u>)	Line Existing
	<u>Transmission (T)</u> <u>Distribution (D)</u>			

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

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

Page intentionally left blank pursuant to O.A.C. 4901:5-5-04

ATSI-Cleveland Electric Illuminating 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>
------------------------	---	-----------------	---	--

4901:5-5-04(D)(1)

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

ATSI-Illuminating Company Area

1	Line Name and Number	Avon-Clinton Double Circuit Corridor Avon-Clinton 138 kV Line
2	Point of Origin and Termination	O: Avon T: Clinton
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Certificate of Environmental Compatibility and Public Need at future date.
6	Construction	Commence: 2022 Complete: 2022 Operation: 2022
7	Capital Investment	\$ 57.1 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	New Avon-Clinton 138 kV lines
12	Consequence of Line Construction Deferment Or Termination	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP s1987

4901:5-5-04(D)(1)

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: 2021 Operation: 2021
7	Capital Investment	\$11.1 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 Deferment Or Termination	Potential operational constraints under multiple contingency conditions.
13	Miscellaneous	PJM RTEP #: s1698

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: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$4.2 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 #: s1697

4901:5-5-04(D)(1)

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

ATSI- Illuminating Company Area

1	Line Name and Number	Black River-AstorQ11 138kV line
2	Point of Origin and Termination	Black River-AstorQ11 138kV line O: Black River T: Astor
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Certificate of Enviornmental Compatibility and Public Need at future date.
6	Construction	Commence: 2023 Complete: 2024 Operation: 2024
7	Capital Investment	\$24.5 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 Transmission Line	Construct a new Black River-Astor 138 kV line Thermal constraint on the 138kV system identified in the PJM RTEP process.
12	Consequence of Line Construction Deferment Or Termination	
13	Miscellaneous	PJM RTEP # s1873

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: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$23.7 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	sNNNN Solution 3/7/19

4901:5-5-04(D)(1)

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	OPSB Letter of Notification 18-1395-EL-BLN
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$10.0 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

4901:5-5-04(D)(1)

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	OPSB Letter of Notification 18-1395-EL-BLN
6	Construction	Commence: 2018 Complete: 2020 Operation: 2020
7	Capital Investment	\$25.0 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	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

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Rebuild Beaver-Wellington 138kV Line
2	Point of Origin and Termination	Beaver-Wellington 138kV Line O: Beaver T: Wellington
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: 2021 Operation: 2021
7	Capital Investment	\$24.7 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	Adding second Beaver-Wellington 138 kV line on open tower position and relocating a portion of the existing Henrieta-Oberlin-Shinrock 69 kV line
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1711

4901:5-5-04(D)(1)

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: 2020 Complete: 2025 Operation: 2025
7	Capital Investment	\$170.0 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	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 #: s1718

4901:5-5-04(D)(1)

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: 2021 Complete: 2021 Operation: 2021
7	Capital Investment	\$29.2 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 #: s1801

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Coulter - Longview 69kV Line
2	Point of Origin and Termination	Coulter - Longview 69kV Line O: Coulter T: Longview
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2021 Complete: 2022 Operation: 2022
7	Capital Investment	\$22.2 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Rebuild 15.8 miles of Mohican-Longview (Coulter-Longview) line
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # s1963

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Industrial Dell (Brookside)-Ashland, Hale (Brookside)-Ashland, and Fairview (Brookside)-Ashland 69 kV lines
2	Point of Origin and Termination	Industrial Dell (Brookside)-Ashland, Hale (Brookside)-Ashland, and Fairview (Brookside)-Ashland O: Ashland T: Brookside
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	\$12.9 M
8	Substations	No. of planned substations: one Voltage: 69 kV Location: new Ashland 138/69 kV
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Build new Industrial Dell (Brookside)-Ashland, Hale (Brookside)-Ashland, and Fairview (Brookside)-Ashland 69 kV lines at new Ashland 138/69 kV station
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1714

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Seville-Star (Rittman) 69 kV line
2	Point of Origin and Termination	Seville-Star (Rittman) 69 kV line O:Seville T: Star
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2022 Operation: 2022
7	Capital Investment	\$4.4 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Extend Seville-Star(Rittman)v69 kV line to Seville substation
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1710

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Beaver-Shinrock & Beaver-Black River 138 kV lines
2	Point of Origin and Termination	Beaver-Shinrock & Beaver-Black River 138 kV lines O:Beaver T: Shinrock 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: 2020 Complete: 2022 Operation: 2022
7	Capital Investment	\$12.6 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	Build new Beaver-Shinrock & Beaver-Black River 138 kV lines
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1945

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Lincoln Park-Riverbend 138 kV Line
2	Point of Origin and Termination	Lincoln Park-Riverbend 138 kV Line O: Lincoln Park T: Riverbend
3	Right of Way	Existing
4	Voltage	138,000 volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Certificate of Environmental Compatibility and Public Need at future date.
6	Construction	Commence: 2022 Complete: 2022 Operation: 2022
7	Capital Investment	\$25.9 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	Build new 5.65 mile Lincoln Park-Riverbend 138 kV line
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1947

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Kirby-Crissinger 138 kV & Crissinger-Roberts No2 138 kV lines
2	Point of Origin and Termination	Kirby-Crissinger 138 kV O: Kirby T: Crissinger Crissinger-Roberts No2 138 kV lines O: Crissinger T: Roberts
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: 2021 Operation: 2021
7	Capital Investment	\$5.8 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	Loop in the Kirby-Roberts 138 kV line, creating the Kirby-Crissinger and Crissinger Roberts (No 2) 138 kV lines.
12	Consequence of Line Construction Deferral Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: s1696

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	New line to loop Babb-Evans 138 kV
2	Point of Origin and Termination	Aetna-Babb-Evans 138 kV O: Aetna T: Evans
3	Right of Way	Existing
4	Voltage	138,000 volts
5	Application for Certificate	Anticipated to be submitted as a OPSB Construction Notice at future date.
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	\$6.5 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	Build new 0.1 miles 138 kV circuit to loop Babb-Evans 138 kV to Aetna
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1709

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Amherst-Johnson 69kV line & Amherst-Henrietta 69kV line
2	Point of Origin and Termination	Amherst-Johnson 69kV line O:Amherst T: Johnson Amherst-Henrietta 69kV line O:Amherst T: Henrietta
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2022 Operation: 2022
7	Capital Investment	\$9.6 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Build Amherst-Johnson 69kV line (5.6 miles) & Amherst-Henrietta 69kV line (9.5 miles)
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1948

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Ottawa-Lakeview 138kV Line
2	Point of Origin and Termination	Ottawa-Lakeview 138kV Line O:Ottawa T: Lakeview
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: 2022 Complete: 2023 Operation: 2023
7	Capital Investment	\$20.0 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 7.6 miles Ottawa-Lakeview 138 kV Line
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: b3033

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Ivanhoe-Elm 138 kV line
2	Point of Origin and Termination	Ivanhoe-Elm 138 kV line O:Elm T: Ivanhoe
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: 2023 Complete: 2023 Operation: 2023
7	Capital Investment	\$12.1 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	Build new line Ivanhoe-Elm 138 kV (2.6 or 3.9 miles depending on line route)
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1950

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Kimberly-Weldon 69 kV line
2	Point of Origin and Termination	Kimberly-Weldon 69 kV line O: Kimberly T: Weldon
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2023 Complete: 2023 Operation: 2023
7	Capital Investment	\$17.4 M
8	Substations	No. of planned substations: One Voltage: 69 kV Location: Outside Canfield Steel
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Build new 6.4 mile line Kimberly-Weldon 69 kV
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1952

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Lakeview-Greenfield 138kV Line
2	Point of Origin and Termination	Lakeview-Greenfield 138kV Line O: Lakeview T: Greenfield
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: 2023 Complete: 2023 Operation: 2023
7	Capital Investment	\$2.4 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	Reconductor approximately 1.2 miles of Lakeview-Greenfield 138 kV line
12	Consequence of Line Construction Deferment Or Termination	Thermal overloads on the 138kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: b3034

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison

1	Line Name and Number	Angola-Eber-Vulcan 138kV Line
2	Point of Origin and Termination	Angola-Eber-Vulcan 138kV Line O:Angola T: Wentworth
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: 2021 Complete: 2021 Operation: 2021
7	Capital Investment	\$21.0 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	Rebuild 2.0 miles of Angola-Eber-Vulcan 138 kV line
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1700

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison

1	Line Name and Number	Lemoyne-Woodville-Fostoria 138kV line
2	Point of Origin and Termination	Lemoyne-Woodville-Fostoria 138kV O: Lemoyne T: Woodville
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	\$11.3 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Steel towers
10	Participation with other Utilities	AEP-West End substation
11	Purpose of Planned Expansion	Build new 3.1 miles line from AEP West End substation
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1702

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison

1	Line Name and Number	Brush Wellman-Ottawa 69kV
2	Point of Origin and Termination	Brush Wellman-Ottawa 69kV O:Brush Wellman T:Ottawa
3	Right of Way	Existing
4	Voltage	69,000 volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2022 Complete: 2022 Operation: 2022
7	Capital Investment	\$10.0 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	Rebuild 7.3 miles of Brush Wellman-Ottawa 69 kV
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1964

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison

1	Line Name and Number	LeMoyne - Midway 138 kV Line
2	Point of Origin and Termination	O - Brim tap point on the existing Lemoyne - Midway 138 kV Transmission Line T - existing Brim substation
3	Right of Way	Length in mile: 5.1 Average width in feet: Number of transmission lines above 125 kV: 1
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Application for Environmental Compatibility and Public Need 18-1335-EL-BTX
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$19.9 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 69kV voltages and load during contingencies
12	Consequence of Line Construction Deferment Or Termination	Potential load loss under certain contingency conditions.
13	Miscellaneous	PJM RTEP #: s1703

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison Company Area

1	Line Name and Number	Abbe-Medina 69kV Line
2	Point of Origin and Termination	O: Abbe T: Medina
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2019 Complete: 2021 Operation: 2021
7	Capital Investment	\$39.2 M
8	Substations	No. of planned substations: None Voltage: N/A Location: N/A
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Rebuild 18.1 miles of 69 kV transmission line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1796

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison Company Area

1	Line Name and Number	Campbellsport 69kV Phase 3 (Streetsboro)
2	Point of Origin and Termination	T: Campbellsport O: Streetsboro
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$10.1 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 Transmission Line	Rebuild approximately 1.8 miles of existing 69kV circuit to double circuit construction from Streetsboro substation; eliminate three terminal line and network radial lines. Potential risk of transmission outages
12	Consequence of Line Construction Deferment Or Termination	
13	Miscellaneous	PJM RTEP #: s1212

4901:5-5-04(D)(1)

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

ATSI-Illuminating Company Area

1	Line Name and Number	Hanville (Wellington) 69kV Line Rebuild
2	Point of Origin and Termination	Hanville (Wellington) 69kV Line Rebuild O: Hanville T: Hanville
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	\$40.1 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	Rehab/Rebuild 32.8 miles of transmission line based on condition assessment Potential risk of transmission outages
12	Consequence of Line Construction Deferment Or Termination	
13	Miscellaneous	PJM RTEP #: s1797

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison Area

1	Line Name and Number	Ravenna-West Ravenna #1 69kV Line Rebuild
2	Point of Origin and Termination	Ravenna-West Ravenna #1 69kV Line Rebuild T: Ravenna O: West Ravenna
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2019 Complete: 2022 Operation: 2022
7	Capital Investment	\$10.0 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	Rebuild 4.1 miles of 69kV wood pole line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1798

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Bingham to Schaff 69kV Rebuild (Cardington-Galion)
2	Point of Origin and Termination	Bingham T: Bingham O: Schaff
3	Right of Way	Proposed
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$13.3 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	Rebuild and Reconductor 12.8 miles of 69 kV Transmission Line based on condition assessment Potential risk of transmission outages
12	Consequence of Line Construction Deferral Or Termination	
13	Miscellaneous	PJM RTEP # s1799

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Bellevue-Carriage 69kV Reconductor/Rehab
2	Point of Origin and Termination	Bellevue T: Bellevue O: Carriage
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2022 Operation: 2022
7	Capital Investment	\$21.4 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	Rebuild/Rehab 13.4 miles of 69 kV line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP # s1800

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Cloverdale-Harmon #1 69kv line
2	Point of Origin and Termination	Cloverdale T: Cloverdale O: Harmon
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$4.0 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	Rebuild/Rehab 1.4 miles of 138kV Line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1704

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Rittman (Star) 69kV Line Rehab/Rebuild
2	Point of Origin and Termination	Rittman T: Rittman O: Star
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2021 Complete: 2023 Operation: 2023
7	Capital Investment	\$18.6 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	Rebuild/Rehab of 17.4 miles 69 kV line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1802

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Carlisle-Wellington 69kV Rehab and switches
2	Point of Origin and Termination	Carlisle T: Carlisle O: Wellington
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2021 Complete: 2022 Operation: 2022
7	Capital Investment	\$27.9 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	Rebuild/Rehab of 28.5 miles 69 kV line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1803

4901:5-5-04(D)(1)

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

ATSI-Toldeo Edison

1	Line Name and Number	Maroe-Malinta Network and 69kV Conversion Project
2	Point of Origin and Termination	Maroe T: Weston O: Richland
3	Right of Way	Proposed
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2021 Complete: 2023 Operation: 2023
7	Capital Investment	\$80.0 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	Convert existing Weston-Malinta 34.5 kV & Richland-Maroe 34.5kV to 69 kV circuits. Network the existing lines by building a new 69 kV line (5.6 miles)
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1953

4901:5-5-04(D)(1)

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

ATSI-Toledo Edison

1	Line Name and Number	New Switching Station Near Exit 2 Project
2	Point of Origin and Termination	T: West Unity O: Holiday City
3	Right of Way	Proposed
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	\$13.2 M
8	Substations	No. of planned substations: One Voltage: 69 kV Location: Snyder
9	Supporting Structures	Wood
10	Participation with other Utilities	None
11	Purpose of Planned Expansion	Extend the West Unity tap-Holiday City tap line approximately 2.4 miles into the new 69 kV ring bus
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s1701

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Wellsville-Sammis 345 kV
2	Point of Origin and Termination	Wellsville-Sammis 345 kV O: Sammis T: Wellsville
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: 2020 Complete: 2020 Operation: 2020
7	Capital Investment	\$0M
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	PJM GEN Queue Project AA1-123 loop the Lordstown-Sammis 345 kV line into the new Wellsville substation. Fully reimbursable project
12	Consequence of Line Construction Deferment Or Termination	Unable to fulfill obligation to serve customer
13	Miscellaneous	PJM RTEP #: n4694, n4695, n4696, n4697, n5057, n5056

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Cedar St-Masury-Sharon-Shenango 69 kV line Reconfiguration
2	Point of Origin and Termination	Cedar St-Masury-Sharon-Shenango 69 kV line O: Shenango T: Cedar Street T: Masury T: Sharon
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2020 Complete: 2021 Operation: 2021
7	Capital Investment	\$16.3 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 Transmission Line	Reconfigure Cedar Street-Masury-Sharon-Shenango 69 kV line to Masury Shenango 69 kV Line, Sharon-Shenango 69 kV Line, Cedar Street(Hillcrest)-Shenango 69 kV Line, Cedar Street(Bedford)-Shenango 69 kV Lines
12	Consequence of Line Construction Deferment Or Termination	Risk of Transmission outages on the 69 kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: s1712

4901:5-5-04(D)(1)

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

ATSI-Illuminating Company

1	Line Name and Number	Eastlake-Mayfield Q-3 & Q-4 138 kV Transmission Line Tap
2	Point of Origin and Termination	Eastlake-Mayfield Q-3 & Q-4 138 kV O: Eastlake T: Nathan
3	Right of Way	Existing
4	Voltage	138,000 Volts
5	Application for Certificate	OPSB Construction Notice 18-1661-EL-BNR
6	Construction	Commence: 2019 Complete: 2020 Operation: 2020
7	Capital Investment	\$2.54 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	Move Nathan from the Eastlake-Leroy Center Q15 & Q16 lines to the Eastlake-Mayfield Q3 & Q4 138 kV Lines
12	Consequence of Line Construction Deferment Or Termination	Risk of Transmission outages on the 138 kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: s1469

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Chamberlin-Hanna 345 kV Transmission Line Relocation
2	Point of Origin and Termination	Chamberlin-Hanna 345 kV line O: Chamberlin T: Hanna
3	Right of Way	Existing
4	Voltage	345,000 Volts
5	Application for Certificate	OPSB Construction Notice 18-1661-EL-BNR
6	Construction	Commence: 2019 Complete: 2021 Operation: 2021
7	Capital Investment	\$4.0 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 Transmission Line	Relocate portion of the Chamberlin-Hanna 345 kV line to a new bus connection
12	Consequence of Line Construction Deferment Or Termination	Risk of Transmission outages on the 345 kV system identified in the PJM RTEP process.
13	Miscellaneous	PJM RTEP #: b2778

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Aurora-Treat 69 kV
2	Point of Origin and Termination	Aurora-Treat 69 kV O: Aurora T: Treat
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2019 Complete: 2021 Operation: 2021
7	Capital Investment	\$16.8M
8	Substations	No. of planned substations: None Voltage: 69 kV Location: N/A
9	Supporting Structures	Wood towers
10	Participation with other Utilities	None
11	Purpose of Planned Transmission Line	Eliminate the exposure of two radial 69kV facilities (Treat and Mantua) by creating a networked system
12	Consequence of Line Construction Deferment Or Termination	Chamberlin-Geauga 69kv radial line serves 8802 customers and 37MW is at risk fault on Chamberlin-Geauga 69kV line fault
13	Miscellaneous	PJM RTEP #: s2079

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Darrow-Shalersville 69kV Rehab including line switches
2	Point of Origin and Termination	Darrow-Shalersville 69kV O: Darrow T: Shalersville
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2022 Complete: 2023 Operation: 2023
7	Capital Investment	\$9.3 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	Rebuild/Rehab of 11.21 miles 69 kV line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Increased risk and maintenance costs
13	Miscellaneous	PJM RTEP #: s2122

4901:5-5-04(D)(1)

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

ATSI-Ohio Edison

1	Line Name and Number	Clark-Navistar 69kV Rebuild and Terminal End Work
2	Point of Origin and Termination	Clark T: Navistar O: Clark
3	Right of Way	Existing
4	Voltage	69,000 Volts
5	Application for Certificate	Not applicable-below 125 kV threshold
6	Construction	Commence: 2023 Complete: 2023 Operation: 2023
7	Capital Investment	\$11.2 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	Rebuild/Rehab of 11.2 miles 69 kV line based on condition assessment
12	Consequence of Line Construction Deferment Or Termination	Potential risk of transmission outages
13	Miscellaneous	PJM RTEP #: s2123

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

AT&S-Ohio Edison Company Area

<u>Substation Name:</u>	<u>Tied to Project in T9?</u>	<u>Type of Substation</u>	<u>Voltage (kV)</u>	<u>Timing</u>	<u>Line Association(s):</u>	<u>Line Existing or Proposed:</u>
Wellsville	Y-sNNNN	Transmission	345 kV	ISD: 05/20	Construct new 3 breaker ring bus substation Loop in Lordstown-Sammis line	N/A Existing
Ashland	s1714	Transmission	138 kV 69 kV	ISD: 10/21	Construct new Ashland 138/69 kV station Loop in 138 kV Brookside-Howard line Loop in 69 kV Brookside-Ashland line Creates 138 kV Brookside-Ashland and Ashland-Howard Creates 69 kV Industrial Dell (Brookside)-Ashland, Hale (Brookside)-Ashland, and Fairview (Brookside)-Ashland	Proposed Existing Existing Proposed Proposed
Wellington	s1711	Transmission	138 kV 138/69 kV 138 kV	ISD: 08/21	Create 4 Breaker Ring Bus substation Install 138/69 kV Transformer Beaver-Wellington	N/A N/A Existing
Seville	s1710	Transmission	138 kV 69 kV	ISD: 12/22	Expand to a 4 breaker ring bus Extend Seville-Star 69 kV	N/A Existing
Charleston	s1044	Transmission	138 kV	ISD: 06/23	Expand to 6 breaker ring bus	N/A
Chamberlin	b2778	Transmission	345/138 kV 345 kV	ISD: 06/21	Add 2nd transformer Reconfigure Chamberlin-Hanna 345kV Line Exit	N/A Existing
Star	s1695	Transmission	138 kV	ISD: 12/20	Add three breakers	N/A
Riverbend	s1947	Transmission	138 kV	ISD: 12/22	Convert to a 138 kV 4-Breaker Ring Bus Install 2 new 138 kV breakers	N/A
Crissinger	s1696	Transmission	138 kV 138 kV	ISD: 06/21	Expand to a 6 breaker ring bus Loop in Kirby-Roberts 138 kV	N/A Existing
Darrow	s1708	Transmission	138 kV	ISD: 05/20	Convert into a 6 circuit breaker ring bus	N/A
Aetna	s1709	Transmission	138 kV 138 kV	ISD: 11/21	Convert into a 6 circuit breaker ring bus Loop in Babb-Evans	N/A Existing
Amherst	s1948	Transmission	69 kV 69 kV 69 kV	ISD: 06/22	Build new 4 circuit breaker ring bus substation Rebuild Amherst Muni-Nordson tap Loop Henrietta-Johnson 69 kV line	N/A Existing Existing
Ivanhoe	s1950	Transmission	138 kV 138 kV	ISD: 06/23	Install two 138 kV breakers Ivanhoe-Elm 138 kV	N/A Proposed
Elm		Transmission	138 kV	ISD: 06/23	Convert to a 5 breaker ring bus	N/A
Canfield Steel (Weldon)	s1952	Transmission	69 kV 69 kV 69 kV	ISD: 06/23	Build new 4 breaker ring bus substation Loop in Berlin Lake-Boardman Build Kimberly-Weldon 69 kV line	N/A Existing Proposed
Streetsboro		Transmission	69 kV 69 kV 69 kV 69 kV	ISD: 05/20	Expand to 5 Breaker Ring Bus Streetsboro-Darrow 69 kV (Reconfigured / Renamed Line) Streetsboro-Ravenna 69 kV (Reconfigured / Renamed Line) Streetsboro-Shalersville 69 kV (Reconfigured / Renamed Line)	N/A Existing Existing Existing
Shenango	s1712	Transmission	138/69 kV 69 kV 69 kV 69 kV 69 kV 69 kV	ISD: 12/21	Install two Transformers Create 6 Breaker Ring Bus Masury-Shenango 69 kV (Reconfigured / Renamed Line) Sharon-Shenango 69 kV (Reconfigured / Renamed Line) Cedar Street(Hillcrest)-Shenango 69 kV (Reconfigured / Renamed Line) Cedar Street(Bedford) - Shenango 69 kV (Reconfigured / Renamed Line)	N/A N/A Existing Existing Existing Existing
Oak Point	s1945	Transmission	138/69 kV	ISD: 11/22	Build new Breaker Ring Bus substation Install 138/69 kV Transformer Black River-Oak Point 69kV line (Reconfigured / Renamed Line) Oak Point-Shinrock 69kV line (Reconfigured / Renamed Line) Beaver-Oak Point 138kV line (Reconfigured / Renamed Line) Ford-Oak Point 138kV line (Reconfigured / Renamed Line)	N/A N/A Existing Existing Existing Existing

4901:5-5-04(D)(2)

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Cleveland Electric Illuminating Company Area

<u>Substation Name:</u>	<u>Tied to Project in T9?</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	b2557	Transmission	345 kV	ISD: 05/20	Install three new breakers	N/A
Ashtabula	sNNNN	Transmission	345 kV	ISD: 12/20	Expand to 6 Breaker Ring Bus Rebuild Ashtabula-Erie West-Perry line	N/A Existing
Clinton	s1987	Transmission	138 kV	ISD: 12/22	Build new breaker and a half scheme New Avon-Clinton double circuit lines	N/A Proposed
Astor	s1873	Transmission	138 kV	ISD: 06/23	Disconnect Black River-Republic Vine and re-route, expanding station Build new 4 circuit breaker ring bus switching station	Existing Proposed
Grand River	s1468	Transmission	138 kV	ISD: 05/20	Add a 138kV 4-Breaker Ring Bus	Proposed

PUCO FORM FE3-T10: SUMMARY OF PROPOSED SUBSTATIONS

ATSI-Toledo Edison Company Area

<u>Substation Name:</u>	<u>Tied to Project in T9?</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	s1703	Transmission	138 - 69 kV	ISD: 12/20	Convert to 4-breaker 138kV Ring Bus New 138 kV line exit to Bowling Green 138 kV substation Add Transformer Construct line section	N/A Proposed N/A Proposed
Stryker	s1697	Transmission	138 kV 138 kV	ISD: 05/20	Install new breaker Ridgeville-Stryker (Create Double Circuit)	N/A Proposed
Wauseon	s1698	Transmission	138 kV 138 kV	ISD: 03/21	Install new breaker Ridgeville Tap-Wauseon (Create Double Circuit)	N/A Proposed
Wentworth	s1700	Transmission	138 kV 138 kV	ISD: 06/21	Convert to 5 breaker ring bus Rebuild Angola-Eber-Vulcan 138 kV line	N/A Existing
Tallmadge	s1706	Transmission	138 kV	ISD: 12/21	Expand to a 4 breaker ring bus	N/A
Snyder	s1701	Transmission	69 kV 69 kV 69 kV 69 kV	ISD: 10/21	Create 3 Breaker Ring Bus substation Extend West Unity-Holiday City tap line (2.6 Miles) Exit 2-Bryon 69 kV Line (Reconfigured / Renamed Line) Exit 2-East Fayette 69 kV Line (Reconfigured / Renamed Line) Exit 2-West Unity 69 kV Line (Reconfigured / Renamed Line)	N/A Proposed Existing Existing Existing
Woodville	s1702	Transmission	138 kV 138 kV	ISD: 12/20	Construct a 5 breaker ring bus substation New West End-Woodville 138 kV line	N/A Proposed
Dixie	s1707	Transmission	138 kV	ISD: 06/21	Expand into a 6 breaker ring bus	N/A
Jackman	s1951	Transmission	69 kV 138/69 kV	ISD: 12/24	Convert to a 5 breaker ring bus Install new 138/69 kV Transformer	N/A N/A
Ryan	s1705	Transmission	69 kV 69 kV 69 kV 69 kV 69 kV	ISD: 04/20	Expand to a 6 Breaker Ring Bus Ryan-Oakdale 69 kV Transmission Line (Reconfigured Line) Ryan-Collins Park 69 kV Transmission Line (Reconfigured Line) Ryan-Sun Oil #1 69 kV Transmission Line (Reconfigured Line) Ryan-Locust 69 kV Transmission Line (Reconfigured Line)	N/A Existing Existing Existing Existing
Weston	s1953	Transmission	69 kV 69 kV	ISD: 12/23	Build New four (4) 69 kV Breaker Ring Bus Weston-Richland 69 kV Line (Rebuild / New line) Weston-Malinta 34.5 kV Line (Convert to 69 kV) Richland-Maroe 34.5kV Line (Convert to 69 kV)	N/A Proposed
Wynnscape	n6098, n6099, n6101, n6102, n6103, and n6104	Transmission	138 kV	ISD: 11/21	Build new 138kV 3-Breaker Ring Bus Substation Loop in Bayshore-GM Powertrain 138kV line	N/A Existing
Lallendorf	n6097, n6100	Transmission	345 kV	ISD: 11/22	Expand to 6 Breaker Ring Bus 345 kV line exit to AB1-107 collector substation	N/A Proposed
Ayersville	s1953	Transmission	138/69 kV	ISD: 12/23	Reconfigure the 138 kV yard to a 4- Breaker Ring Bus Install four (4) new 138 kV breakers Install one (1) new 138/69 kV transformer Install one (1) new 69 kV breaker	N/A N/A N/A N/A

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)
						Energy Efficiency & Demand Response ^d	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load ^c
Year	Residential	Commercial	Industrial	Transportation ^a	Other ^b				
-5 2015	9,222,000	6,662,000	8,266,000	-	142,000	-	24,292,000	1,609,000	25,901,000
-4 2016	9,429,000	6,748,000	7,910,000	-	140,000	-	24,227,000	1,450,000	25,677,000
-3 2017	8,931,000	6,463,000	7,879,000	-	139,000	-	23,412,000	838,000	24,250,000
-2 2018	9,650,000	6,601,000	8,022,000	-	140,000	-	24,414,000	1,537,000	25,951,000
-1 2019	9,258,000	6,345,000	7,699,000	-	139,000	-	23,441,000	1,499,000	24,940,000
0 2020	9,165,000	6,458,000	7,832,000	-	135,000	(85,000)	23,505,000	1,733,000	25,238,000
1 2021	9,131,000	6,453,000	7,908,000	-	135,000	(85,000)	23,542,000	1,731,000	25,273,000
2 2022	9,129,000	6,459,000	8,007,000	-	135,000	(85,000)	23,644,000	1,735,000	25,379,000
3 2023	9,136,000	6,462,000	8,009,000	-	135,000	(85,000)	23,656,000	1,736,000	25,392,000
4 2024	9,163,000	6,471,000	8,035,000	-	135,000	(85,000)	23,718,000	1,740,000	25,458,000
5 2025	9,173,000	6,455,000	8,014,000	-	135,000	(85,000)	23,691,000	4,309,000	28,000,000
6 2026	9,195,000	6,464,000	7,953,000	-	135,000	(85,000)	23,661,000	4,134,000	27,795,000
7 2027	9,225,000	6,476,000	7,940,000	-	135,000	(85,000)	23,691,000	4,133,000	27,824,000
8 2028	9,269,000	6,495,000	7,963,000	-	135,000	(85,000)	23,778,000	4,147,000	27,925,000
9 2029	9,303,000	6,515,000	7,962,000	-	135,000	(85,000)	23,830,000	4,152,000	27,982,000
10 2030	9,325,000	6,529,000	7,947,000	-	135,000	(85,000)	23,851,000	4,151,000	28,002,000

^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 2019.

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 2015	5,490,000	6,548,000	6,323,000	-	141,000	-	18,502,000	1,149,000	19,651,000
-4 2016	5,669,000	6,661,000	6,349,000	-	139,000	-	18,818,000	1,163,000	19,981,000
-3 2017	5,306,000	6,283,000	6,557,000	-	144,000	-	18,291,000	1,315,000	19,606,000
-2 2018	5,701,000	6,385,000	6,580,000	-	140,000	-	18,806,000	1,101,000	19,907,000
-1 2019	5,399,000	6,206,000	6,309,000	-	140,000	-	18,054,000	1,091,000	19,145,000
0 2020	5,315,000	6,301,000	6,383,000	-	136,000	(69,000)	18,066,000	1,272,000	19,338,000
1 2021	5,307,000	6,277,000	6,716,000	-	136,000	(69,000)	18,367,000	1,278,000	19,645,000
2 2022	5,321,000	6,286,000	6,785,000	-	137,000	(69,000)	18,460,000	1,282,000	19,742,000
3 2023	5,341,000	6,296,000	6,784,000	-	138,000	(69,000)	18,489,000	1,285,000	19,774,000
4 2024	5,372,000	6,311,000	6,799,000	-	138,000	(69,000)	18,551,000	1,289,000	19,840,000
5 2025	5,389,000	6,321,000	7,506,000	-	138,000	(69,000)	19,285,000	1,312,000	20,597,000
6 2026	5,415,000	6,331,000	7,514,000	-	138,000	(69,000)	19,328,000	1,315,000	20,643,000
7 2027	5,448,000	6,345,000	7,529,000	-	138,000	(69,000)	19,390,000	1,320,000	20,710,000
8 2028	5,491,000	6,367,000	7,552,000	-	138,000	(69,000)	19,478,000	1,327,000	20,805,000
9 2029	5,526,000	6,390,000	7,571,000	-	138,000	(69,000)	19,556,000	1,332,000	20,888,000
10 2030	5,550,000	6,404,000	7,585,000	-	138,000	(69,000)	19,608,000	1,336,000	20,944,000

^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 2019.

4901:5-5-05 (B)(1)(a)
PUCO FORM FE - D1: 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)
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 2015	2,469,000	1,975,000	5,959,000	-	51,000	-	10,455,000	855,000	11,310,000
-4 2016	2,560,000	2,014,000	6,016,000	-	53,000	-	10,643,000	870,000	11,513,000
-3 2017	2,411,000	1,883,000	6,034,000	-	52,000	-	10,380,000	933,000	11,313,000
-2 2018	2,598,000	1,903,000	6,044,000	-	52,000	-	10,597,000	557,000	11,154,000
-1 2019	2,506,000	1,840,000	5,971,000	-	52,000	-	10,369,000	482,000	10,851,000
0 2020	2,468,000	1,874,000	6,132,000	-	50,000	(26,000)	10,498,000	574,000	11,072,000
1 2021	2,470,000	1,857,000	6,227,000	-	49,000	(26,000)	10,576,000	575,000	11,151,000
2 2022	2,483,000	1,841,000	6,301,000	-	48,000	(26,000)	10,648,000	576,000	11,224,000
3 2023	2,501,000	1,825,000	6,329,000	-	47,000	(26,000)	10,676,000	577,000	11,253,000
4 2024	2,525,000	1,811,000	6,380,000	-	47,000	(26,000)	10,737,000	580,000	11,317,000
5 2025	2,542,000	1,798,000	6,422,000	-	47,000	(26,000)	10,783,000	581,000	11,364,000
6 2026	2,561,000	1,786,000	6,464,000	-	47,000	(26,000)	10,831,000	583,000	11,414,000
7 2027	2,583,000	1,772,000	6,518,000	-	47,000	(26,000)	10,894,000	585,000	11,479,000
8 2028	2,608,000	1,759,000	6,584,000	-	47,000	(26,000)	10,971,000	589,000	11,560,000
9 2029	2,627,000	1,746,000	6,644,000	-	47,000	(26,000)	11,038,000	590,000	11,628,000
10 2030	2,642,000	1,733,000	6,698,000	-	47,000	(26,000)	11,094,000	592,000	11,686,000

^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 2019.

PUCO FORM FE - D1: 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 2015	17,181,000	15,185,000	20,548,000	-	334,000	-	53,248,000	3,613,000	56,862,000
-4 2016	17,658,000	15,423,000	20,275,000	-	332,000	-	53,688,000	3,483,000	57,171,000
-3 2017	16,648,000	14,629,000	20,470,000	-	335,000	-	52,082,000	3,086,000	55,169,000
-2 2018	17,949,000	14,889,000	20,646,000	-	332,000	-	53,816,000	3,195,000	57,012,000
-1 2019	17,163,000	14,391,000	19,979,000	-	331,000	-	51,864,000	3,072,000	54,936,000
0 2020	16,948,000	14,633,000	20,347,000	-	321,000	(180,000)	52,069,000	3,579,000	55,648,000
1 2021	16,908,000	14,587,000	20,851,000	-	320,000	(180,000)	52,486,000	3,584,000	56,069,000
2 2022	16,933,000	14,586,000	21,093,000	-	320,000	(180,000)	52,752,000	3,593,000	56,345,000
3 2023	16,978,000	14,583,000	21,122,000	-	320,000	(180,000)	52,823,000	3,598,000	56,419,000
4 2024	17,060,000	14,593,000	21,214,000	-	320,000	(180,000)	53,007,000	3,609,000	56,615,000
5 2025	17,104,000	14,574,000	21,942,000	-	320,000	(180,000)	53,760,000	6,202,000	59,961,000
6 2026	17,171,000	14,581,000	21,931,000	-	320,000	(180,000)	53,823,000	6,032,000	59,852,000
7 2027	17,256,000	14,593,000	21,987,000	-	320,000	(180,000)	53,976,000	6,038,000	60,013,000
8 2028	17,368,000	14,621,000	22,099,000	-	320,000	(180,000)	54,228,000	6,063,000	60,290,000
9 2029	17,456,000	14,651,000	22,177,000	-	320,000	(180,000)	54,424,000	6,074,000	60,498,000
10 2030	17,517,000	14,666,000	22,230,000	-	320,000	(180,000)	54,553,000	6,079,000	60,632,000

^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 2019.

4901:5-5-05 (B)(1)(b)
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)
							Energy Efficiency & Demand Response ^d	Total End User Consumption	Losses And Unaccounted For Company	Net Energy For Load
Year		Residential	Commercial	Industrial	Transportation ^a	Other ^b				
-5	2015	18,884,000	16,506,000	22,044,000	-	340,000	-	57,774,000	3,828,000	61,603,000
-4	2016	19,344,000	16,778,000	21,844,000	-	337,000	-	58,303,000	3,694,000	61,997,000
-3	2017	18,239,000	15,931,000	22,208,000	-	338,000	-	56,716,000	3,276,000	59,993,000
-2	2018	19,662,000	16,245,000	22,472,000	-	335,000	-	58,714,000	3,434,000	62,149,000
-1	2019	18,801,000	15,471,000	21,922,000	-	334,000	-	56,528,000	3,287,000	59,815,000
0	2020	18,561,000	15,649,000	22,435,000	-	325,000	(180,000)	56,790,000	3,899,000	60,689,000
1	2021	18,512,000	15,583,000	22,972,000	-	324,000	(180,000)	57,211,000	3,905,000	61,115,000
2	2022	18,540,000	15,563,000	23,246,000	-	324,000	(180,000)	57,493,000	3,913,000	61,406,000
3	2023	18,594,000	15,550,000	23,342,000	-	324,000	(180,000)	57,630,000	3,919,000	61,547,000
4	2024	18,717,000	15,616,000	23,512,000	-	324,000	(180,000)	57,989,000	3,943,000	61,931,000
5	2025	18,768,000	15,875,000	23,987,000	-	324,000	(180,000)	58,774,000	6,538,000	65,311,000
6	2026	18,842,000	15,883,000	24,002,000	-	324,000	(180,000)	58,871,000	6,370,000	65,238,000
7	2027	18,937,000	15,897,000	24,087,000	-	324,000	(180,000)	59,065,000	6,378,000	65,442,000
8	2028	19,063,000	15,935,000	24,230,000	-	324,000	(180,000)	59,372,000	6,406,000	65,777,000
9	2029	19,164,000	15,967,000	24,338,000	-	324,000	(180,000)	59,613,000	6,420,000	66,033,000
10	2030	19,234,000	15,984,000	24,419,000	-	324,000	(180,000)	59,782,000	6,426,000	66,208,000

^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 2019.

Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

The Ohio Edison Company

		Native Load				Internal Load ^b			
		<u>Energy</u>		<u>Net</u>		<u>Energy</u>		<u>Net</u>	
		<u>Efficiency &</u>		<u>Demand</u>		<u>Efficiency &</u>		<u>Demand</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	2015	4,979	-	4,979	3,931	5,025	-	5,025	3,977
-4	2016	5,126	-	5,126	3,842	5,280	-	5,280	3,996
-3	2017	4,466	-	4,466	3,741	4,754	-	4,754	4,029
-2	2018	4,842	-	4,842	3,865	5,058	-	5,058	4,081
-1	2019	4,719	-	4,719	3,802	4,935	-	4,935	4,018
0	2020	4,991	(226)	4,766	3,777	5,207	(226)	4,982	3,993
1	2021	5,009	(226)	4,784	3,797	5,225	(226)	5,000	4,013
2	2022	5,033	(226)	4,807	3,794	5,249	(226)	5,023	4,010
3	2023	5,039	(226)	4,814	3,796	5,255	(226)	5,030	4,012
4	2024	5,057	(226)	4,831	3,792	5,273	(226)	5,047	4,008
5	2025	5,058	(226)	4,832	3,777	5,274	(226)	5,048	3,993
6	2026	5,060	(226)	4,834	3,770	5,276	(226)	5,050	3,986
7	2027	5,074	(226)	4,849	3,774	5,290	(226)	5,065	3,990
8	2028	5,098	(226)	4,872	3,778	5,314	(226)	5,088	3,994
9	2029	5,117	(226)	4,891	3,774	5,333	(226)	5,107	3,990
10	2030	5,130	(226)	4,904	3,771	5,346	(226)	5,120	3,987

^a Winter load reference is the peak loads which follows the summer peak load.^b Internal Load equals Native plus Interruptible.^c Incremental to 2019.

PUCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

The Cleveland Electric Illuminating Company

		Native Load				Internal Load ^b			
		<u>Energy</u> <u>Efficiency &</u> <u>Demand</u>		<u>Net</u>		<u>Energy</u> <u>Efficiency &</u> <u>Demand</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	2015	3,733	-	3,733	2,893	3,801	-	3,801	2,961
-4	2016	3,886	-	3,886	2,974	3,982	-	3,982	3,070
-3	2017	3,801	-	3,801	2,831	3,991	-	3,991	3,021
-2	2018	3,776	-	3,776	2,863	3,966	-	3,966	3,053
-1	2019	3,661	-	3,661	2,785	3,851	-	3,851	2,975
0	2020	3,846	(197)	3,649	2,785	4,036	(197)	3,839	2,975
1	2021	3,892	(197)	3,695	2,830	4,082	(197)	3,885	3,020
2	2022	3,902	(197)	3,705	2,837	4,092	(197)	3,895	3,027
3	2023	3,906	(197)	3,709	2,843	4,096	(197)	3,899	3,033
4	2024	3,915	(197)	3,718	2,849	4,105	(197)	3,908	3,039
5	2025	3,922	(197)	3,725	2,853	4,112	(197)	3,915	3,043
6	2026	3,930	(197)	3,733	2,859	4,120	(197)	3,923	3,049
7	2027	3,941	(197)	3,743	2,867	4,131	(197)	3,933	3,057
8	2028	3,954	(197)	3,757	2,877	4,144	(197)	3,947	3,067
9	2029	3,968	(197)	3,770	2,882	4,158	(197)	3,960	3,072
10	2030	3,977	(197)	3,780	2,887	4,167	(197)	3,970	3,077

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

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2019.

PUCO Form FE-D3: 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>Response^c</u>		<u>Response^c</u>		<u>Response^c</u>	
<u>Year</u>	<u>Summer</u>	<u>Summer</u>	<u>Winter^a</u>	<u>Summer</u>	<u>Summer</u>	<u>Summer</u>	<u>Summer</u>	<u>Summer</u>	<u>Winter</u>
-5 2015	1,891	-	1,891	1,516	2,059	-	2,059	1,684	
-4 2016	2,143	-	2,143	1,570	2,311	-	2,311	1,738	
-3 2017	1,927	-	1,927	1,480	2,128	-	2,128	1,681	
-2 2018	1,993	-	1,993	1,529	2,186	-	2,186	1,722	
-1 2019	1,915	-	1,915	1,440	2,108	-	2,108	1,633	
0 2020	2,065	(196)	1,869	1,465	2,258	(196)	2,062	1,658	
1 2021	2,075	(196)	1,879	1,477	2,268	(196)	2,072	1,670	
2 2022	2,087	(196)	1,891	1,484	2,280	(196)	2,084	1,677	
3 2023	2,094	(196)	1,898	1,492	2,287	(196)	2,091	1,685	
4 2024	2,104	(196)	1,908	1,500	2,297	(196)	2,101	1,693	
5 2025	2,114	(196)	1,918	1,507	2,307	(196)	2,111	1,700	
6 2026	2,119	(196)	1,923	1,515	2,312	(196)	2,116	1,708	
7 2027	2,129	(196)	1,933	1,525	2,322	(196)	2,126	1,718	
8 2028	2,141	(196)	1,945	1,536	2,334	(196)	2,138	1,729	
9 2029	2,153	(196)	1,957	1,544	2,346	(196)	2,150	1,737	
10 2030	2,162	(196)	1,966	1,552	2,355	(196)	2,159	1,745	

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

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2019.

PUCO Form FE-D3: Electric Utility Ohio Seasonal Peak Load Demand Forecast
(Megawatts)

Total Ohio

		Native Load			Internal Load ^b				
		<u>Energy</u>	<u>Efficiency &</u>	<u>Net</u>	<u>Energy</u>				
		<u>Demand</u>	<u>Response^c</u>	<u>Summer</u>	<u>Winter^a</u>	<u>Summer</u>	<u>Response</u>	<u>Summer</u>	<u>Winter</u>
Year	Summer								
-5 2015	10,245	-	10,245	8,339	10,527	-	10,527	8,621	
-4 2016	10,459	-	10,459	8,350	10,877	-	10,877	8,768	
-3 2017	9,554	-	9,554	7,989	10,233	-	10,233	8,668	
-2 2018	10,313	-	10,313	8,200	10,912	-	10,912	8,799	
-1 2019	10,145	-	10,145	7,964	10,744	-	10,744	8,563	
0 2020	10,774	(619)	10,155	7,964	11,373	(619)	10,754	8,563	
1 2021	10,847	(619)	10,228	8,041	11,446	(619)	10,827	8,640	
2 2022	10,893	(619)	10,273	8,052	11,492	(619)	10,872	8,651	
3 2023	10,910	(619)	10,291	8,067	11,509	(619)	10,890	8,666	
4 2024	10,946	(619)	10,327	8,077	11,545	(619)	10,926	8,676	
5 2025	10,964	(619)	10,345	8,074	11,563	(619)	10,944	8,673	
6 2026	10,978	(619)	10,359	8,080	11,577	(619)	10,958	8,679	
7 2027	11,013	(619)	10,394	8,103	11,612	(619)	10,993	8,702	
8 2028	11,062	(619)	10,443	8,128	11,661	(619)	11,042	8,727	
9 2029	11,106	(619)	10,487	8,136	11,705	(619)	11,086	8,735	
10 2030	11,136	(619)	10,517	8,146	11,735	(619)	11,116	8,745	

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

^b Internal Load equals Native plus Interruptible.

^c Incremental to 2019.

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	2015	11,080	9,120	11,362	9,402
-4	2016	11,333	9,194	11,751	9,612
-3	2017	10,406	8,833	11,085	9,512
-2	2018	11,222	9,041	11,821	9,640
-1	2019	10,960	8,811	11,559	9,410
0	2020	11,007	8,806	11,606	9,405
1	2021	11,082	8,894	11,681	9,493
2	2022	11,129	8,920	11,728	9,519
3	2023	11,156	8,946	11,755	9,545
4	2024	11,200	8,965	11,799	9,564
5	2025	11,224	8,970	11,823	9,569
6	2026	11,245	8,985	11,844	9,584
7	2027	11,288	9,017	11,887	9,616
8	2028	11,347	9,052	11,946	9,651
9	2029	11,401	9,067	12,000	9,666
10	2030	11,439	9,086	12,038	9,685

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

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

Ohio Edison Company

Monthly Net Energy For Load Forecast		
Year 0-2020	<u>Ohio Service Area</u>	<u>System</u> ^a
January	2,351,001	5,575,503
February	2,125,841	5,028,385
March	2,112,557	5,093,741
April	1,838,580	4,509,611
May	1,928,935	4,675,677
June	2,109,809	5,098,051
July	2,357,116	5,621,352
August	2,333,307	5,591,984
September	1,975,049	4,818,975
October	1,909,512	4,634,346
November	1,975,786	4,729,333
December	2,220,609	5,311,913
Year 1-2021		
January	2,337,491	5,573,963
February	2,106,042	5,025,003
March	2,104,541	5,124,828
April	1,838,762	4,546,779
May	1,933,139	4,712,262
June	2,115,858	5,137,025
July	2,365,256	5,664,339
August	2,344,801	5,638,788
September	1,987,194	4,867,384
October	1,923,089	4,689,619
November	1,988,057	4,779,403
December	2,229,152	5,355,782

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

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

The Cleveland Electric Illuminating Company

Monthly Net Energy For Load Forecast		
Year 0-2020	<u>Ohio Service Area</u>	<u>System</u> ^a
January	1,778,855	5,575,503
February	1,580,189	5,028,385
March	1,638,887	5,093,741
April	1,443,946	4,509,611
May	1,499,419	4,675,677
June	1,638,511	5,098,051
July	1,786,250	5,621,352
August	1,791,035	5,591,984
September	1,551,542	4,818,975
October	1,460,631	4,634,346
November	1,503,045	4,729,333
December	1,665,873	5,311,913
Year 1-2021		
January	1,778,833	5,573,963
February	1,592,997	5,025,003
March	1,668,133	5,124,828
April	1,472,580	4,546,779
May	1,527,681	4,712,262
June	1,667,600	5,137,025
July	1,815,624	5,664,339
August	1,821,956	5,638,788
September	1,581,043	4,867,384
October	1,491,516	4,689,619
November	1,532,006	4,779,403
December	1,695,023	5,355,782

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

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

The Toledo Edison Company

Monthly Net Energy For Load Forecast		
Year 0-2020	<u>Ohio Service Area</u>	<u>System</u> ^a
January	970,650	5,575,503
February	884,722	5,028,385
March	904,033	5,093,741
April	838,115	4,509,611
May	863,218	4,675,677
June	937,917	5,098,051
July	1,039,168	5,621,352
August	1,029,851	5,591,984
September	904,375	4,818,975
October	882,660	4,634,346
November	858,894	4,729,333
December	958,002	5,311,913
Year 1-2021		
January	984,648	5,573,963
February	893,675	5,025,003
March	917,079	5,124,828
April	847,099	4,546,779
May	867,287	4,712,262
June	940,785	5,137,025
July	1,042,869	5,664,339
August	1,031,606	5,638,788
September	908,413	4,867,384
October	890,521	4,689,619
November	864,505	4,779,403
December	962,721	5,355,782

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

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

Total Ohio

Monthly Net Energy For Load Forecast		
Year 0-2020	<u>Ohio Service Area</u>	<u>System</u> ^a
January	5,100,507	5,575,503
February	4,590,752	5,028,385
March	4,655,478	5,093,741
April	4,120,641	4,509,611
May	4,291,572	4,675,677
June	4,686,238	5,098,051
July	5,182,534	5,621,352
August	5,154,193	5,591,984
September	4,430,967	4,818,975
October	4,252,803	4,634,346
November	4,337,725	4,729,333
December	4,844,484	5,311,913
Year 1-2021		
January	5,100,972	5,573,963
February	4,592,714	5,025,003
March	4,689,752	5,124,828
April	4,158,440	4,546,779
May	4,328,108	4,712,262
June	4,724,244	5,137,025
July	5,223,748	5,664,339
August	5,198,364	5,638,788
September	4,476,650	4,867,384
October	4,305,126	4,689,619
November	4,384,569	4,779,403
December	4,886,897	5,355,782

^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 0-2020						
January	4,027	(226)	3,802	8,811	4,018	9,410
February	3,853	(226)	3,627	8,409	3,843	9,008
March	3,572	(226)	3,347	7,871	3,563	8,470
April	3,282	(226)	3,057	7,343	3,273	7,942
May	3,876	(226)	3,650	8,827	3,866	9,426
June	4,605	(226)	4,379	10,238	4,595	10,837
July	4,991	(226)	4,766	11,007	4,982	11,606
August	4,848	(226)	4,622	10,648	4,838	11,247
September	4,229	(226)	4,003	9,463	4,219	10,062
October	3,380	(226)	3,154	7,395	3,370	7,994
November	3,440	(226)	3,214	7,561	3,430	8,160
December	3,841	(226)	3,615	8,417	3,831	9,016
Year 1-2021						
January	4,003	(226)	3,777	8,806	3,993	9,405
February	3,828	(226)	3,602	8,432	3,818	9,031
March	3,558	(226)	3,332	7,912	3,548	8,511
April	3,282	(226)	3,056	7,379	3,272	7,978
May	3,884	(226)	3,659	8,875	3,875	9,474
June	4,618	(226)	4,392	10,298	4,608	10,897
July	5,009	(226)	4,784	11,082	5,000	11,681
August	4,871	(226)	4,646	10,717	4,862	11,316
September	4,254	(226)	4,028	9,534	4,244	10,133
October	3,402	(226)	3,177	7,466	3,393	8,065
November	3,462	(226)	3,236	7,636	3,452	8,235
December	3,860	(226)	3,635	8,497	3,851	9,096

^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 2019

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 0-2020						
January	2,982	(197)	2,785	8,811	2,975	9,410
February	2,883	(197)	2,686	8,409	2,876	9,008
March	2,738	(197)	2,541	7,871	2,731	8,470
April	2,695	(197)	2,498	7,343	2,688	7,942
May	3,189	(197)	2,991	8,827	3,181	9,426
June	3,625	(197)	3,427	10,238	3,617	10,837
July	3,846	(197)	3,649	11,007	3,839	11,606
August	3,702	(197)	3,505	10,648	3,695	11,247
September	3,306	(197)	3,109	9,463	3,299	10,062
October	2,585	(197)	2,388	7,395	2,578	7,994
November	2,629	(197)	2,432	7,561	2,622	8,160
December	2,867	(197)	2,670	8,417	2,860	9,016
Year 1-2021						
January	2,982	(197)	2,785	8,806	2,975	9,405
February	2,909	(197)	2,712	8,432	2,902	9,031
March	2,777	(197)	2,580	7,912	2,770	8,511
April	2,725	(197)	2,527	7,379	2,717	7,978
May	3,227	(197)	3,030	8,875	3,220	9,474
June	3,668	(197)	3,471	10,298	3,661	10,897
July	3,892	(197)	3,695	11,082	3,885	11,681
August	3,746	(197)	3,549	10,717	3,739	11,316
September	3,347	(197)	3,150	9,534	3,340	10,133
October	2,614	(197)	2,417	7,466	2,607	8,065
November	2,671	(197)	2,473	7,636	2,663	8,235
December	2,910	(197)	2,712	8,497	2,902	9,096

^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 2019

Monthly Peak Load Forecast
(Megawatts) ^a

The Toledo Edison Company

	Monthly Native Load Forecast				Monthly Internal Load Forecast ^c	
Year 0-2020	<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>
January	1,636	(196)	1,440	8,811	1,633	9,410
February	1,578	(196)	1,382	8,409	1,575	9,008
March	1,511	(196)	1,315	7,871	1,508	8,470
April	1,446	(196)	1,250	7,343	1,443	7,942
May	1,769	(196)	1,573	8,827	1,766	9,426
June	1,959	(196)	1,763	10,238	1,956	10,837
July	2,065	(196)	1,869	11,007	2,062	11,606
August	2,049	(196)	1,853	10,648	2,046	11,247
September	1,871	(196)	1,675	9,463	1,868	10,062
October	1,570	(196)	1,374	7,395	1,567	7,994
November	1,489	(196)	1,293	7,561	1,486	8,160
December	1,605	(196)	1,409	8,417	1,602	9,016
Year 1-2021						
January	1,661	(196)	1,465	8,806	1,658	9,405
February	1,599	(196)	1,403	8,432	1,596	9,031
March	1,535	(196)	1,339	7,912	1,532	8,511
April	1,463	(196)	1,267	7,379	1,460	7,978
May	1,775	(196)	1,579	8,875	1,772	9,474
June	1,967	(196)	1,771	10,298	1,964	10,897
July	2,075	(196)	1,879	11,082	2,072	11,681
August	2,051	(196)	1,855	10,717	2,048	11,316
September	1,879	(196)	1,683	9,534	1,876	10,133
October	1,588	(196)	1,392	7,466	1,585	8,065
November	1,499	(196)	1,303	7,636	1,496	8,235
December	1,614	(196)	1,418	8,497	1,611	9,096

^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 2019

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: 2020

	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	4,372	4,182	3,877	3,562	4,207	5,001	5,421	5,265	4,592	3,667	3,733	4,169
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	4,372	4,182	3,877	3,562	4,207	5,001	5,421	5,265	4,592	3,667	3,733	4,169
Native Load	3,802	3,627	3,347	3,057	3,650	4,379	4,766	4,622	4,003	3,154	3,214	3,615
Available Reserve ^c	570	555	530	505	557	621	655	643	588	513	519	554
Internal Load ^d	4,018	3,843	3,563	3,273	3,866	4,595	4,982	4,838	4,219	3,370	3,430	3,831
Reserve ^{c,e}	354	339	314	289	341	405	439	427	372	297	303	338

Next Calendar Year: 2021

	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	4,345	4,155	3,861	3,561	4,216	5,009	5,435	5,285	4,614	3,688	3,752	4,186
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	4,345	4,155	3,861	3,561	4,216	5,009	5,435	5,285	4,614	3,688	3,752	4,186
Native Load	3,777	3,602	3,332	3,056	3,659	4,392	4,784	4,646	4,028	3,177	3,236	3,635
Available Reserve ^c	568	553	529	505	558	617	651	639	585	511	516	551
Internal Load ^d	3,993	3,818	3,548	3,272	3,875	4,608	5,000	4,862	4,244	3,393	3,452	3,851
Reserve ^{c,e}	352	337	313	289	342	401	435	423	369	295	300	335

^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) 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: 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	3,237	3,130	2,971	2,925	3,462	3,936	4,177	4,021	3,590	2,805	2,853	3,112
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	3,237	3,130	2,971	2,925	3,462	3,936	4,177	4,021	3,590	2,805	2,853	3,112
Native Load	2,785	2,686	2,541	2,498	2,991	3,427	3,649	3,505	3,109	2,388	2,432	2,670
Available Reserve ^c	452	444	431	427	471	509	529	516	481	417	421	442
Internal Load ^d	2,975	2,876	2,731	2,688	3,181	3,617	3,839	3,695	3,299	2,578	2,622	2,860
Reserve ^{c,e}	262	254	241	237	281	319	339	326	291	227	231	252

Next Calendar Year: 2021

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	3,237	3,157	3,014	2,957	3,504	3,980	4,223	4,064	3,630	2,834	2,895	3,155
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	3,237	3,157	3,014	2,957	3,504	3,980	4,223	4,064	3,630	2,834	2,895	3,155
Native Load	2,785	2,712	2,580	2,527	3,030	3,471	3,695	3,549	3,150	2,417	2,473	2,712
Available Reserve ^c	452	446	434	430	474	509	528	515	481	417	422	443
Internal Load ^d	2,975	2,902	2,770	2,717	3,220	3,661	3,885	3,739	3,340	2,607	2,663	2,902
Reserve ^{c,e}	262	256	244	240	284	319	338	325	291	227	232	253

^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) 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: 2020												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Purchases ^a	1,777	1,714	1,641	1,570	1,922	2,128	2,244	2,226	2,032	1,705	1,617	1,743
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	1,777	1,714	1,641	1,570	1,922	2,128	2,244	2,226	2,032	1,705	1,617	1,743
Native Load	1,440	1,382	1,315	1,250	1,573	1,763	1,869	1,853	1,675	1,374	1,293	1,409
Available Reserve ^c	337	332	326	320	349	365	375	373	358	331	324	334
Internal Load ^d	1,633	1,575	1,508	1,443	1,766	1,956	2,062	2,046	1,868	1,567	1,486	1,602
Reserve ^{c,e}	144	139	133	127	156	172	182	180	165	138	131	141
Next Calendar Year: 2021												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Net Demonstrated Capability												
Net Seasonal Capability												
Purchases ^a	1,804	1,737	1,667	1,588	1,928	2,135	2,252	2,226	2,039	1,723	1,626	1,751
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	1,804	1,737	1,667	1,588	1,928	2,135	2,252	2,226	2,039	1,723	1,626	1,751
Native Load	1,465	1,403	1,339	1,267	1,579	1,771	1,879	1,855	1,683	1,392	1,303	1,418
Available Reserve ^c	339	334	328	322	349	364	373	371	356	331	323	333
Internal Load ^d	1,658	1,596	1,532	1,460	1,772	1,964	2,072	2,048	1,876	1,585	1,496	1,611
Reserve ^{c,e}	146	141	135	129	156	171	180	178	163	138	130	140

^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) 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: 2020

	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	10,240	9,802	9,217	8,642	10,257	11,793	12,629	12,239	10,950	8,699	8,880	9,811
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	10,240	9,802	9,217	8,642	10,257	11,793	12,629	12,239	10,950	8,699	8,880	9,811
Native Load	8,811	8,409	7,871	7,343	8,827	10,238	11,007	10,648	9,463	7,395	7,561	8,417
Available Reserve ^c	1,429	1,393	1,346	1,299	1,430	1,555	1,623	1,591	1,486	1,304	1,319	1,394
Internal Load ^d	9,410	9,008	8,470	7,942	9,426	10,837	11,606	11,247	10,062	7,994	8,160	9,016
Reserve ^{c e}	830	794	747	700	831	956	1,024	992	887	705	720	795

Next Calendar Year: 2021

	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	10,235	9,827	9,262	8,681	10,310	11,845	12,697	12,301	11,014	8,766	8,952	9,887
Sales	0	0	0	0	0	0	0	0	0	0	0	0
Available Capability ^b	10,235	9,827	9,262	8,681	10,310	11,845	12,697	12,301	11,014	8,766	8,952	9,887
Native Load	8,806	8,432	7,912	7,379	8,875	10,298	11,082	10,717	9,534	7,466	7,636	8,497
Available Reserve ^c	1,429	1,396	1,350	1,303	1,435	1,547	1,615	1,583	1,481	1,301	1,315	1,390
Internal Load ^d	9,405	9,031	8,511	7,978	9,474	10,897	11,681	11,316	10,133	8,065	8,235	9,096
Reserve ^{c e}	830	797	751	704	836	948	1,016	984	882	702	716	791

^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) 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.

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
----------------------------	----------	---------------	-------------------------------------	--------------------------------	------------------------------	------------------------------	---

^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)

		Unit Designation	Seasonal
Year/Season	Unit Name	Description	Total

^a Not applicable

Unit Designation		Capability	Seasonal	
Year/Season	Unit Name	Description	Changes	Total

^a The companies do not own or operate generation.

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)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	5,483	5,783	5,181	5,516	5,376	5,421	5,435	5,459
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	5,483	5,783	5,181	5,516	5,376	5,421	5,435	5,459
Native Load	4,979	5,126	4,466	4,842	4,719	4,766	4,784	4,807
Available Reserve ^c	505	657	714	674	658	655	651	652
Internal Load ^d	5,025	5,280	4,754	5,058	4,935	4,982	5,000	5,023
Reserve ^{c,e}	459	503	426	458	442	439	435	436
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	5,462	5,481	5,482	5,484	5,500	5,526	5,547	5,560
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	5,462	5,481	5,482	5,484	5,500	5,526	5,547	5,560
Native Load	4,814	4,831	4,832	4,834	4,849	4,872	4,891	4,904
Available Reserve ^c	649	650	650	650	652	654	655	656
Internal Load ^d	5,030	5,047	5,048	5,050	5,065	5,088	5,107	5,120
Reserve ^{c,e}	433	434	434	434	436	438	439	440

^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)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,148	4,361	4,349	4,325	4,196	4,177	4,223	4,232
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,148	4,361	4,349	4,325	4,196	4,177	4,223	4,232
Native Load	3,733	3,886	3,801	3,776	3,661	3,649	3,695	3,705
Available Reserve ^c	415	475	548	549	535	529	528	528
Internal Load ^d	3,801	3,982	3,991	3,966	3,851	3,839	3,885	3,895
Reserve ^{c,e}	347	379	358	359	345	339	338	338
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	4,234	4,244	4,252	4,260	4,272	4,286	4,301	4,311
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,234	4,244	4,252	4,260	4,272	4,286	4,301	4,311
Native Load	3,709	3,718	3,725	3,733	3,743	3,757	3,770	3,780
Available Reserve ^c	525	526	527	527	528	529	531	531
Internal Load ^d	3,899	3,908	3,915	3,923	3,933	3,947	3,960	3,970
Reserve ^{c,e}	335	336	337	337	338	339	341	341

^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)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	2,247	2,531	2,319	2,384	2,297	2,244	2,252	2,265
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	2,247	2,531	2,319	2,384	2,297	2,244	2,252	2,265
Native Load	1,891	2,143	1,927	1,993	1,915	1,869	1,879	1,891
Available Reserve ^c	356	388	392	391	382	375	373	374
Internal Load ^d	2,059	2,311	2,128	2,186	2,108	2,062	2,072	2,084
Reserve ^{c,e}	188	220	191	198	189	182	180	181
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	2,271	2,282	2,293	2,298	2,309	2,322	2,335	2,344
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	2,271	2,282	2,293	2,298	2,309	2,322	2,335	2,344
Native Load	1,898	1,908	1,918	1,923	1,933	1,945	1,957	1,966
Available Reserve ^c	373	374	375	375	376	377	378	379
Internal Load ^d	2,091	2,101	2,111	2,116	2,126	2,138	2,150	2,159
Reserve ^{c,e}	180	181	182	182	183	184	185	186

^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) 2015	(-4) 2016	(-3) 2017	(-2) 2018	(-1) 2019	(0) 2020	(1) 2021	(2) 2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	12,400	12,870	12,079	12,890	12,594	12,629	12,697	12,745
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	12,400	12,870	12,079	12,890	12,594	12,629	12,697	12,745
Native Load	11,080	11,333	10,406	11,222	10,960	11,007	11,082	11,129
Available Reserve ^c	1,319	1,537	1,673	1,669	1,634	1,623	1,615	1,616
Internal Load ^d	11,362	11,751	11,085	11,821	11,559	11,606	11,681	11,728
Reserve ^{c,e}	1,037	1,119	994	1,070	1,035	1,024	1,016	1,017

	(3) 2023	(4) 2024	(5) 2025	(6) 2026	(7) 2027	(8) 2028	(9) 2029	(10) 2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	12,766	12,813	12,840	12,863	12,909	12,974	13,032	13,074
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	12,766	12,813	12,840	12,863	12,909	12,974	13,032	13,074
Native Load	11,156	11,200	11,224	11,245	11,288	11,347	11,401	11,439
Available Reserve ^c	1,610	1,614	1,616	1,618	1,621	1,626	1,631	1,634
Internal Load ^d	11,755	11,799	11,823	11,844	11,887	11,946	12,000	12,038
Reserve ^{c,e}	1,011	1,015	1,017	1,019	1,022	1,027	1,032	1,035

^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)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,340	4,376	4,390	4,451	4,377	4,345	4,362	4,358
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,340	4,376	4,390	4,451	4,377	4,345	4,362	4,358
Native Load	3,931	3,842	3,741	3,865	3,802	3,777	3,797	3,794
Available Reserve ^c	409	534	649	585	576	568	565	564
Internal Load ^d	3,977	3,996	4,029	4,081	4,018	3,993	4,013	4,010
Reserve ^{c,e}	363	380	361	369	360	352	349	348

	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	4,357	4,352	4,337	4,329	4,333	4,338	4,333	4,330
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	4,357	4,352	4,337	4,329	4,333	4,338	4,333	4,330
Native Load	3,796	3,792	3,777	3,770	3,774	3,778	3,774	3,771
Available Reserve ^c	561	561	559	559	559	560	559	559
Internal Load ^d	4,012	4,008	3,993	3,986	3,990	3,994	3,990	3,987
Reserve ^{c,e}	345	345	343	343	343	344	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) - Winter Season

The Cleveland Electric Illuminating Company

	(-5)	(-4)	(-3)	(-2)	(-1)	(0)	(1)	(2)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	3,231	3,363	3,292	3,329	3,241	3,237	3,283	3,290
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	3,231	3,363	3,292	3,329	3,241	3,237	3,283	3,290
Native Load	2,893	2,974	2,831	2,863	2,785	2,785	2,830	2,837
Available Reserve ^c	338	388	461	466	456	452	453	452
Internal Load ^d	2,961	3,070	3,021	3,053	2,975	2,975	3,020	3,027
Reserve ^{c,e}	270	292	271	276	266	262	263	262
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	3,294	3,300	3,305	3,311	3,320	3,331	3,336	3,342
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	3,294	3,300	3,305	3,311	3,320	3,331	3,336	3,342
Native Load	2,843	2,849	2,853	2,859	2,867	2,877	2,882	2,887
Available Reserve ^c	451	451	452	452	453	454	454	455
Internal Load ^d	3,033	3,039	3,043	3,049	3,057	3,067	3,072	3,077
Reserve ^{c,e}	261	261	262	262	263	264	264	265

^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)
	2015	2016	2017	2018	2019	2020	2021	2022
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	1,837	1,904	1,832	1,878	1,779	1,804	1,815	1,823
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	1,837	1,904	1,832	1,878	1,779	1,804	1,815	1,823
Native Load	1,516	1,570	1,480	1,529	1,440	1,465	1,477	1,484
Available Reserve ^c	322	333	352	349	339	339	338	338
Internal Load ^d	1,684	1,738	1,681	1,722	1,633	1,658	1,670	1,677
Reserve ^{c,e}	154	165	151	156	146	146	145	145
	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	2023	2024	2025	2026	2027	2028	2029	2030
Net Demonstrated Capability	0	0	0	0	0	0	0	0
Net Seasonal Capability	0	0	0	0	0	0	0	0
Purchases ^a	1,829	1,839	1,846	1,855	1,866	1,878	1,886	1,895
Sales	0	0	0	0	0	0	0	0
Available Capability ^b	1,829	1,839	1,846	1,855	1,866	1,878	1,886	1,895
Native Load	1,492	1,500	1,507	1,515	1,525	1,536	1,544	1,552
Available Reserve ^c	338	339	339	340	341	342	342	343
Internal Load ^d	1,685	1,693	1,700	1,708	1,718	1,729	1,737	1,745
Reserve ^{c,e}	145	146	146	147	148	149	149	150

^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 Season

FirstEnergy System ^f

	(-5) 2015	(-4) 2016	(-3) 2017	(-2) 2018	(-1) 2019	(0) 2020	(1) 2021	(2) 2022
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	10,261	10,527	10,365	10,512	10,252	10,235	10,319	10,345
Sales								
Available Capability ^b	10,261	10,527	10,365	10,512	10,252	10,235	10,319	10,345
Native Load	9,120	9,194	8,833	9,041	8,811	8,806	8,894	8,920
Available Reserve ^c	1,140	1,333	1,532	1,471	1,441	1,429	1,425	1,424
Internal Load ^d	9,402	9,612	9,512	9,640	9,410	9,405	9,493	9,519
Reserve ^{c,e}	858	915	853	872	842	830	826	825
	(3) 2023	(4) 2024	(5) 2025	(6) 2026	(7) 2027	(8) 2028	(9) 2029	(10) 2030
Net Demonstrated Capability								
Net Seasonal Capability								
Purchases ^a	10,366	10,387	10,392	10,408	10,443	10,481	10,497	10,517
Sales								
Available Capability ^b	10,366	10,387	10,392	10,408	10,443	10,481	10,497	10,517
Native Load	8,946	8,965	8,970	8,985	9,017	9,052	9,067	9,086
Available Reserve ^c	1,420	1,422	1,422	1,423	1,426	1,429	1,430	1,432
Internal Load ^d	9,545	9,564	9,569	9,584	9,616	9,651	9,666	9,685
Reserve ^{c,e}	821	823	823	824	827	830	831	833

^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

^a The companies do not own or operate generation.

APPENDIX LIBRARIES

<p>Ashland County: Ashland County District Library 224 Claremont Avenue Ashland, OH 44805</p>	<p>Fayette County: Carnegie Public Library 127 S. North Street Washington C.H., OH 43160</p>
<p>Ashtabula County: Ashtabula County District Library 335 W. 44th Street Ashtabula, OH 44004</p>	<p>Franklin County: Columbus Metropolitan Library Attn: N. Friday, Biography, History & Travel Division 96 S. Grant Avenue Columbus, OH 43215</p>
<p>Carroll County: Carroll County District Library 70 Second St NE Carrollton, OH 44615</p>	<p>Fulton County: Delta Public Library 402 Main Street Delta, OH 43515</p>
<p>Champaign County: Champaign County Library 1060 Scioto Street Urbana, OH 43078</p>	<p>Geauga County: Geauga County Public Library 12701 Ravenwood Drive Chardon, OH 44024</p>
<p>Clark County: Clark County Public Library 201 S. Fountain Avenue – PO Box 1080 Springfield, OH 45506</p>	<p>Greene County: Hallie Q. Brown Memorial Library Central State University 1400 Brush Row Road, Box # 1006 Wilberforce, OH 45384</p>
<p>Columbiana County: Carnegie Public Library 219 E. Fourth Street East Liverpool, OH 43920</p>	<p>Greene County: Greene County District Library 76 East Market Street, POB 520 Xenia, OH 45385</p>
<p>Columbiana County: Lepper Library 303 E. Lincoln Way Lisbon, OH 44432</p>	<p>Henry County: Napoleon Public Library 310 W. Clinton Street Napoleon, OH 43545</p>
<p>Crawford County: Bucyrus Public Library 200 E. Mansfield Bucyrus, OH 44820</p>	<p>Holmes County: Holmes County District Library 3102 Glen Drive Millersburg, OH 44654</p>
<p>Cuyahoga County: Cleveland Public Library Reference Division 325 Superior Avenue, N.E. Cleveland, OH 44114</p>	<p>Huron County: Willard Memorial Library 6 W. Emerald Street Willard, OH 44890</p>
<p>Cuyahoga County: Cuyahoga County Public Library Maple Heights Regional 5225 Library Lane Maple Heights, OH 44137</p>	<p>Knox County: Mt. Vernon Public Library 201 N. Mulberry Street Mt. Vernon, OH 43050</p>
<p>Defiance County: Defiance Public Library 320 Fort Street Defiance, OH 43512</p>	<p>Lake County: Morley Library 184 Phelps Street Painesville, OH 44077</p>
<p>Delaware County: Delaware County District Library 84 E. Winter Street Delaware, OH 43015</p>	<p>Lorain County: Lorain Public Library 351 Sixth Street Lorain, OH 44052</p>
<p>Erie County: Sandusky Library 114 W. Adams Street Sandusky, OH 44870</p>	<p>Lorain County: Oberlin College Library Reference Division 148 W. College Street Oberlin, OH 44074</p>
<p>Erie County: Huron Public Library 333 Williams Street Huron, OH 44839</p>	<p>Lorain County: Elyria Public Library 320 Washington Avenue Elyria, OH 44035</p>

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

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/15/2020 4:32:47 PM

in

Case No(s). 20-0657-EL-FOR

Summary: Report In the Matter of the Long-Term Forecast Report of Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company, and American Transmission Systems, Inc. electronically filed by Mr Robert M Endris on behalf of Ohio Edison Company and The Cleveland Electric Illuminating Company and The Toledo Edison Company and American Transmission Systems, Inc.