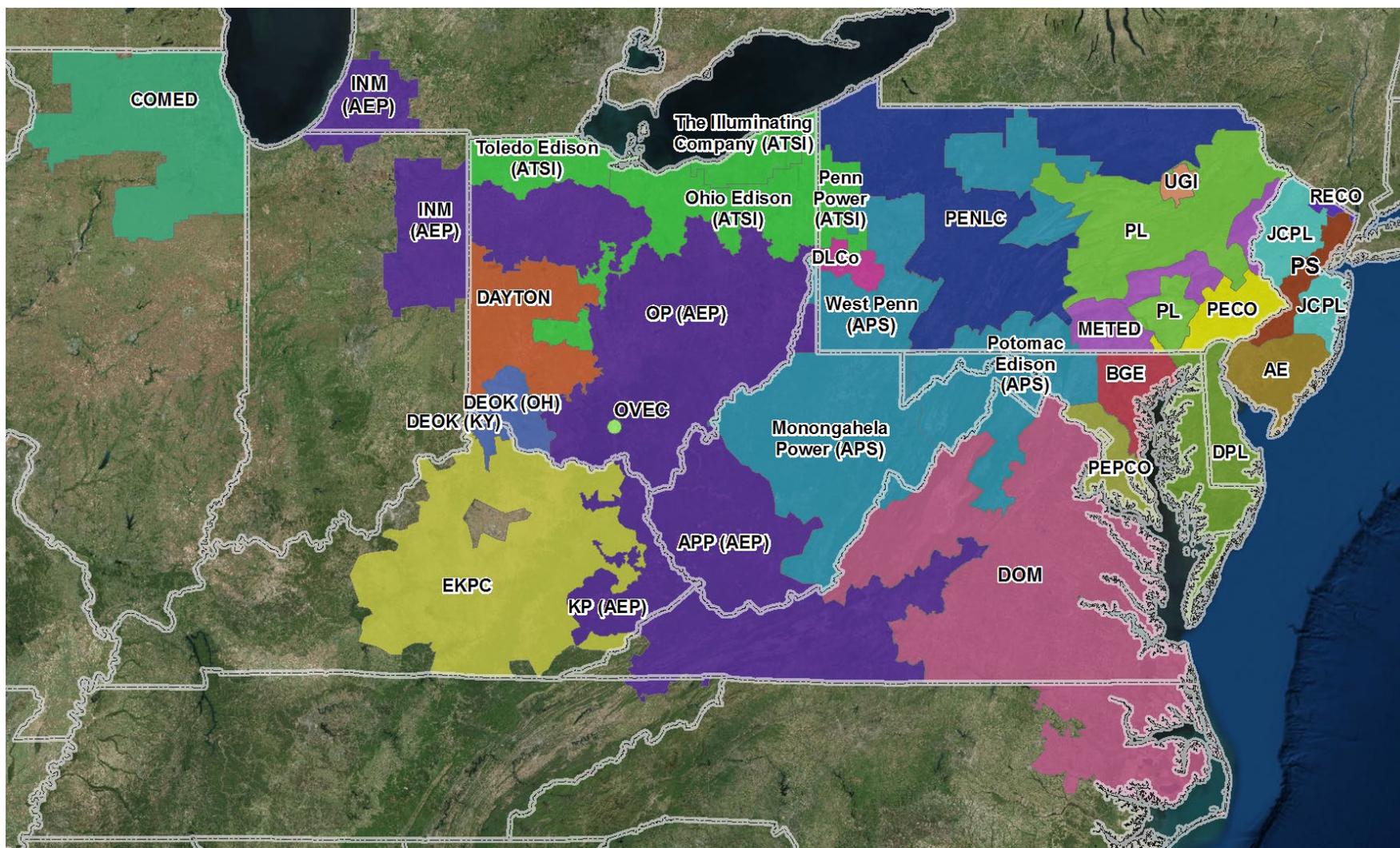


PJM Load Forecast Report

January 2020



Prepared by PJM Resource Adequacy Planning Department

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TERMS AND ABBREVIATIONS USED IN THIS REPORT

AE	Atlantic Electric zone (part of Pepco Holdings, Inc)
AEP	American Electric Power zone (incorporated 10/1/2004)
APP	Appalachian Power, sub-zone of AEP
APS	Allegheny Power zone (incorporated 4/1/2002)
ATSI	American Transmission Systems, Inc. zone (incorporated 6/1/2011)
Base Load	Average peak load on non-holiday weekdays with no heating or cooling load. Base load is insensitive to weather.
BGE	Baltimore Gas & Electric zone
CEI	Cleveland Electric Illuminating, sub-zone of ATSI
COMED	Commonwealth Edison zone (incorporated 5/1/2004)
Contractually Interruptible	Load Management from customers responding to direction from a control center
Cooling Load	The weather-sensitive portion of summer peak load
CSP	Columbus Southern Power, sub-zone of AEP
Direct Control	Load Management achieved directly by a signal from a control center
DAY	Dayton Power & Light zone (incorporated 10/1/2004)
DEOK	Duke Energy Ohio/Kentucky zone (incorporated 1/1/2012)
DLCO	Duquesne Lighting Company zone (incorporated 1/1/2005)
DOM	Dominion Virginia Power zone (incorporated 5/1/2005)
DPL	Delmarva Power & Light zone (part of Pepco Holdings, Inc)
EKPC	East Kentucky Power Cooperative zone (incorporated 6/1/2013)
FE-East	The combination of FirstEnergy's Jersey Central Power & Light, Metropolitan Edison, and Pennsylvania Electric zones (formerly GPU)
Heating Load	The weather-sensitive portion of winter peak load
INM	Indiana Michigan Power, sub-zone of AEP
JCPL	Jersey Central Power & Light zone
KP	Kentucky Power, sub-zone of AEP

METED	Metropolitan Edison zone
MP	Monongahela Power, sub-zone of APS
NERC	North American Electric Reliability Corporation
Net Energy	Net Energy for Load, measured as net generation of main generating units plus energy receipts minus energy deliveries
OEP	Ohio Edison, sub-zone of ATSI
OP	Ohio Power, sub-zone of AEP
OVEC	Ohio Valley Electric Corporation zone (incorporated 12/1/2018)
PECO	PECO Energy zone
PED	Potomac Edison, sub-zone of APS
PEPCO	Potomac Electric Power zone (part of Pepco Holdings, Inc)
PL	PPL Electric Utilities, sub-zone of PLGroup
PLGroup/PLGRP	Pennsylvania Power & Light zone
PENLC	Pennsylvania Electric zone
PP	Pennsylvania Power, sub-zone of ATSI
PRD	Price Responsive Demand
PS	Public Service Electric & Gas zone
RECO	Rockland Electric (East) zone (incorporated 3/1/2002)
TOL	Toledo Edison, sub-zone of ATSI
UGI	UGI Utilities, sub-zone of PLGroup
Unrestricted Peak	Peak load prior to any reduction for load management or voltage reduction.
WP	West Penn Power, sub-zone of APS
Zone	Areas within the PJM Control Area, as defined in the PJM Reliability Assurance Agreement

2020 PJM LOAD FORECAST REPORT

EXECUTIVE SUMMARY

- This report presents an independent load forecast prepared by PJM staff.
- The report includes long-term forecasts of peak loads, net energy, load management, distributed solar generation, and plug-in electric vehicles for each PJM zone, region, locational deliverability area (LDA), and the total RTO.
- Table B-8b (Impact of Plug-In Electric Vehicles) has been added to the report; Table G-1 (Economic Growth Rate) has been removed.
- A supplemental report has been added to the published materials. Intended as a reference, it provides details of the processes used to develop the load forecast and the data and assumptions used. It describes the load forecast model that produces the base forecast as well as non-model adjustments to it.
- Since the 2019 Load Report, PJM made significant revisions to the load forecast model. This was a response to an issue charge from the Planning Committee to “review PJM’s load forecasting methodology to identify any potential issues with regard to the accuracy of PJM’s RTO and zonal peak load forecasting for use in assessing resource adequacy during the winter season.”
- All load models were estimated with historical data from January 2010 through August 2019. The models were simulated with weather data from years 1994 through 2018, generating 325 scenarios.
- The economic forecast used was Moody’s Analytics’ September 2019 release.
- The 2019 update of Itron’s end-use data provides the basis for appliance saturation rates, efficiency, and intensity which is consistent with the Energy Information Administration’s 2018 Annual Energy Outlook. PJM obtained additional information from certain zones on Residential saturation rates based on their own load research. Details on zones providing information are as follows:
 - American Electric Power (AEP) provided saturation data on all appliance categories through 2018;
 - Allegheny Power (APS) provided saturation data on all appliance categories through 2016;
 - American Transmission Systems, Inc (ATSI) provided saturation data on all appliance categories through 2016;
 - Commonwealth Edison (COMED) provided saturation data on all appliance categories for 2012;
 - Duke Energy Ohio and Kentucky (DUKE) provided saturation data on all appliance categories through 2014;

- East Kentucky Power Cooperative (EKPC) provided saturation data on Heat Pumps for Heating and Cooling, Electric Furnaces, Secondary Heating (Room Heating), Central A/C, Room Air Conditioners, and Water Heaters through 2013;
 - Jersey Central Power & Light (JCPL) provided saturation data on all appliance categories through 2016;
 - Metropolitan Edison (METED) provided saturation data on all appliance categories through 2016;
 - Pennsylvania Electric (PENLC) provided saturation data on all appliance categories through 2016;
 - Dominion Virginia Power (DOM or VEPCO) provided saturation data on Heat Pumps for Cooling, Central A/C and Room Air Conditioners through 2014.
- The forecasts of the following zones have been adjusted to account for large, unanticipated load changes (see Table B-9 for details):
 - The forecast of the APS zone has been adjusted to account for accelerating load related to natural gas processing plants, increasing the summer peak in 2020 by 128 MW, with the impact growing to 524 MW in 2035;
 - The forecast of the BGE zone has been adjusted to account for the on-going implementation of a conservation voltage reduction program, which removes 10 MW from the summer peak in 2020, then 20-28 MW for the remainder of the forecast horizon;
 - The forecast of the COMED zone has been adjusted to account for the implementation of a voltage optimization program, which removes 60-294 MW from the summer peak beginning in 2020;
 - The forecast of the DOM zone has been adjusted to account for substantial on-going growth in data center construction, which removes 96 MW from the summer peak in 2020, then adds 39 MW in 2021, growing to 510 MW in 2026 before declining to 234 MW in 2035.
 - Summer peak load growth for the PJM RTO is projected to average 0.6% per year over the next 10 years, and 0.5% over the next 15 years. The PJM RTO summer peak is forecasted to be 157,132 MW in 2030, a 10-year increase of 9,040 MW, and reaches 159,868 MW in 2035, a 15-year increase of 11,776 MW. Annualized 10-year growth rates for individual zones range from -0.5% to 1.5%.
 - Winter peak load growth for PJM RTO is projected to average 0.6% per year over the next 10-year period, and 0.5% over the next 15-years. The PJM RTO winter peak load in 2029/30 is forecasted to be 139,970 MW, a 10-year increase of 8,683 MW, and reaches 141,513 MW in 2034/35, a 15-year increase of 10,226 MW. Annualized 10-year growth rates for individual zones range from -0.7% to 1.4%.
 - Net energy for load growth for PJM RTO is projected to average 0.7% per year over the next 10-year period, and 0.6% over the next 15-years. Total PJM RTO energy is forecasted to be 839,830 GWh in 2030, a 10-year increase of 56,875 GWh, and

reaches 857,016 GWh in 2035, a 15-year increase of 74,061 GWh. Annualized 10-year growth rates for individual zones range from -0.6% to 1.5%.

- Compared to the 2019 Load Report, the 2019 PJM RTO summer peak forecast shows the following changes for three years of interest:
 - The next delivery year – 2020 -2,778 MW (-1.9%)
 - The next RPM auction year – 2023 -956 MW (-0.6%)
 - The next RTEP study year – 2025 -673 MW (-0.4%)

NOTE:

Unless noted otherwise, all peak and energy values are non-coincident, unrestricted peaks, which represent the peak load or net energy after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management impacts.

All compound growth rates are calculated from the first year of the forecast.

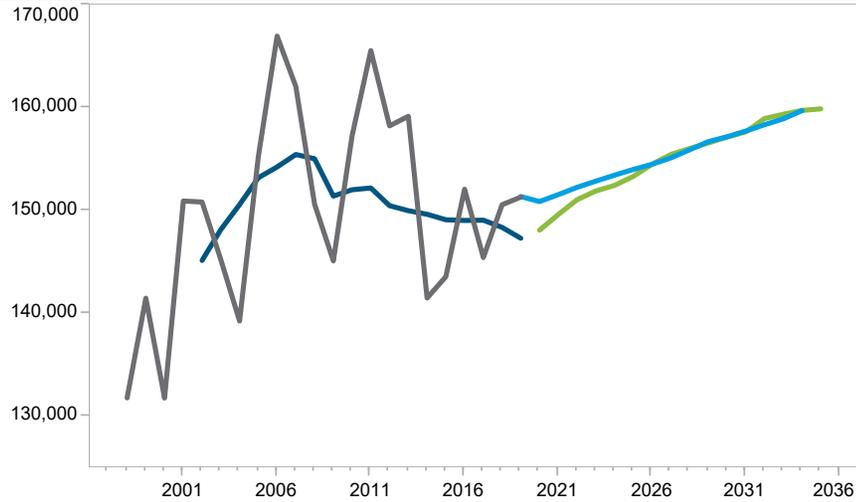
Summary Table

**SUMMER PEAK LOAD (MW) AND GROWTH RATES FOR
PJM RTO AND SELECTED GEOGRAPHIC REGIONS**

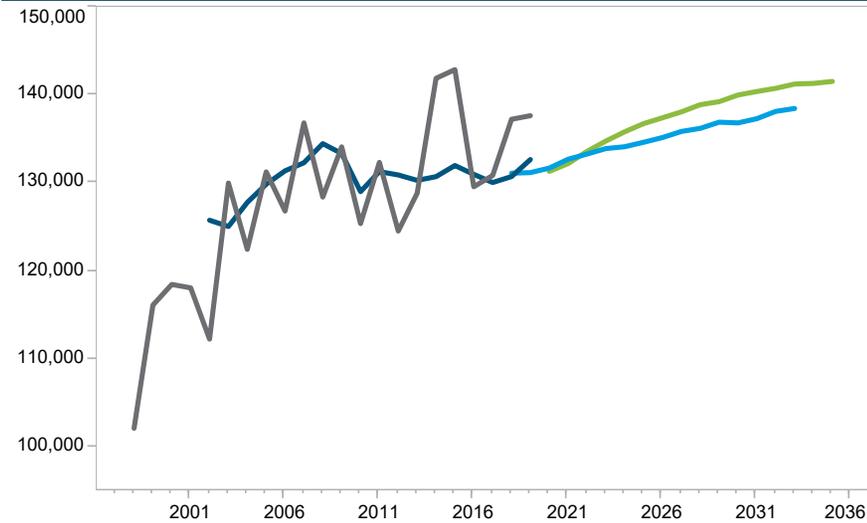
	METERED 2019	UNRESTRICTED 2019	THIS YEAR 2020	RPM YEAR 2023	RTEP YEAR 2025
PJM RTO	151,239	151,302	148,092	151,898	153,315
Demand Resources			-8,929	-9,067	-9,172
PJM RTO - Restricted			139,163	142,831	144,143
PJM MID-ATLANTIC	56,585	56,588	55,852	56,734	57,282
Demand Resources			-3,326	-3,329	-3,366
MID-ATL - Restricted			52,526	53,405	53,916
EASTERN MID-ATLANTIC	31,304	31,307	30,819	31,367	31,852
Demand Resources			-1,195	-1,229	-1,248
EMAAC - Restricted			29,624	30,138	30,604
SOUTHERN MID-ATLANTIC	12,781	12,781	12,537	12,453	12,385
Demand Resources			-973	-911	-909
SWMAAC - Restricted			11,564	11,542	11,476

PJM RTO

Summer Peak



Winter Peak

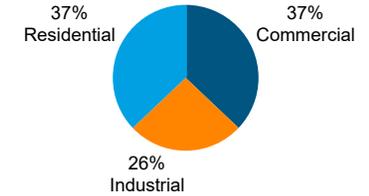


■ Peak
 ■ WN peak
 ■ Forecast 2019
 ■ Forecast 2020

Weather - Annual Average 1994-2018

Cooling Degree Days	1,061
Heating Degree Days	3,858
Temperature-Humidity Index	82.7
Wind-Adjusted Temperature	12.9

RCI Makeup



Zonal 10/15 Year Load Growth

SUMMER	0.6%	0.5%
WINTER	0.6%	0.5%

LDAs

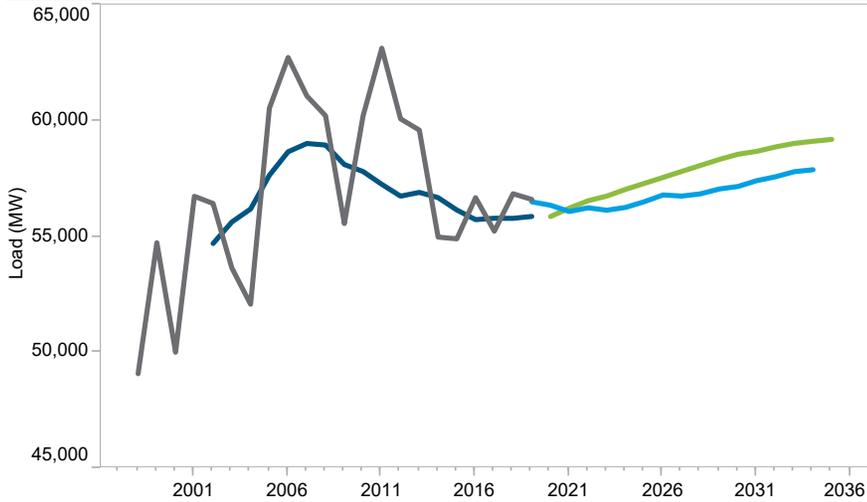
PJM Eastern MAC	PJM Western MAC
PJM Southern MAC	PJM West
PJM Central MAC	

Zones

AE	DAYTON	JCPL	PEPCO
AEP	DEOK	METED	PL
APS	DLCO	OVEC	PS
ATSI	DOM	PECO	RECO
BGE	DPL	PENLC	UGI
COMED	EKPC		

PJM Mid-Atlantic (MAAC)

Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,168
Heating Degree Days	3,642
Temperature-Humidity Index	84.3
Wind-Adjusted Temperature	13.2

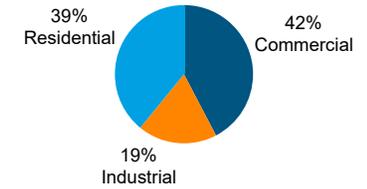
Zonal 10/15 Year Load Growth

SUMMER	0.5%	0.4%
WINTER	0.6%	0.4%

Zones

AE	JCPL	PENLC	PSEG
BGE	METED	PEPCO	RECO
DPL	PECO	PL	UGI

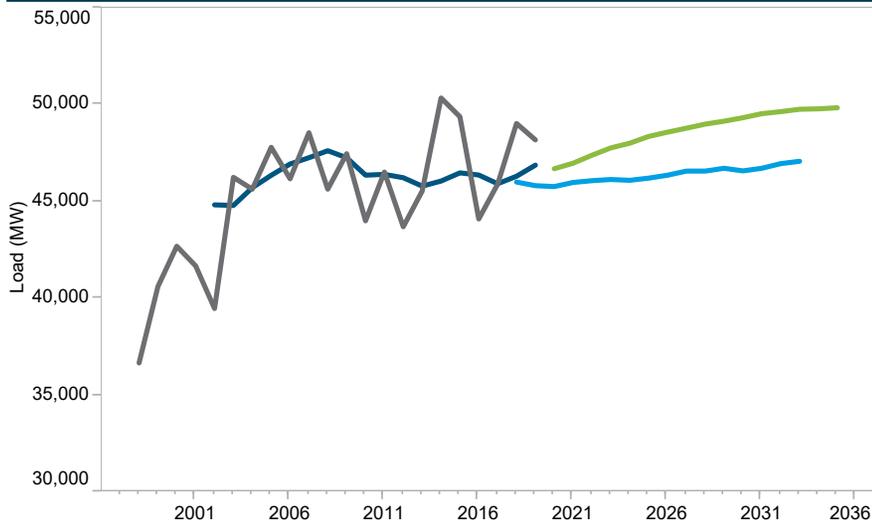
RCI Makeup



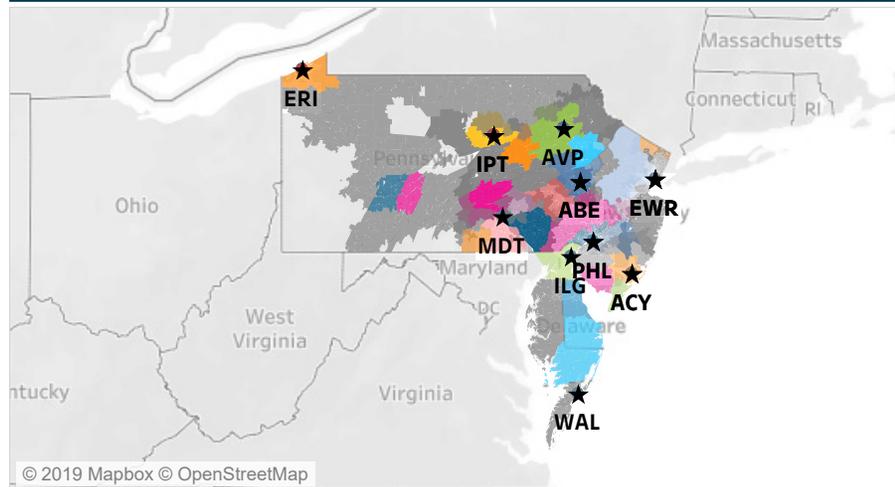
LDAs

EMAC	CMAC
SMAC	WMAC

Winter Peak



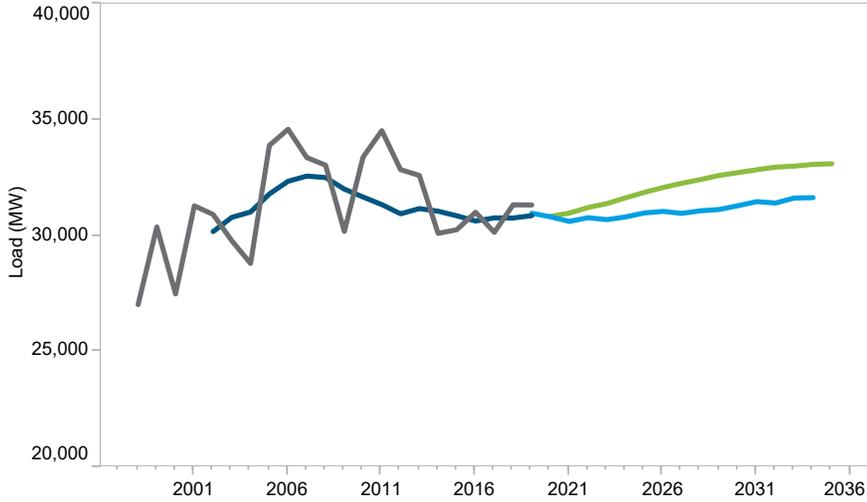
Metropolitan Statistical Areas and Weather Stations



Peak
 WN peak
 Forecast 2019
 Forecast 2020

PJM Eastern Mid-Atlantic

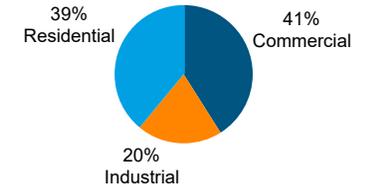
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,224
Heating Degree Days	3,473
Temperature-Humidity Index	84.7
Wind-Adjusted Temperature	13.3

RCI Makeup



Zonal 10/15 Year Load Growth

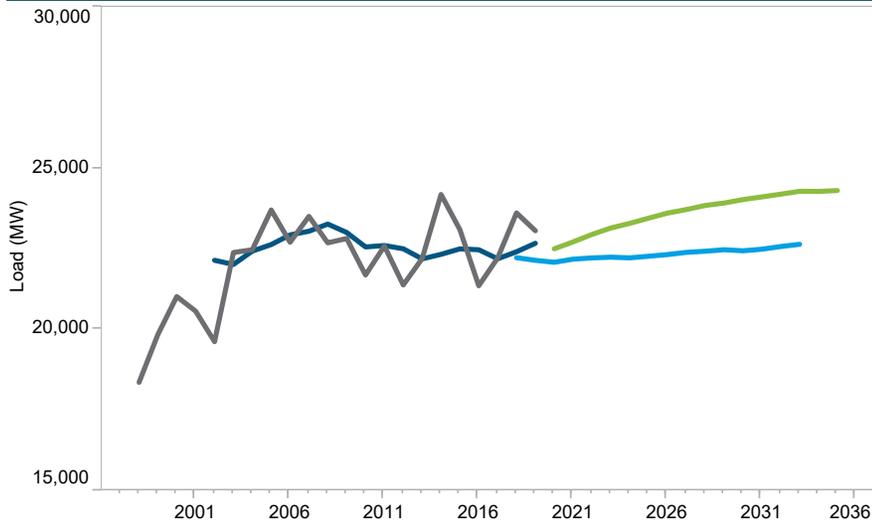
SUMMER	0.6%	0.5%
WINTER	0.7%	0.5%

Zones

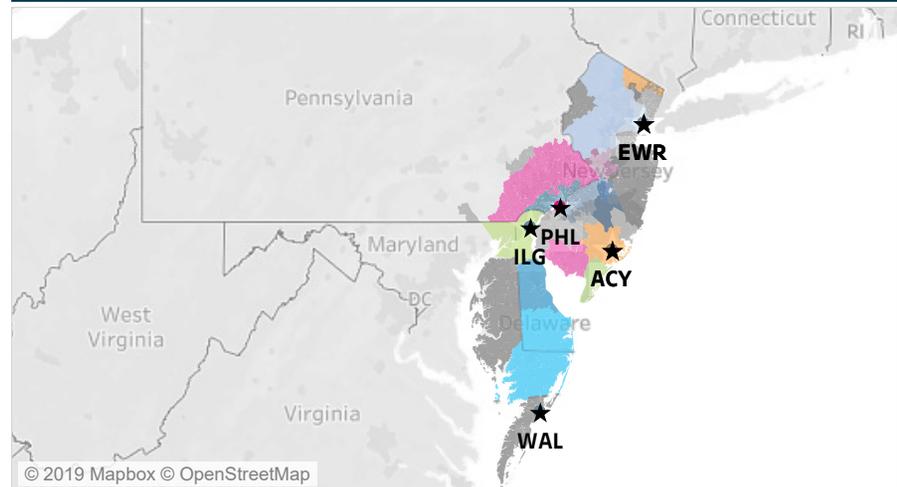
AE
DPL
JCPL

PECO
PSEG
RECO

Winter Peak



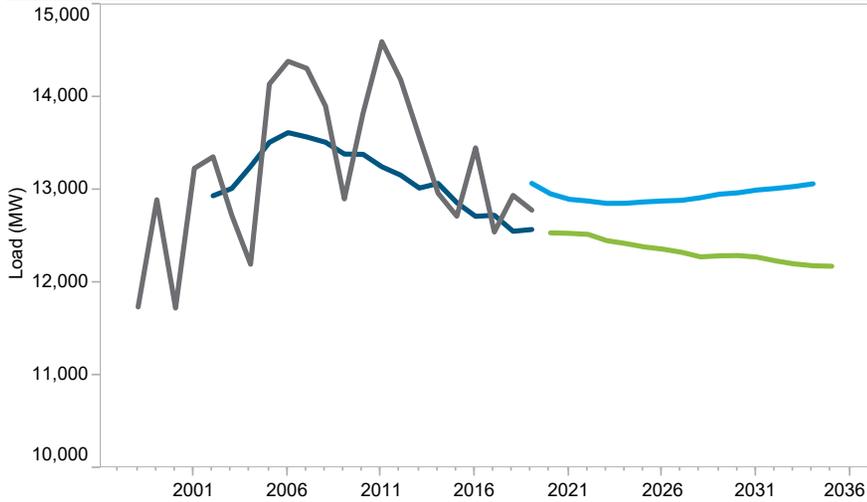
Metropolitan Statistical Areas and Weather Stations



Peak
 WN peak
 Forecast 2019
 Forecast 2020

PJM Southern Mid-Atlantic

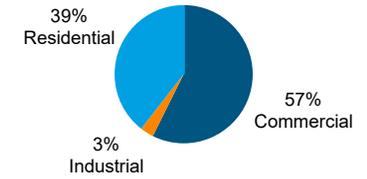
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,374
Heating Degree Days	3,177
Temperature-Humidity Index	85.0
Wind-Adjusted Temperature	17.0

RCI Makeup



Zonal 10/15 Year Load Growth

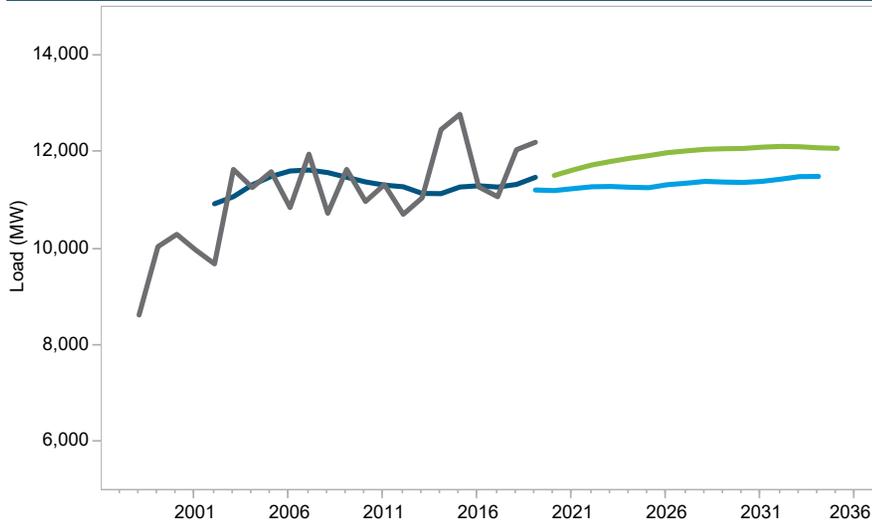
SUMMER	-0.2%	-0.2%
WINTER	0.5%	0.3%

Zones

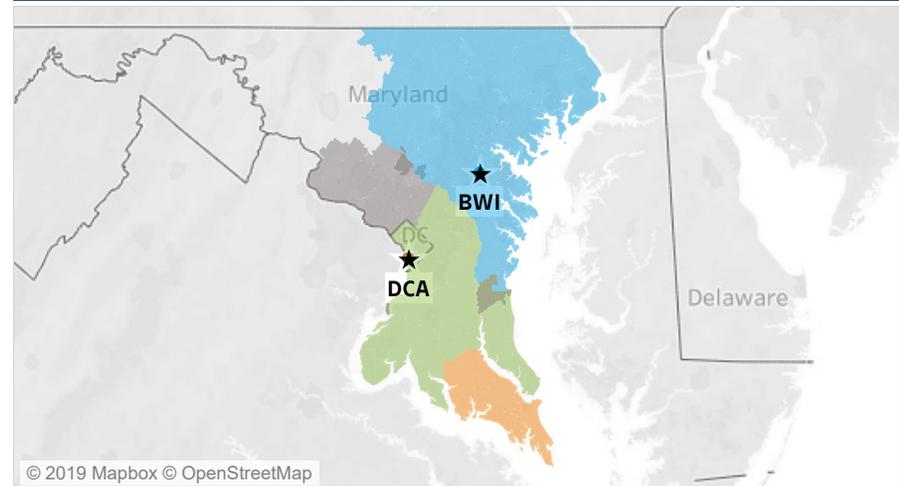
BGE

PEPCO

Winter Peak



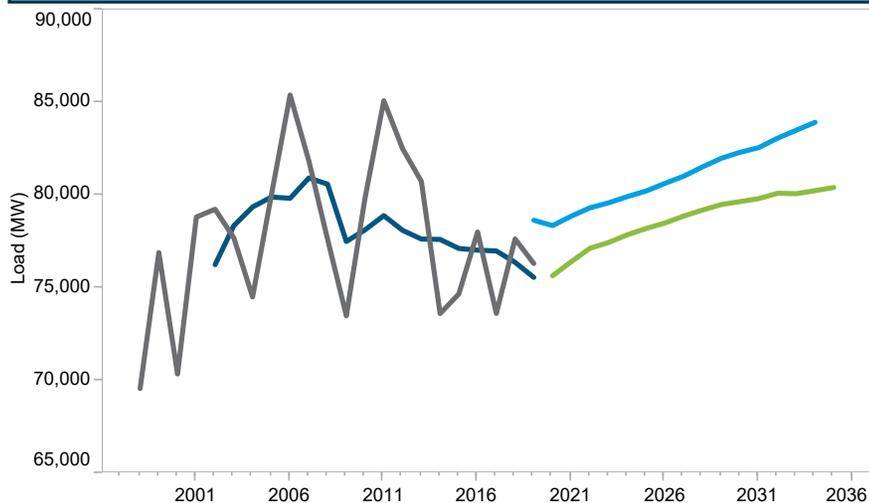
Metropolitan Statistical Areas and Weather Stations



Peak
 WN peak
 Forecast 2019
 Forecast 2020

PJM Western

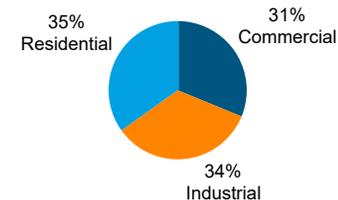
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	900
Heating Degree Days	4,301
Temperature-Humidity Index	82.8
Wind-Adjusted Temperature	6.1

RCI Makeup



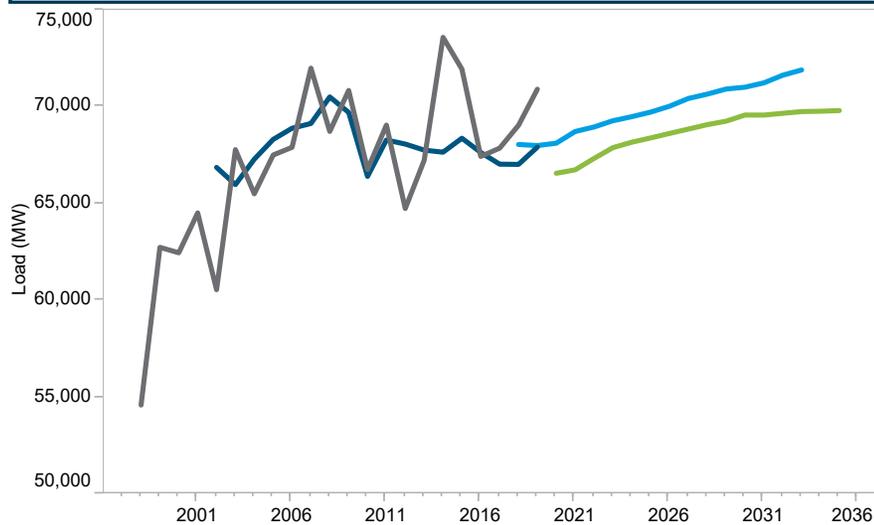
Zonal 10/15 Year Load Growth

SUMMER	0.5%	0.4%
WINTER	0.4%	0.3%

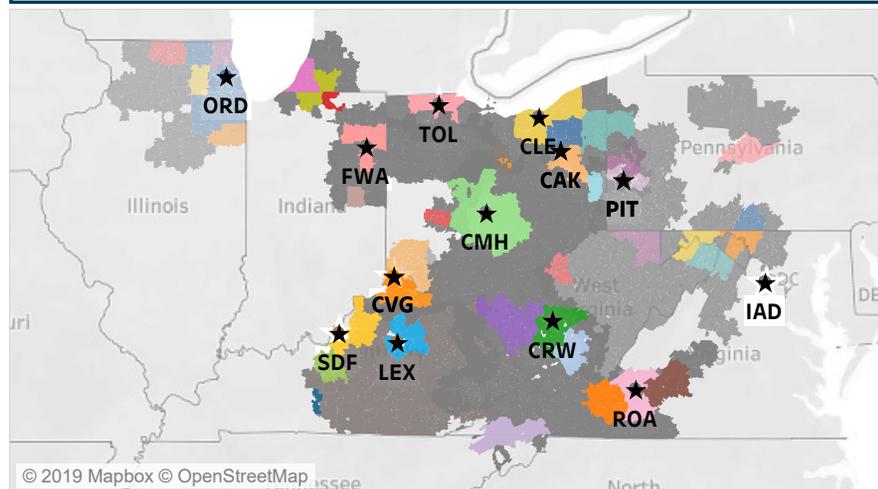
Zones

AEP	COMED	DLCO
APS	DAYTON	EKPC
ATSI	DEOK	OVEC

Winter Peak



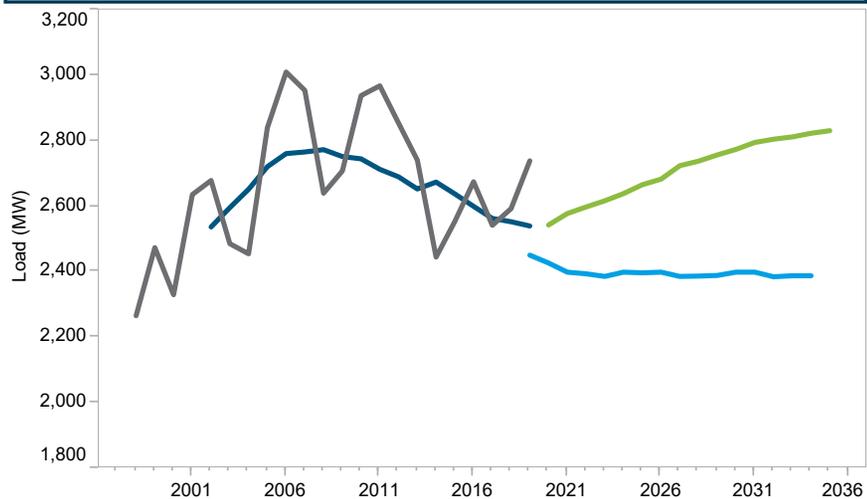
Metropolitan Statistical Areas and Weather Stations



Peak
 WN peak
 Forecast 2019
 Forecast 2020

Atlantic Electric (AE)

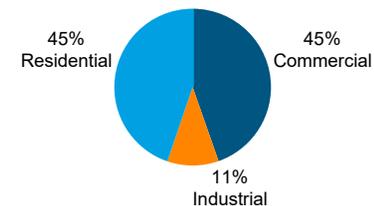
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,050
Heating Degree Days	3,551
Temperature-Humidity Index	84.8
Wind-Adjusted Temperature	14.7

RCI Makeup



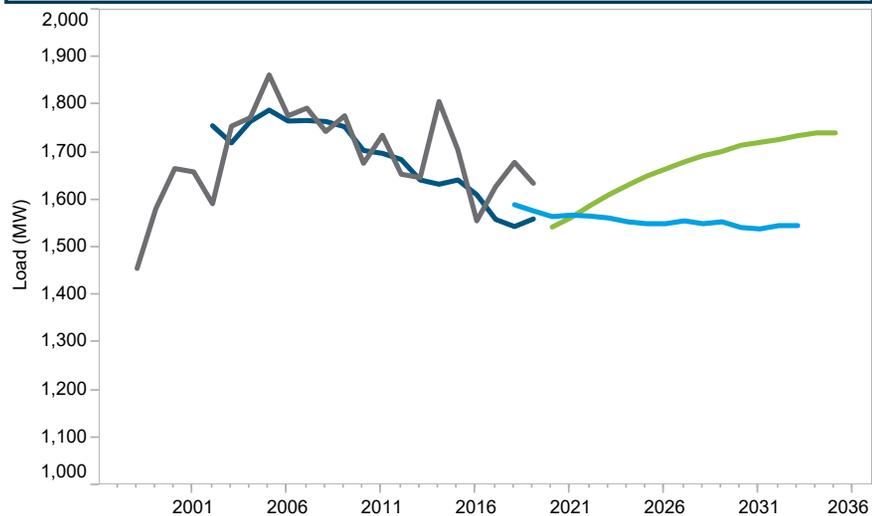
Zonal 10/15 Year Load Growth

SUMMER	0.9%	0.7%
WINTER	1.1%	0.8%

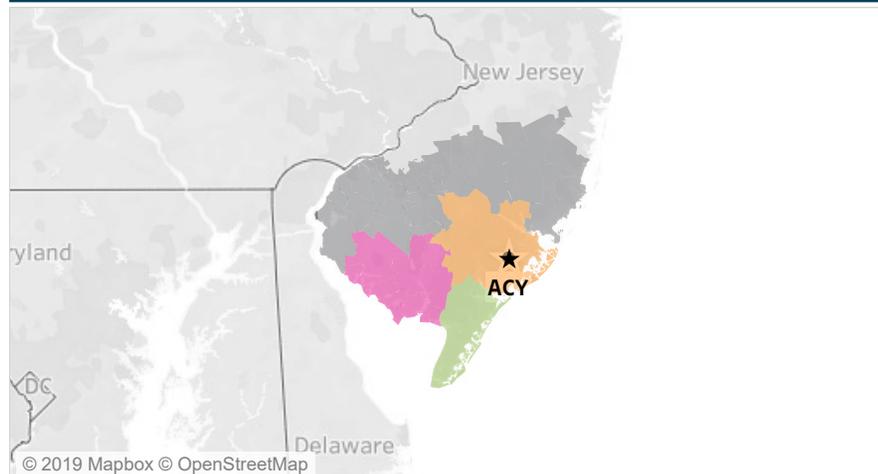
LDAs

EASTERN MID-ATLANTIC PJM MID-ATLANTIC PJM RTO

Winter Peak



Metropolitan Statistical Areas and Weather Stations

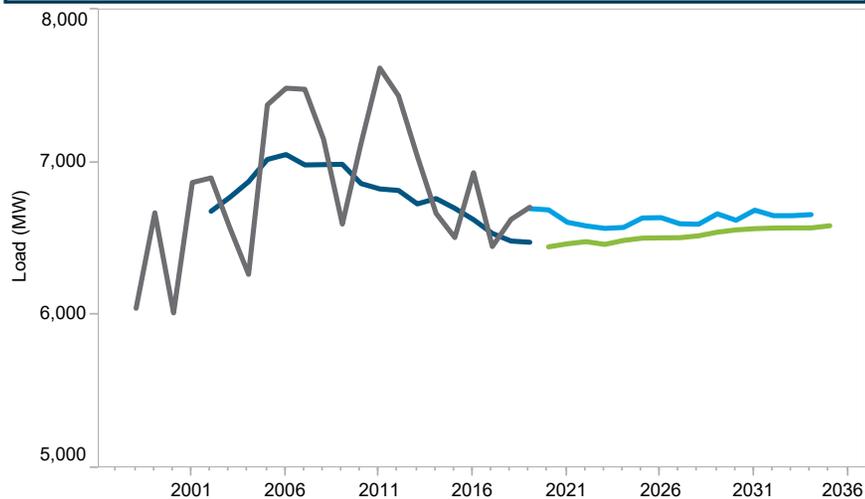


■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

■ AE - Non-Metro
 ■ Atlantic City-Hammonton, NJ
 ■ Ocean City, NJ
 ■ Vineland-Bridgeton, NJ

Baltimore Gas and Electric (BGE)

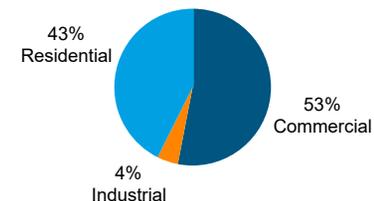
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,233
Heating Degree Days	3,404
Temperature-Humidity Index	84.8
Wind-Adjusted Temperature	16.1

RCI Makeup



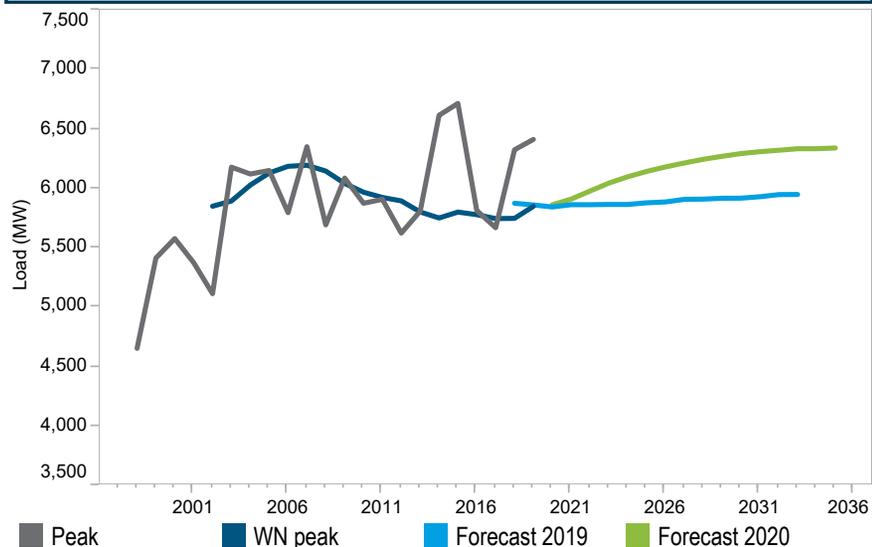
Zonal 10/15 Year Load Growth

SUMMER	0.2%	0.1%
WINTER	0.7%	0.5%

LDAs

CENTRAL MID-ATLANTIC PJM MID-ATLANTIC PJM RTO
SOUTHERN MID-ATLANTIC

Winter Peak



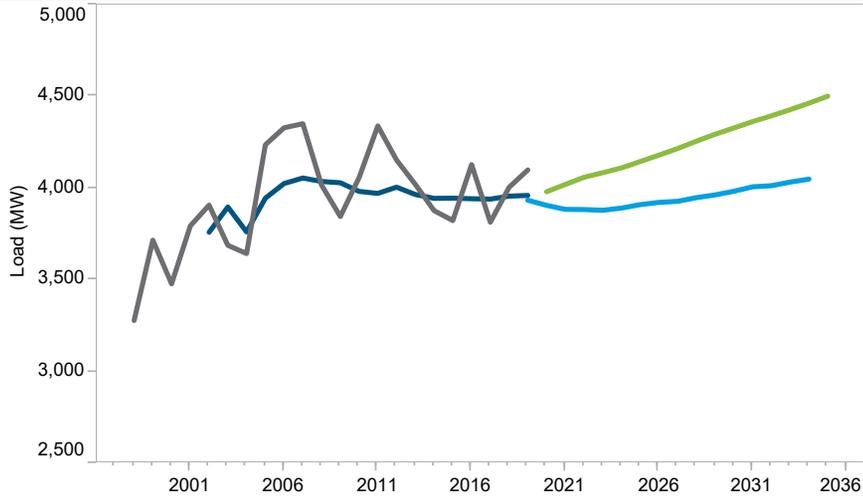
Metropolitan Statistical Areas and Weather Stations



■ Baltimore-Columbia-Towson, MD
■ BGE - Non-Metro

Delmarva Power and Light (DPL)

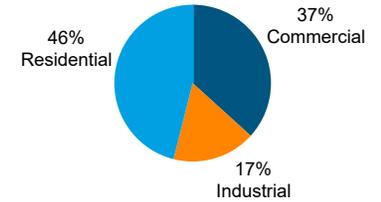
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,177
Heating Degree Days	3,357
Temperature-Humidity Index	84.2
Wind-Adjusted Temperature	16.2

RCI Makeup



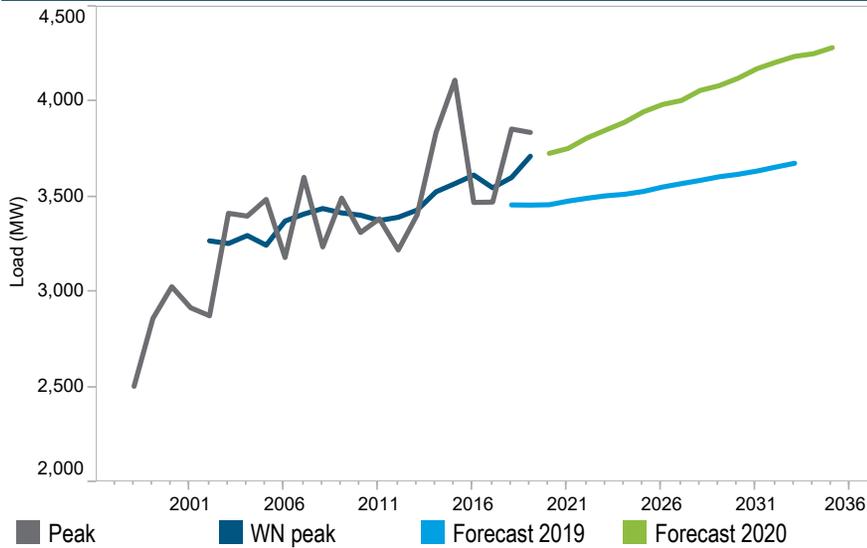
Zonal 10/15 Year Load Growth

SUMMER	0.8%	0.8%
WINTER	1.0%	0.9%

LDAs

EASTERN MID-ATLANTIC PJM MID-ATLANTIC PJM RTO

Winter Peak



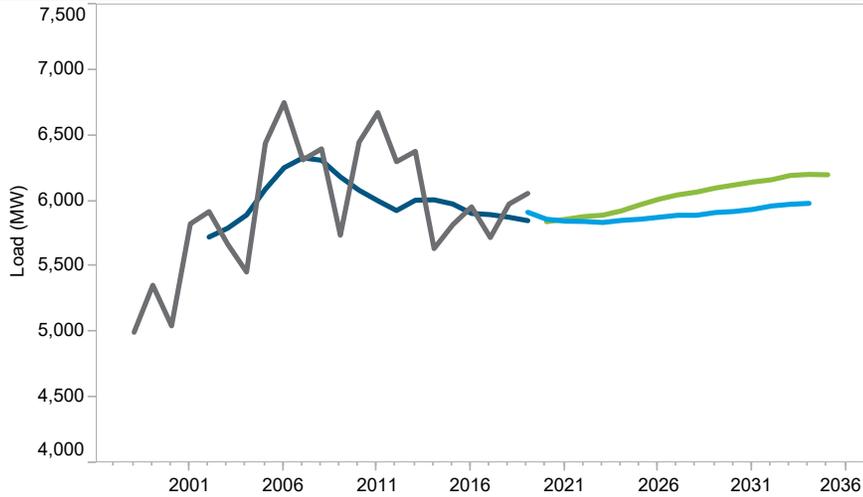
Metropolitan Statistical Areas and Weather Stations



- Dover, DE
- DPL - Non-Metro
- Salisbury, MD-DE
- Wilmington, DE-MD-NJ

Jersey Central Power and Light (JCPL)

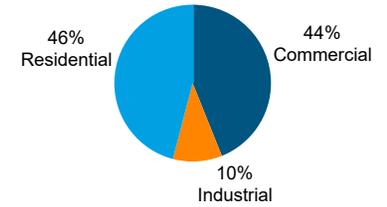
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,185
Heating Degree Days	3,558
Temperature-Humidity Index	84.5
Wind-Adjusted Temperature	12.3

RCI Makeup



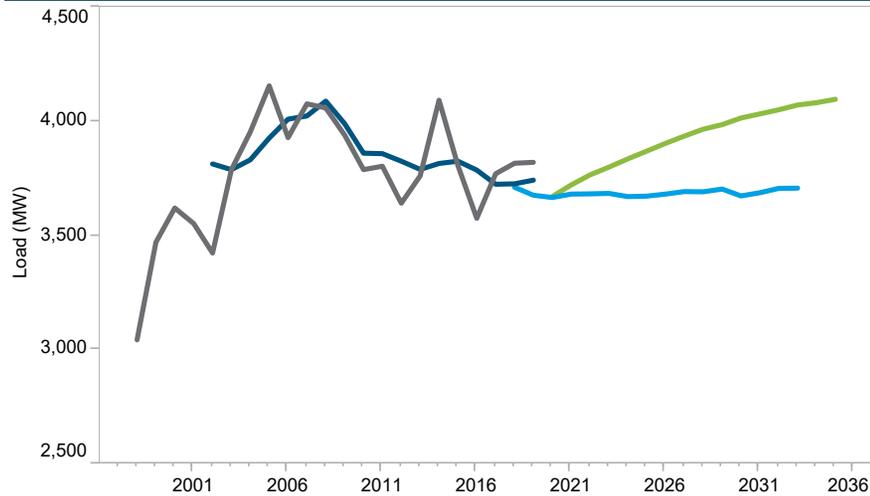
Zonal 10/15 Year Load Growth

SUMMER	0.5%	0.4%
WINTER	0.9%	0.7%

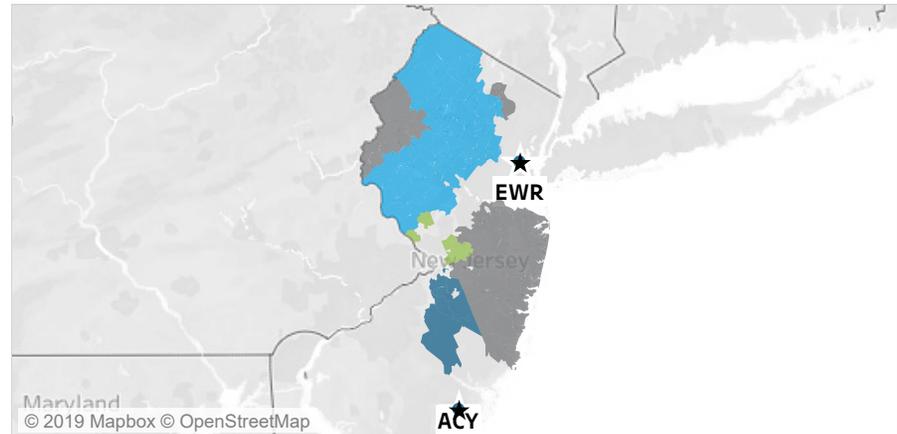
LDAs

EASTERN MID-ATLANTIC GPU PJM MID-ATLANTIC PJM RTO

Winter Peak



Metropolitan Statistical Areas and Weather Stations

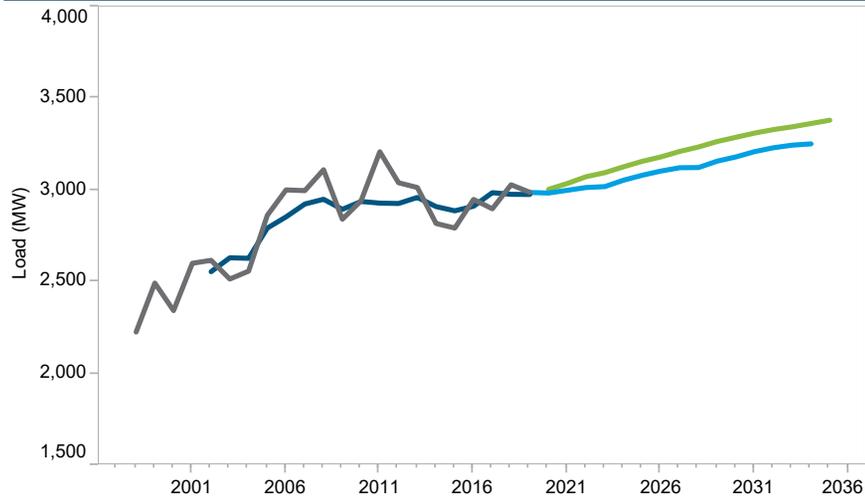


█ Peak █ WN peak █ Forecast 2019 █ Forecast 2020

- █ Camden, NJ
- █ JCPL - Non-Metro
- █ Newark, NJ-PA
- █ Trenton, NJ

Metropolitan Edison (METED)

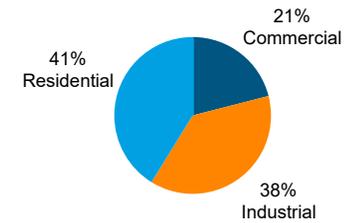
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,084
Heating Degree Days	3,800
Temperature-Humidity Index	84.0
Wind-Adjusted Temperature	12.5

RCI Makeup



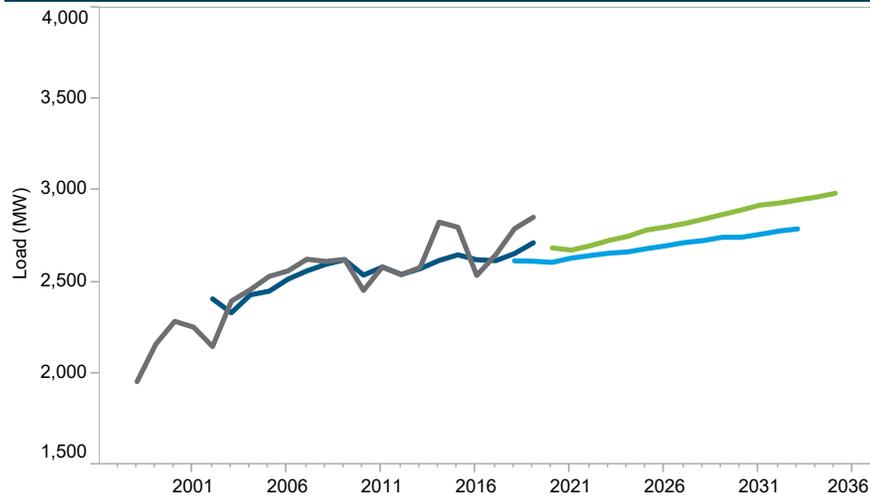
Zonal 10/15 Year Load Growth

SUMMER	0.9%	0.8%
WINTER	0.7%	0.7%

LDAs

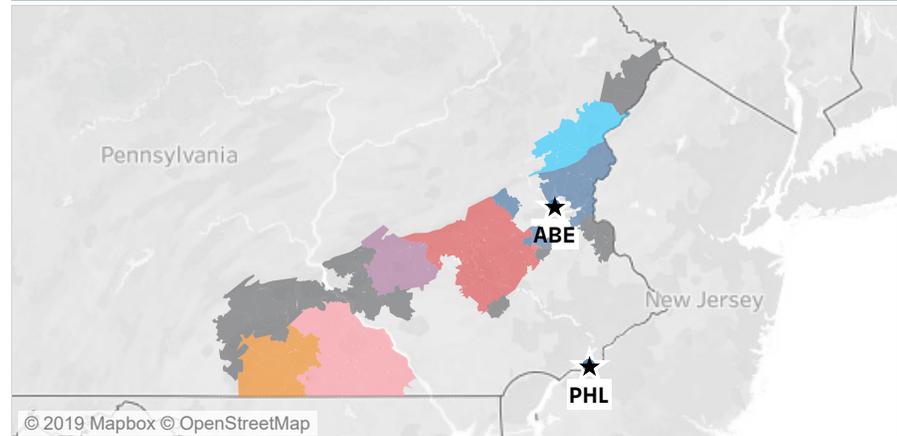
CENTRAL MID-ATLANTIC GPU PJM MID-ATLANTIC PJM RTO
WESTERN MID-ATLANTIC

Winter Peak



█ Peak █ WN peak █ Forecast 2019 █ Forecast 2020

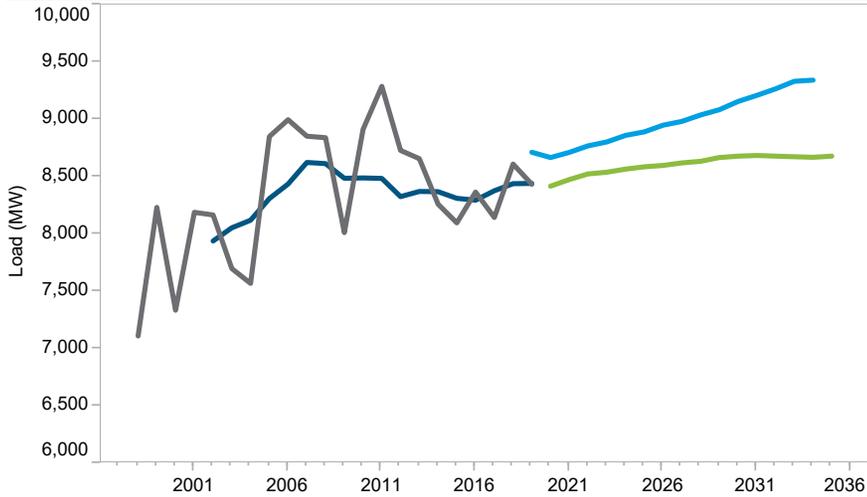
Metropolitan Statistical Areas and Weather Stations



- █ Allentown-Bethlehem-Easton, PA-NJ
- █ METED - Non-Metro
- █ East Stroudsburg, PA
- █ Reading, PA
- █ Gettysburg, PA
- █ York-Hanover, PA
- █ Lebanon, PA

PECO Energy (PECO)

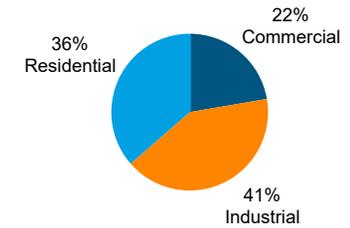
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,310
Heating Degree Days	3,374
Temperature-Humidity Index	84.9
Wind-Adjusted Temperature	14.3

RCI Makeup



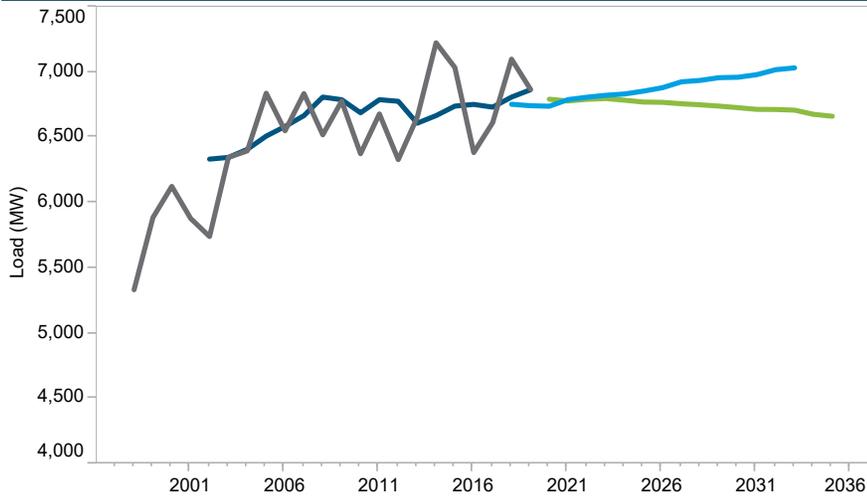
Zonal 10/15 Year Load Growth

SUMMER	0.3%	0.2%
WINTER	-0.1%	-0.1%

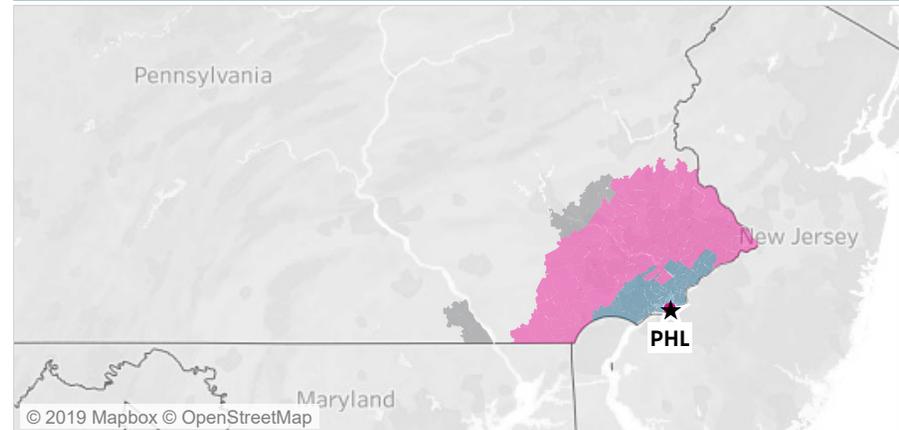
LDAs

EASTERN MID-ATLANTIC PJM MID-ATLANTIC PJM RTO

Winter Peak



Metropolitan Statistical Areas and Weather Stations

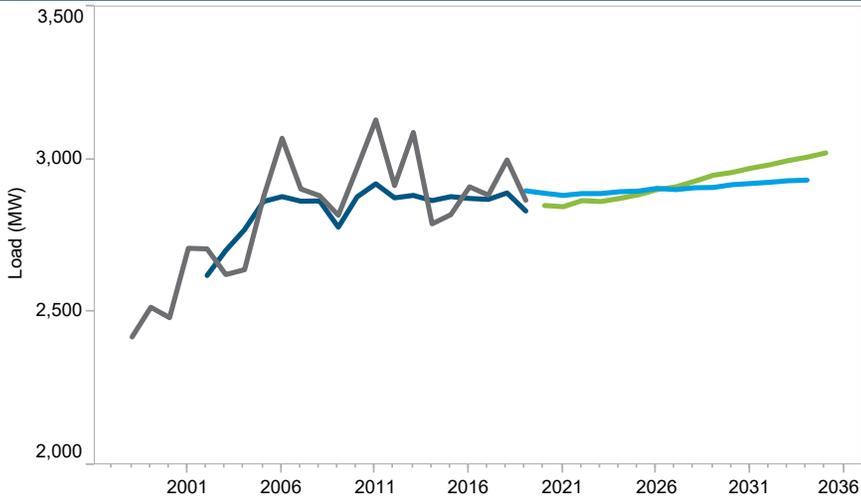


■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

■ Montgomery County-Bucks County-Chester County, PA
 ■ PECO - Non-Metro
 ■ Philadelphia, PA

Pennsylvania Electric Company (PENLC)

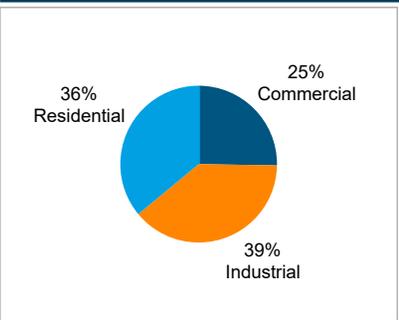
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	687
Heating Degree Days	4,660
Temperature-Humidity Index	81.6
Wind-Adjusted Temperature	8.3

RCI Makeup



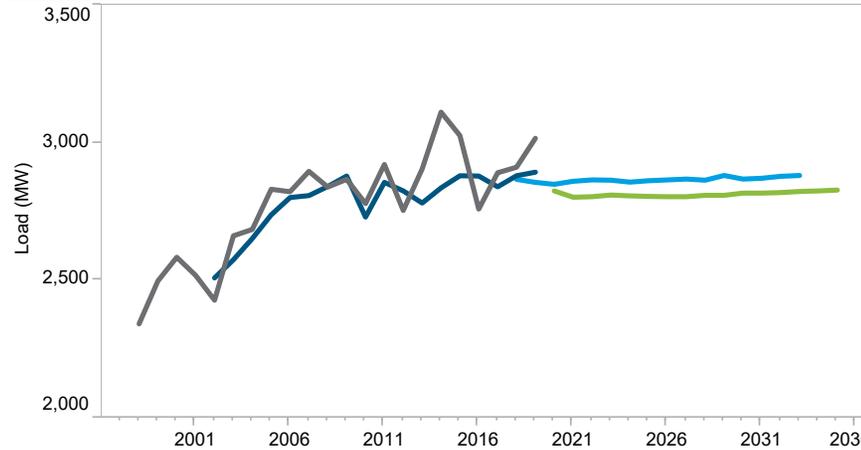
Zonal 10/15 Year Load Growth

SUMMER	0.4%	0.4%
WINTER	0.0%	0.0%

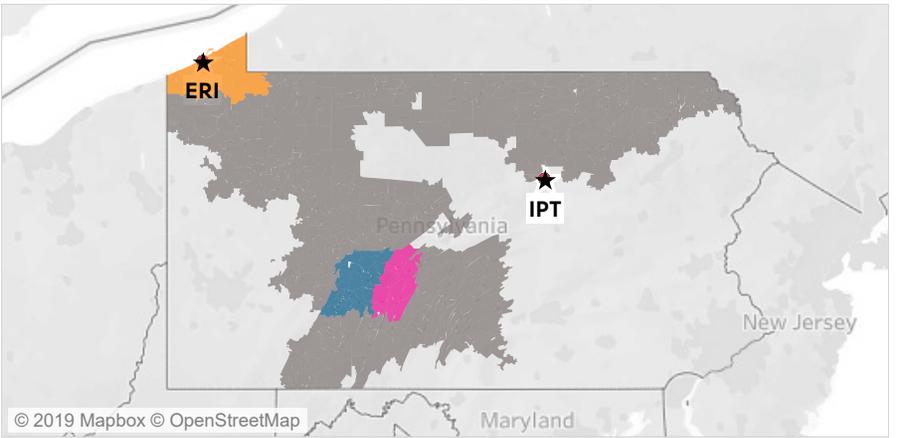
LDAs

GPU PJM MID-ATLANTIC PJM RTO WESTERN MID-ATLANTIC

Winter Peak



Metropolitan Statistical Areas and Weather Stations

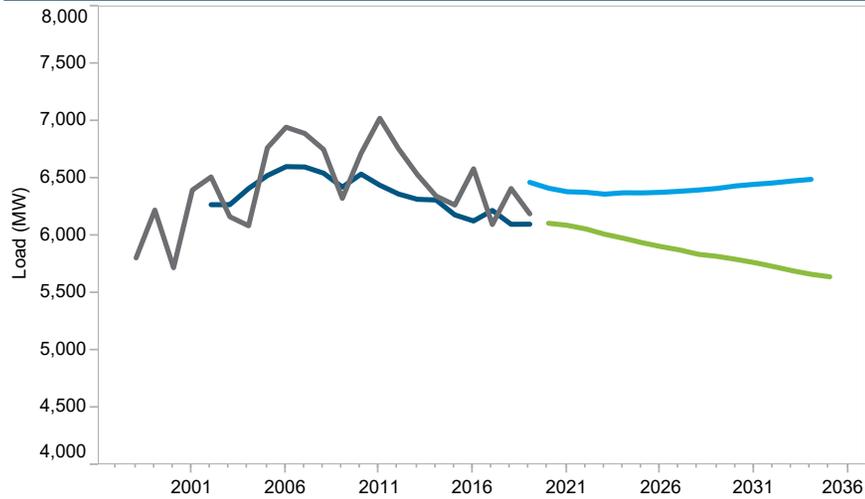


Peak
 WN peak
 Forecast 2019
 Forecast 2020

Altoona, PA
 Erie, PA
 Johnstown, PA
 PENLC - Non-Metro

Potomac Electric Power (PEPCO)

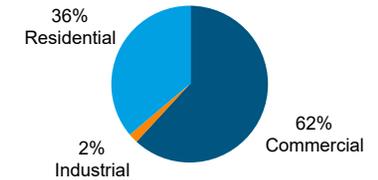
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,520
Heating Degree Days	2,929
Temperature-Humidity Index	85.3
Wind-Adjusted Temperature	17.9

RCI Makeup



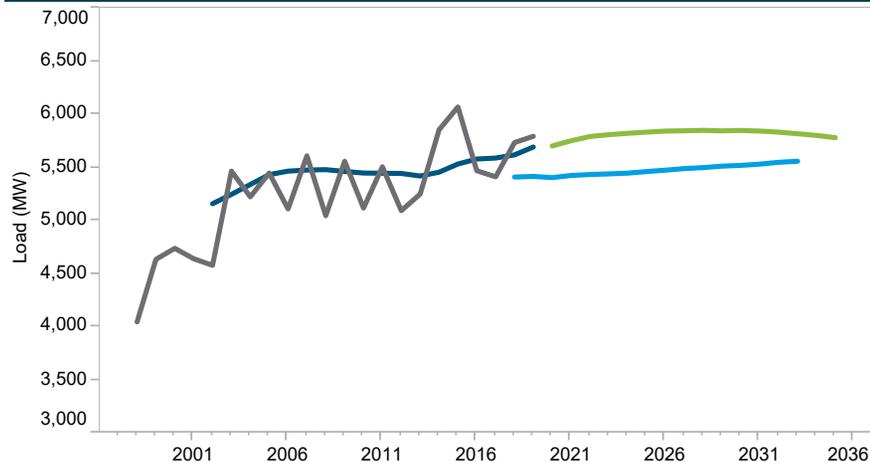
Zonal 10/15 Year Load Growth

SUMMER	-0.5%	-0.5%
WINTER	0.3%	0.1%

LDAs

CENTRAL MID-ATLANTIC PJM MID-ATLANTIC PJM RTO
SOUTHERN MID-ATLANTIC

Winter Peak



Metropolitan Statistical Areas and Weather Stations



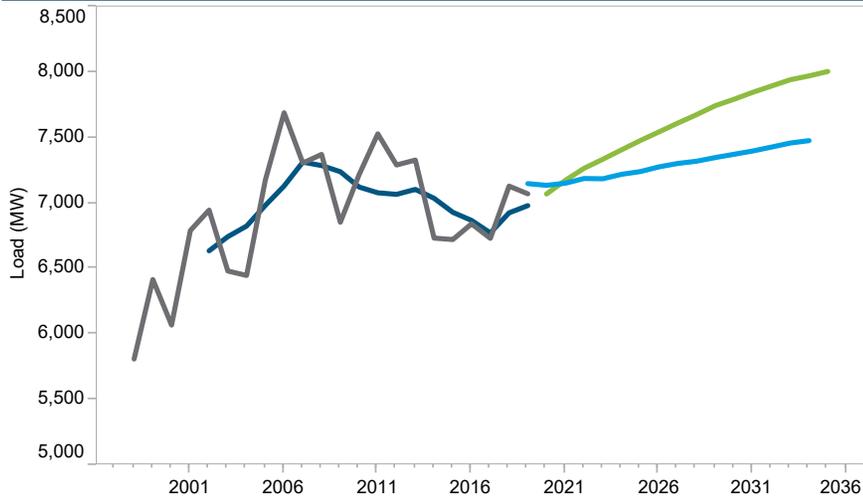
© 2019 Mapbox © OpenStreetMap

- California-Lexington Park, MD
- PEPCO - Non-Metro
- Washington-Arlington-Alexandria, DC-VA-MD-WV

■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

PPL Electric Utilities (PL)

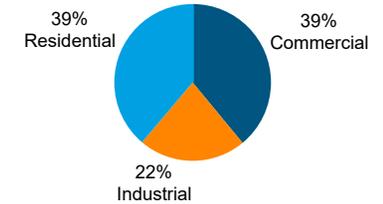
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	816
Heating Degree Days	4,365
Temperature-Humidity Index	82.8
Wind-Adjusted Temperature	9.9

RCI Makeup



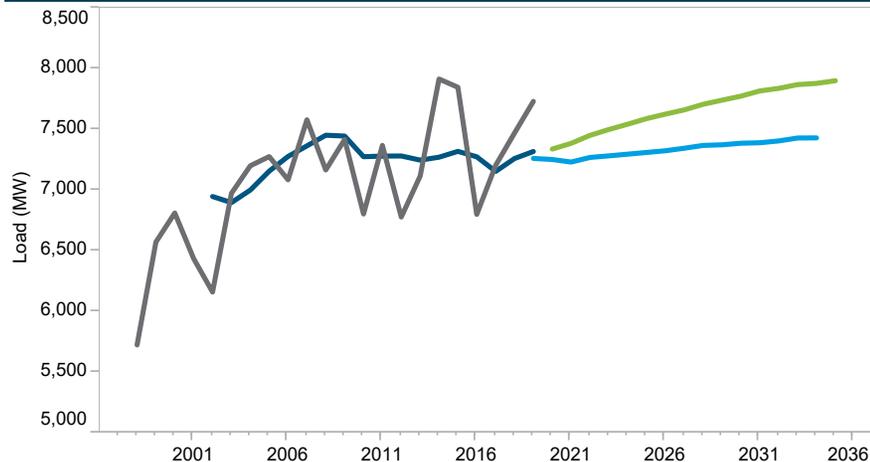
Zonal 10/15 Year Load Growth

SUMMER	1.0%	0.8%
WINTER	0.6%	0.5%

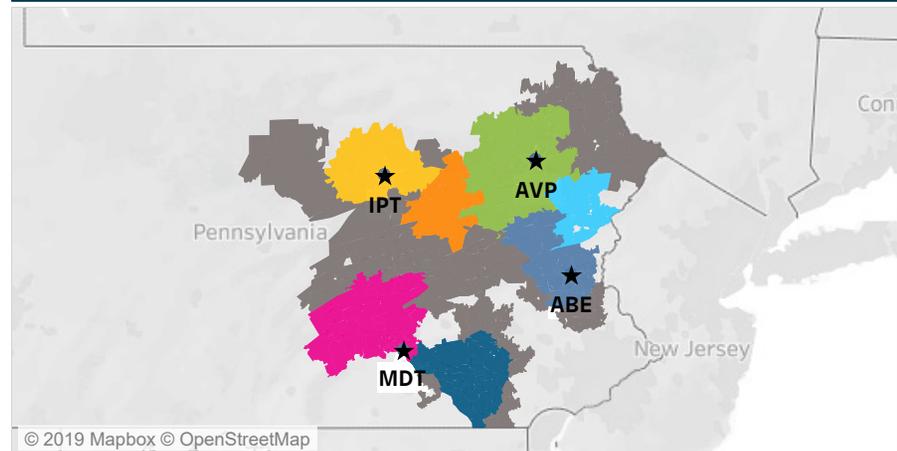
LDAs

CENTRAL MID-ATLANTIC PJM MID-ATLANTIC PJM RTO
PLGRP WESTERN MID-ATLANTIC

Winter Peak



Metropolitan Statistical Areas and Weather Stations

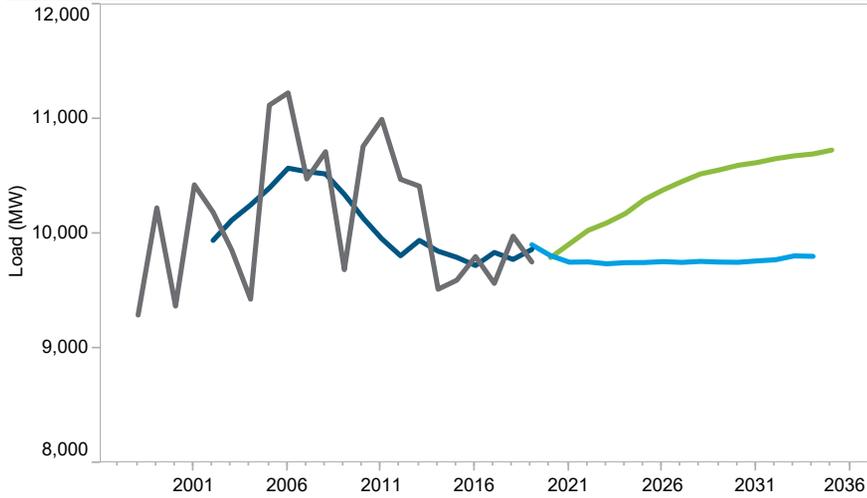


■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

- Allentown-Bethlehem-Easton, PA-NJ
- Bloomsburg-Berwick, PA
- East Stroudsburg, PA
- Harrisburg-Carlisle, PA
- Lancaster, PA
- PL - Non-Metro
- Scranton-Wilkes-Barre-Hazleton, PA
- Williamsport, PA

Public Service Electric & Gas (PSEG)

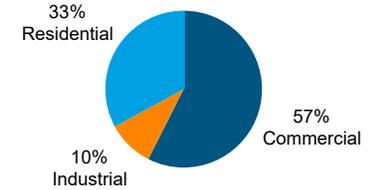
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,235
Heating Degree Days	3,568
Temperature-Humidity Index	84.7
Wind-Adjusted Temperature	10.9

RCI Makeup



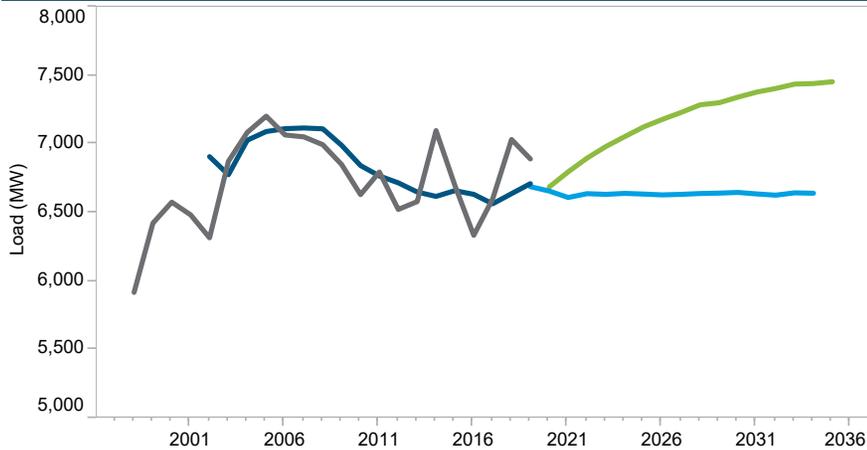
Zonal 10/15 Year Load Growth

SUMMER	0.8%	0.6%
WINTER	0.9%	0.7%

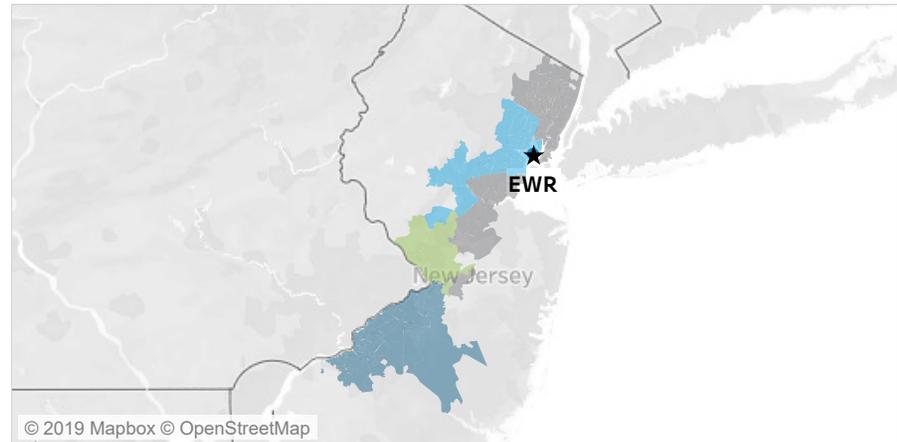
LDAs

EASTERN MID-ATLANTIC PJM MID-ATLANTIC PJM RTO

Winter Peak



Metropolitan Statistical Areas and Weather Stations

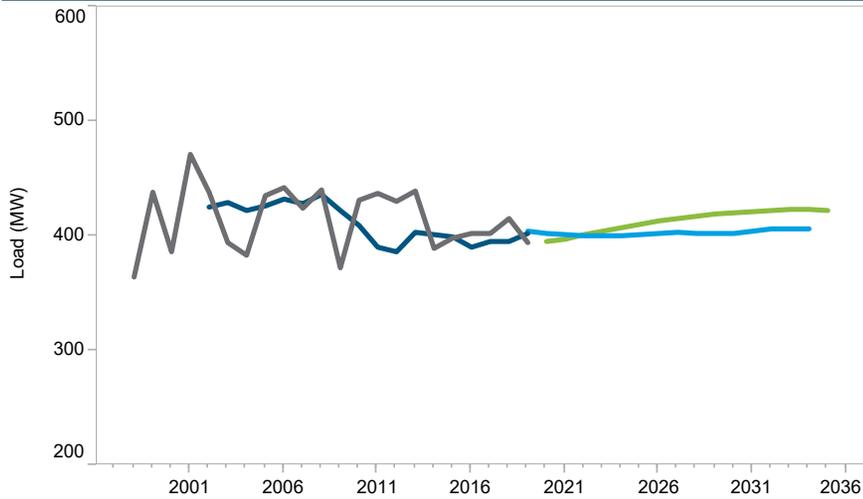


█ Peak █ WN peak █ Forecast 2019 █ Forecast 2020

█ Camden, NJ
 █ Newark, NJ-PA
 █ PS - Non-Metro
 █ Trenton, NJ

Rockland Electric Company (RECO)

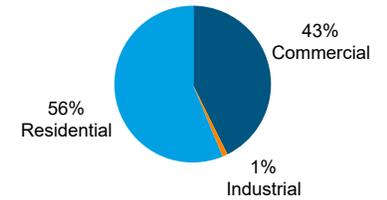
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,235
Heating Degree Days	3,568
Temperature-Humidity Index	84.7
Wind-Adjusted Temperature	10.9

RCI Makeup



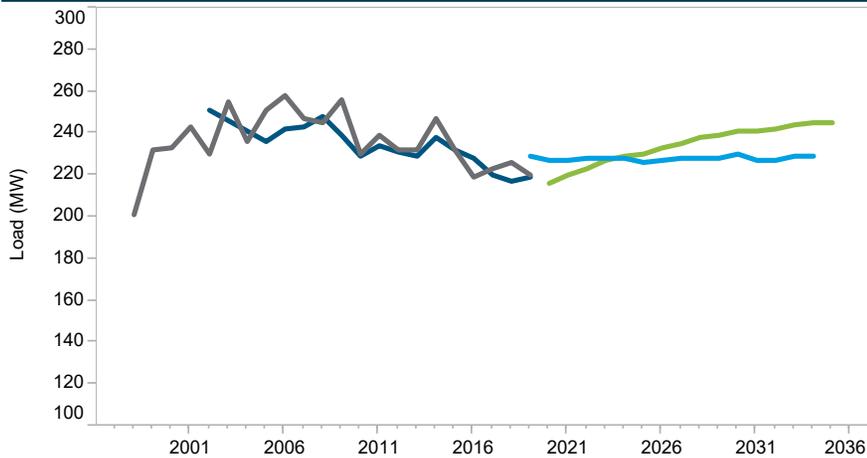
Zonal 10/15 Year Load Growth

SUMMER	0.6%	0.4%
WINTER	1.1%	0.8%

LDAs

EASTERN MID-ATLANTIC PJM MID-ATLANTIC PJM RTO

Winter Peak



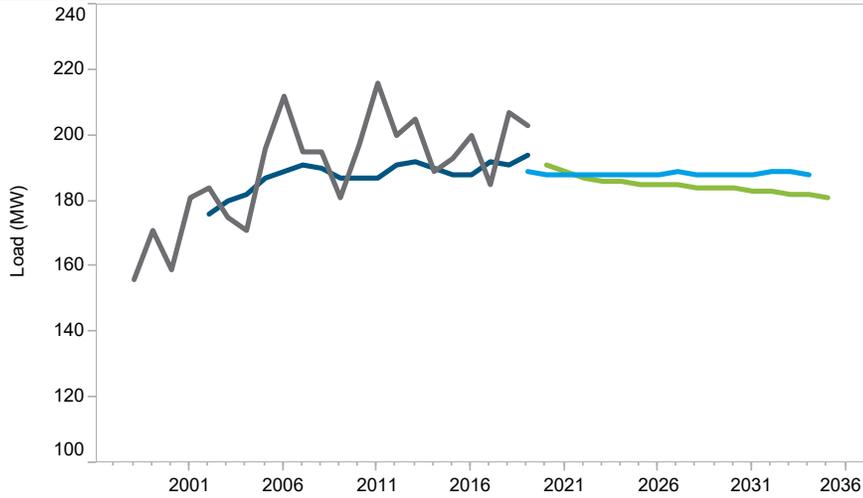
Metropolitan Statistical Areas and Weather Stations



█ Peak █ WN peak █ Forecast 2019 █ Forecast 2020

UGI Energy Services (UGI)

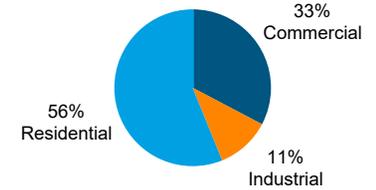
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	646
Heating Degree Days	4,727
Temperature-Humidity Index	82.1
Wind-Adjusted Temperature	6.4

RCI Makeup



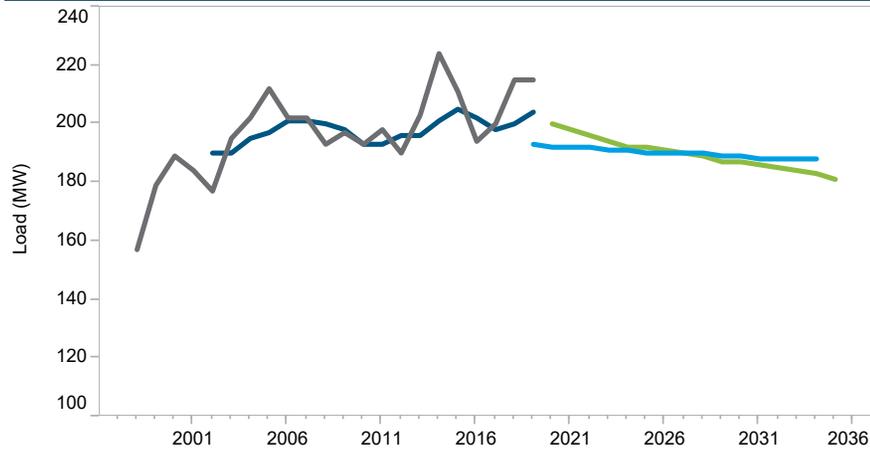
Zonal 10/15 Year Load Growth

SUMMER	-0.4%	-0.4%
WINTER	-0.7%	-0.7%

LDAs

CENTRAL MID-ATLANTIC PJM MID-ATLANTIC PJM RTO
PLGRP WESTERN MID-ATLANTIC

Winter Peak



Metropolitan Statistical Areas and Weather Stations

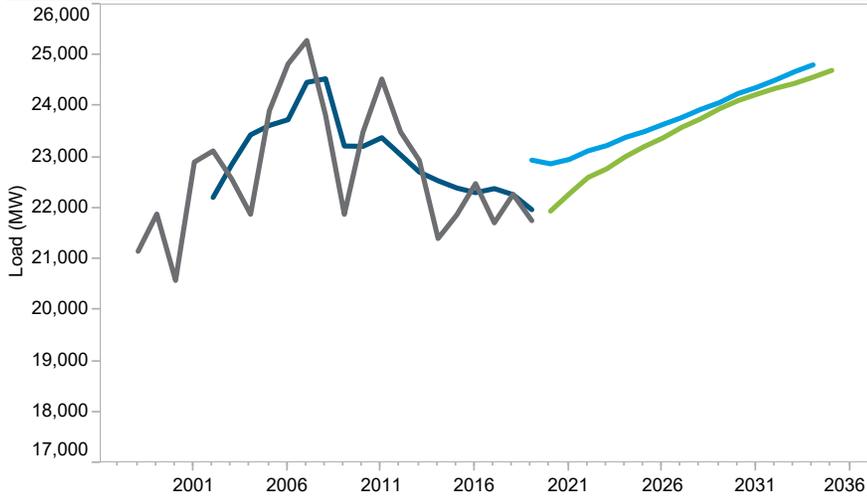


Scranton--Wilkes-Barre--Hazleton, PA

■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

American Electric Power (AEP)

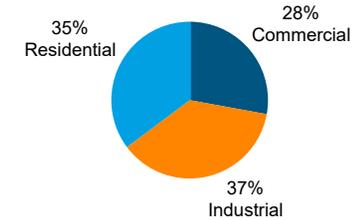
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	912
Heating Degree Days	3,961
Temperature-Humidity Index	82.2
Wind-Adjusted Temperature	9.6

RCI Makeup



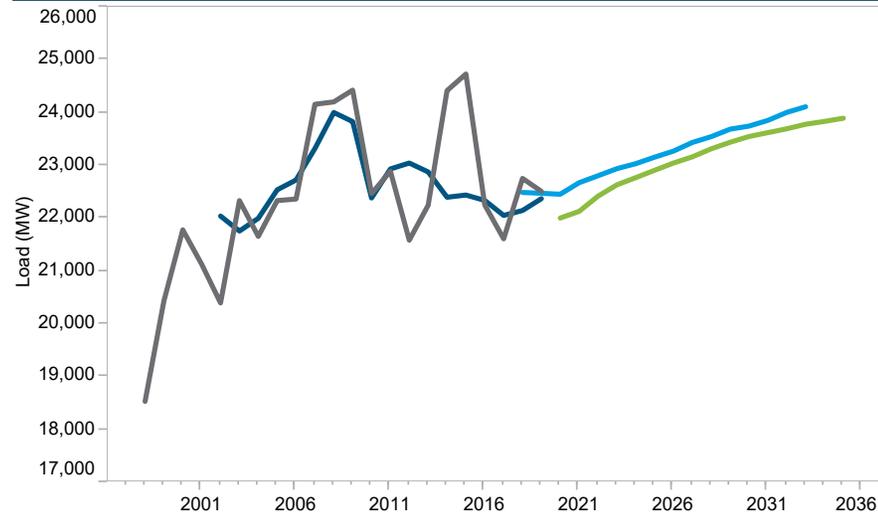
Zonal 10/15 Year Load Growth

SUMMER	0.9%	0.8%
WINTER	0.7%	0.6%

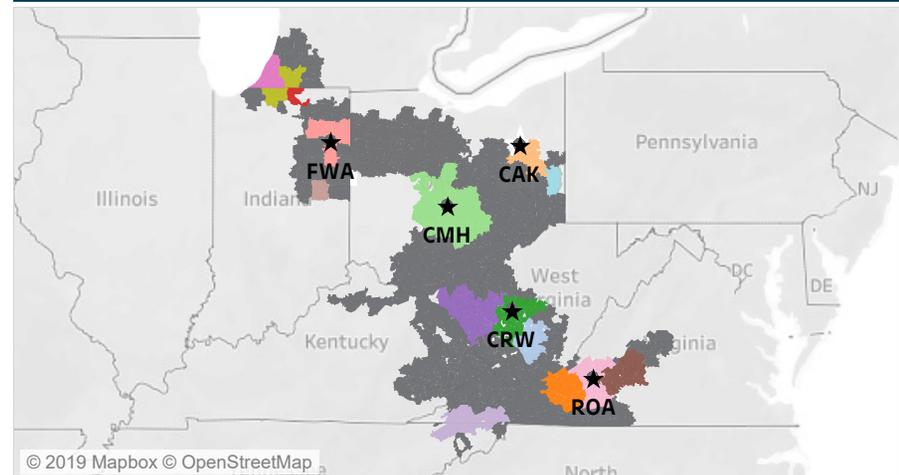
LDAs

PJM RTO PJM WESTERN

Winter Peak



Metropolitan Statistical Areas and Weather Stations

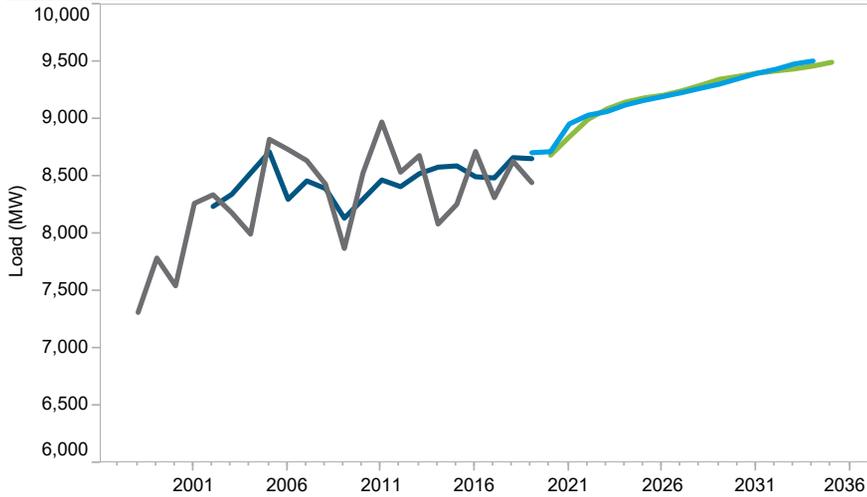


- █ Peak
- █ AEP - Non-Metro
- █ WN peak
- █ Forecast 2019
- █ Forecast 2020
- █ Beckley, WV
- █ Blacksburg-Christiansburg-Radford, VA
- █ Canton-Massillon, OH
- █ Charleston, WV
- █ Columbus, OH
- █ Elkhart-Goshen, IN
- █ Fort Wayne, IN

- █ Huntington-Ashland, WV-KY-OH
- █ Kingsport-Bristol-Bristol, TN-VA
- █ Lynchburg, VA
- █ Muncie, IN
- █ Niles-Benton Harbor, MI
- █ Roanoke, VA
- █ South Bend-Mishawaka, IN-MI
- █ Weirton-Steubenville, WV-OH

Allegheny Power Systems (APS)

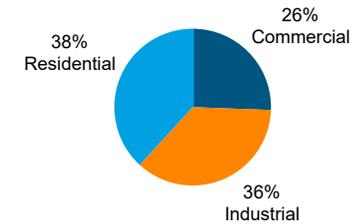
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	879
Heating Degree Days	4,073
Temperature-Humidity Index	82.2
Wind-Adjusted Temperature	9.0

RCI Makeup



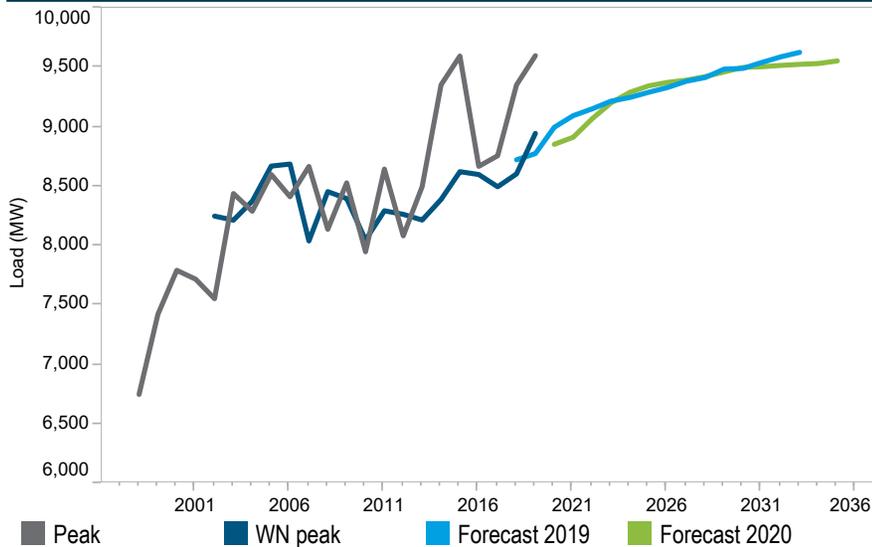
Zonal 10/15 Year Load Growth

SUMMER	0.8%	0.6%
WINTER	0.7%	0.5%

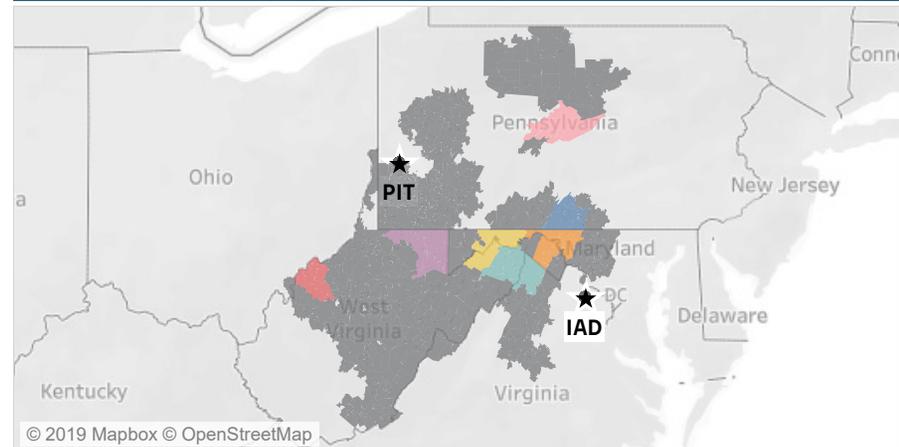
LDAs

PJM RTO PJM WESTERN

Winter Peak



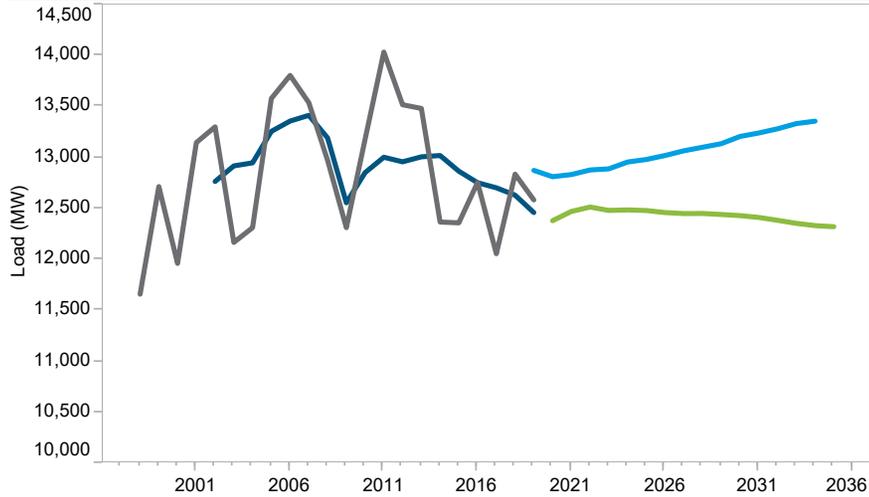
Metropolitan Statistical Areas and Weather Stations



- APS - Non-metro
- Morgantown, WV
- Chambersburg-Waynesboro, PA
- Parkersburg-Vienna, WV
- Cumberland, MD-WV
- State College, PA
- Hagerstown-Martinsburg, MD-WV
- Winchester, VA-WV

American Transmission Systems, Inc. (ATSI)

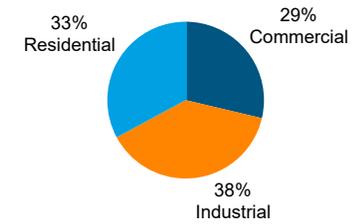
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	758
Heating Degree Days	4,668
Temperature-Humidity Index	81.8
Wind-Adjusted Temperature	4.6

RCI Makeup



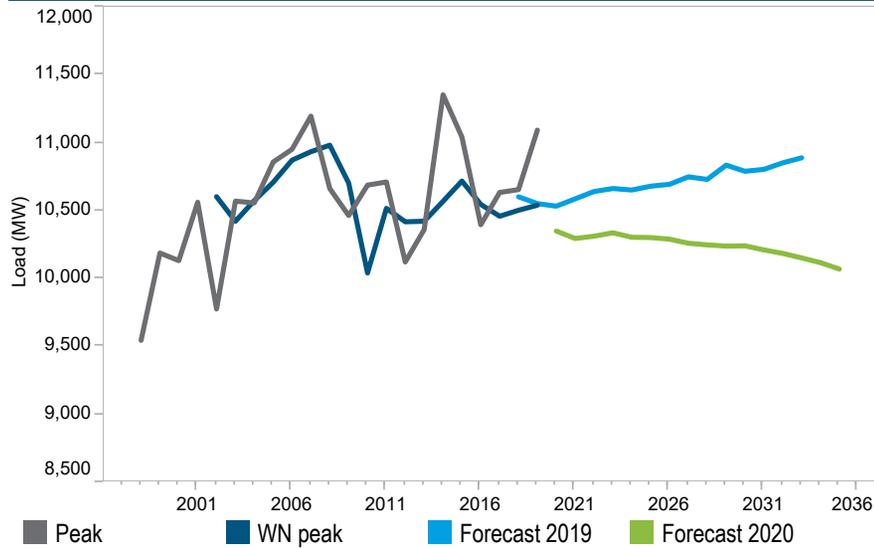
Zonal 10/15 Year Load Growth

SUMMER	0.0%	0.0%
WINTER	-0.1%	-0.2%

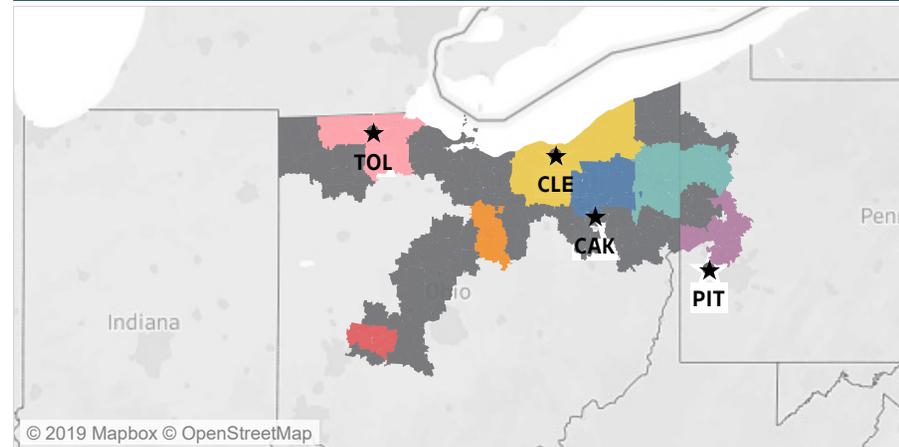
LDAs

PJM RTO PJM WESTERN

Winter Peak



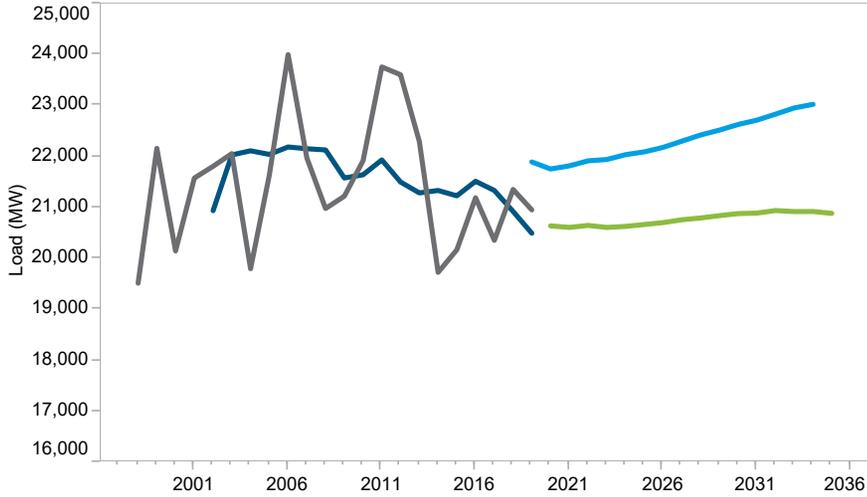
Metropolitan Statistical Areas and Weather Stations



- Akron, OH
- ATSI - Non-Metro
- Cleveland-Elyria, OH
- Mansfield, OH
- Pittsburgh, PA
- Springfield, OH
- Toledo, OH
- Youngstown-Warren-Boardman, OH-PA

Commonwealth Edison (COMED)

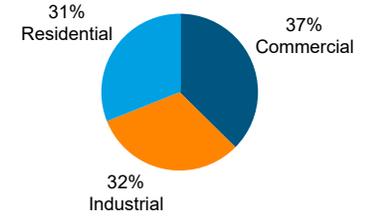
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	915
Heating Degree Days	4,927
Temperature-Humidity Index	84.0
Wind-Adjusted Temperature	-0.9

RCI Makeup



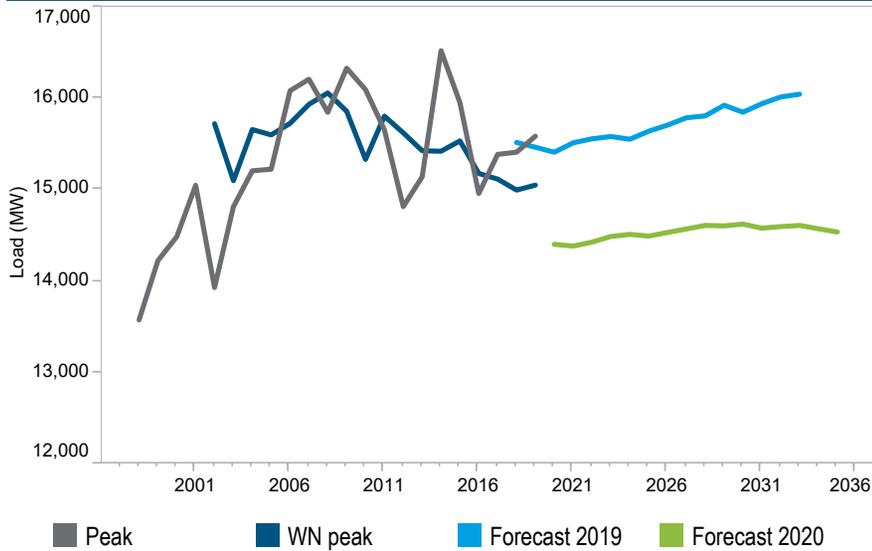
Zonal 10/15 Year Load Growth

SUMMER	0.1%	0.1%
WINTER	0.2%	0.1%

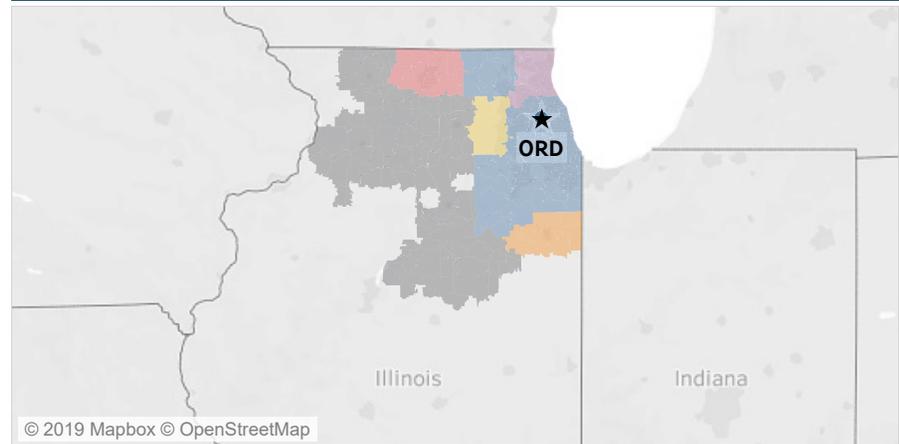
LDAs

PJM RTO PJM WESTERN

Winter Peak



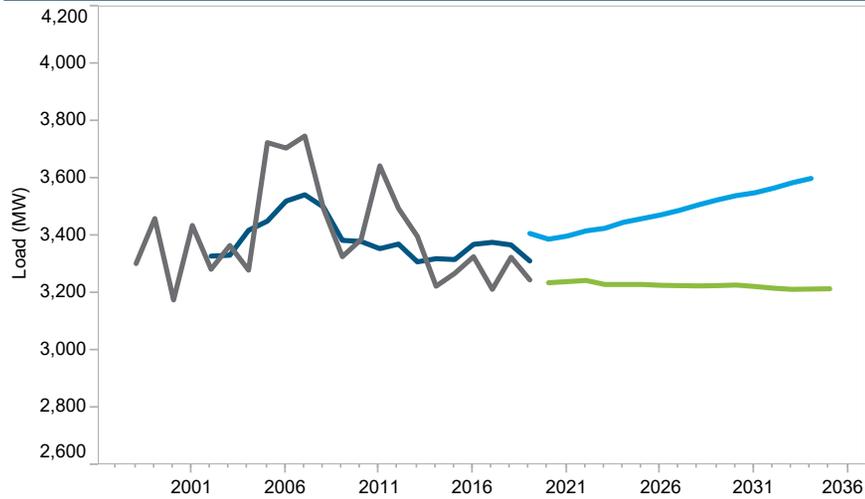
Metropolitan Statistical Areas and Weather Stations



- Chicago-Naperville-Arlington Heights, IL
- Chicago-Naperville-Elgin, IL-IN-WI
- COMED - Non-Metro
- Kankakee, IL
- Lake County-Kenosha County, IL-WI
- Rockford, IL

Dayton Power and Light (DAYTON)

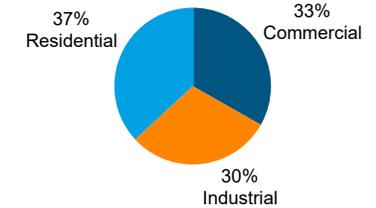
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	932
Heating Degree Days	4,342
Temperature-Humidity Index	83.1
Wind-Adjusted Temperature	3.8

RCI Makeup



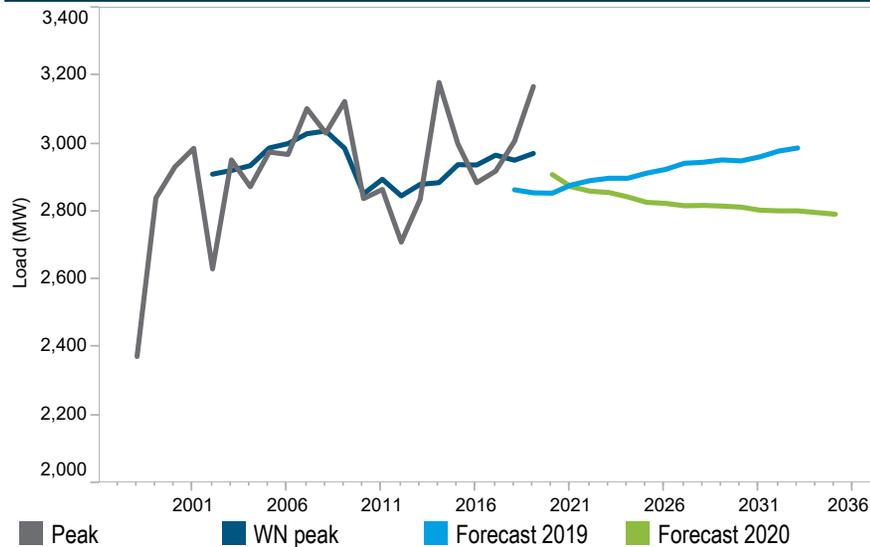
Zonal 10/15 Year Load Growth

SUMMER	0.0%	0.0%
WINTER	-0.3%	-0.3%

LDAs

PJM RTO PJM WESTERN

Winter Peak



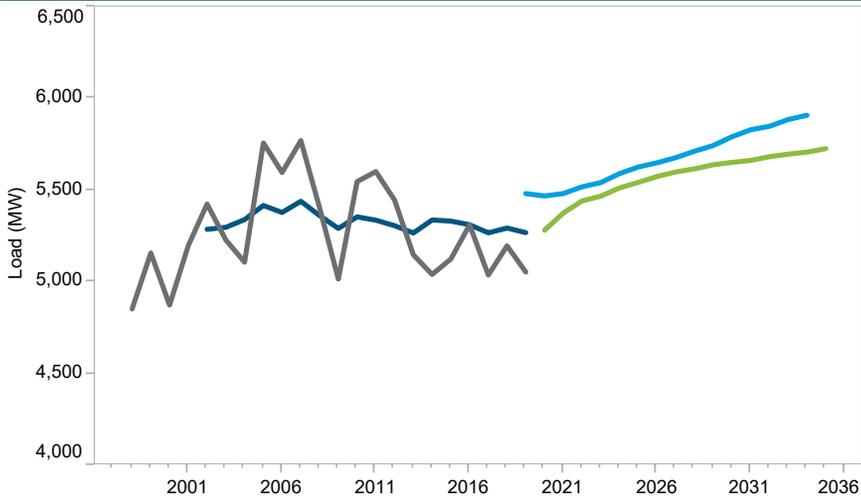
Metropolitan Statistical Areas and Weather Stations



■ DAY - Non-Metro
■ Dayton, OH

Duke Energy Ohio and Kentucky (DEOK)

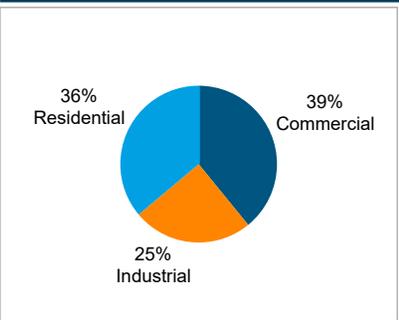
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,086
Heating Degree Days	3,814
Temperature-Humidity Index	83.7
Wind-Adjusted Temperature	8.6

RCI Makeup

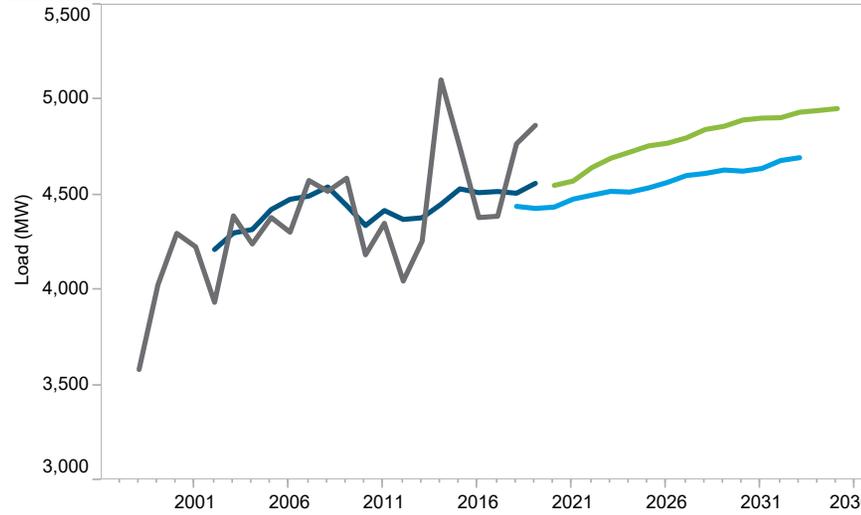


Zonal 10/15 Year Load Growth

SUMMER	0.7%	0.5%
WINTER	0.7%	0.6%

LDAs

Winter Peak



Metropolitan Statistical Areas and Weather Stations

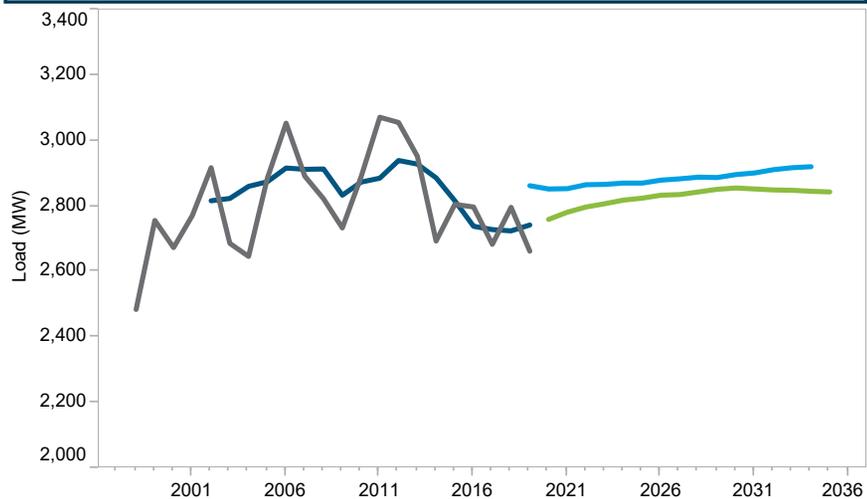


■ Peak
 ■ WN peak
 ■ Forecast 2019
 ■ Forecast 2020

■ Cincinnati, OH-KY-IN
■ DEOK - Non-Metro

Duquesne Light Company (DLCO)

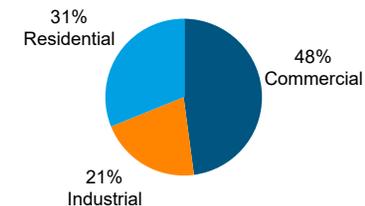
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	780
Heating Degree Days	4,362
Temperature-Humidity Index	81.9
Wind-Adjusted Temperature	5.8

RCI Makeup

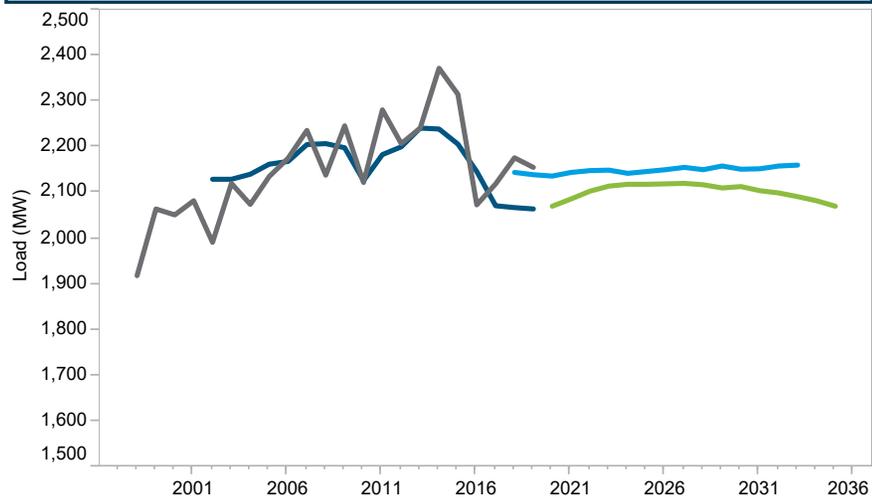


Zonal 10/15 Year Load Growth

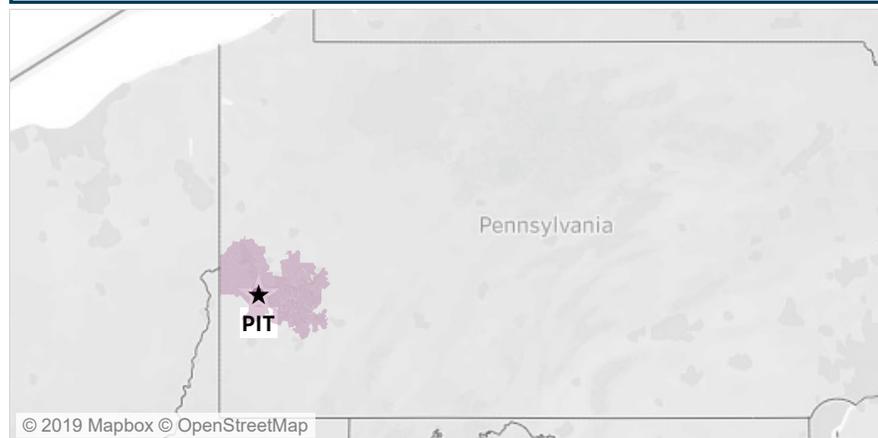
SUMMER	0.3%	0.2%
WINTER	0.2%	0.0%

LDAs

Winter Peak



Metropolitan Statistical Areas and Weather Stations

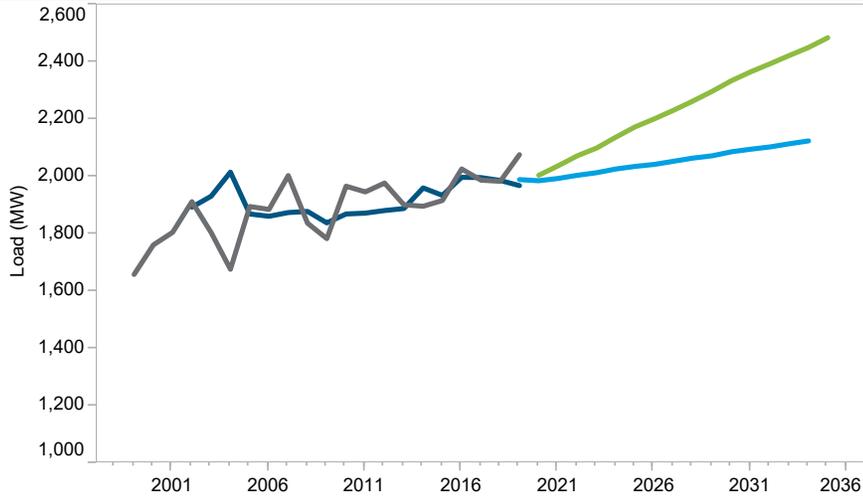


■ Pittsburgh, PA

■ Peak ■ WN peak ■ Forecast 2019 ■ Forecast 2020

East Kentucky Power Cooperative (EKPC)

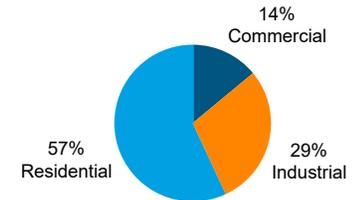
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,231
Heating Degree Days	3,456
Temperature-Humidity Index	84.0
Wind-Adjusted Temperature	11.8

RCI Makeup



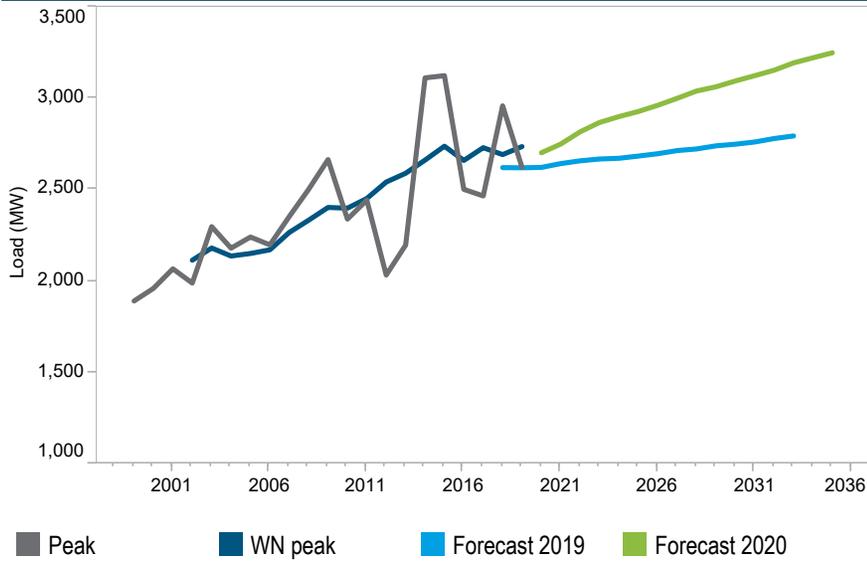
Zonal 10/15 Year Load Growth

SUMMER	1.5%	1.4%
WINTER	1.4%	1.2%

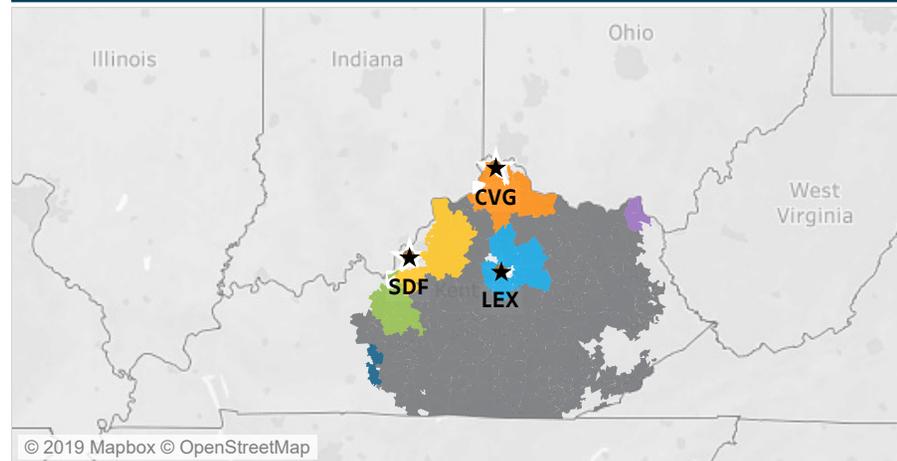
LDAs

PJM RTO PJM WESTERN

Winter Peak



Metropolitan Statistical Areas and Weather Stations

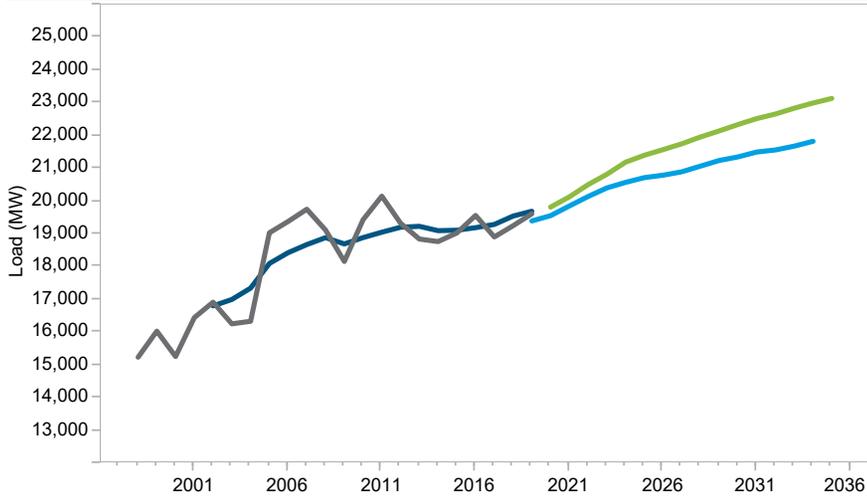


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- Bowling Green, KY
- Huntington-Ashland, WV-KY-OH
- Cincinnati, OH-KY-IN
- Lexington-Fayette, KY
- EKPC - Non-Metro
- Louisville/Jefferson County, KY-IN
- Elizabethtown-Fort Knox, KY

Dominion (DOM)

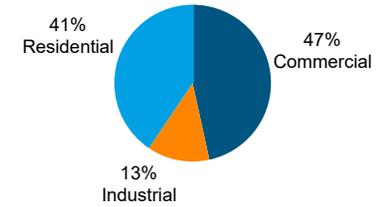
Summer Peak



Weather - Annual Average 1994-2018

Cooling Degree Days	1,386
Heating Degree Days	2,781
Temperature-Humidity Index	84.6
Wind-Adjusted Temperature	20.6

RCI Makeup



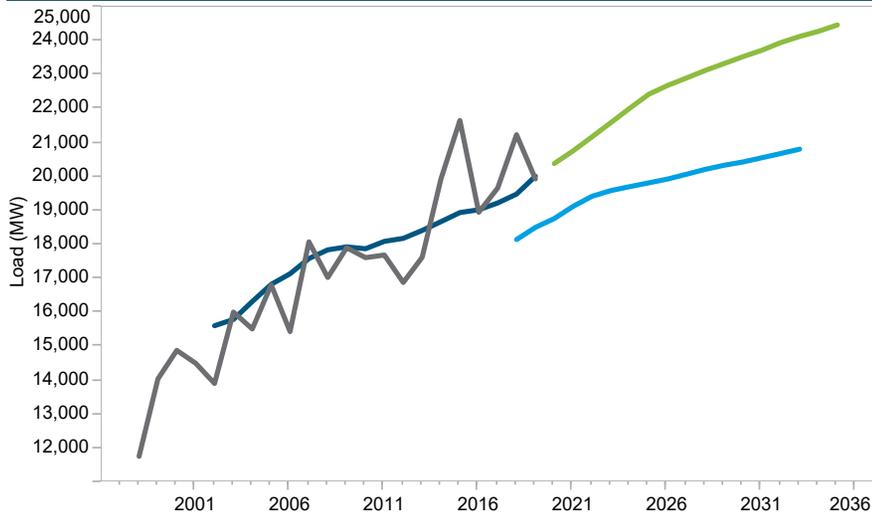
Zonal 10/15 Year Load Growth

SUMMER	1.2%	1.0%
WINTER	1.4%	1.2%

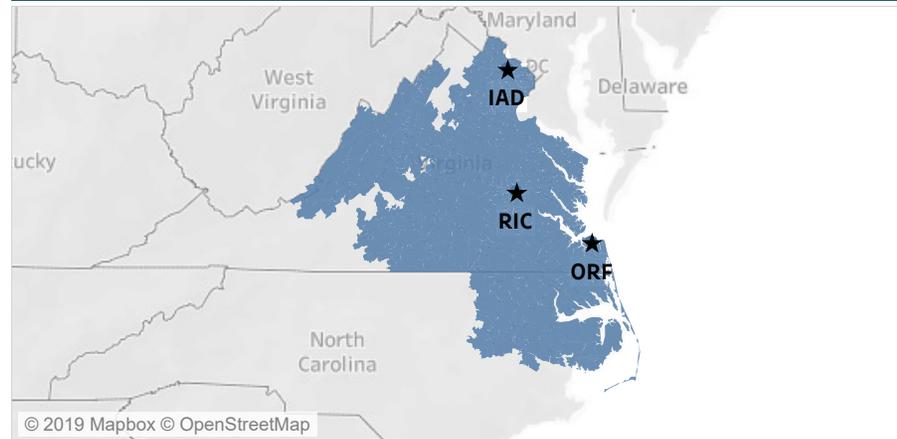
LDAs

PJM RTO

Winter Peak



Metropolitan Statistical Areas and Weather Stations



Virginia Commonwealth Economics

█ Peak
 █ WN peak
 █ Forecast 2019
 █ Forecast 2020

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Table A-1

**PJM MID-ATLANTIC REGION
SUMMER PEAK LOAD COMPARISONS OF THE CURRENT FORECAST
TO THE JANUARY 2019 LOAD FORECAST REPORT**

INCREASE OR DECREASE OVER PRIOR FORECAST

	2020		2025		2030	
	MW	%	MW	%	MW	%
AE	116	4.8%	269	11.2%	375	15.6%
BGE	(242)	-3.6%	(132)	-2.0%	(63)	-1.0%
DPL	74	1.9%	235	6.0%	345	8.7%
JCPL	(19)	-0.3%	111	1.9%	202	3.4%
METED	20	0.7%	76	2.5%	107	3.4%
PECO	(250)	-2.9%	(305)	-3.4%	(477)	-5.2%
PENLC	(40)	-1.4%	(12)	-0.4%	40	1.4%
PEPCO	(306)	-4.8%	(435)	-6.8%	(641)	-10.0%
PL	(66)	-0.9%	237	3.3%	420	5.7%
PS	(17)	-0.2%	549	5.6%	846	8.7%
RECO	(7)	-1.7%	9	2.2%	18	4.5%
UGI	3	1.6%	(3)	-1.6%	(4)	-2.1%
PJM MID-ATLANTIC	(487)	-0.9%	789	1.4%	1,390	2.4%
FE-EAST	117	1.0%	277	2.4%	456	3.9%
PLGRP	(16)	-0.2%	268	3.6%	464	6.2%

Table A-1

**PJM WESTERN REGION, PJM SOUTHERN REGION AND PJM RTO
SUMMER PEAK LOAD COMPARISONS OF THE CURRENT FORECAST
TO THE JANUARY 2019 LOAD FORECAST REPORT**

INCREASE OR DECREASE OVER PRIOR FORECAST

	2020		2025		2030	
	MW	%	MW	%	MW	%
AEP	(928)	-4.1%	(293)	-1.2%	(139)	-0.6%
APS	(31)	-0.4%	21	0.2%	21	0.2%
ATSI	(432)	-3.4%	(501)	-3.9%	(777)	-5.9%
COMED	(1,117)	-5.1%	(1,426)	-6.5%	(1,749)	-7.7%
DAYTON	(152)	-4.5%	(230)	-6.6%	(312)	-8.8%
DEOK	(187)	-3.4%	(84)	-1.5%	(140)	-2.4%
DLCO	(93)	-3.3%	(46)	-1.6%	(41)	-1.4%
EKPC	19	1.0%	138	6.8%	248	11.9%
OVEC	0	0.0%	0	0.0%	0	0.0%
PJM WESTERN	(2,705)	-3.5%	(2,022)	-2.5%	(2,658)	-3.2%
DOM	261	1.3%	683	3.3%	989	4.6%
PJM RTO	(2,778)	-1.8%	(673)	-0.4%	(28)	-0.0%

Table A-2

**PJM MID-ATLANTIC REGION
WINTER PEAK LOAD COMPARISONS OF THE CURRENT FORECAST
TO THE JANUARY 2019 LOAD FORECAST REPORT**

INCREASE OR DECREASE OVER PRIOR FORECAST

	MW	19/20	%	MW	24/25	%	MW	29/30	%
AE	(34)		-2.2%	96		6.2%	161		10.4%
BGE	1		0.0%	278		4.7%	376		6.4%
DPL	272		7.9%	434		12.4%	518		14.4%
JCPL	(6)		-0.2%	199		5.4%	311		8.4%
METED	73		2.8%	120		4.5%	149		5.4%
PECO	50		0.7%	(62)		-0.9%	(230)		-3.3%
PENLC	(31)		-1.1%	(52)		-1.8%	(64)		-2.2%
PEPCO	287		5.3%	386		7.1%	336		6.1%
PL	86		1.2%	279		3.8%	388		5.3%
PS	30		0.5%	490		7.4%	695		10.5%
RECO	(11)		-4.8%	4		1.8%	11		4.8%
UGI	8		4.2%	2		1.1%	(2)		-1.1%
PJM MID-ATLANTIC	874		1.9%	2,266		4.9%	2,614		5.6%
FE-EAST	20		0.2%	242		2.6%	392		4.2%
PLGRP	112		1.5%	296		4.0%	402		5.3%

Table A-2

**PJM WESTERN REGION, PJM SOUTHERN REGION AND PJM RTO
WINTER PEAK LOAD COMPARISONS OF THE CURRENT FORECAST
TO THE JANUARY 2019 LOAD FORECAST REPORT**

INCREASE OR DECREASE OVER PRIOR FORECAST

	19/20		24/25		29/30	
	MW	%	MW	%	MW	%
AEP	(469)	-2.1%	(125)	-0.5%	(139)	-0.6%
APS	78	0.9%	98	1.1%	14	0.1%
ATSI	(202)	-1.9%	(350)	-3.3%	(594)	-5.5%
COMED	(1,063)	-6.9%	(1,060)	-6.8%	(1,301)	-8.2%
DAYTON	54	1.9%	(71)	-2.4%	(139)	-4.7%
DEOK	121	2.7%	243	5.4%	263	5.7%
DLCO	(69)	-3.2%	(24)	-1.1%	(45)	-2.1%
EKPC	82	3.1%	256	9.6%	355	13.0%
OVEC	0	0.0%	0	0.0%	0	0.0%
PJM WESTERN	(1,431)	-2.1%	(1,098)	-1.6%	(1,344)	-1.9%
DOM	1,879	10.2%	2,719	13.8%	3,198	15.7%
PJM RTO	139	0.1%	2,629	2.0%	3,092	2.3%

Table B-1

SUMMER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2020 - 2030

	METERED 2019	UNRESTRICTED 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Annual Growth Rate (10 yr)
AE	2,738	2,738	2,542	2,577	2,597	2,616	2,638	2,665	2,682	2,723	2,737	2,756	2,773	0.9%
				1.4%	0.8%	0.7%	0.8%	1.0%	0.6%	1.5%	0.5%	0.7%	0.6%	
BGE	6,706	6,706	6,447	6,467	6,481	6,463	6,489	6,504	6,506	6,507	6,519	6,543	6,558	0.2%
				0.3%	0.2%	-0.3%	0.4%	0.2%	0.0%	0.0%	0.2%	0.4%	0.2%	
DPL	4,098	4,098	3,979	4,019	4,058	4,083	4,109	4,144	4,179	4,215	4,255	4,293	4,327	0.8%
				1.0%	1.0%	0.6%	0.6%	0.9%	0.8%	0.9%	0.9%	0.9%	0.8%	
JCPL	6,058	6,058	5,842	5,860	5,881	5,892	5,925	5,972	6,014	6,047	6,068	6,099	6,122	0.5%
				0.3%	0.4%	0.2%	0.6%	0.8%	0.7%	0.5%	0.3%	0.5%	0.4%	
METED	2,987	2,987	3,003	3,035	3,072	3,094	3,126	3,156	3,180	3,210	3,234	3,264	3,287	0.9%
				1.1%	1.2%	0.7%	1.0%	1.0%	0.8%	0.9%	0.7%	0.9%	0.7%	
PECO	8,429	8,432	8,415	8,473	8,522	8,537	8,564	8,584	8,596	8,618	8,632	8,665	8,677	0.3%
				0.7%	0.6%	0.2%	0.3%	0.2%	0.1%	0.3%	0.2%	0.4%	0.1%	
PENLC	2,866	2,866	2,849	2,845	2,865	2,862	2,872	2,884	2,901	2,910	2,928	2,948	2,957	0.4%
				-0.1%	0.7%	-0.1%	0.3%	0.4%	0.6%	0.3%	0.6%	0.7%	0.3%	
PEPCO	6,191	6,191	6,109	6,091	6,059	6,013	5,978	5,939	5,905	5,876	5,838	5,820	5,794	(0.5%)
				-0.3%	-0.5%	-0.8%	-0.6%	-0.7%	-0.6%	-0.5%	-0.6%	-0.3%	-0.4%	
PL	7,070	7,070	7,069	7,173	7,265	7,334	7,406	7,477	7,543	7,610	7,674	7,743	7,792	1.0%
				1.5%	1.3%	0.9%	1.0%	1.0%	0.9%	0.9%	0.8%	0.9%	0.6%	
PS	9,753	9,754	9,792	9,911	10,029	10,095	10,177	10,298	10,382	10,455	10,522	10,557	10,597	0.8%
				1.2%	1.2%	0.7%	0.8%	1.2%	0.8%	0.7%	0.6%	0.3%	0.4%	
RECO	394	394	395	397	401	404	407	410	413	415	417	419	420	0.6%
				0.5%	1.0%	0.7%	0.7%	0.7%	0.7%	0.5%	0.5%	0.5%	0.2%	
UGI	203	203	191	189	187	186	186	185	185	185	184	184	184	(0.4%)
				-1.0%	-1.1%	-0.5%	0.0%	-0.5%	0.0%	0.0%	-0.5%	0.0%	0.0%	
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	56,586	56,589	55,852	56,215	56,533	56,734	57,024	57,282	57,539	57,800	58,058	58,316	58,540	0.5%
			781	822	884	845	853	936	947	971	950	975	948	
			0.6%	0.6%	0.4%	0.5%	0.5%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%	
FE-EAST	11,540	11,540	11,555	11,585	11,662	11,691	11,744	11,833	11,937	11,996	12,096	12,147	12,204	0.5%
				0.3%	0.7%	0.2%	0.5%	0.8%	0.9%	0.5%	0.8%	0.4%	0.5%	
PLGRP	7,271	7,271	7,256	7,361	7,447	7,514	7,583	7,661	7,726	7,793	7,852	7,921	7,974	0.9%
				1.4%	1.2%	0.9%	0.9%	1.0%	0.8%	0.9%	0.8%	0.9%	0.7%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2020).

Summer season indicates peak from June, July, August.

Table B-1 (continued)

SUMMER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2031 - 2035

	2031	2032	2033	2034	2035	Annual Growth Rate (15 yr)
AE	2,794	2,804	2,811	2,822	2,830	0.7%
	0.8%	0.4%	0.2%	0.4%	0.3%	
BGE	6,566	6,570	6,571	6,571	6,585	0.1%
	0.1%	0.1%	0.0%	0.0%	0.2%	
DPL	4,362	4,393	4,427	4,462	4,500	0.8%
	0.8%	0.7%	0.8%	0.8%	0.9%	
JCPL	6,145	6,162	6,195	6,203	6,200	0.4%
	0.4%	0.3%	0.5%	0.1%	-0.0%	
METED	3,310	3,329	3,344	3,362	3,380	0.8%
	0.7%	0.6%	0.5%	0.5%	0.5%	
PECO	8,683	8,677	8,672	8,667	8,677	0.2%
	0.1%	-0.1%	-0.1%	-0.1%	0.1%	
PENLC	2,971	2,982	2,996	3,007	3,021	0.4%
	0.5%	0.4%	0.5%	0.4%	0.5%	
PEPCO	5,765	5,731	5,695	5,664	5,642	(0.5%)
	-0.5%	-0.6%	-0.6%	-0.5%	-0.4%	
PL	7,845	7,893	7,941	7,970	8,004	0.8%
	0.7%	0.6%	0.6%	0.4%	0.4%	
PS	10,621	10,655	10,680	10,696	10,730	0.6%
	0.2%	0.3%	0.2%	0.1%	0.3%	
RECO	421	422	423	423	422	0.4%
	0.2%	0.2%	0.2%	0.0%	-0.2%	
UGI	183	183	182	182	181	(0.4%)
	-0.5%	0.0%	-0.5%	0.0%	-0.5%	
DIVERSITY - MID-ATLANTIC(-)	1,001	944	928	930	991	
PJM MID-ATLANTIC	58,665	58,857	59,009	59,099	59,181	0.4%
	0.2%	0.3%	0.3%	0.2%	0.1%	
FE-EAST	12,266	12,325	12,380	12,420	12,421	0.5%
	0.5%	0.5%	0.4%	0.3%	0.0%	
PLGRP	8,026	8,072	8,122	8,150	8,182	0.8%
	0.7%	0.6%	0.6%	0.3%	0.4%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2020).

Summer season indicates peak from June, July, August.

Table B-1
SUMMER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2030

	METERED 2019	UNRESTRICTED 2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Annual Growth Rate (10 yr)
AEP	21,758	21,758	21,945	22,284	22,605	22,775	23,015	23,212	23,382	23,589	23,755	23,951	24,113	0.9%
				1.5%	1.4%	0.8%	1.1%	0.9%	0.7%	0.9%	0.7%	0.8%	0.7%	
APS	8,446	8,446	8,685	8,845	8,998	9,088	9,149	9,185	9,208	9,247	9,295	9,347	9,373	0.8%
				1.8%	1.7%	1.0%	0.7%	0.4%	0.3%	0.4%	0.5%	0.6%	0.3%	
ATSI	12,573	12,582	12,378	12,469	12,512	12,479	12,484	12,478	12,458	12,448	12,449	12,439	12,428	0.0%
				0.7%	0.3%	-0.3%	0.0%	-0.0%	-0.2%	-0.1%	0.0%	-0.1%	-0.1%	
COMED	20,949	20,949	20,635	20,605	20,644	20,604	20,625	20,662	20,699	20,755	20,790	20,836	20,876	0.1%
				-0.1%	0.2%	-0.2%	0.1%	0.2%	0.2%	0.3%	0.2%	0.2%	0.2%	
DAYTON	3,246	3,246	3,236	3,240	3,244	3,230	3,230	3,230	3,227	3,226	3,225	3,226	3,228	(0.0%)
				0.1%	0.1%	-0.4%	0.0%	0.0%	-0.1%	-0.0%	-0.0%	0.0%	0.1%	
DEOK	5,052	5,052	5,280	5,374	5,440	5,466	5,511	5,541	5,573	5,598	5,615	5,637	5,650	0.7%
				1.8%	1.2%	0.5%	0.8%	0.5%	0.6%	0.4%	0.3%	0.4%	0.2%	
DLCO	2,662	2,662	2,759	2,781	2,797	2,807	2,818	2,824	2,833	2,835	2,843	2,851	2,855	0.3%
				0.8%	0.6%	0.4%	0.4%	0.2%	0.3%	0.1%	0.3%	0.3%	0.1%	
EKPC	2,076	2,076	2,004	2,037	2,072	2,099	2,137	2,173	2,201	2,231	2,263	2,297	2,334	1.5%
				1.6%	1.7%	1.3%	1.8%	1.7%	1.3%	1.4%	1.4%	1.5%	1.6%	
OVEC	93	93	95	95	95	95	95	95	95	95	95	95	95	0.0%
				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
DIVERSITY - WESTERN(-) PJM WESTERN	76,286	76,300	1,377 75,640	1,329 76,401	1,281 77,126	1,204 77,439	1,210 77,854	1,206 78,194	1,187 78,489	1,164 78,860	1,143 79,187	1,198 79,481	1,311 79,641	0.5%
				1.0%	0.9%	0.4%	0.5%	0.4%	0.4%	0.5%	0.4%	0.4%	0.2%	
DOM	19,608	19,608	19,813	20,126	20,500	20,815	21,185	21,397	21,569	21,747	21,955	22,141	22,336	1.2%
				1.6%	1.9%	1.5%	1.8%	1.0%	0.8%	0.8%	1.0%	0.8%	0.9%	
DIVERSITY - TOTAL(-) PJM RTO	151,240	151,302	5,371 148,092	5,277 149,616	5,273 151,051	5,139 151,898	5,683 152,443	5,700 153,315	5,232 154,499	5,101 155,441	5,279 156,014	5,555 156,556	5,644 157,132	0.6%
				1.0%	1.0%	0.6%	0.4%	0.6%	0.8%	0.6%	0.4%	0.3%	0.4%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2020).

Summer season indicates peak from June, July, August.

Table B-1 (continued)

**SUMMER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2031 - 2035**

	2031	2032	2033	2034	2035	Annual Growth Rate (15 yr)
AEP	24,238	24,355	24,450	24,573	24,707	0.8%
	0.5%	0.5%	0.4%	0.5%	0.5%	
APS	9,400	9,420	9,438	9,463	9,496	0.6%
	0.3%	0.2%	0.2%	0.3%	0.3%	
ATSI	12,410	12,382	12,352	12,330	12,319	(0.0%)
	-0.1%	-0.2%	-0.2%	-0.2%	-0.1%	
COMED	20,886	20,936	20,916	20,917	20,881	0.1%
	0.0%	0.2%	-0.1%	0.0%	-0.2%	
DAYTON	3,223	3,217	3,213	3,214	3,215	(0.0%)
	-0.2%	-0.2%	-0.1%	0.0%	0.0%	
DEOK	5,661	5,681	5,695	5,706	5,725	0.5%
	0.2%	0.4%	0.2%	0.2%	0.3%	
DLCO	2,852	2,849	2,848	2,845	2,843	0.2%
	-0.1%	-0.1%	-0.0%	-0.1%	-0.1%	
EKPC	2,365	2,393	2,422	2,450	2,484	1.4%
	1.3%	1.2%	1.2%	1.2%	1.4%	
OVEC	95	95	95	95	95	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	
DIVERSITY - WESTERN(-) PJM WESTERN	1,328 79,802	1,240 80,088	1,362 80,067	1,362 80,231	1,364 80,401	0.4%
	0.2%	0.4%	-0.0%	0.2%	0.2%	
DOM	22,516	22,657	22,834	22,992	23,132	1.0%
	0.8%	0.6%	0.8%	0.7%	0.6%	
DIVERSITY - TOTAL(-) PJM RTO	5,675 157,637	4,857 158,929	4,856 159,344	4,896 159,718	5,201 159,868	0.5%
	0.3%	0.8%	0.3%	0.2%	0.1%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2020).

Summer season indicates peak from June, July, August.

Table B-2

**WINTER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2019/20 - 2029/30**

	METERED 18/19	UNRESTRICTED 18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	Annual Growth Rate (10 yr)
AE	1,635	1,635	1,543	1,563	1,588	1,611	1,631	1,650	1,665	1,680	1,693	1,702	1,715	1.1%
				1.3%	1.6%	1.4%	1.2%	1.2%	0.9%	0.9%	0.8%	0.5%	0.8%	
BGE	6,409	6,409	5,859	5,907	5,975	6,042	6,095	6,140	6,178	6,211	6,242	6,267	6,290	0.7%
				0.8%	1.2%	1.1%	0.9%	0.7%	0.6%	0.5%	0.5%	0.4%	0.4%	
DPL	3,839	3,839	3,729	3,755	3,810	3,852	3,893	3,948	3,986	4,007	4,060	4,085	4,124	1.0%
				0.7%	1.5%	1.1%	1.1%	1.4%	1.0%	0.5%	1.3%	0.6%	1.0%	
JCPL	3,819	3,819	3,669	3,720	3,764	3,798	3,834	3,868	3,902	3,934	3,964	3,984	4,013	0.9%
				1.4%	1.2%	0.9%	0.9%	0.9%	0.8%	0.8%	0.5%	0.5%	0.7%	
METED	2,854	2,854	2,686	2,674	2,697	2,727	2,749	2,784	2,800	2,819	2,843	2,868	2,893	0.7%
				-0.4%	0.9%	1.1%	0.8%	1.3%	0.6%	0.7%	0.9%	0.9%	0.9%	
PECO	6,860	6,869	6,792	6,778	6,791	6,797	6,784	6,770	6,768	6,757	6,749	6,739	6,727	(0.1%)
				-0.2%	0.2%	0.1%	-0.2%	-0.2%	-0.0%	-0.2%	-0.1%	-0.1%	-0.2%	
PENLC	3,015	3,015	2,824	2,801	2,803	2,809	2,806	2,804	2,803	2,803	2,808	2,808	2,816	(0.0%)
				-0.8%	0.1%	0.2%	-0.1%	-0.1%	-0.0%	0.0%	0.2%	0.0%	0.3%	
PEPCO	5,790	5,790	5,699	5,748	5,788	5,805	5,818	5,829	5,839	5,842	5,846	5,841	5,845	0.3%
				0.9%	0.7%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	-0.1%	0.1%	
PL	7,729	7,729	7,336	7,383	7,449	7,497	7,541	7,587	7,624	7,659	7,705	7,739	7,772	0.6%
				0.6%	0.9%	0.6%	0.6%	0.6%	0.5%	0.5%	0.6%	0.4%	0.4%	
PS	6,890	6,890	6,686	6,796	6,896	6,981	7,053	7,124	7,179	7,230	7,285	7,300	7,341	0.9%
				1.6%	1.5%	1.2%	1.0%	1.0%	0.8%	0.7%	0.8%	0.2%	0.6%	
RECO	220	220	216	220	223	227	229	230	233	235	238	239	241	1.1%
				1.9%	1.4%	1.8%	0.9%	0.4%	1.3%	0.9%	1.3%	0.4%	0.8%	
UGI	215	215	200	198	196	194	192	192	191	190	189	187	187	(0.7%)
				-1.0%	-1.0%	-1.0%	-1.0%	0.0%	-0.5%	-0.5%	-0.5%	-1.1%	0.0%	
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	48,164	48,173	46,682	46,970	47,382	47,761	48,002	48,351	48,573	48,777	48,988	49,140	49,320	0.6%
			557	573	598	579	623	575	595	590	634	619	644	
			0.6%	0.9%	0.8%	0.5%	0.7%	0.5%	0.4%	0.4%	0.4%	0.3%	0.4%	
FE-EAST	9,429	9,429	9,112	9,116	9,184	9,252	9,312	9,385	9,431	9,476	9,529	9,588	9,652	0.6%
				0.0%	0.7%	0.7%	0.6%	0.8%	0.5%	0.5%	0.6%	0.6%	0.7%	
PLGRP	7,939	7,939	7,531	7,577	7,644	7,687	7,729	7,779	7,810	7,848	7,893	7,918	7,948	0.5%
				0.6%	0.9%	0.6%	0.5%	0.6%	0.4%	0.5%	0.6%	0.3%	0.4%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2019/20).

Winter season indicates peak from December, January, February.

Table B-2 (Continued)

**WINTER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2030/31 - 2034/35**

	30/31	31/32	32/33	33/34	34/35	Annual Growth Rate (15 yr)
AE	1,721	1,727	1,735	1,741	1,741	0.8%
	0.3%	0.3%	0.5%	0.3%	0.0%	
BGE	6,306	6,318	6,331	6,331	6,337	0.5%
	0.3%	0.2%	0.2%	0.0%	0.1%	
DPL	4,174	4,208	4,239	4,253	4,285	0.9%
	1.2%	0.8%	0.7%	0.3%	0.8%	
JCPL	4,031	4,049	4,070	4,080	4,095	0.7%
	0.4%	0.4%	0.5%	0.2%	0.4%	
METED	2,920	2,931	2,948	2,964	2,985	0.7%
	0.9%	0.4%	0.6%	0.5%	0.7%	
PECO	6,714	6,713	6,708	6,676	6,661	(0.1%)
	-0.2%	-0.0%	-0.1%	-0.5%	-0.2%	
PENLC	2,816	2,818	2,822	2,824	2,827	0.0%
	0.0%	0.1%	0.1%	0.1%	0.1%	
PEPCO	5,839	5,829	5,814	5,798	5,777	0.1%
	-0.1%	-0.2%	-0.3%	-0.3%	-0.4%	
PL	7,815	7,836	7,867	7,877	7,899	0.5%
	0.6%	0.3%	0.4%	0.1%	0.3%	
PS	7,378	7,404	7,436	7,440	7,453	0.7%
	0.5%	0.4%	0.4%	0.1%	0.2%	
RECO	241	242	244	245	245	0.8%
	0.0%	0.4%	0.8%	0.4%	0.0%	
UGI	186	185	184	183	181	(0.7%)
	-0.5%	-0.5%	-0.5%	-0.5%	-1.1%	
DIVERSITY - MID-ATLANTIC(-)	612	627	642	634	653	
PJM MID-ATLANTIC	49,529	49,633	49,756	49,778	49,833	0.4%
	0.4%	0.2%	0.2%	0.0%	0.1%	
FE-EAST	9,690	9,720	9,757	9,782	9,816	0.5%
	0.4%	0.3%	0.4%	0.3%	0.3%	
PLGRP	8,000	8,015	8,049	8,055	8,075	0.5%
	0.7%	0.2%	0.4%	0.1%	0.2%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2019/20).

Winter season indicates peak from December, January, February.

Table B-2

**WINTER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2019/20 - 2029/30**

	METERED 18/19	UNRESTRICTED 18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	Annual Growth Rate (10 yr)
AEP	22,506	22,506	22,000	22,127	22,415	22,629	22,765	22,905	23,042	23,159	23,311	23,435	23,544	0.7%
				0.6%	1.3%	1.0%	0.6%	0.6%	0.6%	0.5%	0.7%	0.5%	0.5%	
APS	9,597	9,597	8,851	8,910	9,065	9,199	9,288	9,343	9,372	9,391	9,421	9,460	9,498	0.7%
				0.7%	1.7%	1.5%	1.0%	0.6%	0.3%	0.2%	0.3%	0.4%	0.4%	
ATSI	11,092	11,092	10,349	10,294	10,311	10,336	10,303	10,301	10,289	10,259	10,247	10,238	10,240	(0.1%)
				-0.5%	0.2%	0.2%	-0.3%	-0.0%	-0.1%	-0.3%	-0.1%	-0.1%	0.0%	
COMED	15,584	15,584	14,400	14,381	14,424	14,486	14,509	14,490	14,530	14,568	14,607	14,602	14,621	0.2%
				-0.1%	0.3%	0.4%	0.2%	-0.1%	0.3%	0.3%	0.3%	-0.0%	0.1%	
DAYTON	3,168	3,168	2,909	2,873	2,860	2,856	2,843	2,827	2,824	2,817	2,818	2,816	2,813	(0.3%)
				-1.2%	-0.5%	-0.1%	-0.5%	-0.6%	-0.1%	-0.2%	0.0%	-0.1%	-0.1%	
DEOK	4,866	4,866	4,550	4,573	4,644	4,693	4,725	4,758	4,772	4,800	4,844	4,861	4,894	0.7%
				0.5%	1.6%	1.1%	0.7%	0.7%	0.3%	0.6%	0.9%	0.4%	0.7%	
DLCO	2,155	2,155	2,070	2,086	2,103	2,114	2,118	2,118	2,119	2,120	2,117	2,110	2,113	0.2%
				0.8%	0.8%	0.5%	0.2%	0.0%	0.0%	0.0%	-0.1%	-0.3%	0.1%	
EKPC	2,622	2,622	2,701	2,749	2,816	2,867	2,899	2,927	2,961	2,999	3,039	3,062	3,094	1.4%
				1.8%	2.4%	1.8%	1.1%	1.0%	1.2%	1.3%	1.3%	0.8%	1.0%	
OVEC	124	124	125	125	125	125	125	125	125	125	125	125	125	0.0%
				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
DIVERSITY - WESTERN(-) PJM WESTERN	70,896	70,896	1,403 66,552	1,389 66,729	1,445 67,318	1,429 67,876	1,418 68,157	1,417 68,377	1,424 68,610	1,403 68,835	1,466 69,063	1,465 69,244	1,381 69,561	0.4%
				0.3%	0.9%	0.8%	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%	0.5%	
DOM	19,931	19,931	20,382	20,758	21,170	21,589	22,012	22,422	22,682	22,901	23,125	23,328	23,531	1.4%
				1.8%	2.0%	2.0%	2.0%	1.9%	1.2%	1.0%	1.0%	0.9%	0.9%	
DIVERSITY - TOTAL(-) PJM RTO	137,609	137,618	4,289 131,287	4,244 132,175	4,351 133,562	4,494 134,740	4,421 135,791	4,422 136,720	4,503 137,381	4,455 138,051	4,409 138,867	4,585 139,211	4,467 139,970	0.6%
				0.7%	1.0%	0.9%	0.8%	0.7%	0.5%	0.5%	0.6%	0.2%	0.5%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2019/20).

Winter season indicates peak from December, January, February.

Table B-2 (Continued)

**WINTER PEAK LOAD (MW) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2030/31 - 2034/35**

	30/31	31/32	32/33	33/34	34/35	Annual Growth Rate (15 yr)
AEP	23,617	23,690	23,776	23,830	23,890	0.6%
	0.3%	0.3%	0.4%	0.2%	0.3%	
APS	9,504	9,515	9,524	9,531	9,553	0.5%
	0.1%	0.1%	0.1%	0.1%	0.2%	
ATSI	10,210	10,184	10,151	10,116	10,069	(0.2%)
	-0.3%	-0.3%	-0.3%	-0.3%	-0.5%	
COMED	14,577	14,594	14,607	14,570	14,535	0.1%
	-0.3%	0.1%	0.1%	-0.3%	-0.2%	
DAYTON	2,804	2,802	2,802	2,797	2,792	(0.3%)
	-0.3%	-0.1%	0.0%	-0.2%	-0.2%	
DEOK	4,904	4,906	4,935	4,944	4,954	0.6%
	0.2%	0.0%	0.6%	0.2%	0.2%	
DLCO	2,104	2,099	2,091	2,082	2,070	0.0%
	-0.4%	-0.2%	-0.4%	-0.4%	-0.6%	
EKPC	3,123	3,153	3,193	3,221	3,248	1.2%
	0.9%	1.0%	1.3%	0.9%	0.8%	
OVEC	125	125	125	125	125	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	
DIVERSITY - WESTERN(-) PJM WESTERN	1,409 69,559	1,419 69,649	1,464 69,740	1,459 69,757	1,444 69,792	0.3%
	-0.0%	0.1%	0.1%	0.0%	0.1%	
DOM	23,719	23,945	24,126	24,278	24,465	1.2%
	0.8%	1.0%	0.8%	0.6%	0.8%	
DIVERSITY - TOTAL(-) PJM RTO	4,460 140,368	4,542 140,731	4,512 141,216	4,616 141,290	4,674 141,513	0.5%
	0.3%	0.3%	0.3%	0.1%	0.2%	

Notes:

All forecast values are non-coincident as estimated by PJM staff.

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

All average growth rates are calculated from the first year of the forecast (2019/20).

Winter season indicates peak from December, January, February.

Table B-3

**SPRING PEAK LOAD (MW) FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	1,646	1,671	1,696	1,718	1,743	1,759	1,774	1,794	1,812	1,827	1,840	1,847	1,856	1,864	1,875	1,881
BGE	5,178	5,259	5,296	5,326	5,315	5,334	5,356	5,380	5,394	5,413	5,424	5,425	5,432	5,436	5,438	5,444
DPL	3,192	3,238	3,269	3,297	3,313	3,371	3,406	3,448	3,474	3,518	3,543	3,585	3,612	3,648	3,677	3,710
JCPL	4,008	4,031	4,062	4,098	4,138	4,168	4,199	4,234	4,283	4,319	4,351	4,360	4,378	4,407	4,436	4,458
METED	2,445	2,471	2,518	2,555	2,580	2,602	2,630	2,658	2,696	2,732	2,754	2,756	2,784	2,816	2,841	2,863
PECO	6,405	6,444	6,540	6,589	6,621	6,622	6,623	6,624	6,737	6,797	6,829	6,855	6,785	6,903	6,954	7,000
PENLC	2,574	2,579	2,574	2,570	2,571	2,561	2,564	2,582	2,583	2,593	2,593	2,586	2,601	2,612	2,615	2,616
PEPCO	5,021	5,036	5,037	5,026	5,010	4,993	4,966	4,958	4,944	4,933	4,929	4,903	4,888	4,874	4,847	4,827
PL	6,404	6,579	6,635	6,665	6,687	6,725	6,791	6,866	6,922	6,950	6,971	6,985	7,050	7,078	7,099	7,130
PS	7,209	7,329	7,536	7,674	7,781	7,789	7,817	7,893	8,068	8,156	8,207	8,159	8,190	8,244	8,298	8,347
RECO	284	291	299	303	307	310	312	315	320	323	325	325	325	329	331	332
UGI	174	173	170	169	167	166	166	165	164	163	162	161	161	160	159	157
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	1,664 42,876	1,794 43,307	1,828 43,804	1,792 44,198	1,906 44,327	1,991 44,409	1,876 44,728	2,152 44,765	2,215 45,182	2,243 45,481	2,332 45,596	2,343 45,604	2,379 45,683	2,302 46,069	2,371 46,199	2,401 46,364
FE-EAST PLGRP	8,622 6,571	8,661 6,711	8,761 6,764	8,792 6,787	8,843 6,843	8,923 6,868	8,976 6,919	9,041 7,012	9,113 7,046	9,204 7,086	9,260 7,120	9,295 7,133	9,323 7,206	9,418 7,235	9,492 7,250	9,556 7,275

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Table B-3

**SPRING PEAK LOAD (MW) FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AEP	19,562	19,827	20,134	20,249	20,414	20,517	20,628	20,790	20,948	21,111	21,141	21,188	21,265	21,400	21,459	21,572
APS	7,857	8,031	8,175	8,258	8,294	8,318	8,352	8,402	8,440	8,475	8,489	8,471	8,510	8,536	8,545	8,568
ATSI	9,749	9,800	9,902	9,866	9,841	9,756	9,735	9,760	9,796	9,789	9,756	9,666	9,636	9,692	9,654	9,620
COMED	14,864	14,831	14,938	14,961	15,005	14,875	14,873	14,959	15,109	15,201	15,220	15,128	15,102	15,153	15,151	15,223
DAYTON	2,626	2,615	2,623	2,609	2,597	2,582	2,576	2,577	2,584	2,591	2,585	2,560	2,565	2,578	2,578	2,580
DEOK	4,262	4,319	4,414	4,449	4,482	4,488	4,487	4,518	4,600	4,623	4,633	4,618	4,615	4,673	4,697	4,726
DLCO	2,146	2,177	2,206	2,217	2,228	2,225	2,225	2,230	2,244	2,254	2,255	2,244	2,234	2,240	2,241	2,242
EKPC	2,057	2,109	2,147	2,174	2,197	2,231	2,260	2,295	2,321	2,354	2,377	2,407	2,439	2,465	2,490	2,511
OVEC	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
DIVERSITY - WESTERN(-)	3,179	3,204	3,524	3,612	3,747	3,491	3,398	3,390	4,064	4,236	4,357	4,105	3,734	4,226	4,574	5,056
PJM WESTERN	60,069	60,630	61,140	61,296	61,436	61,626	61,863	62,266	62,103	62,287	62,224	62,302	62,757	62,636	62,366	62,111
DOM	17,037	17,369	17,761	18,108	18,453	18,702	18,885	19,090	19,239	19,437	19,599	19,758	19,912	20,096	20,234	20,410
DIVERSITY - TOTAL(-)	6,922	6,863	6,662	6,842	6,682	6,770	7,284	7,430	6,789	6,729	6,934	7,458	7,585	7,290	6,942	7,047
PJM RTO	117,903	119,441	121,395	122,164	123,187	123,449	123,466	124,233	126,014	126,955	127,174	126,654	126,880	128,039	128,802	129,295

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Table B-4
FALL PEAK LOAD (MW) FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2020 - 2035

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	1,982	2,018	2,056	2,088	2,121	2,157	2,186	2,214	2,237	2,263	2,287	2,313	2,333	2,350	2,371	2,387
BGE	5,549	5,558	5,570	5,579	5,628	5,650	5,667	5,678	5,707	5,715	5,747	5,806	5,771	5,795	5,810	5,818
DPL	3,271	3,321	3,374	3,415	3,430	3,475	3,517	3,563	3,607	3,640	3,669	3,726	3,764	3,806	3,844	3,874
JCPL	4,424	4,453	4,485	4,498	4,559	4,621	4,671	4,707	4,720	4,764	4,813	4,870	4,900	4,916	4,941	4,976
METED	2,556	2,593	2,628	2,642	2,702	2,746	2,783	2,816	2,826	2,869	2,924	2,963	2,993	3,020	3,026	3,060
PECO	7,032	7,104	7,155	7,185	7,230	7,283	7,316	7,354	7,380	7,428	7,471	7,518	7,548	7,573	7,606	7,645
PENLC	2,563	2,572	2,585	2,590	2,596	2,610	2,609	2,623	2,639	2,648	2,661	2,678	2,691	2,704	2,714	2,711
PEPCO	5,186	5,171	5,148	5,104	5,084	5,082	5,065	5,039	4,997	4,988	4,970	4,969	4,957	4,938	4,919	4,879
PL	6,272	6,372	6,464	6,504	6,536	6,644	6,711	6,782	6,860	6,903	6,900	6,981	7,049	7,105	7,133	7,133
PS	8,209	8,316	8,360	8,458	8,580	8,724	8,838	8,924	8,959	9,025	9,122	9,201	9,266	9,314	9,367	9,411
RECO	311	314	315	317	321	327	330	333	333	335	339	343	346	347	347	348
UGI	165	164	163	162	160	159	159	159	159	158	157	157	157	156	156	155
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	982 46,538	1,208 46,748	1,232 47,071	1,168 47,374	1,197 47,750	1,234 48,244	1,113 48,739	1,175 49,017	1,324 49,100	1,507 49,229	1,243 49,817	1,331 50,194	1,303 50,472	1,409 50,615	1,420 50,814	1,451 50,946
FE-EAST	9,316	9,377	9,438	9,426	9,534	9,708	9,817	9,894	9,868	9,925	10,075	10,226	10,326	10,362	10,342	10,393
PLGRP	6,427	6,496	6,580	6,649	6,691	6,782	6,864	6,930	7,002	7,035	7,047	7,135	7,201	7,256	7,286	7,280

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.
 Fall season indicates peak from September, October, November.

Table B-4
FALL PEAK LOAD (MW) FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2035

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AEP	19,932	20,206	20,507	20,665	20,851	21,150	21,306	21,422	21,578	21,669	21,845	22,021	22,133	22,216	22,335	22,351
APS	7,794	7,962	8,097	8,176	8,248	8,307	8,337	8,374	8,393	8,454	8,475	8,521	8,546	8,551	8,579	8,595
ATSI	10,918	10,944	10,980	10,922	10,995	11,024	11,011	10,983	10,926	10,919	10,990	11,076	10,968	10,933	10,902	10,817
COMED	17,533	17,492	17,393	17,374	17,271	17,719	17,795	17,762	17,659	17,567	17,629	18,009	17,990	17,906	17,865	17,759
DAYTON	2,963	2,945	2,925	2,902	2,892	2,933	2,934	2,929	2,913	2,887	2,916	2,944	2,944	2,936	2,922	2,906
DEOK	4,873	4,945	4,993	4,992	5,028	5,113	5,151	5,182	5,162	5,163	5,230	5,282	5,306	5,320	5,330	5,325
DLCO	2,426	2,450	2,455	2,459	2,460	2,477	2,491	2,496	2,492	2,483	2,486	2,500	2,503	2,498	2,486	2,467
EKPC	1,925	1,970	2,012	2,042	2,066	2,099	2,133	2,168	2,197	2,226	2,248	2,283	2,318	2,351	2,386	2,419
OVEC	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
DIVERSITY - WESTERN(-)	1,804	1,708	1,501	2,012	1,918	1,841	1,838	1,702	1,941	2,104	1,923	2,071	1,773	1,865	1,868	2,169
PJM WESTERN	66,650	67,296	67,951	67,610	67,983	69,071	69,410	69,704	69,469	69,354	69,986	70,655	71,025	70,936	71,027	70,560
DOM	17,193	17,510	17,941	18,353	18,703	18,932	19,136	19,344	19,590	19,727	19,902	20,079	20,319	20,514	20,696	20,788
DIVERSITY - TOTAL(-)	5,886	5,763	5,784	7,030	6,758	5,970	6,042	5,889	7,315	8,467	7,365	6,212	6,252	6,314	7,745	8,542
PJM RTO	127,281	128,707	129,912	129,487	130,793	133,352	134,194	135,053	134,109	133,454	135,506	138,118	138,640	139,025	138,080	137,372

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Fall season indicates peak from September, October, November.

Table B-5

**MONTHLY PEAK FORECAST (MW) FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION**

	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	MID-ATLANTIC DIVERSITY	PJM MID- ATLANTIC
Jan 2020	1,543	5,859	3,729	3,669	2,686	6,792	2,824	5,699	7,336	6,686	216	200	557	46,682
Feb 2020	1,443	5,357	3,411	3,396	2,556	6,280	2,692	5,249	6,926	6,272	202	187	848	43,123
Mar 2020	1,355	5,106	3,192	3,121	2,445	5,741	2,574	5,001	6,404	5,900	188	174	505	40,696
Apr 2020	1,240	4,434	2,577	2,818	2,145	5,225	2,283	4,144	5,443	5,419	195	146	456	35,613
May 2020	1,646	5,178	2,995	4,008	2,389	6,405	2,271	5,021	5,641	7,209	284	146	317	42,876
Jun 2020	2,256	6,012	3,655	5,410	2,854	8,103	2,751	5,778	6,671	9,287	375	177	1,134	52,195
Jul 2020	2,542	6,447	3,979	5,842	3,003	8,415	2,849	6,109	7,069	9,792	395	191	781	55,852
Aug 2020	2,435	6,169	3,822	5,508	2,900	7,978	2,732	5,934	6,756	9,283	367	176	1,210	52,850
Sep 2020	1,982	5,549	3,271	4,424	2,556	7,032	2,563	5,186	6,272	8,209	311	165	982	46,538
Oct 2020	1,393	4,183	2,480	3,107	2,020	5,237	2,243	4,060	5,298	6,129	214	142	1,387	35,119
Nov 2020	1,313	4,432	2,727	3,104	2,173	5,434	2,441	4,230	6,021	5,950	202	162	898	37,291
Dec 2020	1,513	5,296	3,320	3,619	2,525	6,339	2,665	5,129	6,876	6,569	220	190	615	43,646
	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	DIVERSITY	MID-ATLANTIC
Jan 2021	1,563	5,907	3,755	3,720	2,674	6,778	2,801	5,748	7,383	6,796	220	198	573	46,970
Feb 2021	1,469	5,460	3,437	3,465	2,553	6,284	2,684	5,337	7,037	6,407	206	187	863	43,663
Mar 2021	1,390	5,259	3,238	3,174	2,471	5,785	2,579	5,036	6,579	6,050	195	173	300	41,629
Apr 2021	1,264	4,409	2,570	2,840	2,157	5,235	2,277	4,112	5,484	5,507	199	144	97	36,101
May 2021	1,671	5,211	2,976	4,031	2,405	6,444	2,257	4,946	5,648	7,329	291	144	46	43,307
Jun 2021	2,288	6,055	3,703	5,428	2,893	8,174	2,749	5,796	6,780	9,441	379	175	1,257	52,604
Jul 2021	2,577	6,467	4,019	5,860	3,035	8,473	2,845	6,091	7,173	9,911	397	189	822	56,215
Aug 2021	2,476	6,269	3,885	5,542	2,939	8,128	2,741	5,968	6,875	9,477	372	174	1,513	53,333
Sep 2021	2,018	5,558	3,321	4,453	2,593	7,104	2,572	5,171	6,372	8,316	314	164	1,208	46,748
Oct 2021	1,416	4,215	2,506	3,136	2,043	5,254	2,238	4,035	5,371	6,185	215	141	1,331	35,424
Nov 2021	1,339	4,502	2,783	3,152	2,204	5,476	2,444	4,277	6,126	6,056	206	161	955	37,771
Dec 2021	1,538	5,343	3,374	3,657	2,546	6,357	2,665	5,120	6,898	6,656	223	187	547	44,017
	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	DIVERSITY	MID-ATLANTIC
Jan 2022	1,588	5,975	3,810	3,764	2,697	6,791	2,803	5,788	7,449	6,896	223	196	598	47,382
Feb 2022	1,489	5,500	3,486	3,499	2,566	6,315	2,683	5,341	7,037	6,493	209	184	755	44,047
Mar 2022	1,411	5,296	3,269	3,188	2,518	5,777	2,574	5,037	6,635	6,150	197	170	636	41,586
Apr 2022	1,284	4,426	2,587	2,844	2,203	5,217	2,276	4,093	5,552	5,567	198	142	388	36,001
May 2022	1,696	5,233	3,007	4,062	2,512	6,540	2,295	4,945	5,899	7,536	299	145	365	43,804
Jun 2022	2,305	6,064	3,750	5,451	2,935	8,232	2,774	5,766	6,872	9,553	384	173	1,234	53,025
Jul 2022	2,597	6,481	4,058	5,881	3,072	8,522	2,865	6,059	7,265	10,029	401	187	884	56,533
Aug 2022	2,500	6,346	3,943	5,568	2,982	8,194	2,767	5,972	6,973	9,632	377	173	1,483	53,944
Sep 2022	2,056	5,570	3,374	4,485	2,628	7,155	2,585	5,148	6,464	8,360	315	163	1,232	47,071
Oct 2022	1,441	4,263	2,566	3,160	2,078	5,301	2,253	4,037	5,471	6,276	219	140	1,340	35,865
Nov 2022	1,366	4,574	2,848	3,198	2,243	5,505	2,455	4,329	6,244	6,167	208	160	1,047	38,250
Dec 2022	1,558	5,405	3,419	3,688	2,585	6,354	2,677	5,141	6,934	6,742	227	185	563	44,352

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Table B-5

**MONTHLY PEAK FORECAST (MW) FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO**

	AEP	APS	ATSI	COMED	DAYTON	DEOK	DLCO	EKPC	OVEC	WESTERN DIVERSITY	PJM WESTERN	DOM	TOTAL DIVERSITY	PJM RTO
Jan 2020	22,000	8,851	10,349	14,400	2,909	4,550	2,070	2,701	125	1,403	66,552	20,382	4,289	131,287
Feb 2020	20,851	8,290	9,934	13,631	2,755	4,250	1,970	2,403	125	1,571	62,638	18,491	4,290	122,381
Mar 2020	19,562	7,857	9,457	12,762	2,615	3,921	1,853	2,057	125	140	60,069	17,037	544	117,903
Apr 2020	16,992	6,797	8,537	11,892	2,295	3,577	1,779	1,578	100	14,411	39,136	14,551	748	103,419
May 2020	18,260	7,086	9,749	14,864	2,626	4,262	2,146	1,579	95	14,806	45,861	16,827	2,890	117,797
Jun 2020	21,201	8,317	11,966	19,871	3,078	5,098	2,670	1,913	95	1,776	72,433	18,981	6,756	139,763
Jul 2020	21,945	8,685	12,378	20,635	3,236	5,280	2,759	2,004	95	1,377	75,640	19,813	5,371	148,092
Aug 2020	21,719	8,552	11,907	20,181	3,173	5,211	2,704	1,972	95	1,988	73,526	19,475	7,140	141,909
Sep 2020	19,932	7,794	10,918	17,533	2,963	4,873	2,426	1,816	90	1,695	66,650	17,193	5,777	127,281
Oct 2020	16,250	6,472	8,248	12,477	2,293	3,627	1,775	1,565	90	2,340	50,457	13,958	5,629	97,632
Nov 2020	18,011	7,196	8,899	12,416	2,405	3,631	1,797	1,925	90	1,288	55,082	15,118	3,845	105,832
Dec 2020	20,610	8,116	9,879	14,123	2,690	4,223	2,005	2,398	110	1,559	62,595	18,015	3,529	122,901
Jan 2021	22,127	8,910	10,294	14,381	2,873	4,573	2,086	2,749	125	1,389	66,729	20,758	4,244	132,175
Feb 2021	21,138	8,375	9,916	13,707	2,726	4,272	1,991	2,439	125	1,655	63,034	18,858	4,533	123,540
Mar 2021	19,827	8,031	9,498	12,692	2,609	3,986	1,890	2,109	125	137	60,630	17,369	624	119,441
Apr 2021	17,148	6,915	8,559	11,807	2,276	3,626	1,809	1,607	100	14,506	39,341	14,634	630	104,049
May 2021	18,466	7,221	9,800	14,831	2,615	4,319	2,177	1,612	95	14,995	46,141	16,865	2,973	118,381
Jun 2021	21,573	8,497	12,080	19,894	3,087	5,201	2,708	1,953	95	1,672	73,416	19,312	6,769	141,492
Jul 2021	22,284	8,845	12,469	20,605	3,240	5,374	2,781	2,037	95	1,329	76,401	20,126	5,277	149,616
Aug 2021	22,107	8,750	12,143	20,223	3,190	5,326	2,739	2,011	95	1,757	74,827	19,885	7,334	143,981
Sep 2021	20,206	7,962	10,944	17,492	2,945	4,945	2,450	1,852	90	1,590	67,296	17,510	5,645	128,707
Oct 2021	16,425	6,634	8,257	12,477	2,247	3,634	1,793	1,591	90	2,313	50,835	14,168	5,586	98,485
Nov 2021	18,340	7,418	8,929	12,458	2,400	3,697	1,820	1,970	90	1,342	55,780	15,584	3,916	107,516
Dec 2021	20,742	8,259	9,884	14,104	2,679	4,285	2,019	2,458	110	1,572	62,968	18,327	3,983	123,448
Jan 2022	22,415	9,065	10,311	14,424	2,860	4,644	2,103	2,816	125	1,445	67,318	21,170	4,351	133,562
Feb 2022	21,275	8,521	9,914	13,714	2,710	4,337	2,005	2,501	125	1,809	63,293	19,209	4,619	124,494
Mar 2022	20,134	8,175	9,489	12,768	2,581	4,038	1,899	2,147	125	216	61,140	17,761	955	120,384
Apr 2022	17,401	7,052	8,566	11,828	2,254	3,666	1,815	1,634	100	15,039	39,277	14,867	1,049	104,523
May 2022	19,000	7,464	9,902	14,938	2,623	4,414	2,206	1,649	95	15,214	47,077	17,300	2,365	121,395
Jun 2022	21,937	8,666	12,126	20,025	3,100	5,277	2,729	1,998	95	1,726	74,227	19,687	6,801	143,098
Jul 2022	22,605	8,998	12,512	20,644	3,244	5,440	2,797	2,072	95	1,281	77,126	20,500	5,273	151,051
Aug 2022	22,479	8,946	12,222	20,423	3,233	5,407	2,765	2,058	95	1,022	76,606	20,307	6,788	146,574
Sep 2022	20,507	8,097	10,980	17,393	2,925	4,993	2,455	1,881	90	1,370	67,951	17,941	5,653	129,912
Oct 2022	16,782	6,847	8,297	12,407	2,243	3,677	1,802	1,632	90	2,333	51,444	14,621	5,721	99,882
Nov 2022	18,682	7,608	8,965	12,519	2,405	3,765	1,836	2,012	90	1,392	56,490	16,185	4,190	109,174
Dec 2022	20,932	8,396	9,926	14,181	2,679	4,335	2,031	2,504	110	1,541	63,553	18,780	4,183	124,606

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Table B-6

**MONTHLY PEAK FORECAST (MW) FOR
FE-EAST AND PLGRP**

	FE_EAST	PLGRP
Jan 2020	9,112	7,531
Feb 2020	8,595	7,107
Mar 2020	8,107	6,571
Apr 2020	7,210	5,586
May 2020	8,622	5,782
Jun 2020	10,783	6,840
Jul 2020	11,555	7,256
Aug 2020	10,879	6,905
Sep 2020	9,316	6,427
Oct 2020	7,101	5,428
Nov 2020	7,620	6,172
Dec 2020	8,768	7,065

	FE_EAST	PLGRP
Jan 2021	9,116	7,577
Feb 2021	8,631	7,223
Mar 2021	8,180	6,711
Apr 2021	7,224	5,626
May 2021	8,661	5,789
Jun 2021	10,848	6,948
Jul 2021	11,585	7,361
Aug 2021	10,935	7,034
Sep 2021	9,377	6,496
Oct 2021	7,155	5,476
Nov 2021	7,702	6,245
Dec 2021	8,816	7,076

	FE_EAST	PLGRP
Jan 2022	9,184	7,644
Feb 2022	8,677	7,220
Mar 2022	8,121	6,764
Apr 2022	7,170	5,691
May 2022	8,761	6,041
Jun 2022	10,963	7,044
Jul 2022	11,662	7,447
Aug 2022	11,059	7,141
Sep 2022	9,438	6,580
Oct 2022	7,242	5,568
Nov 2022	7,794	6,357
Dec 2022	8,905	7,118

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

FE_EAST contains JCPL, METED and PENLC zones. PLGRP contains PL and UGI zones.

Table B-7

**PJM MID-ATLANTIC REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE																
CAPACITY PERFORMANCE	70	71	72	72	73	74	74	75	76	76	77	77	77	78	78	78
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	70	71	72	72	73	74	74	75	76	76	77	77	77	78	78	78
BGE																
CAPACITY PERFORMANCE	162	162	163	162	163	163	163	163	164	164	165	165	165	165	165	165
SUMMER PERIOD	68	69	69	69	69	69	69	69	69	69	70	70	70	70	70	70
PRD	330	240	272	271	272	273	273	273	273	274	275	275	275	275	275	275
TOTAL LOAD MANAGEMENT	560	471	504	502	504	505	505	505	506	507	510	510	510	510	510	510
DPL																
CAPACITY PERFORMANCE	171	172	174	175	176	178	179	181	183	184	186	187	188	190	191	192
SUMMER PERIOD	51	51	52	52	53	53	53	54	54	55	55	56	56	57	57	57
PRD	58	75	69	69	69	70	71	71	72	73	73	74	74	75	75	75
TOTAL LOAD MANAGEMENT	280	298	295	296	298	301	303	306	309	312	314	317	318	322	323	324
JCPL																
CAPACITY PERFORMANCE	140	141	141	141	142	143	144	145	146	146	147	147	148	149	149	149
SUMMER PERIOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	142	143	143	143	144	145	146	147	148	148	149	149	150	151	151	151
METED																
CAPACITY PERFORMANCE	278	281	285	287	290	293	295	298	300	303	305	307	309	310	312	314
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	278	281	285	287	290	293	295	298	300	303	305	307	309	310	312	314

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-7 (Continued)

**PJM MID-ATLANTIC REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
PECO																
CAPACITY PERFORMANCE	361	363	366	366	367	368	369	370	370	372	372	373	372	372	372	372
SUMMER PERIOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	363	365	368	368	369	370	371	372	372	374	374	375	374	374	374	374
PENLC																
CAPACITY PERFORMANCE	303	303	305	305	306	307	309	310	312	314	315	316	318	319	320	321
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	303	303	305	305	306	307	309	310	312	314	315	316	318	319	320	321
PEPCO																
CAPACITY PERFORMANCE	166	165	164	163	162	161	160	159	158	158	157	156	155	154	153	152
SUMMER PERIOD	77	77	76	76	75	75	74	74	74	73	73	73	72	72	71	70
PRD	170	195	171	170	169	168	167	166	165	165	164	163	162	161	160	159
TOTAL LOAD MANAGEMENT	413	437	411	409	406	404	401	399	397	396	394	392	389	387	384	381
PL																
CAPACITY PERFORMANCE	577	585	592	597	603	609	614	620	624	630	634	638	642	646	648	650
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	577	585	592	597	603	609	614	620	624	630	634	638	642	646	648	650
PS																
CAPACITY PERFORMANCE	334	338	342	344	347	351	354	357	359	360	361	362	363	364	365	366
SUMMER PERIOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	336	340	344	346	349	353	356	359	361	362	363	364	365	366	367	368

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-7 (Continued)

**PJM MID-ATLANTIC REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
RECO																
CAPACITY PERFORMANCE	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
UGI																
CAPACITY PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PJM MID-ATLANTIC																
CAPACITY PERFORMANCE	2,566	2,585	2,608	2,616	2,633	2,652	2,666	2,683	2,697	2,712	2,724	2,733	2,742	2,752	2,758	2,764
SUMMER PERIOD	202	203	203	203	203	203	202	203	203	203	204	205	204	205	204	203
PRD	558	510	512	510	510	511	511	510	510	512	512	512	511	511	510	509
TOTAL LOAD MANAGEMENT	3,326	3,298	3,323	3,329	3,346	3,366	3,379	3,396	3,410	3,427	3,440	3,450	3,457	3,468	3,472	3,476

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-7 (Continued)

**PJM WESTERN REGION AND PJM SOUTHERN REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AEP																
CAPACITY PERFORMANCE	1,174	1,192	1,209	1,218	1,231	1,242	1,251	1,262	1,271	1,281	1,290	1,297	1,303	1,308	1,315	1,322
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	1,174	1,192	1,209	1,218	1,231	1,242	1,251	1,262	1,271	1,281	1,290	1,297	1,303	1,308	1,315	1,322
APS																
CAPACITY PERFORMANCE	758	772	786	793	799	802	804	807	811	816	818	821	822	824	826	828
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	758	772	786	793	799	802	804	807	811	816	818	821	822	824	826	828
ATSI																
CAPACITY PERFORMANCE	801	807	810	807	808	807	806	805	805	805	804	803	801	799	798	797
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	801	807	810	807	808	807	806	805	805	805	804	803	801	799	798	797
COMED																
CAPACITY PERFORMANCE	1,387	1,385	1,387	1,385	1,386	1,388	1,391	1,395	1,397	1,400	1,403	1,404	1,407	1,406	1,406	1,406
SUMMER PERIOD	105	105	105	105	105	105	106	106	106	106	106	107	107	107	107	107
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	1,492	1,490	1,492	1,490	1,491	1,493	1,497	1,501	1,503	1,506	1,509	1,511	1,514	1,513	1,513	1,513
DAYTON																
CAPACITY PERFORMANCE	169	169	169	168	168	168	168	168	168	168	168	168	168	167	167	167
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	169	169	169	168	168	168	168	168	168	168	168	168	168	167	167	167

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-7 (Continued)

**PJM WESTERN REGION AND PJM SOUTHERN REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
DEOK																
CAPACITY PERFORMANCE	143	146	147	148	149	150	151	152	152	153	153	153	154	154	155	156
SUMMER PERIOD	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	160	163	164	165	167	168	169	170	170	171	171	171	172	172	173	174
DLCO																
CAPACITY PERFORMANCE	130	131	132	132	133	133	133	134	134	134	134	134	134	134	134	134
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	130	131	132	132	133	133	133	134	134	134	134	134	134	134	134	134
EKPC																
CAPACITY PERFORMANCE	138	140	143	145	147	150	152	154	156	158	161	163	165	167	169	171
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	138	140	143	145	147	150	152	154	156	158	161	163	165	167	169	171
PJM WESTERN																
CAPACITY PERFORMANCE	4,700	4,742	4,783	4,796	4,821	4,840	4,856	4,877	4,894	4,915	4,931	4,943	4,954	4,959	4,970	4,981
SUMMER PERIOD	122	122	122	122	123	123	124	124	124	124	124	125	125	125	125	125
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	4,822	4,864	4,905	4,918	4,944	4,963	4,980	5,001	5,018	5,039	5,055	5,068	5,079	5,084	5,095	5,106

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-7 (Continued)

**PJM WESTERN REGION AND PJM SOUTHERN REGION LOAD MANAGEMENT
PLACED UNDER PJM COORDINATION - SUMMER (MW)**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
DOM																
CAPACITY PERFORMANCE	781	793	808	820	835	843	850	857	865	872	880	887	893	900	906	912
SUMMER PERIOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LOAD MANAGEMENT	781	793	808	820	835	843	850	857	865	872	880	887	893	900	906	912
PJM RTO																
CAPACITY PERFORMANCE	8,047	8,120	8,199	8,232	8,289	8,335	8,372	8,417	8,456	8,499	8,535	8,563	8,589	8,611	8,634	8,657
SUMMER PERIOD	324	325	325	325	326	326	326	327	327	327	328	330	329	330	329	328
PRD	558	510	512	510	510	511	511	510	510	512	512	511	511	511	510	509
TOTAL LOAD MANAGEMENT	8,929	8,955	9,036	9,067	9,125	9,172	9,209	9,254	9,293	9,338	9,375	9,405	9,429	9,452	9,473	9,494

Notes:

Summer-Period DR refers to DR resources that aggregate with Winter-Period resources to form a year-round commitment.

DR Forecast for CP DR, Summer-Period DR and Price Responsive Demand (PRD) for DY 2020 and beyond is based on actual cleared quantities of those products in the 2020/21 and 2021/22 RPM Base Residual Auction.

Table B-8a

**DISTRIBUTED SOLAR ADJUSTMENTS TO JULY PEAK LOAD (MW) FOR
EACH PJM ZONE AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	200	198	212	225	232	238	248	237	250	256	263	268	281	295	307	320
BGE	205	254	314	378	403	460	499	509	559	551	562	610	676	716	735	740
DPL	117	142	164	189	214	223	231	233	237	252	259	267	273	278	286	295
JCPL	296	311	330	363	379	380	384	398	420	439	459	476	498	500	529	577
METED	29	32	33	38	42	42	45	51	54	51	57	57	65	71	75	80
PECO	44	54	63	67	81	90	93	97	102	110	106	134	133	148	167	178
PENLC	9	10	17	19	22	24	32	30	32	38	40	45	51	67	64	76
PEPCO	167	213	268	321	369	409	441	463	489	500	524	541	557	579	593	602
PL	71	79	85	90	99	105	105	110	114	108	132	145	154	164	188	203
PS	436	489	529	598	628	637	651	674	688	737	773	825	844	880	901	935
RECO	9	11	13	15	15	16	17	18	19	20	22	23	24	26	28	30
UGI	0	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3
AEP	49	76	116	166	224	257	291	300	337	361	397	433	480	535	569	619
APS	80	101	125	148	176	193	215	225	238	251	267	282	302	360	383	403
ATSI	55	68	102	144	185	209	242	266	289	327	364	395	424	451	468	481
COMED	101	180	231	271	316	329	354	400	421	443	468	508	524	607	615	692
DAYTON	12	15	22	40	50	56	65	76	92	93	104	117	131	151	163	170
DEOK	16	24	36	57	77	92	97	114	121	151	173	191	200	209	219	233
DLCO	12	14	16	19	20	22	20	27	27	30	31	36	39	40	44	48
EKPC	5	6	7	7	7	5	8	11	10	14	10	13	15	18	18	21
OVEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOM	406	494	570	672	724	735	752	783	769	820	820	833	874	891	935	1,021
PJM RTO	1,963	2,363	3,006	3,485	3,898	3,981	4,359	4,518	5,167	5,318	5,445	5,790	5,929	6,408	6,899	7,315

Notes:
Adjustment values presented here are reflected in all July peak forecast values.

Table B-8b

**PLUG IN ELECTRIC VEHICLE ADJUSTMENT TO SUMMER PEAK LOAD (MW) FOR
EACH PJM ZONE AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	5	8	11	15	18	21	24	27	30	33	36	37	39	40	41	42
BGE	12	18	25	33	41	49	55	62	68	75	82	86	90	93	95	97
DPL	5	7	10	13	16	19	21	24	26	29	32	33	34	36	37	37
JCPL	12	19	27	35	44	52	58	66	72	79	86	90	94	97	99	101
METED	3	4	6	8	10	12	14	16	17	19	21	22	23	24	24	25
PECO	8	13	18	24	30	36	41	46	51	56	62	65	67	70	72	73
PENLC	3	4	6	8	10	12	13	15	17	19	20	21	22	23	24	24
PEPCO	10	16	22	29	36	43	49	55	60	67	73	76	79	82	84	86
PL	7	11	15	20	25	29	33	38	41	46	50	53	55	57	59	60
PS	20	32	45	59	73	86	98	110	120	133	144	151	157	162	166	169
RECO	1	1	2	2	3	3	4	4	5	5	6	6	6	7	7	7
UGI	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2
AEP	15	24	34	45	56	67	76	86	95	105	115	120	125	130	133	136
APS	7	11	16	21	26	30	35	39	43	48	52	54	57	59	60	62
ATSI	10	15	22	28	35	42	48	54	60	66	72	76	79	82	84	86
COMED	27	42	60	79	98	117	134	151	166	184	201	211	220	228	235	240
DAYTON	2	4	6	7	9	11	12	14	15	17	19	20	20	21	22	22
DEOK	4	6	8	11	14	16	19	21	23	26	28	30	31	32	33	34
DLCO	3	4	6	8	10	12	13	15	17	18	20	21	22	23	23	24
EKPC	1	1	2	3	3	4	5	5	6	6	7	7	8	8	8	8
OVEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOM	17	27	37	49	60	71	81	91	100	111	121	127	132	136	140	143
PJM RTO	172	269	379	497	618	734	834	941	1,032	1,145	1,248	1,309	1,362	1,409	1,448	1,479

Notes:
Adjustment values presented here are reflected in all summer peak forecast values.

Table B-9

**ADJUSTMENTS TO SUMMER PEAK LOAD (MW) FOR
EACH PJM ZONE AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BGE	-10	-20	-25	-26	-26	-27	-28	-26	-25	-24	-24	-24	-24	-22	-22	-22
DPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JCPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
METED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PECO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PENLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEPCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RECO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UGI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APS	128	258	361	435	465	475	474	481	492	501	505	509	512	514	518	524
ATSI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMED	-60	-118	-168	-218	-252	-286	-291	-292	-292	-293	-294	-294	-294	-294	-294	-294
DAYTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEOK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DLCO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EKPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOM	-96	39	211	373	543	506	510	470	450	413	400	357	331	317	293	234
PJM RTO	-7	209	424	628	713	663	730	712	666	661	628	636	619	508	535	548

Notes:
Adjustment values presented here are reflected in summer peak forecasts.
Adjustments are large, unanticipated changes deemed by PJM to not be captured in the load forecast model.

Table B-10

**SUMMER COINCIDENT PEAK LOAD (MW) FOR
EACH PJM ZONE, LOCATIONAL DELIVERABILITY AREA AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	2,444	2,473	2,512	2,536	2,533	2,561	2,597	2,633	2,653	2,664	2,668	2,683	2,725	2,732	2,743	2,751
BGE	6,224	6,254	6,268	6,250	6,252	6,276	6,293	6,292	6,272	6,314	6,332	6,340	6,317	6,290	6,294	6,311
DPL	3,836	3,878	3,919	3,943	3,956	3,989	4,034	4,075	4,109	4,139	4,169	4,203	4,258	4,294	4,326	4,353
JCPL	5,672	5,676	5,692	5,717	5,727	5,775	5,838	5,868	5,897	5,912	5,928	5,961	6,016	6,045	6,056	6,030
METED	2,891	2,927	2,964	2,991	3,011	3,047	3,084	3,115	3,134	3,154	3,178	3,202	3,243	3,263	3,280	3,290
PECO	8,150	8,208	8,262	8,284	8,294	8,314	8,351	8,375	8,393	8,406	8,415	8,423	8,470	8,479	8,475	8,454
PENLC	2,743	2,743	2,764	2,767	2,765	2,778	2,804	2,818	2,834	2,853	2,856	2,871	2,901	2,922	2,932	2,940
PEPCO	5,911	5,898	5,866	5,826	5,772	5,735	5,719	5,698	5,656	5,627	5,606	5,571	5,573	5,540	5,508	5,463
PL	6,837	6,944	7,037	7,102	7,144	7,218	7,306	7,381	7,432	7,477	7,533	7,582	7,677	7,731	7,765	7,788
PS	9,494	9,618	9,742	9,813	9,861	9,978	10,087	10,178	10,226	10,248	10,282	10,305	10,400	10,436	10,447	10,442
RECO	380	382	386	389	390	394	398	401	403	404	405	406	409	410	410	408
UGI	183	181	180	179	178	177	178	177	177	177	176	176	176	176	176	175
AEP	21,165	21,527	21,831	22,024	22,206	22,404	22,622	22,845	22,981	23,121	23,270	23,373	23,623	23,731	23,841	23,915
APS	8,377	8,551	8,701	8,792	8,816	8,851	8,909	8,947	8,985	9,020	9,050	9,073	9,091	9,076	9,099	9,119
ATSI	11,900	12,005	12,051	12,032	11,995	11,990	12,008	12,017	12,005	11,984	11,963	11,942	12,001	11,975	11,945	11,899
COMED	19,915	19,912	19,975	19,948	19,903	19,929	20,040	20,121	20,150	20,159	20,177	20,193	20,351	20,358	20,349	20,293
DAYTON	3,101	3,105	3,101	3,091	3,089	3,087	3,096	3,101	3,087	3,084	3,096	3,089	3,098	3,081	3,079	3,081
DEOK	5,063	5,155	5,220	5,248	5,275	5,305	5,350	5,376	5,389	5,397	5,409	5,413	5,462	5,471	5,487	5,507
DLCO	2,650	2,675	2,692	2,704	2,704	2,711	2,726	2,733	2,739	2,741	2,743	2,742	2,756	2,754	2,748	2,739
EKPC	1,925	1,959	1,995	2,026	2,051	2,086	2,120	2,155	2,185	2,213	2,244	2,275	2,315	2,346	2,374	2,400
OVEC	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
DOM	19,174	19,486	19,837	20,178	20,462	20,651	20,880	21,072	21,250	21,404	21,572	21,756	22,008	22,176	22,326	22,449
PJM RTO	148,094	149,616	151,054	151,899	152,443	153,315	154,499	155,437	156,016	156,557	157,131	157,638	158,929	159,345	159,719	159,866
PJM MID-ATLANTIC	54,765	55,182	55,592	55,797	55,883	56,242	56,689	57,011	57,186	57,375	57,548	57,723	58,165	58,318	58,412	58,405
EASTERN MID-ATLANTIC	29,976	30,235	30,513	30,682	30,761	31,011	31,305	31,530	31,681	31,773	31,867	31,981	32,278	32,396	32,457	32,438
SOUTHERN MID-ATLANTIC	12,135	12,152	12,134	12,076	12,024	12,011	12,012	11,990	11,928	11,941	11,938	11,911	11,890	11,830	11,802	11,774

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Load values for Zones and Locational Deliverability Areas are coincident with the PJM RTO peak.

This table will be used for the Reliability Pricing Model.

Summer season indicates peak from June, July, August.

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Table B-11

**PJM CONTROL AREA - JANUARY 2020
SUMMER TOTAL INTERNAL DEMAND FORECAST (MW) FOR EACH NERC REGION
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Annual Growth Rate (10 yr)
PJM - RELIABILITY FIRST												
TOTAL INTERNAL DEMAND	126,993	128,171	129,219	129,694	129,930	130,578	131,499	132,214	132,579	132,939	133,316	0.5%
% GROWTH TOTAL		0.9%	0.8%	0.4%	0.2%	0.5%	0.7%	0.5%	0.3%	0.3%	0.3%	
CONTRACTUALLY INTERRUPTIBLE	8,010	8,022	8,085	8,102	8,143	8,179	8,207	8,243	8,272	8,308	8,334	
DIRECT CONTROL	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	8,010	8,022	8,085	8,102	8,143	8,179	8,207	8,243	8,272	8,308	8,334	
NET INTERNAL DEMAND	118,983	120,149	121,134	121,592	121,787	122,399	123,292	123,971	124,307	124,631	124,982	0.5%
% GROWTH NET		1.0%	0.8%	0.4%	0.2%	0.5%	0.7%	0.6%	0.3%	0.3%	0.3%	
PJM - SERC												
TOTAL INTERNAL DEMAND	21,099	21,445	21,832	22,204	22,513	22,737	23,000	23,227	23,435	23,617	23,816	1.2%
% GROWTH TOTAL		1.6%	1.8%	1.7%	1.4%	1.0%	1.2%	1.0%	0.9%	0.8%	0.8%	
CONTRACTUALLY INTERRUPTIBLE	919	933	951	965	982	993	1,002	1,011	1,021	1,030	1,041	
DIRECT CONTROL	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	919	933	951	965	982	993	1,002	1,011	1,021	1,030	1,041	
NET INTERNAL DEMAND	20,180	20,512	20,881	21,239	21,531	21,744	21,998	22,216	22,414	22,587	22,775	1.2%
% GROWTH NET		1.6%	1.8%	1.7%	1.4%	1.0%	1.2%	1.0%	0.9%	0.8%	0.8%	
PJM RTO												
TOTAL INTERNAL DEMAND	148,092	149,616	151,051	151,898	152,443	153,315	154,499	155,441	156,014	156,556	157,132	0.6%
% GROWTH TOTAL		1.0%	1.0%	0.6%	0.4%	0.6%	0.8%	0.6%	0.4%	0.3%	0.4%	
CONTRACTUALLY INTERRUPTIBLE	8,929	8,955	9,036	9,067	9,125	9,172	9,209	9,254	9,293	9,338	9,375	
DIRECT CONTROL	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	8,929	8,955	9,036	9,067	9,125	9,172	9,209	9,254	9,293	9,338	9,375	
NET INTERNAL DEMAND	139,163	140,661	142,015	142,831	143,318	144,143	145,290	146,187	146,721	147,218	147,757	0.6%
% GROWTH NET		1.1%	1.0%	0.6%	0.3%	0.6%	0.8%	0.6%	0.4%	0.3%	0.4%	

Notes:

SERC includes EKPC and DOM zones and Reliability First includes all other zones.

Total Internal Demand = projected PJM seasonal peak load at normal peak weather conditions in the absence of any load reductions due to load management, voltage reductions or voluntary curtailments.

Contractually Interruptible = Firm Service Level + Guaranteed Load Drop

The above forecasts incorporate all load in the PJM Control Area, including members and non-members

All average growth rates are calculated from the first year of the forecast (2020).

Table B-11 (Continued)

**PJM CONTROL AREA - JANUARY 2020
SUMMER TOTAL INTERNAL DEMAND FORECAST (MW) FOR EACH NERC REGION
2020 - 2035**

	2031	2032	2033	2034	2035	Annual Growth Rate (15 yr)
PJM - RELIABILITY FIRST						
TOTAL INTERNAL DEMAND	133,606	134,606	134,822	135,018	135,019	0.4%
% GROWTH TOTAL	0.2%	0.7%	0.2%	0.1%	0.0%	
CONTRACTUALLY INTERRUPTIBLE	8,355	8,371	8,385	8,398	8,411	
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	8,355	8,371	8,385	8,398	8,411	
NET INTERNAL DEMAND	125,251	126,235	126,437	126,620	126,608	0.4%
% GROWTH NET	0.2%	0.8%	0.2%	0.1%	-0.0%	
PJM - SERC						
TOTAL INTERNAL DEMAND	24,031	24,323	24,522	24,700	24,849	1.1%
% GROWTH TOTAL	0.9%	1.2%	0.8%	0.7%	0.6%	
CONTRACTUALLY INTERRUPTIBLE	1,050	1,058	1,067	1,075	1,083	
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	1,050	1,058	1,067	1,075	1,083	
NET INTERNAL DEMAND	22,981	23,265	23,455	23,625	23,766	1.1%
% GROWTH NET	0.9%	1.2%	0.8%	0.7%	0.6%	
PJM RTO						
TOTAL INTERNAL DEMAND	157,637	158,929	159,344	159,718	159,868	0.5%
% GROWTH TOTAL	0.3%	0.8%	0.3%	0.2%	0.1%	
CONTRACTUALLY INTERRUPTIBLE	9,405	9,429	9,452	9,473	9,494	
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	9,405	9,429	9,452	9,473	9,494	
NET INTERNAL DEMAND	148,232	149,500	149,892	150,245	150,374	0.5%
% GROWTH NET	0.3%	0.9%	0.3%	0.2%	0.1%	

Notes:

SERC includes EKPC and DOM zones and Reliability First includes all other zones.

Total Internal Demand = projected PJM seasonal peak load at normal peak weather conditions in the absence of any load reductions due to load management, voltage reductions or voluntary curtailments.

Contractually Interruptible = Firm Service Level + Guaranteed Load Drop

The above forecasts incorporate all load in the PJM Control Area, including members and non-members

All average growth rates are calculated from the first year of the forecast (2020).

Table B-12

**PJM CONTROL AREA - JANUARY 2020
WINTER TOTAL INTERNAL DEMAND FORECAST (MW) FOR EACH NERC REGION
2019/20 - 2029/30**

	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	Annual Growth Rate (10 yr)
PJM - RELIABILITY FIRST												
TOTAL INTERNAL DEMAND	66,717	66,694	66,851	66,790	66,779	66,730	66,598	66,471	66,465	66,076	66,000	(0.1%)
% GROWTH TOTAL		-0.0%	0.2%	-0.1%	-0.0%	-0.1%	-0.2%	-0.2%	-0.0%	-0.6%	-0.1%	
CONTRACTUALLY INTERRUPTIBLE												
DIRECT CONTROL	7,128	7,187	7,248	7,267	7,307	7,342	7,370	7,406	7,435	7,469	7,494	
TOTAL LOAD MANAGEMENT	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	7,128	7,187	7,248	7,267	7,307	7,342	7,370	7,406	7,435	7,469	7,494	
NET INTERNAL DEMAND												
% GROWTH NET	59,589	59,507	59,603	59,523	59,472	59,388	59,228	59,065	59,030	58,607	58,506	(0.2%)
% GROWTH NET		-0.1%	0.2%	-0.1%	-0.1%	-0.1%	-0.3%	-0.3%	-0.1%	-0.7%	-0.2%	
PJM - SERC												
TOTAL INTERNAL DEMAND	64,570	65,481	66,711	67,950	69,012	69,990	70,783	71,580	72,402	73,135	73,970	1.4%
% GROWTH TOTAL		1.4%	1.9%	1.9%	1.6%	1.4%	1.1%	1.1%	1.1%	1.0%	1.1%	
CONTRACTUALLY INTERRUPTIBLE												
DIRECT CONTROL	919	933	951	965	982	993	1,002	1,011	1,021	1,030	1,041	
TOTAL LOAD MANAGEMENT	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	919	933	951	965	982	993	1,002	1,011	1,021	1,030	1,041	
NET INTERNAL DEMAND												
% GROWTH NET	63,651	64,548	65,760	66,985	68,030	68,997	69,781	70,569	71,381	72,105	72,929	1.4%
% GROWTH NET		1.4%	1.9%	1.9%	1.6%	1.4%	1.1%	1.1%	1.2%	1.0%	1.1%	
PJM RTO												
TOTAL INTERNAL DEMAND	131,287	132,175	133,562	134,740	135,791	136,720	137,381	138,051	138,867	139,211	139,970	0.6%
% GROWTH TOTAL		0.7%	1.0%	0.9%	0.8%	0.7%	0.5%	0.5%	0.6%	0.2%	0.5%	
CONTRACTUALLY INTERRUPTIBLE												
DIRECT CONTROL	8,047	8,120	8,199	8,232	8,289	8,335	8,372	8,417	8,456	8,499	8,535	
TOTAL LOAD MANAGEMENT	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	8,047	8,120	8,199	8,232	8,289	8,335	8,372	8,417	8,456	8,499	8,535	
NET INTERNAL DEMAND												
% GROWTH NET	123,240	124,055	125,363	126,508	127,502	128,385	129,009	129,634	130,411	130,712	131,435	0.6%
% GROWTH NET		0.7%	1.1%	0.9%	0.8%	0.7%	0.5%	0.5%	0.6%	0.2%	0.6%	

Notes:

SERC includes EKPC and DOM zones and Reliability First includes all other zones.

Total Internal Demand = projected PJM seasonal peak load at normal peak weather conditions in the absence of any load reductions due to load management, voltage reductions or voluntary curtailments.

Contractually Interruptible = Firm Service Level + Guaranteed Load Drop

The above forecasts incorporate all load in the PJM Control Area, including members and non-members

All average growth rates are calculated from the first year of the forecast (2020).

Table B-12 (Continued)

**PJM CONTROL AREA - JANUARY 2020
WINTER TOTAL INTERNAL DEMAND FORECAST (MW) FOR EACH NERC REGION
2019/20 - 2029/30**

	30/31	31/32	32/33	33/34	34/35	Annual Growth Rate (15 yr)
PJM - RELIABILITY FIRST						
TOTAL INTERNAL DEMAND	65,732	65,414	65,201	64,636	64,215	(0.3%)
% GROWTH TOTAL	-0.4%	-0.5%	-0.3%	-0.9%	-0.7%	
CONTRACTUALLY INTERRUPTIBLE						
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	7,513	7,531	7,544	7,559	7,574	
NET INTERNAL DEMAND						
% GROWTH NET	-0.5%	-0.6%	-0.4%	-1.0%	-0.8%	(0.3%)
PJM - SERC						
TOTAL INTERNAL DEMAND	74,636	75,317	76,015	76,654	77,298	1.2%
% GROWTH TOTAL	0.9%	0.9%	0.9%	0.8%	0.8%	
CONTRACTUALLY INTERRUPTIBLE						
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	1,050	1,058	1,067	1,075	1,083	
NET INTERNAL DEMAND						
% GROWTH NET	0.9%	0.9%	0.9%	0.8%	0.8%	1.2%
PJM RTO						
TOTAL INTERNAL DEMAND	140,368	140,731	141,216	141,290	141,513	0.5%
% GROWTH TOTAL	0.3%	0.3%	0.3%	0.1%	0.2%	
CONTRACTUALLY INTERRUPTIBLE						
DIRECT CONTROL	0	0	0	0	0	
TOTAL LOAD MANAGEMENT	8,563	8,589	8,611	8,634	8,657	
NET INTERNAL DEMAND						
% GROWTH NET	0.3%	0.3%	0.4%	0.0%	0.2%	0.5%

Notes:

SERC includes EKPC and DOM zones and Reliability First includes all other zones.

Total Internal Demand = projected PJM seasonal peak load at normal peak weather conditions in the absence of any load reductions due to load management, voltage reductions or voluntary curtailments.

Contractually Interruptible = Firm Service Level + Guaranteed Load Drop

The above forecasts incorporate all load in the PJM Control Area, including members and non-members

All average growth rates are calculated from the first year of the forecast (2020).

Table C-1

**PJM LOCATIONAL DELIVERABILITY AREAS
CENTRAL MID-ATLANTIC: BGE, METED, PEPCO, PL and UGI
SEASONAL PEAKS - MW**

BASE (50/50) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	19,106	22,574	19,539	21,600
2021	19,361	22,742	19,639	21,745
2022	19,478	22,871	19,707	21,926
2023	19,508	22,883	19,768	22,095
2024	19,546	22,951	19,896	22,215
2025	19,602	23,019	20,069	22,338
2026	19,662	23,135	20,191	22,439
2027	19,825	23,210	20,269	22,539
2028	19,858	23,230	20,242	22,632
2029	19,936	23,248	20,327	22,718
2030	19,989	23,372	20,436	22,806
2031	19,985	23,414	20,642	22,861
2032	20,106	23,503	20,658	22,905
2033	20,145	23,483	20,689	22,942
2034	20,169	23,516	20,748	22,964
2035	20,189	23,553	20,651	22,988

EXTREME WEATHER (90/10) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	20,910	23,878	21,862	23,220
2021	21,108	23,964	22,047	23,397
2022	21,282	23,987	22,203	23,604
2023	21,346	24,028	22,302	23,767
2024	21,313	24,064	22,390	23,898
2025	21,519	24,097	22,516	24,010
2026	21,613	24,120	22,614	24,119
2027	21,710	24,200	22,736	24,228
2028	21,715	24,269	22,905	24,335
2029	21,807	24,339	23,013	24,391
2030	21,836	24,406	23,132	24,457
2031	21,889	24,431	23,263	24,524
2032	21,942	24,428	23,342	24,571
2033	21,952	24,414	23,474	24,637
2034	21,942	24,393	23,612	24,612
2035	21,930	24,404	23,691	24,631

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Summer season indicates peak from June, July, August.

Fall season indicates peak from September, October, November.

Winter season indicates peak from December, January, February.

Table C-2

**PJM LOCATIONAL DELIVERABILITY AREAS
WESTERN MID-ATLANTIC: METED, PENLC, PL and UGI
SEASONAL PEAKS - MW**

BASE (50/50) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	11,516	13,039	11,420	13,004
2021	11,686	13,181	11,561	13,009
2022	11,786	13,317	11,710	13,097
2023	11,844	13,395	11,809	13,183
2024	11,919	13,510	11,848	13,245
2025	11,965	13,632	11,964	13,321
2026	12,018	13,733	12,074	13,377
2027	12,112	13,832	12,179	13,427
2028	12,197	13,930	12,287	13,492
2029	12,290	14,045	12,364	13,567
2030	12,354	14,127	12,501	13,628
2031	12,357	14,213	12,636	13,689
2032	12,468	14,284	12,735	13,734
2033	12,530	14,342	12,822	13,773
2034	12,547	14,411	12,869	13,811
2035	12,597	14,454	12,844	13,852

EXTREME WEATHER (90/10) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	12,691	13,768	12,811	13,563
2021	12,774	13,897	12,983	13,581
2022	12,848	13,974	13,169	13,746
2023	12,893	14,110	13,310	13,750
2024	12,905	14,229	13,457	13,811
2025	13,015	14,323	13,615	13,879
2026	13,106	14,393	13,742	13,940
2027	13,214	14,463	13,909	13,989
2028	13,185	14,548	14,089	14,130
2029	13,279	14,566	14,259	14,125
2030	13,327	14,664	14,419	14,192
2031	13,436	14,726	14,575	14,238
2032	13,463	14,727	14,714	14,286
2033	13,516	14,791	14,868	14,392
2034	13,544	14,851	15,039	14,355
2035	13,555	14,912	15,192	14,392

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Summer season indicates peak from June, July, August.

Fall season indicates peak from September, October, November.

Winter season indicates peak from December, January, February.

Table C-3

**PJM LOCATIONAL DELIVERABILITY AREAS
EASTERN MID-ATLANTIC: AE, DPL, JCPL, PECO, PS and RECO
SEASONAL PEAKS - MW**

BASE (50/50) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	22,336	30,819	24,788	22,496
2021	22,576	30,957	25,109	22,711
2022	22,907	31,198	25,375	22,942
2023	23,115	31,367	25,462	23,142
2024	23,385	31,615	25,865	23,285
2025	23,603	31,852	26,189	23,447
2026	23,627	32,063	26,453	23,603
2027	23,779	32,242	26,705	23,714
2028	24,156	32,406	26,703	23,840
2029	24,371	32,584	26,936	23,916
2030	24,524	32,704	27,317	24,023
2031	24,628	32,829	27,574	24,105
2032	24,582	32,940	27,766	24,190
2033	24,796	32,983	27,927	24,280
2034	25,055	33,059	27,933	24,276
2035	25,189	33,085	28,080	24,303

EXTREME WEATHER (90/10) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	25,898	32,172	29,287	23,531
2021	26,263	32,397	29,591	23,710
2022	26,805	32,541	29,906	23,950
2023	27,054	32,729	30,173	24,203
2024	27,264	32,969	30,431	24,375
2025	27,463	33,116	30,811	24,515
2026	27,482	33,223	31,038	24,639
2027	27,957	33,348	31,317	24,740
2028	28,291	33,464	31,603	24,880
2029	28,491	33,573	31,652	25,010
2030	28,675	33,649	32,066	25,133
2031	28,816	33,700	32,383	25,177
2032	28,976	33,732	32,545	25,232
2033	29,223	33,744	32,746	25,307
2034	29,389	33,767	32,959	25,349
2035	29,529	33,801	33,123	25,404

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Summer season indicates peak from June, July, August.

Fall season indicates peak from September, October, November.

Winter season indicates peak from December, January, February.

Table C-4

**PJM LOCATIONAL DELIVERABILITY AREAS
SOUTHERN MID-ATLANTIC: BGE and PEPCO
SEASONAL PEAKS - MW**

BASE (50/50) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	10,107	12,537	10,672	11,514
2021	10,189	12,532	10,687	11,628
2022	10,258	12,521	10,713	11,731
2023	10,272	12,453	10,683	11,804
2024	10,273	12,422	10,647	11,869
2025	10,277	12,385	10,681	11,923
2026	10,275	12,361	10,665	11,985
2027	10,325	12,327	10,637	12,021
2028	10,310	12,278	10,626	12,054
2029	10,321	12,289	10,626	12,066
2030	10,321	12,292	10,629	12,071
2031	10,301	12,276	10,680	12,098
2032	10,302	12,235	10,643	12,114
2033	10,284	12,202	10,626	12,107
2034	10,256	12,182	10,636	12,084
2035	10,230	12,177	10,610	12,074

EXTREME WEATHER (90/10) FORECAST

YEAR	SPRING	SUMMER	FALL	WINTER
2020	10,936	13,235	11,972	12,607
2021	11,029	13,239	11,972	12,713
2022	11,094	13,208	11,927	12,856
2023	11,104	13,207	11,880	12,928
2024	11,014	13,141	11,848	12,997
2025	11,032	13,095	11,830	13,051
2026	11,166	13,099	11,813	13,095
2027	11,175	13,104	11,781	13,132
2028	11,142	13,091	11,765	13,194
2029	11,149	13,079	11,750	13,195
2030	11,108	13,070	11,752	13,216
2031	11,101	13,059	11,746	13,222
2032	11,141	13,044	11,725	13,219
2033	11,113	13,012	11,717	13,233
2034	11,070	12,988	11,726	13,194
2035	11,052	12,954	11,701	13,178

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Spring season indicates peak from March, April, May.

Summer season indicates peak from June, July, August.

Fall season indicates peak from September, October, November.

Winter season indicates peak from December, January, February.

Table D-1

**SUMMER EXTREME WEATHER (90/10) PEAK LOAD FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AE	2,723	2,751	2,753	2,775	2,814	2,838	2,893	2,919	2,905	2,931	2,956	2,978	2,999	3,018	3,040	3,050
BGE	6,863	6,890	6,907	6,926	6,904	6,906	6,893	6,888	6,887	6,898	6,911	6,926	6,938	6,936	6,946	6,963
DPL	4,177	4,211	4,237	4,261	4,291	4,334	4,367	4,401	4,436	4,470	4,485	4,528	4,554	4,582	4,614	4,650
JCPL	6,111	6,127	6,155	6,170	6,213	6,258	6,283	6,308	6,324	6,341	6,361	6,364	6,370	6,372	6,378	6,385
METED	3,113	3,141	3,171	3,189	3,210	3,225	3,241	3,268	3,297	3,324	3,343	3,362	3,378	3,395	3,411	3,424
PECO	8,788	8,838	8,874	8,871	8,886	8,885	8,872	8,864	8,860	8,863	8,850	8,837	8,819	8,799	8,787	8,787
PENLC	3,027	3,025	3,032	3,043	3,062	3,080	3,083	3,093	3,112	3,130	3,146	3,164	3,164	3,166	3,186	3,198
PEPCO	6,428	6,409	6,376	6,329	6,310	6,286	6,253	6,229	6,204	6,182	6,159	6,133	6,106	6,079	6,053	6,035
PL	7,440	7,541	7,630	7,696	7,769	7,834	7,889	7,954	8,016	8,074	8,129	8,172	8,203	8,237	8,274	8,304
PS	10,215	10,322	10,425	10,488	10,573	10,654	10,724	10,788	10,820	10,882	10,960	10,998	11,058	11,079	11,111	11,144
RECO	414	417	420	422	425	428	431	433	435	436	437	437	437	437	438	439
UGI	210	207	206	205	205	204	204	203	203	202	202	202	201	200	200	199
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	767 58,742	812 59,067	870 59,316	840 59,535	765 59,897	860 60,072	892 60,241	929 60,419	905 60,594	946 60,787	996 60,943	1,102 60,999	1,212 61,015	1,335 60,965	1,479 60,959	1,596 60,982
FE-EAST PLGRP	12,184 7,648	12,199 7,747	12,245 7,834	12,307 7,899	12,379 7,971	12,446 8,035	12,499 8,087	12,550 8,149	12,618 8,212	12,683 8,271	12,726 8,324	12,769 8,364	12,799 8,400	12,826 8,435	12,822 8,468	12,835 8,499

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management. Summer season indicates peak from June, July, August.

Table D-1

**SUMMER EXTREME WEATHER (90/10) PEAK LOAD FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2035**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AEP	23,183	23,530	23,754	23,927	24,213	24,395	24,546	24,709	24,912	25,105	25,241	25,347	25,456	25,587	25,685	25,826
APS	9,074	9,257	9,410	9,513	9,578	9,613	9,635	9,675	9,726	9,775	9,799	9,826	9,846	9,868	9,895	9,923
ATSI	12,990	13,070	13,109	13,085	13,070	13,039	13,004	13,048	13,008	13,001	12,968	12,975	12,955	12,908	12,871	12,850
COMED	22,570	22,523	22,530	22,506	22,519	22,545	22,561	22,606	22,642	22,675	22,680	22,689	22,683	22,679	22,669	22,643
DAYTON	3,369	3,374	3,377	3,360	3,356	3,352	3,348	3,347	3,348	3,347	3,342	3,339	3,335	3,333	3,333	3,335
DEOK	5,465	5,559	5,624	5,648	5,680	5,705	5,726	5,750	5,772	5,793	5,795	5,807	5,822	5,848	5,870	5,893
DLCO	2,886	2,913	2,934	2,942	2,944	2,947	2,954	2,969	2,977	3,007	2,981	2,976	2,979	2,982	2,969	3,007
EKPC	2,115	2,151	2,187	2,218	2,246	2,286	2,318	2,352	2,385	2,420	2,445	2,483	2,514	2,545	2,575	2,609
OVEC	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
DIVERSITY - WESTERN(-)	1,508	1,479	1,209	1,288	1,290	1,448	1,438	1,356	1,456	1,506	1,460	1,541	1,611	1,684	1,627	1,740
PJM WESTERN	80,239	80,993	81,811	82,006	82,411	82,529	82,749	83,195	83,409	83,712	83,886	83,996	84,074	84,161	84,335	84,441
DOM	20,925	21,221	21,570	21,899	22,257	22,441	22,615	22,807	23,011	23,209	23,388	23,554	23,710	23,866	24,025	24,194
DIVERSITY - TOTAL(-)	4,320	5,108	5,323	5,096	4,410	4,464	5,181	5,443	5,571	5,665	4,891	5,092	6,059	6,269	6,275	6,500
PJM RTO	157,861	158,464	159,453	160,472	162,210	162,886	162,754	163,263	163,804	164,495	165,782	166,100	165,563	165,742	166,150	166,453

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Summer season indicates peak from June, July, August.

Table D-2

**WINTER EXTREME WEATHER (90/10) PEAK LOAD FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2019/20 - 2034/35**

	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35
AE	1,624	1,642	1,667	1,692	1,713	1,731	1,746	1,758	1,769	1,780	1,792	1,796	1,801	1,805	1,811	1,807
BGE	6,479	6,532	6,627	6,700	6,755	6,780	6,819	6,851	6,897	6,924	6,931	6,945	6,956	6,970	6,969	6,968
DPL	4,070	4,128	4,180	4,234	4,279	4,308	4,333	4,404	4,446	4,490	4,517	4,554	4,573	4,640	4,674	4,708
JCPL	3,824	3,883	3,922	3,963	3,991	4,021	4,057	4,096	4,122	4,142	4,170	4,180	4,205	4,225	4,236	4,247
METED	2,804	2,798	2,821	2,853	2,876	2,903	2,926	2,946	2,971	2,997	3,024	3,042	3,060	3,078	3,095	3,113
PECO	7,212	7,181	7,207	7,214	7,197	7,192	7,179	7,160	7,168	7,151	7,150	7,136	7,121	7,118	7,086	7,064
PENLC	2,944	2,919	2,929	2,924	2,921	2,922	2,921	2,919	2,928	2,927	2,931	2,932	2,933	2,936	2,933	2,935
PEPCO	6,208	6,264	6,307	6,335	6,349	6,359	6,366	6,371	6,376	6,378	6,378	6,371	6,359	6,344	6,327	6,310
PL	7,697	7,750	7,809	7,857	7,900	7,945	7,987	8,019	8,060	8,097	8,132	8,167	8,193	8,216	8,231	8,250
PS	6,923	7,036	7,132	7,226	7,306	7,362	7,417	7,464	7,514	7,548	7,582	7,593	7,621	7,663	7,655	7,673
RECO	222	226	229	232	235	236	239	242	244	244	247	247	248	249	250	251
UGI	209	207	204	203	201	200	199	198	197	196	195	194	193	191	190	189
DIVERSITY - MID-ATLANTIC(-) PJM MID-ATLANTIC	1,072 49,144	1,083 49,483	1,089 49,945	941 50,492	968 50,755	1,096 50,863	1,073 51,116	1,108 51,320	1,110 51,582	962 51,912	1,036 52,013	1,116 52,041	1,072 52,191	1,102 52,333	929 52,528	948 52,567
FE-EAST PLGRP	9,432 7,898	9,452 7,949	9,535 8,005	9,615 8,051	9,663 8,093	9,705 8,137	9,762 8,178	9,809 8,208	9,889 8,249	9,943 8,285	9,984 8,320	10,014 8,353	10,057 8,378	10,116 8,400	10,141 8,413	10,170 8,432

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management. Winter season indicates peak from December, January, February.

Table D-2

**WINTER EXTREME WEATHER (90/10) PEAK LOAD FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2035**

	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35
AEP	23,636	23,759	24,115	24,353	24,487	24,543	24,660	24,771	25,001	25,139	25,247	25,226	25,275	25,434	25,475	25,524
APS	9,464	9,517	9,659	9,795	9,896	9,935	9,983	9,998	10,004	10,063	10,067	10,075	10,109	10,085	10,086	10,111
ATSI	10,744	10,635	10,695	10,724	10,699	10,675	10,637	10,587	10,621	10,625	10,618	10,568	10,516	10,518	10,489	10,448
COMED	15,127	15,071	15,127	15,190	15,224	15,211	15,232	15,245	15,291	15,321	15,346	15,297	15,286	15,280	15,254	15,227
DAYTON	3,077	3,061	3,048	3,024	3,019	2,990	3,004	2,999	2,999	2,990	2,955	2,961	2,976	2,975	2,950	2,956
DEOK	4,912	4,945	5,003	5,057	5,092	5,119	5,153	5,175	5,204	5,232	5,247	5,262	5,280	5,292	5,299	5,307
DLCO	2,151	2,158	2,176	2,188	2,194	2,195	2,187	2,186	2,186	2,188	2,185	2,176	2,162	2,156	2,146	2,136
EKPC	3,147	3,225	3,284	3,336	3,358	3,397	3,434	3,490	3,528	3,546	3,582	3,615	3,648	3,701	3,731	3,737
OVEC	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
DIVERSITY - WESTERN(-)	1,807	1,817	1,992	2,003	1,666	1,814	1,841	1,837	2,003	1,688	1,999	1,870	1,888	2,013	2,015	1,752
PJM WESTERN	70,576	70,679	71,240	71,789	72,428	72,376	72,574	72,739	72,956	73,541	73,373	73,435	73,489	73,553	73,540	73,819
DOM	22,894	23,318	23,785	24,249	24,711	25,152	25,425	25,697	25,963	26,191	26,379	26,636	26,874	27,096	27,264	27,470
DIVERSITY - TOTAL(-)	4,998	5,012	5,168	5,286	5,296	5,004	5,040	5,059	5,192	5,285	5,165	4,998	5,047	5,278	5,275	5,277
PJM RTO	140,495	141,368	142,883	144,188	145,232	146,297	146,989	147,642	148,422	149,009	149,635	150,100	150,467	150,819	151,001	151,279

Notes:

All forecast values represent unrestricted peaks, after reductions for distributed solar generation, additions for plug-in electric vehicles, and prior to reductions for load management.

Winter season indicates peak from December, January, February.

Table E-1

**ANNUAL NET ENERGY (GWh) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2020 - 2030**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Annual Growth Rate (10 yr)
AE	9,915	10,028	10,178	10,316	10,481	10,586	10,698	10,805	10,933	11,000	11,069	1.1%
		1.1%	1.5%	1.4%	1.6%	1.0%	1.1%	1.0%	1.2%	0.6%	0.6%	
BGE	31,565	31,767	32,051	32,250	32,527	32,596	32,748	32,910	33,157	33,224	33,328	0.5%
		0.6%	0.9%	0.6%	0.9%	0.2%	0.5%	0.5%	0.8%	0.2%	0.3%	
DPL	18,822	19,030	19,296	19,509	19,798	19,970	20,182	20,410	20,702	20,882	21,085	1.1%
		1.1%	1.4%	1.1%	1.5%	0.9%	1.1%	1.1%	1.4%	0.9%	1.0%	
JCPL	22,284	22,425	22,659	22,888	23,205	23,394	23,618	23,833	24,115	24,269	24,418	0.9%
		0.6%	1.0%	1.0%	1.4%	0.8%	1.0%	0.9%	1.2%	0.6%	0.6%	
METED	15,762	15,859	16,082	16,240	16,466	16,600	16,755	16,929	17,164	17,317	17,447	1.0%
		0.6%	1.4%	1.0%	1.4%	0.8%	0.9%	1.0%	1.4%	0.9%	0.8%	
PECO	40,028	40,097	40,295	40,284	40,418	40,295	40,247	40,258	40,415	40,385	40,358	0.1%
		0.2%	0.5%	-0.0%	0.3%	-0.3%	-0.1%	0.0%	0.4%	-0.1%	-0.1%	
PENLC	17,301	17,212	17,251	17,236	17,301	17,270	17,284	17,323	17,428	17,452	17,471	0.1%
		-0.5%	0.2%	-0.1%	0.4%	-0.2%	0.1%	0.2%	0.6%	0.1%	0.1%	
PEPCO	30,088	30,112	30,126	30,067	30,092	29,947	29,889	29,846	29,866	29,733	29,642	(0.1%)
		0.1%	0.0%	-0.2%	0.1%	-0.5%	-0.2%	-0.1%	0.1%	-0.4%	-0.3%	
PL	40,519	40,912	41,416	41,771	42,273	42,496	42,802	43,130	43,589	43,826	44,051	0.8%
		1.0%	1.2%	0.9%	1.2%	0.5%	0.7%	0.8%	1.1%	0.5%	0.5%	
PS	43,805	44,439	45,159	45,762	46,499	46,920	47,373	47,784	48,317	48,585	48,851	1.1%
		1.4%	1.6%	1.3%	1.6%	0.9%	1.0%	0.9%	1.1%	0.6%	0.5%	
RECO	1,447	1,466	1,489	1,507	1,531	1,543	1,559	1,573	1,588	1,597	1,605	1.0%
		1.3%	1.6%	1.2%	1.6%	0.8%	1.0%	0.9%	1.0%	0.6%	0.5%	
UGI	1,033	1,015	1,007	999	995	989	984	980	982	976	973	(0.6%)
		-1.7%	-0.8%	-0.8%	-0.4%	-0.6%	-0.5%	-0.4%	0.2%	-0.6%	-0.3%	
PJM MID-ATLANTIC	272,569	274,362	277,009	278,829	281,586	282,606	284,139	285,781	288,256	289,246	290,298	0.6%
		0.7%	1.0%	0.7%	1.0%	0.4%	0.5%	0.6%	0.9%	0.3%	0.4%	
FE-EAST	55,347	55,496	55,992	56,364	56,972	57,264	57,657	58,085	58,707	59,038	59,336	0.7%
		0.3%	0.9%	0.7%	1.1%	0.5%	0.7%	0.7%	1.1%	0.6%	0.5%	
PLGRP	41,552	41,927	42,423	42,770	43,268	43,485	43,786	44,110	44,571	44,802	45,024	0.8%
		0.9%	1.2%	0.8%	1.2%	0.5%	0.7%	0.7%	1.0%	0.5%	0.5%	

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.
All average growth rates are calculated from the first year of the forecast (2020).

Table E-1 (continued)

**ANNUAL NET ENERGY (GWh) AND GROWTH RATES FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION
2031 - 2035**

	2031	2032	2033	2034	2035	Annual Growth Rate (15 yr)
AE	11,140	11,236	11,271	11,334	11,402	0.9%
	0.6%	0.9%	0.3%	0.6%	0.6%	
BGE	33,448	33,660	33,646	33,749	33,869	0.5%
	0.4%	0.6%	-0.0%	0.3%	0.4%	
DPL	21,298	21,569	21,708	21,922	22,155	1.1%
	1.0%	1.3%	0.6%	1.0%	1.1%	
JCPL	24,587	24,811	24,886	25,041	25,204	0.8%
	0.7%	0.9%	0.3%	0.6%	0.7%	
METED	17,612	17,814	17,910	18,053	18,225	1.0%
	0.9%	1.1%	0.5%	0.8%	1.0%	
PECO	40,374	40,495	40,376	40,392	40,460	0.1%
	0.0%	0.3%	-0.3%	0.0%	0.2%	
PENLC	17,519	17,613	17,603	17,643	17,713	0.2%
	0.3%	0.5%	-0.1%	0.2%	0.4%	
PEPCO	29,563	29,568	29,380	29,289	29,228	(0.2%)
	-0.3%	0.0%	-0.6%	-0.3%	-0.2%	
PL	44,329	44,707	44,818	45,050	45,335	0.8%
	0.6%	0.9%	0.2%	0.5%	0.6%	
PS	49,119	49,519	49,618	49,867	50,140	0.9%
	0.5%	0.8%	0.2%	0.5%	0.5%	
RECO	1,614	1,625	1,629	1,634	1,642	0.8%
	0.6%	0.7%	0.2%	0.3%	0.5%	
UGI	967	967	961	957	953	(0.5%)
	-0.6%	0.0%	-0.6%	-0.4%	-0.4%	
PJM MID-ATLANTIC	291,570	293,584	293,806	294,931	296,326	0.6%
	0.4%	0.7%	0.1%	0.4%	0.5%	
FE-EAST	59,718	60,238	60,399	60,737	61,142	0.7%
	0.6%	0.9%	0.3%	0.6%	0.7%	
PLGRP	45,296	45,674	45,779	46,007	46,288	0.7%
	0.6%	0.8%	0.2%	0.5%	0.6%	

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.
All average growth rates are calculated from the first year of the forecast (2020).

Table E-1

**ANNUAL NET ENERGY (GWh) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2030**

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Annual Growth Rate (10 yr)
AEP	128,018	129,471	131,504	132,711	134,410	135,281	136,265	137,345	138,866	139,622	140,232	0.9%
		1.1%	1.6%	0.9%	1.3%	0.6%	0.7%	0.8%	1.1%	0.5%	0.4%	
APS	50,514	51,481	52,628	53,371	54,025	54,198	54,410	54,685	55,172	55,375	55,501	0.9%
		1.9%	2.2%	1.4%	1.2%	0.3%	0.4%	0.5%	0.9%	0.4%	0.2%	
ATSI	65,797	65,855	66,103	65,958	66,133	65,893	65,748	65,671	65,849	65,675	65,456	(0.1%)
		0.1%	0.4%	-0.2%	0.3%	-0.4%	-0.2%	-0.1%	0.3%	-0.3%	-0.3%	
COMED	93,858	93,472	93,783	93,837	94,284	94,194	94,380	94,647	95,144	95,165	95,160	0.1%
		-0.4%	0.3%	0.1%	0.5%	-0.1%	0.2%	0.3%	0.5%	0.0%	-0.0%	
DAYTON	16,930	16,774	16,751	16,668	16,676	16,610	16,586	16,578	16,631	16,605	16,562	(0.2%)
		-0.9%	-0.1%	-0.5%	0.0%	-0.4%	-0.1%	-0.0%	0.3%	-0.2%	-0.3%	
DEOK	27,029	27,390	27,802	28,054	28,381	28,541	28,727	28,917	29,189	29,307	29,409	0.8%
		1.3%	1.5%	0.9%	1.2%	0.6%	0.7%	0.7%	0.9%	0.4%	0.3%	
DLCO	13,666	13,779	13,890	13,948	14,036	14,028	14,033	14,047	14,104	14,085	14,057	0.3%
		0.8%	0.8%	0.4%	0.6%	-0.1%	0.0%	0.1%	0.4%	-0.1%	-0.2%	
EKPC	11,069	11,237	11,453	11,632	11,843	11,992	12,167	12,345	12,564	12,714	12,863	1.5%
		1.5%	1.9%	1.6%	1.8%	1.3%	1.5%	1.5%	1.8%	1.2%	1.2%	
OVEC	570	570	570	570	570	570	570	570	570	570	570	0.0%
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
PJM WESTERN	407,451	410,029	414,484	416,749	420,358	421,307	422,886	424,805	428,089	429,118	429,810	0.5%
		0.6%	1.1%	0.5%	0.9%	0.2%	0.4%	0.5%	0.8%	0.2%	0.2%	
DOM	102,935	104,845	107,471	110,012	112,951	114,053	115,176	116,343	117,880	118,745	119,722	1.5%
		1.9%	2.5%	2.4%	2.7%	1.0%	1.0%	1.0%	1.3%	0.7%	0.8%	
PJM RTO	782,955	789,236	798,964	805,590	814,895	817,966	822,201	826,929	834,225	837,109	839,830	0.7%
		0.8%	1.2%	0.8%	1.2%	0.4%	0.5%	0.6%	0.9%	0.3%	0.3%	

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.
All average growth rates are calculated from the first year of the forecast (2020).

Table E-1 (Continued)

**ANNUAL NET ENERGY (GWh) AND GROWTH RATES FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO
2020 - 2030**

	2031	2032	2033	2034	2035	Annual Growth Rate (15 yr)
AEP	141,030	142,145	142,440	143,122	143,987	0.8%
	0.6%	0.8%	0.2%	0.5%	0.6%	
APS	55,723	56,080	56,083	56,255	56,509	0.8%
	0.4%	0.6%	0.0%	0.3%	0.5%	
ATSI	65,345	65,363	64,972	64,772	64,657	(0.1%)
	-0.2%	0.0%	-0.6%	-0.3%	-0.2%	
COMED	95,298	95,676	95,468	95,486	95,607	0.1%
	0.1%	0.4%	-0.2%	0.0%	0.1%	
DAYTON	16,566	16,609	16,559	16,565	16,599	(0.1%)
	0.0%	0.3%	-0.3%	0.0%	0.2%	
DEOK	29,541	29,745	29,784	29,914	30,076	0.7%
	0.4%	0.7%	0.1%	0.4%	0.5%	
DLCO	14,041	14,041	13,958	13,911	13,882	0.1%
	-0.1%	0.0%	-0.6%	-0.3%	-0.2%	
EKPC	13,031	13,231	13,355	13,518	13,689	1.4%
	1.3%	1.5%	0.9%	1.2%	1.3%	
OVEC	570	570	570	570	570	0.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	
PJM WESTERN	431,145	433,460	433,189	434,113	435,576	0.4%
	0.3%	0.5%	-0.1%	0.2%	0.3%	
DOM	120,756	122,161	122,831	123,897	125,114	1.3%
	0.9%	1.2%	0.5%	0.9%	1.0%	
PJM RTO	843,471	849,205	849,826	852,941	857,016	0.6%
	0.4%	0.7%	0.1%	0.4%	0.5%	

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.
All average growth rates are calculated from the first year of the forecast (2020).

Table E-2

**MONTHLY NET ENERGY FORECAST (GWh) FOR
EACH PJM MID-ATLANTIC ZONE AND GEOGRAPHIC REGION**

	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	PJM MID-ATLANTIC
Jan 2020	834	3,032	1,850	1,943	1,486	3,670	1,660	2,876	4,016	3,751	118	106	25,342
Feb 2020	743	2,676	1,625	1,732	1,348	3,277	1,508	2,553	3,582	3,381	105	96	22,626
Mar 2020	741	2,568	1,529	1,728	1,320	3,195	1,503	2,403	3,470	3,371	105	92	22,025
Apr 2020	648	2,186	1,274	1,515	1,146	2,809	1,321	2,076	2,965	3,016	97	75	19,128
May 2020	730	2,329	1,334	1,643	1,175	2,966	1,314	2,232	2,962	3,260	110	74	20,129
Jun 2020	898	2,691	1,576	2,016	1,312	3,494	1,390	2,596	3,221	3,942	138	80	23,354
Jul 2020	1,183	3,142	1,921	2,474	1,502	4,138	1,528	3,025	3,677	4,661	163	93	27,507
Aug 2020	1,102	2,997	1,813	2,312	1,455	3,950	1,477	2,845	3,501	4,434	152	86	26,124
Sep 2020	828	2,506	1,478	1,817	1,228	3,227	1,318	2,415	3,077	3,710	126	74	21,804
Oct 2020	696	2,257	1,324	1,589	1,176	2,895	1,338	2,185	3,026	3,300	109	75	19,970
Nov 2020	697	2,368	1,408	1,601	1,201	2,949	1,379	2,240	3,231	3,268	106	83	20,531
Dec 2020	815	2,813	1,690	1,914	1,413	3,458	1,565	2,642	3,791	3,711	118	99	24,029
	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	MID-ATLANTIC
Jan 2021	843	3,040	1,861	1,958	1,470	3,631	1,633	2,878	4,020	3,781	118	104	25,337
Feb 2021	726	2,603	1,583	1,695	1,301	3,150	1,446	2,483	3,493	3,316	103	91	21,990
Mar 2021	757	2,597	1,557	1,751	1,341	3,220	1,506	2,432	3,528	3,465	108	91	22,353
Apr 2021	660	2,202	1,292	1,530	1,157	2,823	1,317	2,086	2,999	3,084	99	74	19,323
May 2021	743	2,348	1,353	1,658	1,189	2,987	1,312	2,240	3,002	3,336	113	73	20,354
Jun 2021	905	2,721	1,600	2,022	1,329	3,523	1,390	2,600	3,274	4,011	140	79	23,594
Jul 2021	1,193	3,169	1,948	2,477	1,516	4,169	1,523	3,022	3,724	4,727	164	91	27,723
Aug 2021	1,112	3,040	1,845	2,325	1,480	3,995	1,483	2,861	3,571	4,524	155	85	26,476
Sep 2021	842	2,527	1,500	1,837	1,244	3,252	1,320	2,415	3,123	3,761	128	73	22,022
Oct 2021	708	2,276	1,342	1,604	1,185	2,903	1,333	2,184	3,058	3,335	110	74	20,112
Nov 2021	711	2,401	1,436	1,630	1,223	2,978	1,386	2,259	3,292	3,335	109	82	20,842
Dec 2021	828	2,843	1,713	1,938	1,424	3,466	1,563	2,652	3,828	3,764	119	98	24,236
	AE	BGE	DPL	JCPL	METED	PECO	PENLC	PEPCO	PL	PS	RECO	UGI	MID-ATLANTIC
Jan 2022	856	3,075	1,885	1,982	1,490	3,645	1,639	2,893	4,070	3,843	120	103	25,601
Feb 2022	737	2,625	1,601	1,714	1,313	3,156	1,445	2,487	3,526	3,360	105	91	22,160
Mar 2022	769	2,621	1,580	1,770	1,359	3,232	1,507	2,436	3,565	3,533	110	90	22,572
Apr 2022	670	2,212	1,307	1,541	1,166	2,825	1,312	2,076	3,021	3,131	101	73	19,435
May 2022	756	2,367	1,373	1,677	1,211	3,008	1,318	2,241	3,048	3,409	116	72	20,596
Jun 2022	914	2,742	1,622	2,039	1,349	3,545	1,395	2,596	3,322	4,079	142	78	23,823
Jul 2022	1,206	3,186	1,970	2,489	1,533	4,191	1,522	3,009	3,763	4,789	166	90	27,914
Aug 2022	1,126	3,074	1,876	2,350	1,510	4,035	1,496	2,869	3,640	4,617	157	84	26,834
Sep 2022	857	2,548	1,521	1,859	1,264	3,273	1,324	2,411	3,164	3,814	129	73	22,237
Oct 2022	721	2,301	1,364	1,626	1,204	2,921	1,338	2,189	3,103	3,387	112	74	20,340
Nov 2022	725	2,429	1,461	1,654	1,243	2,995	1,391	2,268	3,337	3,389	110	81	21,083
Dec 2022	841	2,871	1,736	1,958	1,440	3,469	1,564	2,651	3,857	3,808	121	98	24,414

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.

Table E-2

**MONTHLY NET ENERGY FORECAST (GWh) FOR
EACH PJM WESTERN AND PJM SOUTHERN ZONE, GEOGRAPHIC REGION AND RTO**

	AEP	APS	ATSI	COMED	DAYTON	DEOK	DLCO	EKPC	OVEC	PJM		PJM RTO
										WESTERN	DOM	
Jan 2020	12,439	4,939	6,099	8,319	1,620	2,481	1,202	1,219	60	38,378	10,159	73,879
Feb 2020	11,051	4,449	5,568	7,487	1,449	2,210	1,093	1,027	60	34,394	8,831	65,851
Mar 2020	10,830	4,323	5,522	7,452	1,386	2,171	1,096	940	60	33,780	8,220	64,025
Apr 2020	9,424	3,720	4,913	6,756	1,214	1,922	989	747	45	29,730	7,088	55,946
May 2020	9,728	3,784	5,021	7,129	1,273	2,084	1,054	774	40	30,887	7,697	58,713
Jun 2020	10,589	4,092	5,523	8,424	1,431	2,373	1,223	886	40	34,581	8,776	66,711
Jul 2020	11,506	4,492	6,068	9,613	1,569	2,638	1,354	981	40	38,261	9,913	75,681
Aug 2020	11,288	4,414	5,940	9,242	1,550	2,571	1,291	956	40	37,292	9,620	73,036
Sep 2020	9,823	3,840	5,156	7,571	1,345	2,195	1,115	783	40	31,868	8,107	61,779
Oct 2020	9,616	3,802	5,063	6,935	1,279	2,002	1,039	759	40	30,535	7,412	57,917
Nov 2020	10,029	4,021	5,120	6,975	1,309	2,027	1,042	879	45	31,447	7,768	59,746
Dec 2020	11,695	4,638	5,804	7,955	1,505	2,355	1,168	1,118	60	36,298	9,344	69,671
	AEP	APS	ATSI	COMED	DAYTON	DEOK	DLCO	EKPC	OVEC	WESTERN	DOM	PJM RTO
Jan 2021	12,444	4,946	6,021	8,220	1,582	2,481	1,202	1,235	60	38,191	10,274	73,802
Feb 2021	10,751	4,332	5,353	7,200	1,381	2,149	1,062	1,010	60	33,298	8,650	63,938
Mar 2021	11,037	4,449	5,576	7,480	1,384	2,220	1,117	962	60	34,285	8,454	65,092
Apr 2021	9,555	3,813	4,936	6,743	1,204	1,954	1,005	758	45	30,013	7,266	56,602
May 2021	9,874	3,886	5,053	7,120	1,265	2,120	1,072	788	40	31,218	7,886	59,458
Jun 2021	10,780	4,201	5,581	8,409	1,432	2,429	1,236	901	40	35,009	8,965	67,568
Jul 2021	11,681	4,593	6,109	9,572	1,565	2,691	1,366	997	40	38,614	10,103	76,440
Aug 2021	11,528	4,543	6,024	9,255	1,561	2,637	1,307	975	40	37,870	9,847	74,193
Sep 2021	9,998	3,945	5,177	7,580	1,337	2,231	1,127	798	40	32,233	8,298	62,553
Oct 2021	9,753	3,897	5,057	6,908	1,264	2,028	1,047	773	40	30,767	7,580	58,459
Nov 2021	10,244	4,146	5,163	7,022	1,307	2,068	1,058	899	45	31,952	7,990	60,784
Dec 2021	11,826	4,730	5,805	7,963	1,492	2,382	1,180	1,141	60	36,579	9,532	70,347
	AEP	APS	ATSI	COMED	DAYTON	DEOK	DLCO	EKPC	OVEC	WESTERN	DOM	PJM RTO
Jan 2022	12,631	5,056	6,057	8,269	1,580	2,519	1,216	1,261	60	38,649	10,492	74,742
Feb 2022	10,879	4,416	5,362	7,218	1,373	2,176	1,073	1,029	60	33,586	8,817	64,563
Mar 2022	11,200	4,547	5,594	7,503	1,381	2,253	1,127	979	60	34,644	8,693	65,909
Apr 2022	9,665	3,887	4,931	6,736	1,195	1,975	1,011	770	45	30,215	7,447	57,097
May 2022	10,049	3,986	5,087	7,159	1,267	2,155	1,085	803	40	31,631	8,110	60,337
Jun 2022	10,970	4,298	5,612	8,425	1,435	2,473	1,245	918	40	35,416	9,188	68,427
Jul 2022	11,840	4,678	6,116	9,552	1,561	2,728	1,370	1,013	40	38,898	10,324	77,136
Aug 2022	11,774	4,662	6,086	9,315	1,573	2,692	1,321	995	40	38,458	10,111	75,403
Sep 2022	10,168	4,037	5,191	7,613	1,333	2,262	1,135	814	40	32,593	8,517	63,347
Oct 2022	9,933	3,996	5,076	6,943	1,262	2,059	1,055	790	40	31,154	7,802	59,296
Nov 2022	10,426	4,249	5,182	7,062	1,305	2,100	1,066	918	45	32,353	8,224	61,660
Dec 2022	11,969	4,816	5,809	7,988	1,486	2,410	1,186	1,163	60	36,887	9,746	71,047

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.

Table E-3

**MONTHLY NET ENERGY FORECAST (GWh) FOR
FE-EAST AND PLGRP**

	FE EAST	PLGRP
Jan 2020	5,089	4,122
Feb 2020	4,588	3,678
Mar 2020	4,551	3,562
Apr 2020	3,982	3,040
May 2020	4,132	3,036
Jun 2020	4,718	3,301
Jul 2020	5,504	3,770
Aug 2020	5,244	3,587
Sep 2020	4,363	3,151
Oct 2020	4,103	3,101
Nov 2020	4,181	3,314
Dec 2020	4,892	3,890

	FE EAST	PLGRP
Jan 2021	5,061	4,124
Feb 2021	4,442	3,584
Mar 2021	4,598	3,619
Apr 2021	4,004	3,073
May 2021	4,159	3,075
Jun 2021	4,741	3,353
Jul 2021	5,516	3,815
Aug 2021	5,288	3,656
Sep 2021	4,401	3,196
Oct 2021	4,122	3,132
Nov 2021	4,239	3,374
Dec 2021	4,925	3,926

	FE EAST	PLGRP
Jan 2022	5,111	4,173
Feb 2022	4,472	3,617
Mar 2022	4,636	3,655
Apr 2022	4,019	3,094
May 2022	4,206	3,120
Jun 2022	4,783	3,400
Jul 2022	5,544	3,853
Aug 2022	5,356	3,724
Sep 2022	4,447	3,237
Oct 2022	4,168	3,177
Nov 2022	4,288	3,418
Dec 2022	4,962	3,955

Notes:
All forecast values represent metered energy, after reductions for distributed solar generation and additions for plug-in electric vehicles.

Table F-1
PJM RTO HISTORICAL PEAKS
(MW)

SUMMER						
YEAR	NORMALIZED BASE	NORMALIZED COOLING	NORMALIZED TOTAL	UNRESTRICTED PEAK	PEAK DATE	TIME
1998				133,275	Tuesday, July 21, 1998	17:00
1999				141,491	Friday, July 30, 1999	17:00
2000				131,798	Wednesday, August 9, 2000	17:00
2001				150,924	Thursday, August 9, 2001	16:00
2002	92,747	52,408	145,155	150,826	Thursday, August 1, 2002	17:00
2003	93,710	54,444	148,153	145,227	Thursday, August 21, 2003	17:00
2004	95,225	55,350	150,576	139,279	Tuesday, August 3, 2004	17:00
2005	95,846	57,340	153,186	155,257	Tuesday, July 26, 2005	16:00
2006	95,311	58,919	154,230	166,929	Wednesday, August 2, 2006	17:00
2007	96,738	58,703	155,441	162,035	Wednesday, August 8, 2007	16:00
2008	97,213	57,816	155,029	150,622	Monday, June 9, 2008	17:00
2009	94,732	56,668	151,400	145,112	Monday, August 10, 2009	16:00
2010	93,191	58,825	152,016	157,247	Wednesday, July 7, 2010	17:00
2011	93,397	58,794	152,191	165,524	Thursday, July 21, 2011	17:00
2012	93,024	57,447	150,472	158,219	Tuesday, July 17, 2012	17:00
2013	92,558	57,425	149,984	159,149	Thursday, July 18, 2013	17:00
2014	91,934	57,703	149,637	141,509	Tuesday, June 17, 2014	18:00
2015	91,214	57,891	149,105	143,579	Tuesday, July 28, 2015	17:00
2016	89,900	59,137	149,036	152,069	Thursday, August 11, 2016	16:00
2017	88,999	60,063	149,062	145,434	Wednesday, July 19, 2017	18:00
2018	89,895	58,470	148,365	150,565	Tuesday, August 28, 2018	17:00
2019	89,624	57,683	147,307	151,302	Friday, July 19, 2019	18:00

Notes:
Normalized values for 2000 - 2019 are calculated by PJM staff using a methodology described in Manual 19.
Normalized base values are calculated by PJM staff using a two-period average of peak loads on non-heating/non-cooling days.
All times are shown in hour ending Eastern Prevailing Time and historic peak values reflect current membership of the PJM RTO.

Table F-1
PJM RTO HISTORICAL PEAKS
(MW)

WINTER						
YEAR	NORMALIZED BASE	NORMALIZED HEATING	NORMALIZED TOTAL	UNRESTRICTED PEAK	PEAK DATE	TIME
97/98				103,231	Wednesday, January 14, 1998	19:00
98/99				116,086	Tuesday, January 5, 1999	19:00
99/00				118,435	Thursday, January 27, 2000	20:00
00/01				118,046	Wednesday, December 20, 2000	19:00
01/02			125,735	112,217	Wednesday, January 2, 2002	19:00
02/03	92,667	32,358	125,025	129,965	Thursday, January 23, 2003	19:00
03/04	93,787	33,970	127,756	122,424	Friday, January 23, 2004	9:00
04/05	94,463	35,364	129,827	131,234	Monday, December 20, 2004	19:00
05/06	94,723	36,628	131,351	126,777	Wednesday, December 14, 2005	19:00
06/07	96,154	36,114	132,269	136,804	Monday, February 5, 2007	20:00
07/08	97,258	37,183	134,441	128,368	Wednesday, January 2, 2008	19:00
08/09	96,419	36,899	133,319	134,077	Friday, January 16, 2009	19:00
09/10	93,510	35,478	128,987	125,350	Monday, January 4, 2010	19:00
10/11	91,900	39,362	131,263	132,315	Tuesday, December 14, 2010	19:00
11/12	92,376	38,505	130,881	124,506	Tuesday, January 3, 2012	19:00
12/13	92,161	38,106	130,268	128,810	Tuesday, January 22, 2013	19:00
13/14	91,246	39,444	130,690	141,866	Tuesday, January 7, 2014	19:00
14/15	90,291	41,664	131,956	142,856	Friday, February 20, 2015	8:00
15/16	89,762	41,187	130,949	129,540	Tuesday, January 19, 2016	8:00
16/17	89,235	40,787	130,022	130,825	Thursday, December 15, 2016	19:00
17/18	89,248	41,452	130,700	137,212	Friday, January 5, 2018	19:00
18/19	88,375	44,260	132,635	137,618	Thursday, January 31, 2019	8:00

Notes:
 Normalized values for 2000 - 2019 are calculated by PJM staff using a methodology described in Manual 19.
 Normalized base values are calculated by PJM staff using a two-period average of peak loads on non-heating/non-coolong days.
 All times are shown in hour ending Eastern Prevailing Time and historic peak values reflect current membership of the PJM RTO.

Table F-2

**PJM RTO HISTORICAL NET ENERGY
(GWH)**

YEAR	ENERGY	GROWTH RATE
1998	718,248	2.4%
1999	740,056	3.0%
2000	756,211	2.2%
2001	754,516	-0.2%
2002	782,275	3.7%
2003	780,666	-0.2%
2004	796,702	2.1%
2005	823,342	3.3%
2006	802,984	-2.5%
2007	836,241	4.1%
2008	822,608	-1.6%
2009	781,270	-5.0%
2010	820,038	5.0%
2011	805,911	-1.7%
2012	791,768	-1.8%
2013	795,098	0.4%
2014	796,228	0.1%
2015	791,580	-0.6%
2016	791,176	-0.1%
2017	772,291	-2.4%
2018	804,916	4.2%

Note: All historic net energy values reflect the current membership of the PJM RTO.

Table F-3**WEATHER NORMALIZED LOAD (MW) FOR
EACH PJM ZONE, LOCATIONAL DELIVERABILITY AREA AND RTO**

	Summer 2019	Winter 2018/19
AE	2,539	1,560
BGE	6,477	5,846
DPL	3,959	3,714
JCPL	5,850	3,741
METED	2,975	2,714
PECO	8,439	6,864
PENLC	2,831	2,892
PEPCO	6,101	5,689
PL	6,980	7,316
PS	9,863	6,710
RECO	402	219
UGI	194	204
AEP	21,972	22,367
APS	8,655	8,943
ATSI	12,458	10,539
COMED	20,490	15,048
DAYTON	3,312	2,971
DEOK	5,267	4,561
DLCO	2,742	2,064
EKPC	1,968	2,735
OVEC	60	79
DOM	19,688	20,009
PJM MID-ATLANTIC	55,856	46,869
PJM WESTERN	75,552	67,905
PJM RTO	147,307	132,635

Notes:
Zonal Normal 2019 are non-coincident as estimated by PJM staff.
Locational Deliverability Area and PJM RTO Normal 2019 are coincident with their regional peak as estimated by PJM staff.