

Distributed Solar Generation

Load Analysis Subcommittee
November 30, 2015

- Back casting
- Zonal Forecast

- Back casted values were added to the unrestricted loads in order to exclude the impact of solar from the future load
- To calculate back casted values, the following was done:
 - GATS data was separated by zone, weather station, and online date
 - Weather stations are defined based on M19
 - Installed capacity from GATS was converted using solar insolation and cloud cover values corresponding to the applicable weather station.
 - Temperatures above 55 degrees had an efficiency degradation of 0.27%.
 - Those values then were converted to consider a 27 degree tilt and a DC to AC conversion based on the applicable weather station
 - These values were calculated on an hourly basis for every day since the first date of installation



IHS Forecast Values by Entire State – in Additions ICAP

IHS Distributed Solar Generation Forecast by Entire State Additions of Installed Capacity

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
DC	3.9	3.6	3.8	4.6	4.1	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1
DE	14.6	19.4	24.1	25.4	16.8	18.3	30.9	34.2	24.3	23.9	25.2	28.0	34.7	45.4	60.3	81.2
IL	59.1	35.4	24.0	23.8	23.6	38.5	47.7	47.1	50.8	52.0	51.6	51.2	50.7	50.3	53.4	57.8
IN	10.0	7.5	4.8	4.8	4.7	4.7	4.7	4.6	4.8	5.0	7.7	11.1	15.9	22.1	22.8	23.8
KY	3.4	1.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	11.3	14.8
MD	131.3	117.1	119.4	88.4	39.2	14.5	10.3	15.6	25.7	37.6	51.3	68.0	95.9	129.6	142.5	154.7
MI	9.0	5.8	6.1	7.9	10.2	13.3	17.3	22.5	28.8	37.5	48.9	63.8	83.4	96.3	108.9	124.3
NC	341.8	280.2	148.5	149.2	149.9	151.1	153.1	156.0	160.1	168.5	179.1	192.1	211.6	238.3	272.0	308.7
NJ	222.6	124.4	60.0	46.6	55.9	59.8	74.6	97.9	126.2	188.1	261.3	312.3	336.3	377.3	390.8	396.2
OH	10.9	35.6	39.6	39.2	38.9	43.1	44.3	44.8	48.3	49.2	48.8	17.7	8.9	9.9	12.7	16.0
PA	68.3	45.7	47.8	51.5	53.7	38.3	32.4	32.1	31.9	31.6	31.4	32.2	35.2	39.1	53.5	61.5
TN	9.9	9.9	9.8	9.7	17.6	19.5	19.3	19.2	19.0	18.9	18.7	18.6	18.4	26.3	28.1	27.8
VA	35.3	33.5	29.9	51.7	72.5	81.3	107.2	121.0	126.5	129.8	132.9	138.2	145.3	153.9	164.4	175.3
WV	1.1	3.9	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.6	4.6	4.6	4.5	8.3	14.3
Total	921.2	723.6	523.2	508.4	492.6	491.2	550.4	603.5	654.8	750.4	865.1	941.6	1,044.7	1,196.7	1,332.1	1,459.5

Percentage of State in the PJM Territory

State	Percentage of State in PJM Territory
DC	100%
DE	100%
IL	63%
IN	26%
KY	25%
MD	100%
MI	7%
NC	25%
NJ	94%
OH	100%
PA	100%
TN	0%
VA	100%
WV	100%



Forecast Values by PJM Territory of the State – in Additions ICAP

Distributed Solar Generation Forecast by State PJM Territory Only Annual Additions of Installed Capacity

PJM Territory of the State	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
DC	3.9	3.6	3.8	4.6	4.1	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1
DE	14.6	19.4	24.1	25.4	16.8	18.3	30.9	34.2	24.3	23.9	25.2	28.0	34.7	45.4	60.3	81.2
IL	37.2	22.3	15.1	15.0	14.9	24.2	30.0	29.7	32.0	32.8	32.5	32.2	32.0	31.7	33.7	36.4
IN	2.6	2.0	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.3	2.0	2.9	4.1	5.7	5.9	6.2
KY	0.9	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	2.8	3.7
MD	131.3	117.1	119.4	88.4	39.2	14.5	10.3	15.6	25.7	37.6	51.3	68.0	95.9	129.6	142.5	154.7
MI	0.6	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.0	2.6	3.4	4.5	5.8	6.7	7.6	8.7
NC	85.4	70.1	37.1	37.3	37.5	37.8	38.3	39.0	40.0	42.1	44.8	48.0	52.9	59.6	68.0	77.2
NJ	209.3	116.9	56.4	43.8	52.5	56.2	70.1	92.0	118.6	176.8	245.6	293.6	316.1	354.6	367.3	372.4
OH	10.9	35.6	39.6	39.2	38.9	43.1	44.3	44.8	48.3	49.2	48.8	17.7	8.9	9.9	12.7	16.0
PA	68.3	45.7	47.8	51.5	53.7	38.3	32.4	32.1	31.9	31.6	31.4	32.2	35.2	39.1	53.5	61.5
TN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VA	35.3	33.5	29.9	51.7	72.5	81.3	107.2	121.0	126.5	129.8	132.9	138.2	145.3	153.9	164.4	175.3
WV	1.1	3.9	5.0	4.9	4.9	4.8	4.8	4.8	4.7	4.7	4.6	4.6	4.6	4.5	8.3	14.3
Total	601.4	470.8	379.9	363.9	337.0	324.3	374.2	419.3	458.6	535.7	625.8	673.2	738.8	844.1	930.1	1,010.6

- The PJM territories of the state were converted to zone using the energy forecast
 - The energy forecast will be based on all the inputs for the final forecast and this portion will be updated accordingly as we continue to work towards a final forecast.
 - The energy forecast was converted to a state level value using EIA 826 to estimate utility sales by state for those transmission zones that span multiple states
 - Once the share of the zone to the state was calculated, that ratio was applied to the state level solar addition values.

Distributed Solar Generation Forecast by Zone Annual Additions of Installed Capacity

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	27.6	15.3	7.4	5.7	6.8	7.3	9.1	11.9	15.3	22.8	31.6	37.8	40.6	45.4	47.0	47.5
AEP	13.6	23.1	23.9	27.1	30.3	33.3	37.8	40.3	42.9	44.3	46.1	37.2	37.5	41.6	48.4	56.5
APS	27.3	23.6	24.5	22.2	17.3	12.5	12.2	13.4	14.9	16.5	18.3	20.7	25.0	30.2	35.9	41.4
ATSI	6.7	14.9	16.4	16.4	16.4	17.3	17.5	17.6	18.8	19.1	18.9	7.6	4.6	5.1	6.6	8.0
BGE	64.3	57.2	58.3	43.1	19.1	7.0	5.0	7.6	12.5	18.2	24.9	32.9	46.4	62.7	68.9	74.7
COMED	37.2	22.3	15.1	15.0	14.9	24.2	30.0	29.7	32.0	32.8	32.5	32.2	32.0	31.7	33.7	36.4
DAYTON	1.2	3.8	4.2	4.2	4.1	4.6	4.7	4.8	5.1	5.2	5.2	1.9	1.0	1.1	1.4	1.7
DEOK	1.8	5.6	6.2	6.1	6.1	6.8	7.0	7.0	7.6	7.7	7.7	2.8	1.4	1.6	2.2	2.8
DLCO	6.2	4.2	4.3	4.7	4.9	3.5	2.9	2.9	2.9	2.8	2.8	2.9	3.1	3.5	4.8	5.4
DOM	113.4	96.7	60.9	78.5	95.3	102.7	123.9	135.8	141.3	146.2	151.3	158.9	169.5	183.1	200.1	218.0
DPL	23.7	27.5	32.4	31.8	20.1	20.1	32.7	36.4	27.2	27.6	29.9	33.8	42.4	55.4	71.3	93.2
EKPC	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.6	2.1
JCPL	60.1	33.7	16.3	12.7	15.2	16.2	20.3	26.6	34.4	51.2	71.2	85.3	92.0	103.4	107.2	108.9
METED	6.8	4.5	4.8	5.2	5.4	3.8	3.2	3.2	3.2	3.2	3.2	3.3	3.6	4.0	5.5	6.3
PECO	17.7	11.8	12.4	13.4	13.9	9.9	8.4	8.4	8.3	8.2	8.2	8.4	9.2	10.2	14.0	16.1
PENLC	7.6	5.0	5.2	5.6	5.8	4.2	3.5	3.5	3.4	3.4	3.3	3.4	3.7	4.1	5.5	6.3
PEPCO	46.3	41.4	42.3	33.2	16.8	8.1	6.6	8.3	11.5	15.3	19.7	25.1	34.1	44.9	49.1	53.0
PL	17.5	11.7	12.2	13.2	13.8	9.8	8.3	8.2	8.2	8.1	8.0	8.2	9.0	10.0	13.7	15.7
PS	117.6	65.7	31.7	24.6	29.5	31.6	39.5	51.8	66.7	99.4	138.2	165.1	177.7	199.3	206.3	209.2
RECO	4.0	2.2	1.1	0.8	1.0	1.1	1.3	1.7	2.2	3.3	4.6	5.5	5.9	6.6	6.8	6.9
UGI	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4
PJM RTO	601.4	470.8	379.9	363.9	337.0	324.3	374.2	419.3	458.6	535.7	625.8	673.2	738.8	844.1	930.1	1,010.6

- Capacity Factors were calculated using the hourly back casted values divided by the AC value of the GATS installations
- Average of HE 17 in the months June, July, and August
- These were applied to the Zonal level Installed Capacity Additions

	Capacity Factor
AE	32%
AEP	36%
APS	13%
ATSI	31%
BGE	21%
COMED	26%
DAYTON	25%
DEOK	22%
DLCO	22%
DOM	23%
DPL	29%
EKPC	32%
JCPL	23%
METED	23%
PECO	19%
PENLC	32%
PEPCO	19%
PL	27%
PS	18%
RECO	18%
UGI	25%



Capacity Additions at Summer Peak (MW)

Distributed Solar Generation Forecast by Zone Annual Additions of Capacity at Peak 2016-2031

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	8.7	4.8	2.3	1.8	2.2	2.3	2.9	3.8	4.8	7.2	10.0	11.9	12.8	14.3	14.8	15.0
AEP	4.9	8.3	8.6	9.8	10.9	12.0	13.6	14.5	15.4	15.9	16.6	13.4	13.5	15.0	17.4	20.3
APS	3.7	3.2	3.3	3.0	2.3	1.7	1.6	1.8	2.0	2.2	2.5	2.8	3.4	4.1	4.8	5.6
ATSI	2.1	4.7	5.1	5.1	5.1	5.4	5.4	5.5	5.9	5.9	5.9	2.4	1.4	1.6	2.0	2.5
BGE	13.5	12.0	12.2	9.0	4.0	1.5	1.1	1.6	2.6	3.8	5.2	6.9	9.7	13.1	14.4	15.6
COMED	9.7	5.8	4.0	3.9	3.9	6.3	7.8	7.8	8.4	8.6	8.5	8.4	8.3	8.3	8.8	9.5
DAYTON	0.3	0.9	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.3	0.5	0.2	0.3	0.3	0.4
DEOK	0.4	1.2	1.4	1.4	1.3	1.5	1.5	1.5	1.7	1.7	1.7	0.6	0.3	0.3	0.5	0.6
DLCO	1.4	0.9	1.0	1.0	1.1	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	1.0	1.2
DOM	25.6	21.8	13.8	17.7	21.5	23.2	28.0	30.7	31.9	33.0	34.2	35.9	38.3	41.4	45.2	49.2
DPL	6.9	8.0	9.4	9.2	5.8	5.8	9.5	10.6	7.9	8.0	8.7	9.8	12.3	16.1	20.7	27.1
EKPC	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7
JCPL	13.6	7.6	3.7	2.9	3.4	3.7	4.6	6.0	7.8	11.6	16.1	19.3	20.8	23.4	24.3	24.7
METED	1.5	1.0	1.1	1.2	1.2	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.9	1.2	1.4
PECO	3.4	2.3	2.4	2.6	2.7	1.9	1.6	1.6	1.6	1.6	1.6	1.6	1.8	2.0	2.7	3.1
PENLC	2.5	1.6	1.7	1.8	1.9	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.8	2.0
PEPCO	8.7	7.8	8.0	6.2	3.2	1.5	1.2	1.6	2.2	2.9	3.7	4.7	6.4	8.4	9.2	10.0
PL	4.8	3.2	3.4	3.6	3.8	2.7	2.3	2.2	2.2	2.2	2.2	2.3	2.5	2.7	3.7	4.3
PS	21.0	11.7	5.6	4.4	5.3	5.6	7.0	9.2	11.9	17.7	24.6	29.5	31.7	35.5	36.8	37.3
RECO	0.7	0.4	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.0	1.2	1.2	1.2
UGI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
PJM RTO	133.6	107.5	88.1	85.9	80.9	79.5	92.2	102.4	110.5	126.9	146.0	153.5	167.3	190.8	211.7	232.0



Cumulative Capacity at Summer Peak (MW)

Distributed Solar Generation Forecast by Zone Cumulative Capacity at Peak 2016-2031

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	8.7	13.5	15.9	17.7	19.8	22.1	25.0	28.7	33.6	40.8	50.8	62.7	75.5	89.8	104.6	119.6
AEP	4.9	13.2	21.8	31.6	42.4	54.4	68.0	82.5	98.0	113.9	130.5	143.9	157.4	172.3	189.7	210.1
APS	3.7	6.8	10.1	13.1	15.4	17.1	18.7	20.5	22.5	24.7	27.2	30.0	33.3	37.4	42.2	47.8
ATSI	2.1	6.7	11.9	17.0	22.1	27.4	32.9	38.4	44.2	50.2	56.0	58.4	59.8	61.4	63.5	66.0
BGE	13.5	25.4	37.6	46.7	50.7	52.1	53.2	54.8	57.4	61.2	66.4	73.3	83.0	96.1	110.6	126.2
COMED	9.7	15.5	19.5	23.4	27.3	33.6	41.5	49.2	57.6	66.1	74.6	83.0	91.4	99.7	108.5	118.0
DAYTON	0.3	1.2	2.3	3.3	4.4	5.5	6.7	7.9	9.2	10.5	11.8	12.2	12.5	12.8	13.1	13.5
DEOK	0.4	1.6	3.0	4.3	5.7	7.2	8.7	10.2	11.9	13.6	15.3	15.9	16.2	16.6	17.1	17.7
DLCO	1.4	2.3	3.2	4.3	5.3	6.1	6.8	7.4	8.0	8.6	9.3	9.9	10.6	11.4	12.4	13.6
DOM	25.6	47.5	61.2	78.9	100.5	123.7	151.7	182.3	214.2	247.3	281.4	317.3	355.6	397.0	442.2	491.4
DPL	6.9	14.9	24.3	33.5	39.4	45.2	54.7	65.3	73.2	81.2	89.9	99.7	112.1	128.2	148.9	176.0
EKPC	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	1.1	1.7
JCPL	13.6	21.3	25.0	27.9	31.3	35.0	39.6	45.6	53.4	65.0	81.1	100.5	121.3	144.8	169.1	193.8
METED	1.5	2.6	3.7	4.8	6.0	6.9	7.7	8.4	9.1	9.8	10.6	11.3	12.1	13.0	14.3	15.7
PECO	3.4	5.7	8.1	10.6	13.3	15.2	16.8	18.4	20.0	21.6	23.2	24.8	26.6	28.5	31.2	34.3
PENLC	2.5	4.1	5.8	7.6	9.5	10.9	12.0	13.1	14.2	15.3	16.4	17.5	18.7	20.0	21.8	23.9
PEPCO	8.7	16.5	24.5	30.7	33.8	35.4	36.6	38.2	40.4	43.2	46.9	51.7	58.1	66.5	75.8	85.7
PL	4.8	8.0	11.3	15.0	18.7	21.4	23.7	25.9	28.1	30.4	32.6	34.8	37.3	40.0	43.8	48.1
PS	21.0	32.7	38.3	42.7	48.0	53.6	60.7	69.9	81.8	99.5	124.2	153.6	185.3	220.9	257.7	295.0
RECO	0.7	1.1	1.3	1.4	1.6	1.8	2.0	2.4	2.7	3.3	4.2	5.1	6.2	7.4	8.6	9.8
UGI	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1
PJM RTO	133.6	241.1	329.2	415.1	496.0	575.5	667.7	770.2	880.7	1,007.5	1,153.6	1,307.0	1,474.3	1,665.1	1,876.9	2,108.8

- One additional step is required in order to determine the total impact of distributed solar generation
- Since the historical distributed solar generation was added back in the form of back casted values, the impact of those still needs to be accounted for
- A degradation rate of -0.8% is applied for each year through the forecast period
- The table on the next slide shows how much of the historical distributed solar generation will be subtracted from each year in the forecast



Cumulative Capacity at Summer Peak (MW) of 2015 in future years

Distributed Solar Generation of Historical Values by Zone Cumulative Capacity at Peak

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	60.6	60.1	59.6	59.1	58.7	58.2	57.7	57.3	56.8	56.3	55.9	55.4	55.0	54.6	54.1	53.7
AEP	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.6
APS	5.6	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.0	5.0	5.0
ATSI	15.7	15.6	15.5	15.3	15.2	15.1	15.0	14.8	14.7	14.6	14.5	14.4	14.3	14.1	14.0	13.9
BGE	22.0	21.8	21.6	21.5	21.3	21.1	21.0	20.8	20.6	20.5	20.3	20.1	20.0	19.8	19.7	19.5
COMED	8.9	8.8	8.7	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.2	8.1	8.0	8.0	7.9	7.9
DAYTON	3.2	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8
DEOK	3.0	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.6
DLCO	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
DOM	24.8	24.6	24.4	24.2	24.0	23.8	23.6	23.4	23.2	23.0	22.8	22.7	22.5	22.3	22.1	22.0
DPL	32.7	32.5	32.2	32.0	31.7	31.5	31.2	31.0	30.7	30.5	30.2	30.0	29.7	29.5	29.3	29.0
EKPC	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
JCPL	86.4	85.8	85.1	84.4	83.7	83.0	82.4	81.7	81.1	80.4	79.8	79.1	78.5	77.9	77.3	76.6
METED	8.4	8.4	8.3	8.2	8.2	8.1	8.0	8.0	7.9	7.9	7.8	7.7	7.7	7.6	7.5	7.5
PECO	9.6	9.5	9.4	9.3	9.3	9.2	9.1	9.0	9.0	8.9	8.8	8.8	8.7	8.6	8.6	8.5
PENLC	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6
PEPCO	15.6	15.5	15.3	15.2	15.1	15.0	14.9	14.7	14.6	14.5	14.4	14.3	14.2	14.0	13.9	13.8
PL	23.7	23.5	23.3	23.2	23.0	22.8	22.6	22.4	22.2	22.1	21.9	21.7	21.5	21.4	21.2	21.0
PS	104.4	103.5	102.7	101.9	101.1	100.3	99.5	98.7	97.9	97.1	96.3	95.5	94.8	94.0	93.3	92.5
RECO	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
UGI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
PJM RTO	442.7	439.2	435.7	432.2	428.7	425.3	421.9	418.5	415.2	411.9	408.6	405.3	402.1	398.8	395.7	392.5

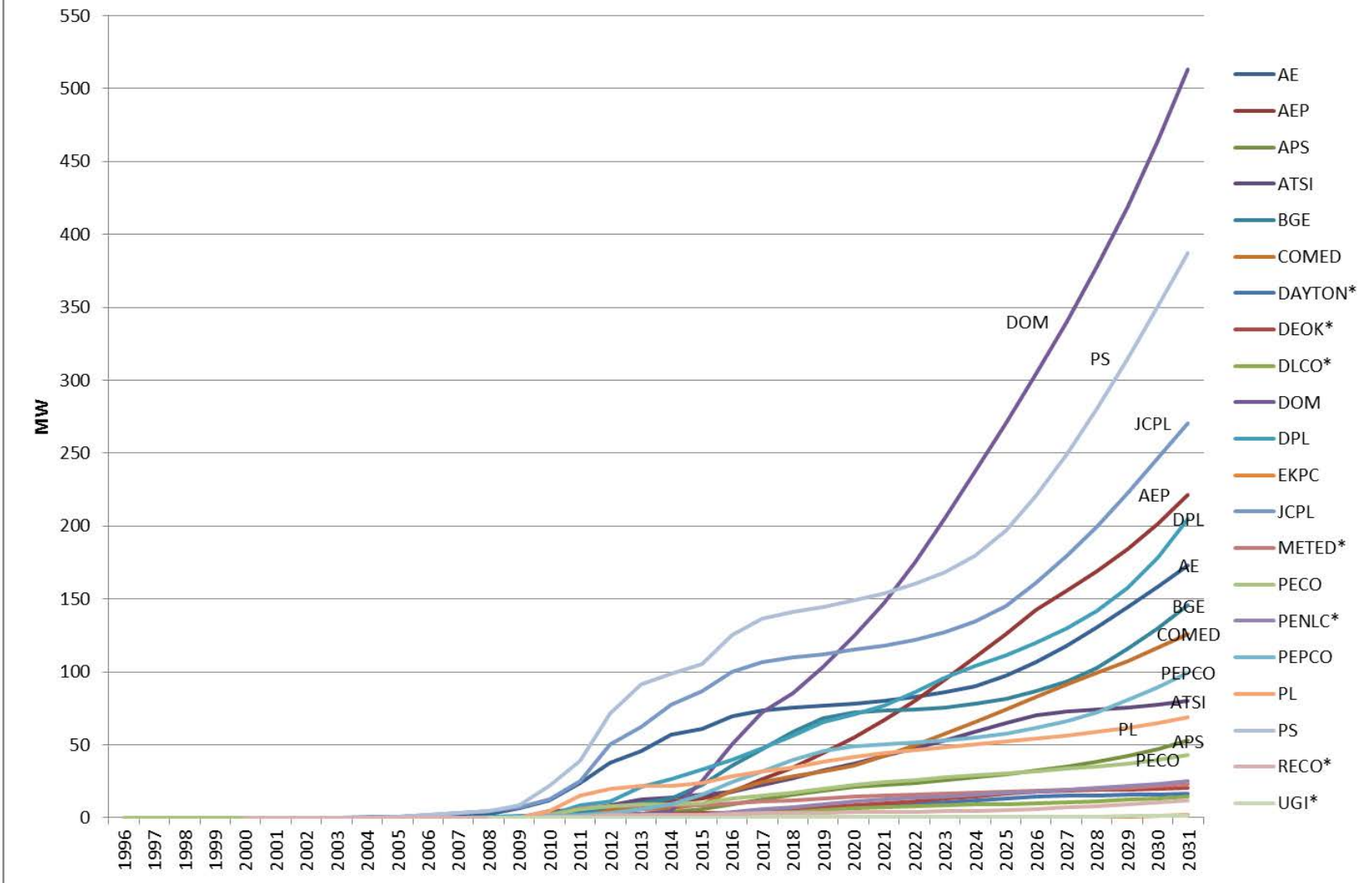


Capacity at Summer Peak Cumulative Impact (MW)

Distributed Solar Generation Forecast by Zone Cumulative Capacity at Peak

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	69.3	73.6	75.5	76.8	78.5	80.3	82.7	86.0	90.4	97.1	106.6	118.1	130.5	144.4	158.8	173.3
AEP	18.0	26.2	34.7	44.3	55.1	67.0	80.5	94.9	110.2	126.1	142.6	155.8	169.2	184.1	201.4	221.7
APS	9.3	12.4	15.6	18.6	20.8	22.5	24.1	25.8	27.8	30.0	32.4	35.1	38.4	42.4	47.2	52.7
ATSI	17.8	22.3	27.3	32.3	37.3	42.5	47.8	53.2	58.9	64.8	70.5	72.8	74.1	75.6	77.5	79.9
BGE	35.4	47.2	59.3	68.1	71.9	73.3	74.1	75.6	78.0	81.7	86.7	93.4	103.0	116.0	130.2	145.7
COMED	18.6	24.3	28.2	32.1	35.9	42.1	49.9	57.6	65.9	74.4	82.8	91.2	99.4	107.7	116.4	125.8
DAYTON	3.4	4.4	5.4	6.4	7.4	8.5	9.7	10.9	12.1	13.4	14.7	15.1	15.4	15.6	15.9	16.3
DEOK	3.4	4.6	5.9	7.2	8.5	10.0	11.5	13.0	14.7	16.4	18.1	18.6	18.9	19.3	19.7	20.3
DLCO	2.3	3.3	4.2	5.2	6.3	7.0	7.7	8.3	8.9	9.5	10.2	10.8	11.5	12.2	13.3	14.5
DOM	50.4	72.0	85.6	103.1	124.4	147.4	175.2	205.7	237.5	270.3	304.3	340.0	378.1	419.3	464.3	513.4
DPL	39.6	47.4	56.5	65.5	71.1	76.7	85.9	96.2	103.9	111.7	120.1	129.7	141.8	157.7	178.2	205.1
EKPC	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	1.1	1.8
JCPL	100.1	107.0	110.0	112.2	115.0	118.0	121.9	127.3	134.5	145.4	160.9	179.6	199.8	222.6	246.3	270.4
METED	10.0	10.9	12.0	13.1	14.2	15.0	15.7	16.4	17.0	17.7	18.4	19.0	19.8	20.6	21.8	23.2
PECO	13.0	15.2	17.5	20.0	22.6	24.4	26.0	27.5	29.0	30.5	32.0	33.6	35.3	37.2	39.8	42.8
PENLC	4.3	5.9	7.6	9.4	11.3	12.6	13.7	14.8	15.9	17.0	18.1	19.1	20.3	21.6	23.4	25.5
PEPCO	24.3	32.0	39.8	45.9	49.0	50.4	51.5	52.9	55.0	57.7	61.3	65.9	72.2	80.6	89.7	99.5
PL	28.5	31.5	34.7	38.1	41.7	44.2	46.3	48.3	50.4	52.4	54.4	56.5	58.8	61.4	65.0	69.1
PS	125.3	136.2	141.0	144.6	149.1	153.9	160.1	168.6	179.7	196.6	220.5	249.2	280.1	314.9	350.9	387.5
RECO	2.9	3.3	3.5	3.6	3.8	3.9	4.1	4.4	4.8	5.4	6.2	7.2	8.2	9.3	10.5	11.7
UGI	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.1	1.2
PJM RTO	576.3	680.3	764.9	847.3	924.7	1,000.8	1,089.7	1,188.7	1,295.9	1,419.4	1,562.1	1,712.3	1,876.4	2,064.0	2,272.5	2,501.3

Distributed Solar Generation Forecast by Zone Cumulative Capacity at Peak



* Cumulative zonal impact is less than 26 MW at summer peak

- Table B-8 will be reconfigured to display the distributed solar generation values
- These values will be subtracted from the load forecast and the values in B1 will reflect this change

Table B-8
DISTRIBUTED SOLAR ADJUSTMENTS TO SUMMER PEAK LOAD (MW) FOR
EACH PJM ZONE AND RTO
2016-2031

Zone	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
AE	69	74	75	77	78	80	83	86	90	97	107	118	130	144	159	173
BGE	35	47	59	68	72	73	74	76	78	82	87	93	103	116	130	146
DPL	40	47	57	65	71	77	86	96	104	112	120	130	142	158	178	205
JCPL	100	107	110	112	115	118	122	127	134	145	161	180	200	223	246	270
METED	10	11	12	13	14	15	16	16	17	18	18	19	20	21	22	23
PECO	13	15	17	20	23	24	26	27	29	31	32	34	35	37	40	43
PENLC	4	6	8	9	11	13	14	15	16	17	18	19	20	22	23	25
PEPCO	24	32	40	46	49	50	51	53	55	58	61	66	72	81	90	100
PL	28	32	35	38	42	44	46	48	50	52	54	57	59	61	65	69
PS	125	136	141	145	149	154	160	169	180	197	220	249	280	315	351	387
RECO	3	3	3	4	4	4	4	4	5	5	6	7	8	9	11	12
UGI	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
AEP	18	26	35	44	55	67	80	95	110	126	143	156	169	184	201	222
APS	9	12	16	19	21	22	24	26	28	30	32	35	38	42	47	53
ATSI	18	22	27	32	37	43	48	53	59	65	71	73	74	76	77	80
COMED	19	24	28	32	36	42	50	58	66	74	83	91	99	108	116	126
DAYTON	3	4	5	6	7	9	10	11	12	13	15	15	15	16	16	16
DEOK	3	5	6	7	9	10	12	13	15	16	18	19	19	19	20	20
DLCO	2	3	4	5	6	7	8	8	9	10	10	11	11	12	13	14
EKPC	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2
DOM	50	72	86	103	124	147	175	206	237	270	304	340	378	419	464	513
PJM RTO	576	680	765	847	925	1,001	1,090	1,189	1,296	1,419	1,562	1,712	1,876	2,064	2,273	2,501

Note: Adjustment values presented here are reflected in Tables B-1 through B-6 and Tables B-10 and B-11
Adjustments reflect the impact of historical distributed solar generation and forecasted distributed solar generation