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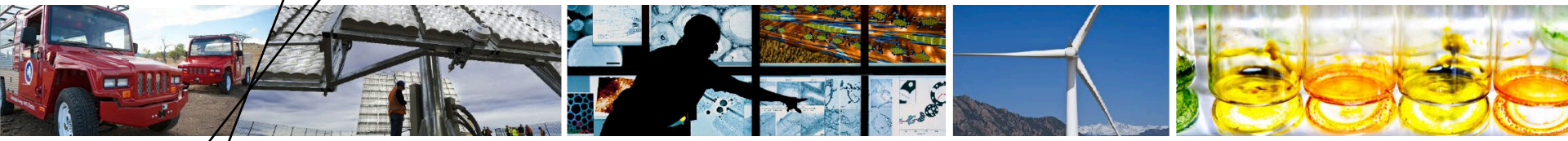
Distributed PV Adoption – Sensitivity to Market Factors



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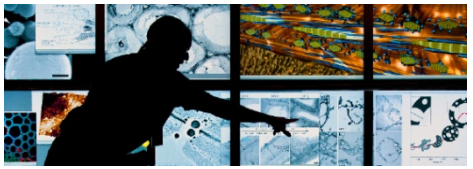
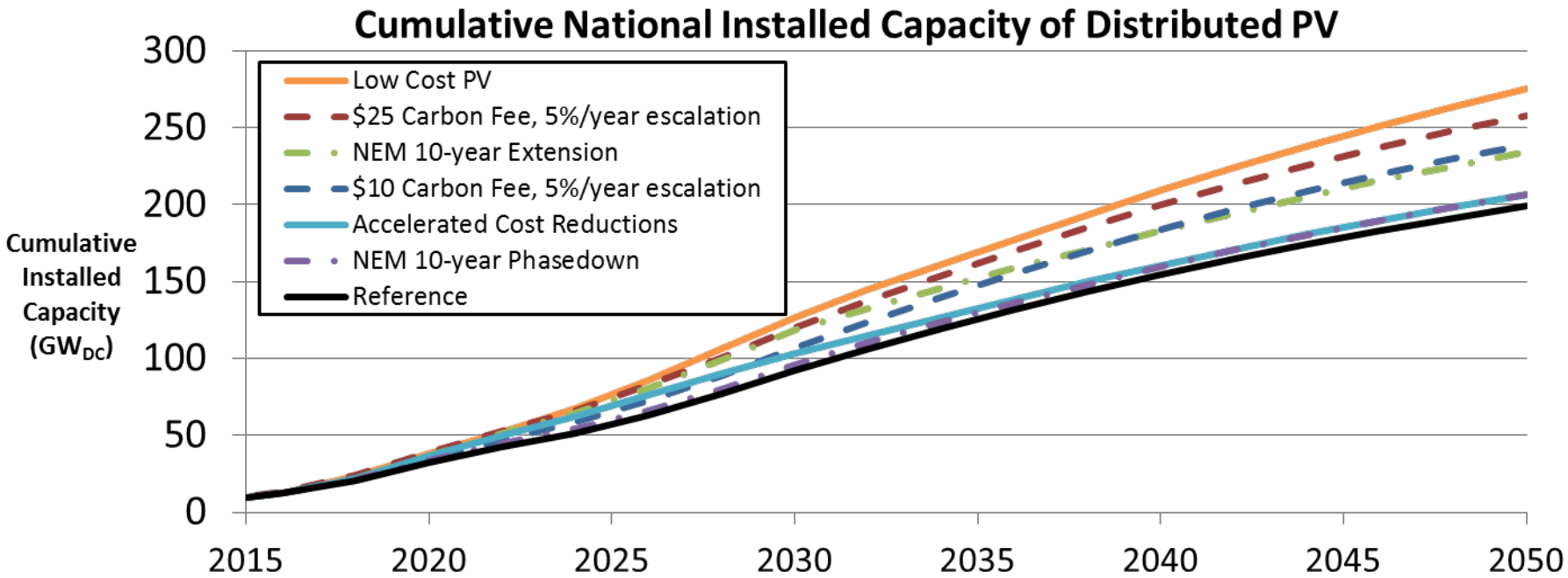


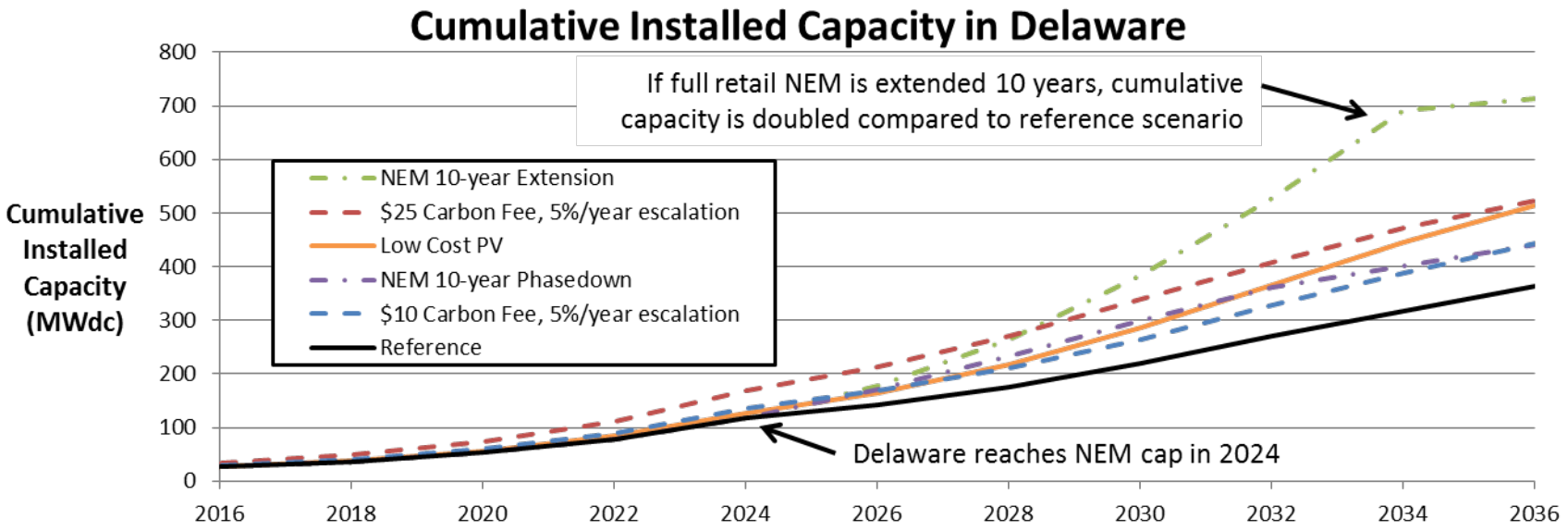
Executive Summary

Executive Summary (1/2)



- NREL's dSolar model was used to explore sensitivity of distributed PV (DGPV) deployment to three market factors—technology cost, future net metering policy, and a hypothetical carbon fee.
- Modeling PV costs at 25% less than the reference scenario from 2020 onward resulted in ~35% more cumulative capacity in 2036 as compared to the reference scenario. This low-cost trajectory is not a forecast, but rather illustrates the elasticity of installed capacity to decreased cost.
- The modeling results show that a high carbon fee ($25/ton with 5% annual escalation, representing either a direct tax or effective fee through other mechanisms) increased the average annually installed capacity of DGPV by ~30% over the reference scenario (which did not have a fee on carbon or assume implementation of the Clean Power Plan). As modeled, the fee spurs decarbonization in the bulk power system, which dampens the impact of the fee on DGPV deployment
- If each state that has a full retail net metering policy extends the policy 10 years past the point where DGPV capacity meets the caps stated under current (2016) policy, the result is approximately the same national cumulative capacity as the $25/ton fee on carbon. However, only looking at national capacity disguises the strength of the influence of full retail net metering on adoption in an individual state, as 24 states do not exceed or have not stated caps.

Executive Summary (2/2)



- The influence of full retail net energy metering (NEM) on DGPV adoption (green line) is more clear in this single state example, because the results are not diluted by states without NEM policies.
- The increase in total capacity by a NEM extension is driven not only by higher adoption rates, but also by larger system sizes. Once full retail NEM expires, excess generation is modeled to be credited at a wholesale electricity value—the lower credit for exported generation results in fewer installed systems that tend to be smaller in rated capacity.
- Through 2036, a $10/ton carbon fee with 5% annual escalation had a similar impact on installed capacity in our modeled results as a phasedown that decreased NEM credit from full retail to wholesale over 10 years after the state's cap is reached. However, the deployment in the carbon fee scenario exceeds that of the phasedown scenario in further years as the carbon fee persisted.

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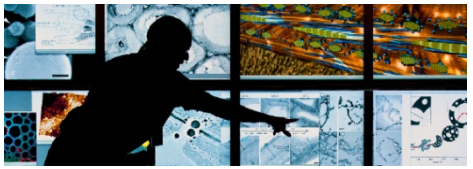

Background

Project Description

- NREL used the dSolar (distributed solar) model to model sensitivity of adoption of distributed, behind-the-meter PV through the year 2050 for 9 different scenarios.
- The scenarios varied in their assumptions about a fee on carbon, the future cost of PV systems, and what credit would be given for excess generation once current net metering policies expire.
- This slide deck presents a high-level overview of the model and modeling results. For complete documentation of the model, see *The Distributed Generation Market Demand Model (dGen): Documentation* (Sigrin et al., Feb. 2016).
- The project was funded by Environmental Entrepreneurs (E2).

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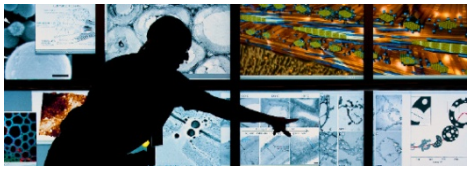


Model Description

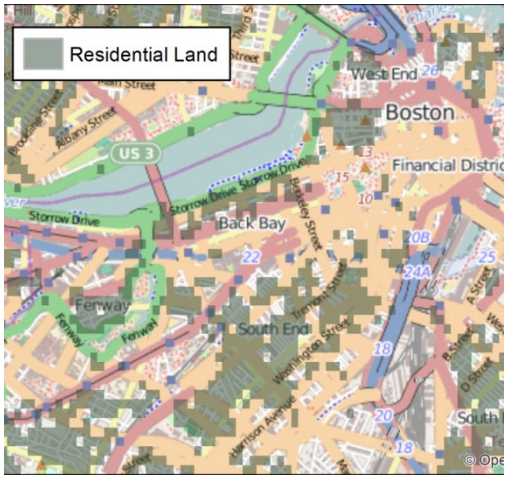
Distributed Solar Market Demand Model (dSolar)

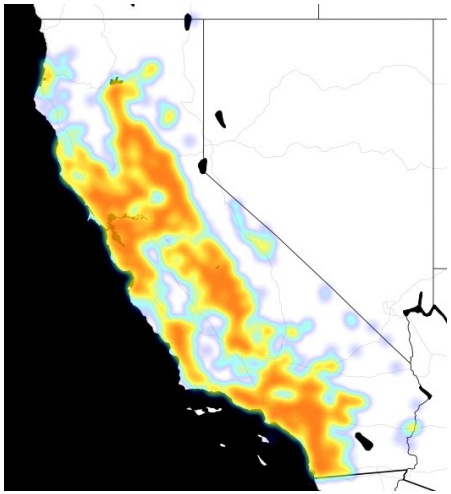
Model Overview:

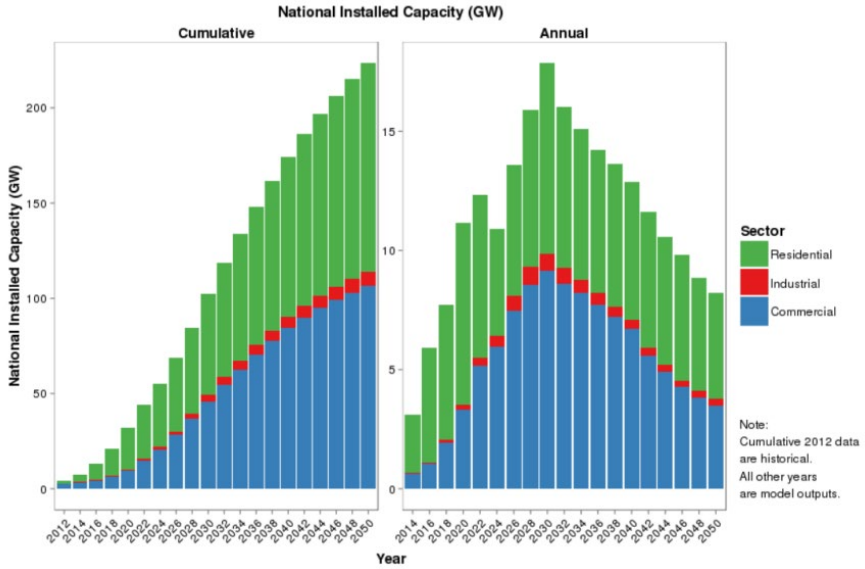
- The dGen family of models forecasts customer adoption of distributed generation technologies for residential, commercial, and industrial entities in the contiguous United States through 2050.
- dSolar is the distributed PV model within the dGen family
- High geographic resolution enables state, utility, or city-specific analysis with overlay of multiple spatial layers.
- Major Studies: Sunshot Vision, Renewable Electricity Futures, ITC extension analysis
- dSolar model documentation: *The Distributed Generation Market Demand Model (dGen): Documentation*, Sigrin et. al., 2016

Project Details:

- Capabilities – DER capacity forecast, interaction of high VG w/ rates, interconnection, & policy
- Engagement – DOE Solar, DOE Wind, utilities, state regulators, consulting firms
- Tools – Python/SQL/R, linked to ReEDS
- Data – Annual Technology Baseline, Wind and Solar datasets, URDB, DSIRE, EIA-AEO. All data in GIS framework
- Visualization: Automated scenario comparison report





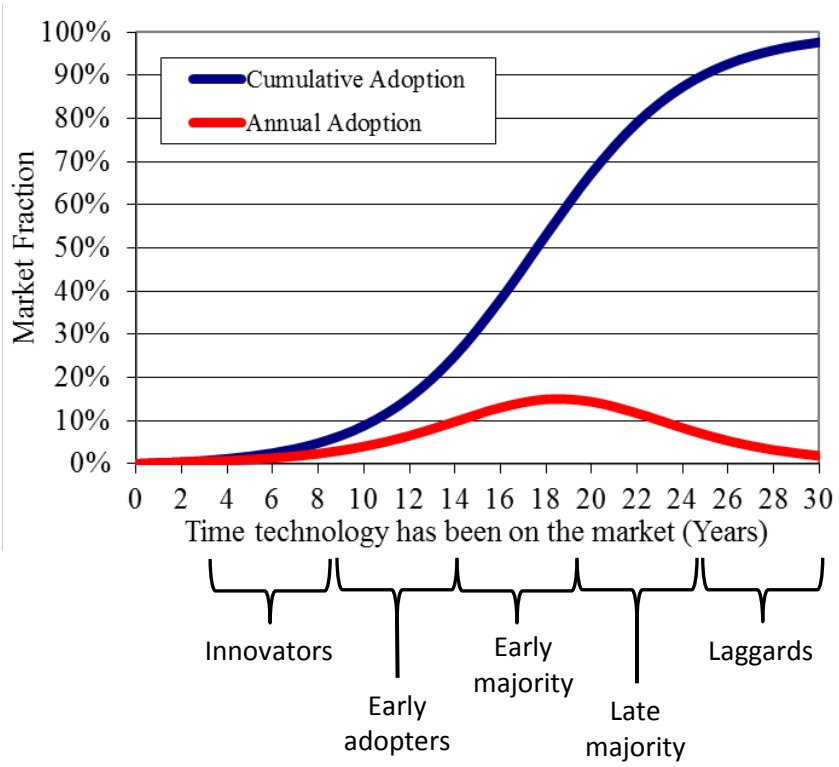


(Top Left): Evaluate adoption potential for each 200m² cell
(Top Right): Spatial focus permits regional predictions
(Bottom): Example national model output

dSolar Model Description

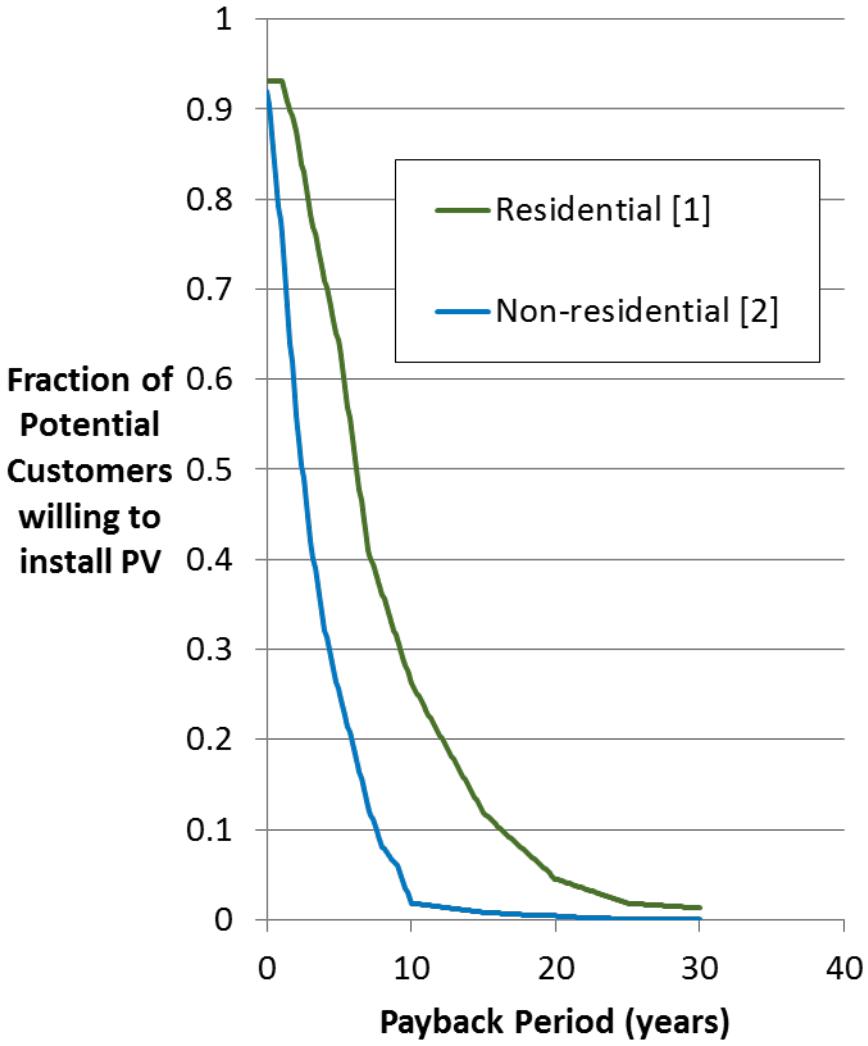
- dSolar forecasts the adoption of PV based on the Diffusion of Innovations framework popularized by Bass (1969) and Rogers (2003), rather than assume all potential PV customers are rational, profit-maximizing agents.
- The framework captures commonly observed trends of how new technologies diffuse into a population with an "S-curve," as seen in the figure to the right.
- The curves shown are representative of the diffusion concept, and are not the shapes used in this analysis.

Example Diffusion Trend



dSolar Model Description

- dSolar uses the curves shown to characterize the relationship between PV's economic attractiveness (payback period in years) and the fraction of a population that would be willing to purchase the technology.
  - *For example, with a 15-year payback, we predict 12% of possible residential customers and 1% of possible commercial and industrial customers would be willing to adopt solar PV.*
- These figures set the upper bound of the S-curve curve (in blue) of the previous slide. The model recalculates economic conditions for every 2 years in the forecast, and adjusts the shape of the curve (and therefore the rate of diffusion) accordingly.
- This method reflects the fact that system cost is the primary driver of PV adoption, while also capturing the non-economic considerations of customers.
  - *For example, even with long payback periods that would achieve lower rates of return than other potential investments, we would still expect a small percentage of possible customers to adopt PV. Conversely, even if the payback period is zero, we still would expect a small number of eligible customers to not adopt.*



[1] Generated by survey: *Diffusion into New Markets: Economic Returns Required by Households to Adopt Rooftop Photovoltaics* (Sigrin and Drury, 2014)
[2] Generated by payback modeling: *Rooftop Photovoltaics Market Penetration Scenarios* (Paidipati et al., 2008)

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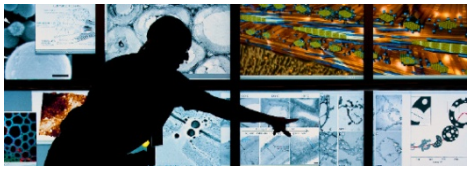

Modeling Assumptions

Reference Scenario Settings

Category	Description
Capital Costs	NREL Annual Technology Baseline "Mid" case[1]
Electricity Rates	National set of OpenEI Utility Rate Database[2] rates curated in late 2014
Retail Rate Escalation	Retail rates assumed to scale with the price of electricity for each sector in each census region, following AEO 2014 forecasts
Policy	State NEM, federal ITC, MACRS, and state incentives follow current law. State and local-based incentives expire in 2021 where unstated in statute.
Rooftop Availability	Adoption restricted to owner-occupied detached buildings, with constraints on rooftop size, orientation, and tilt from Gagnon et al. 2016
Financing	Residential: 15 yr, 5% APR loan; 80% debt fraction (modeled on PACE loan) Commercial and Industrial: 20 yr, 5.25% APR loan; 80% debt fraction (modeled on AA corporate bond)
Market Growth (Diffusion)	Growth based on Bass model "S" curve, where economics scale overall market size. Paidipati *et al.* (2008) and Sigrin & Drury (2014) market share curves used for commercial and residential customers. Bass parameters calibrated by historical data of PV adoption by state, where median time to 90% saturation is 41 years

1: http://www.nrel.gov/analysis/data_tech_baseline.html
2: http://en.openei.org/wiki/Utility_Rate_Database

Scenario Descriptions

These scenarios explore interaction of three drivers of DGPV adoption: Enactment of a fee on carbon, future technology costs, and credit for solar generation exported to grid (net metering).

Scenario	Carbon Fee	Technology Costs	Net Metering
Reference	None	ATB Mid Case (see slide 16)	Current law; Once caps are reached, excess generation credited at state wholesale electricity rates
$10 Carbon Fee	$10/ton in 2020, escalate 5%/year (real)	ATB Mid Case	Same as reference scenario
$25 Carbon Fee	$25/ton in 2020, escalate 5%/year (real)	ATB Mid Case	Same as reference scenario
Accelerated Cost Reduction	None	ATB Low Case (see slide 16)	Same as reference scenario
Accelerated Reduction and Fee	$10/ton in 2020, escalate 5%/year (real)	ATB Low Case	Same as reference scenario
Low Cost	None	Exceeds SunShot Targets (see slide 16)	Same as reference scenario
NEM_NoCredit	None	ATB Mid Case	Once cap are reached, no credit for excess generation
NEM_Extended	None	ATB Mid Case	Full retail credit is extended 10 years after caps are reached, credited at wholesale rate thereafter
NEM_Phasedown	None	ATB Mid Case	Credit declines from full retail credit to wholesale rate over 10 years after caps are reached, credited at wholesale thereafter

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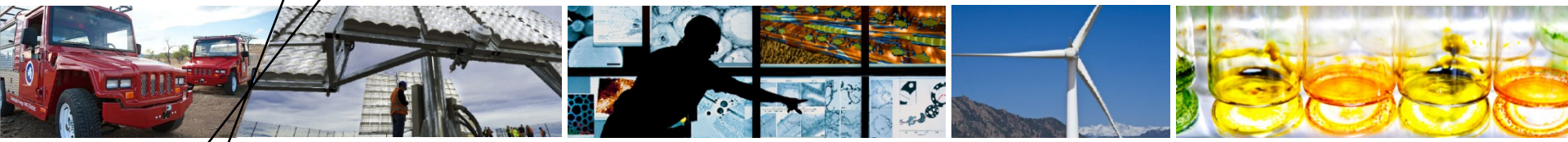
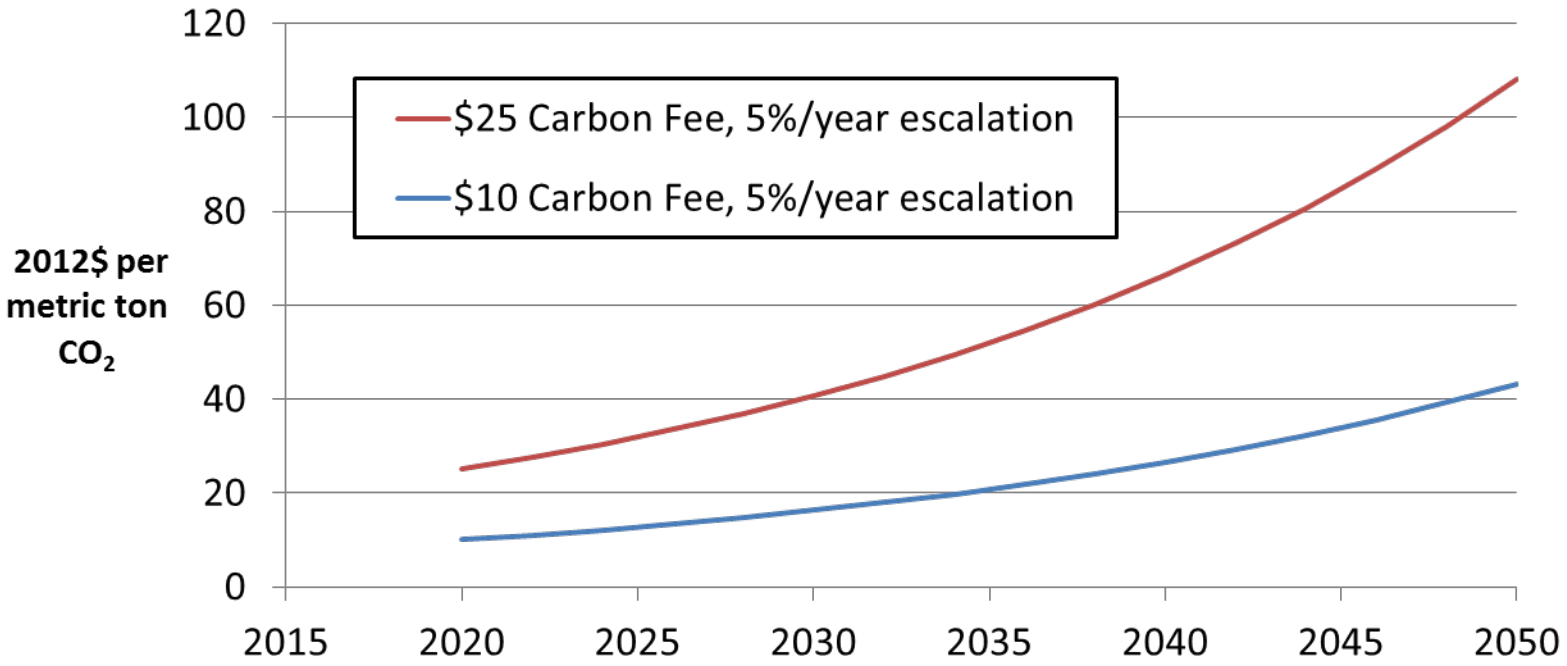


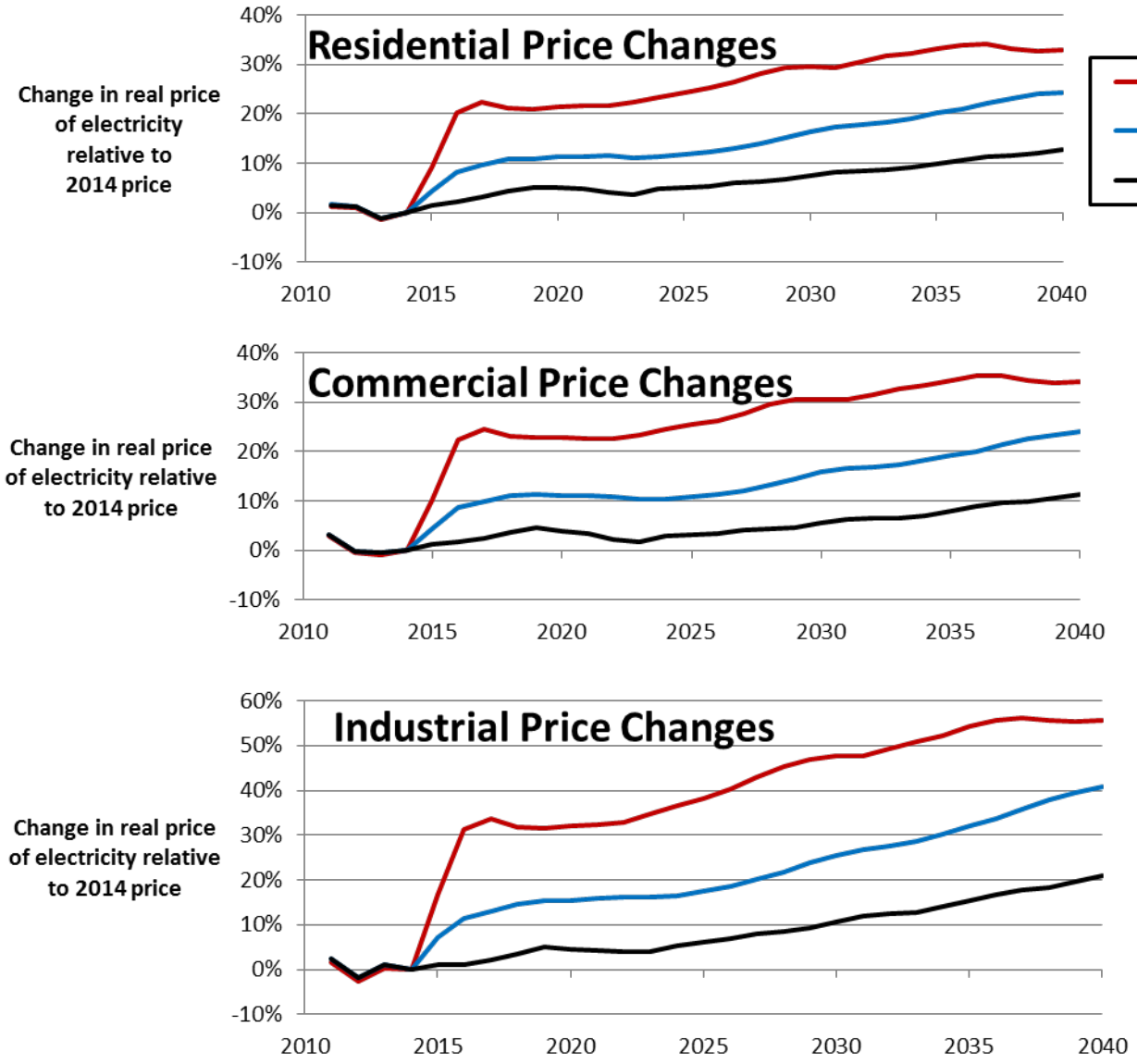
Results: Influence of a carbon fee policy on distributed PV adoption

Modeled Carbon Fee Trajectories



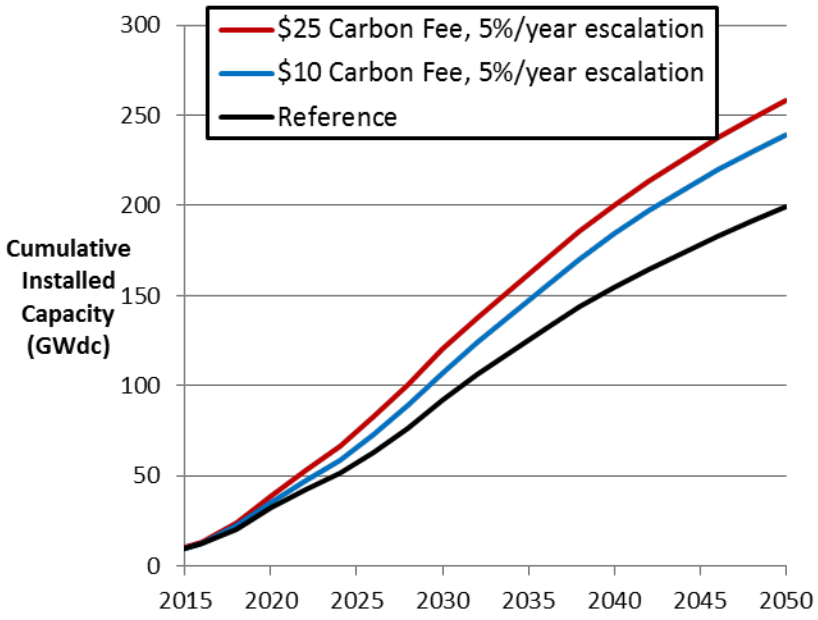
- We modeled two levels of a carbon fee based on the Energy Information Agency 2014 Annual Energy Outlook GHG10 and GHG25 scenarios.
- The scenarios assume that fees of $10/ton and $25/ton (in 2012 dollars) are implemented in 2020 and that the rates increase 5% annually.
- These trajectories are a generic representation of any fee on carbon, either in the form of a direct tax or other policy mechanisms.

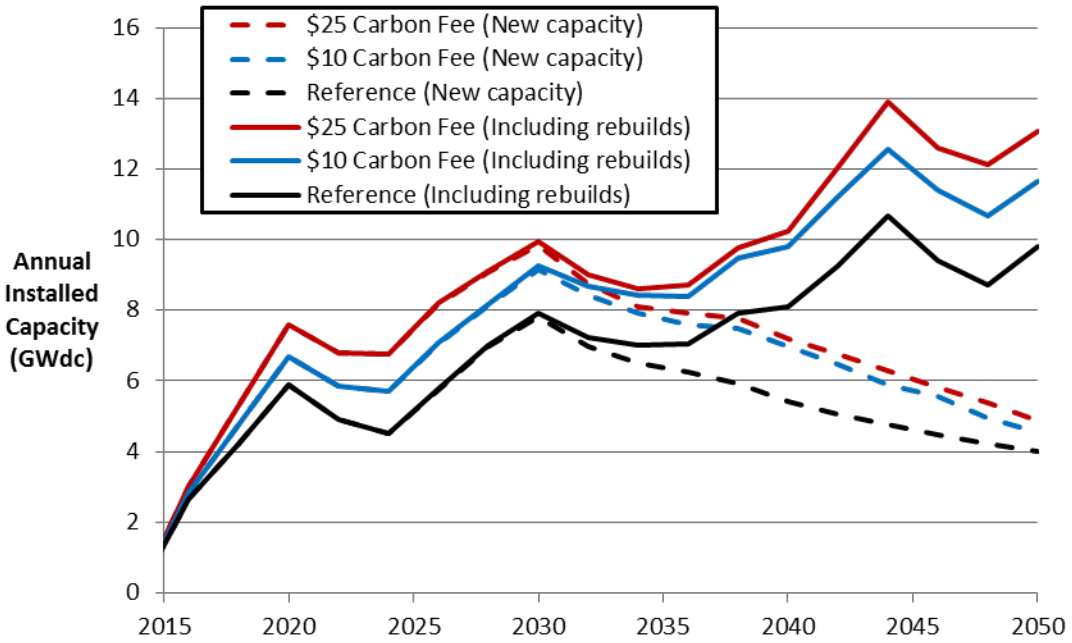
Modeled Retail Rate Escalations Under a Carbon Fee



- dSolar assumes that existing retail rate tariffs will scale with the modeled changes in price of electricity from the carbon fees.
- The price escalations were assumed to follow the forecasts given by EIA in the AEO 2014 Reference Scenario, GHG10 Scenario, and GHG25 Scenario. dSolar uses census-region price of electricity for each sector, but only the national values are shown here for visual clarity.
- Because the AEO trajectories were released in 2014, they do not include a representation of the Clean Power Plan. 2014 forecasts were used because the 2015 release did not include carbon fee scenarios.

Influence of Carbon Fee on National Installed Capacity





- The reference scenario, with no carbon fee, modeled 200 GW of distributed PV installed by 2050.
- The scenario starting with the $10/ton carbon fee modeled 239 GW of distributed PV installed by 2050, a 19.7% increase over the reference scenario.
- The scenario starting with the $25/ton carbon fee modeled 258 GW of distributed PV installed by 2050, a 29.3% increase over the reference scenario.
- dSolar assumes systems will be rebuilt at the end of their 25 year lifetime.
- In all scenarios, the annual installed capacity decreases from 2020 through 2024, as a result of the ITC phase down. After the ITC has phased out entirely, the annual installed capacity increases every year until 2030 as both PV prices drop and electricity prices increase. From 2030 onward the annual installation of *new* capacity steadily decreases – as PV prices remain constant and the rate of adoption in the best markets slows down – but rebuilt capacity starts to contribute significantly to the amount of annual installations.

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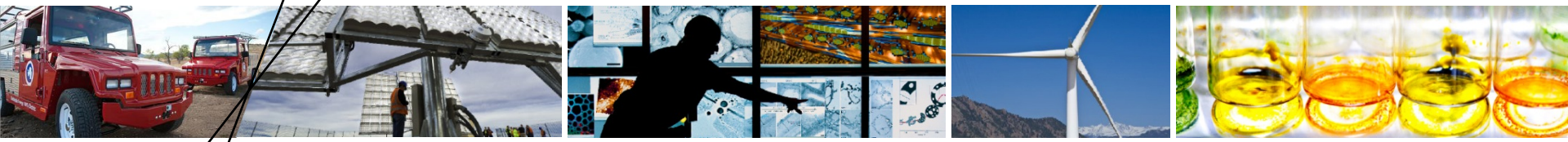
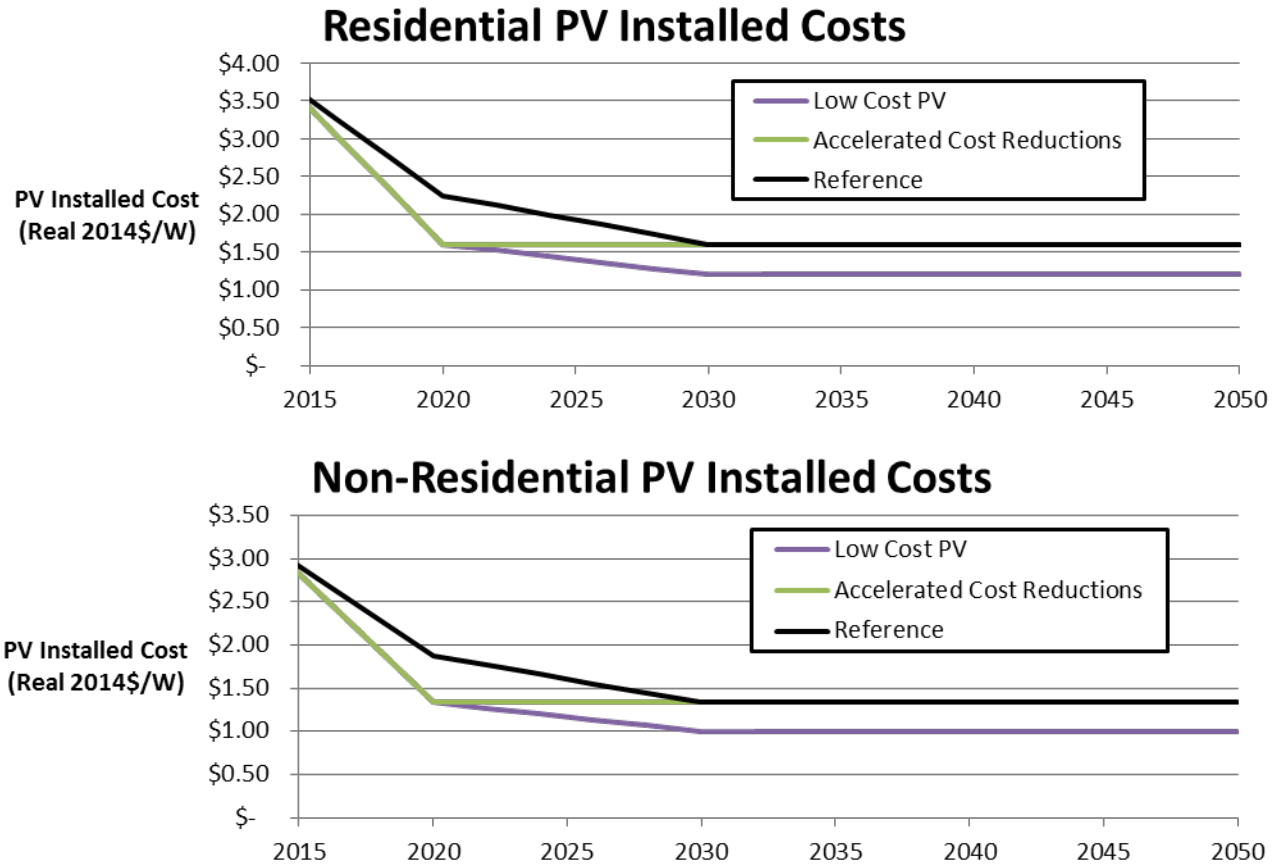


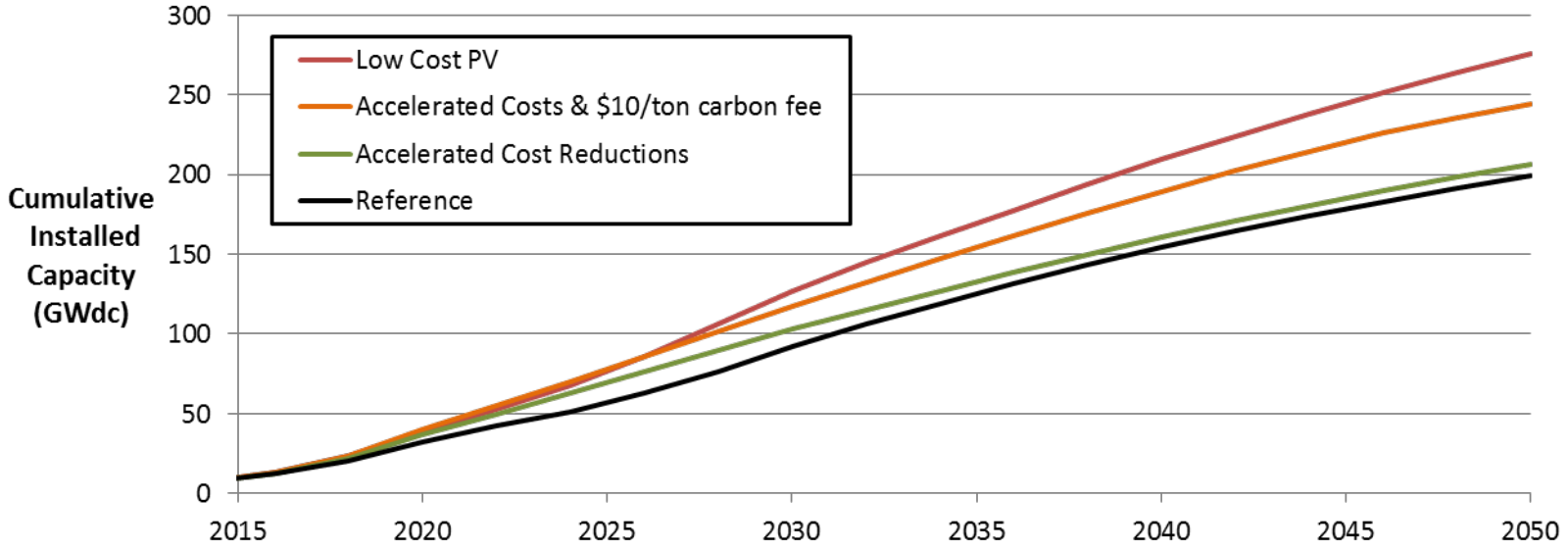
Results: Influence of lower PV prices on distributed PV adoption

Modeled PV Installed Price Trajectories



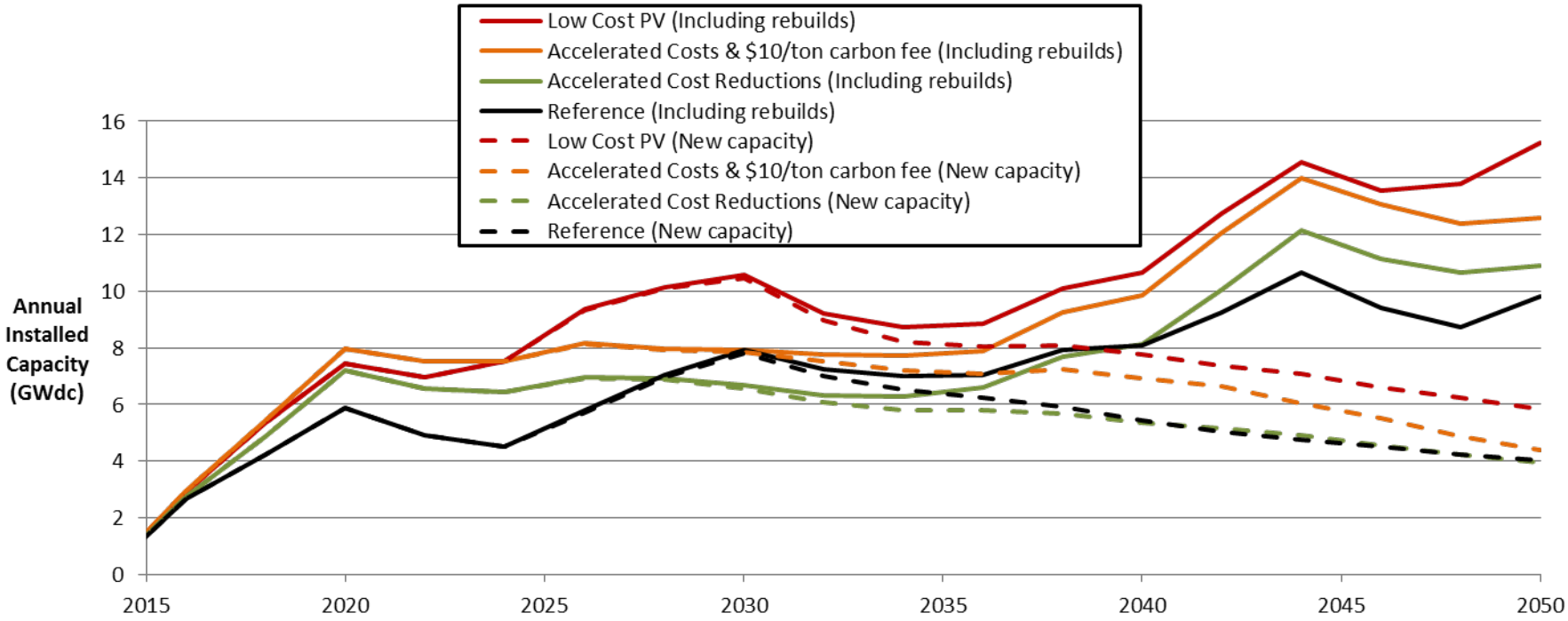
- PV installed cost trajectories are based on the 'Mid' and 'Low' projections from the 2015 Annual Technology Baseline (NREL 2016). The 'Low Cost PV' trajectory follows the 'Accelerated Cost Reduction' trajectory through 2020, but then assumes prices will continue to drop to 2014$ 1.00/W for non-residential and 2014$ 1.20/W for residential by 2030.
- The 'Low Cost PV' trajectory is intended to illustrate the magnitude of the influence of further decreased prices from the reference scenario, and is not a forecast of anticipated price decreases.
- The cost of PV in each state is adjusted by regional capital cost multipliers for utility scale PV plants (EIA 2013).

Influence of PV Price Reductions on Cumulative National Capacity



- Modeling PV costs at 25% less than the reference scenario from 2020 onward resulted in ~35% more cumulative capacity in 2036 as compared to the reference scenario. This low-cost trajectory is not a forecast, but rather illustrates the elasticity of installed capacity to decreased cost.
- The scenario with accelerated PV cost reductions modeled a 22% increase in cumulative capacity in 2024 compared to the reference scenario. However, because the accelerated cost and reference scenarios both reach the same price in 2030, the gap in cumulative installed capacity decreases in later years as the customers who delayed adoption in the reference scenario adopt in later years.
- Focusing only on the 2050 cumulative installed capacity ignores the substantial increase in distributed PV adoption through 2030 caused by the scenarios with accelerated cost reductions.

Influence of PV Price Reductions on Annual National Installations



- The amount of annual installed capacity in the 'accelerated cost reductions' scenario exceeds that of the reference scenario until 2028, at which point it drops below the annual installations of the reference scenario primarily due to approaching market saturation. In 2040 the amount of annually installed new capacity between the two converges, however the total annually installed capacity of the 'accelerated cost reductions' scenario exceeds the reference scenario due to higher numbers of rebuilds.
- The two scenarios with accelerated cost reductions have approximately constant annual installed capacity from 2020 through 2036, as increasing electricity prices balance out approaching saturation in the best markets.

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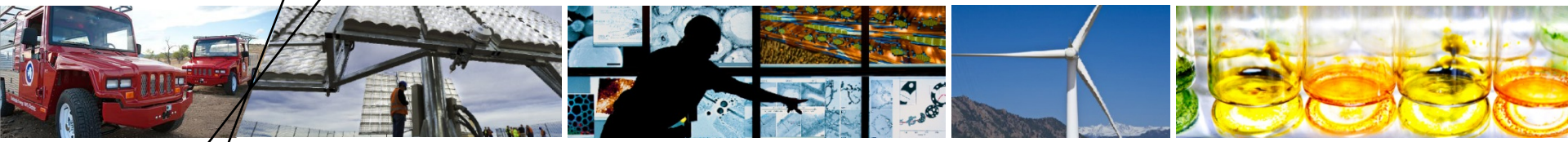
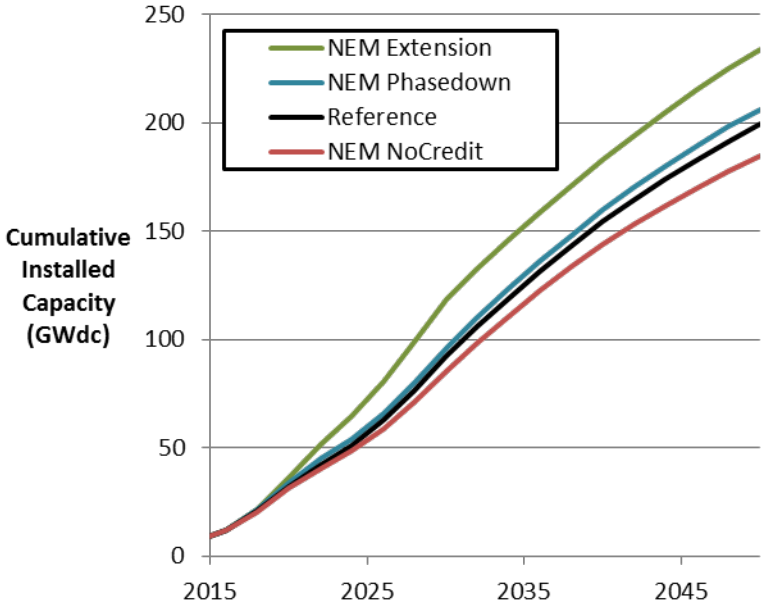


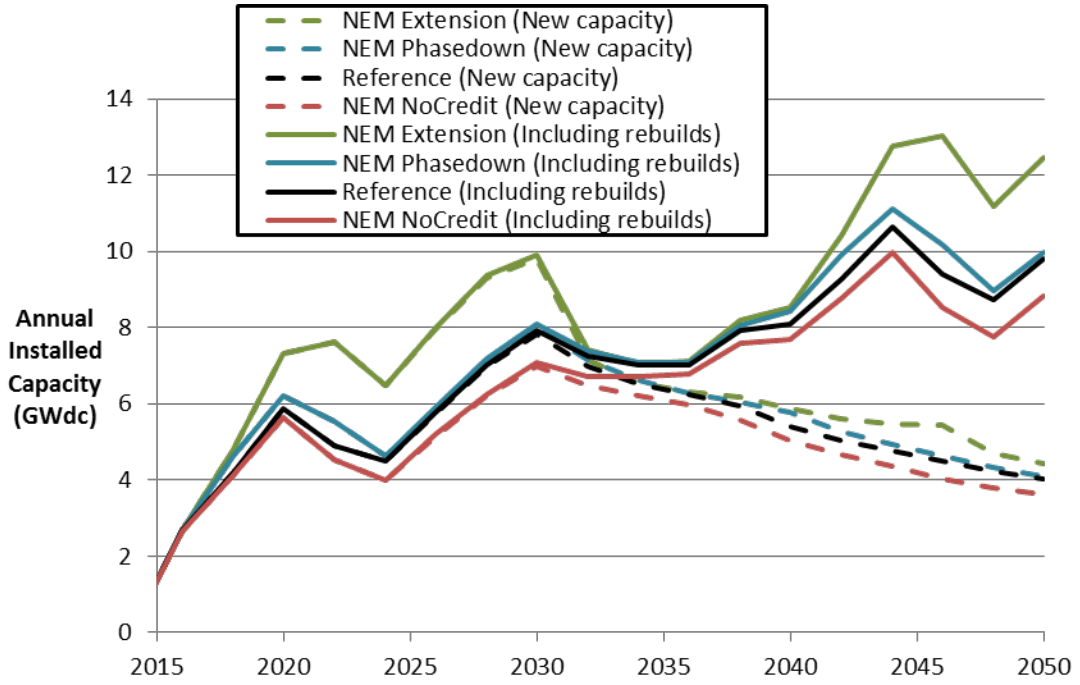
Results: Influence of net metering policy extensions on distributed PV adoption

Credit for Excess Generation

- We assumed that full retail net metering ends based on current [2016] state policies. The end year is either when a state reaches its specified aggregated capacity limit, or a date that has been set to reexamine the policy.
- We modeled four different scenarios of how excess generation may be credited after current net metering policies reach their caps.
  - The Reference Scenario assumes the policies will expire when they meet their caps and all excess generation will be valued at the state average wholesale rate after that point.
  - The “NEM No Credit” Scenario assumes the policies will expire when they meet their caps and there will be no credit for excess generation after that point.
  - The “NEM Extension” Scenario assumes the policies will be extended for 10 years at full retail rate after the caps are reached, and then decrease to the wholesale rate after that.
  - The “NEM Phasedown” Scenario assumes the policies will start to decrease after the caps are reached, declining such that credit for excess generation reaches the wholesale value after 10 years.

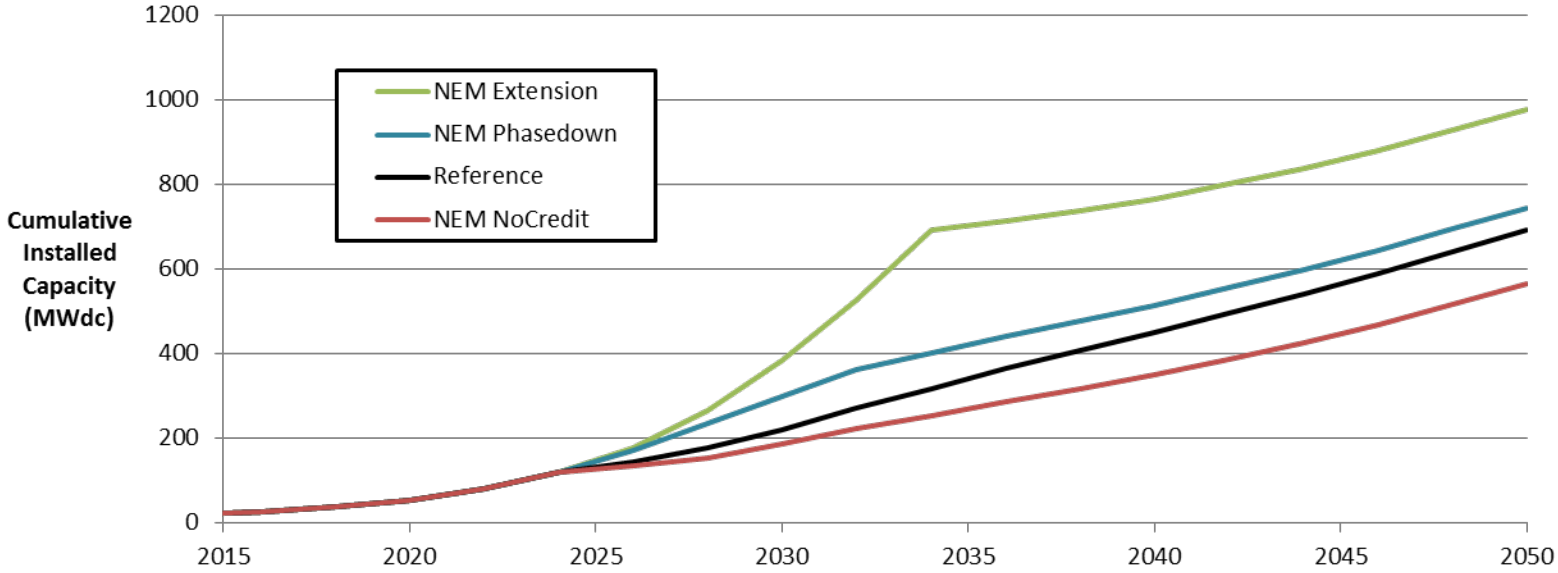
NEM Credit Influence on National Installed Capacity





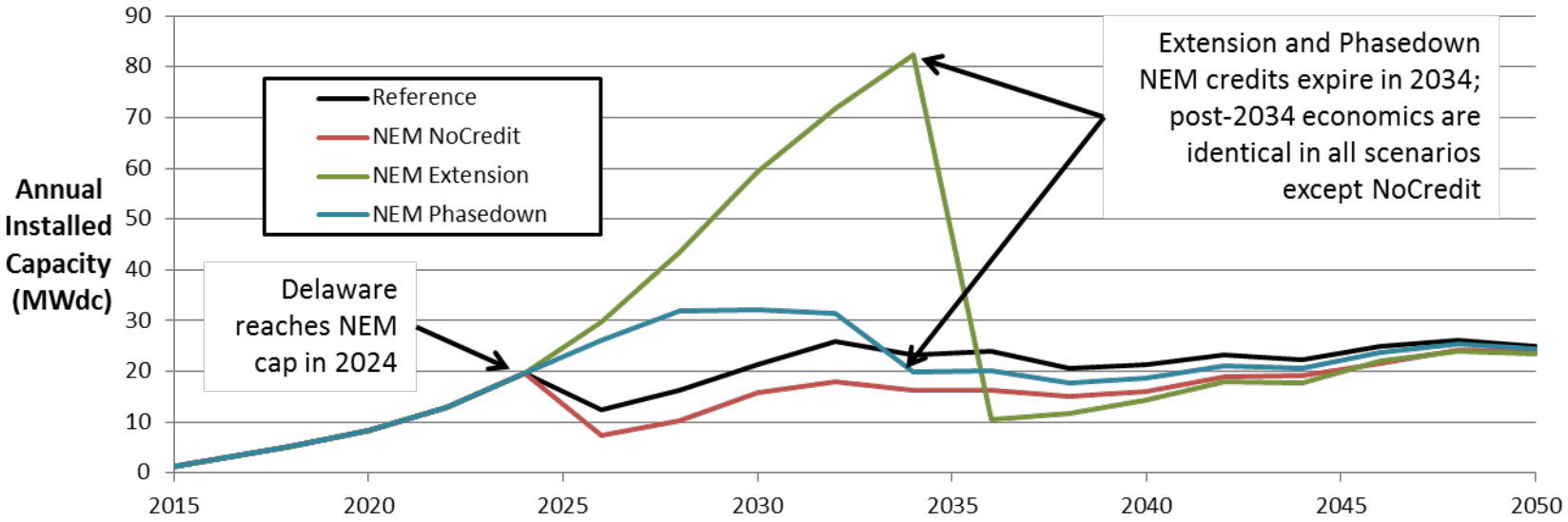
- The reference scenario modeled 200 GW of capacity installed by the end of 2030. The no credit scenario saw a 7% decrease, the fade scenario saw a 3% increase, and the 10 year extension saw a 17% increase.
- Because these results are national results through 2050, they should not be interpreted as gauging the strength of the connection between a net metering policy and the local economics (and therefore the rate of adoption) for a specific state. 18 states are not forecasted to reach or have not stated caps or deadlines for reevaluation, and 6 states did not have state-wide net metering policies or had compensation rules other than net metering as of February 2016 (DSIRE 2016).
- Aggregating these results shows the implication for national installed capacity under each scenario, but does not accurately represent the impact on a single state.

Influence of NEM Credit on State-level Installations: Delaware



- The cumulative installed capacity in Delaware is given as an example to better illustrate the impact of the credit given for excess generation on the rate of adoption.
- Delaware currently has a aggregate capacity limit for net metering of 5% of their electric supplier's aggregated customer monthly peak demand. While the aggregate capacity limit may be increased in the future, dSolar models current policy and it is assumed the policies expire when the cap is reached.
- dSolar estimates that Delaware will reach its net metering cap in 2024.
- The impact of the excess generation credit is greater for Delaware individually than it was for the nation at large. This illustrates the direct influence of various forms of excess generation credit on the location of interest better than aggregated national metrics, which diffuse the impact over a multi-decade window and include the inelasticity of states with no stated caps for their NEM policies.

Influence of NEM Credit on State-level Installations: Delaware



- In both the extension and the phasedown scenarios, the annual installed capacity exceeded that of the reference scenario. The full retail extension was particularly strong, as a result of dropping PV prices, rising electricity prices, and a maturing market.
- Both the extension and the phasedown scenarios modeled less annual installed capacity than the reference scenario in later years, due to a greater fraction of the total potential customers having already adopted under the favorable economics of the NEM policy extensions.

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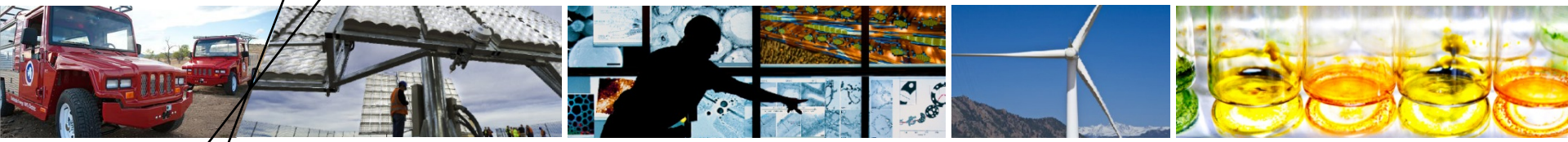

References and Appendix

References

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Modeled NEM Expiration Years

State	Modeled year of NEM expiration
AL	2014
AR	2050
AZ	2050
CA	2020
CO	2050
CT	2050
DC	2050
DE	2024
FL	2050
GA	2014
IA	2050
ID	2014
IL	2044
IN	2042
KS	2028
KY	2044

State	Modeled year of NEM expiration
LA	2020
MA	2016
MD	2022
ME	2020
MI	2036
MN	2050
MO	2020
MS	2038
MT	2050
NC	2050
ND	2050
NE	2036
NH	2028
NJ	2020
NM	2050
NV	2018

State	Modeled year of NEM expiration
NY	2018
OH	2050
OK	2050
OR	2014
PA	2050
RI	2032
SC	2036
SD	2014
TN	2014
TX	2014
UT	2038
VA	2040
VT	2022
WA	2018
WI	2050
WV	2050
WY	2050

This table presents the estimated dates at which each state-level NEM policy will expire (or is scheduled for reexamination, at which point dSolar assumes it will expire) under current policy, as represented in the dSolar model, rounding to the nearest two-year period. In states with complex policies the expiration was simplified to a single state-wide aggregated capacity limit. For example, New York nominally has an aggregated capacity limit for each utility of 6.0% of that utility's 2005 electric demand for the combined contribution of PV, on-farm biogas systems, micro-CHP, fuel cells, and micro-hydroelectric systems. Furthermore, a recent request by Orange and Rockland to cease offering net metering once their 6.0% cap was reached was denied by the NY Public Service Commission, until net metering is more completely addressed as part of NY REV. This complex situation was represented as a simple 6.0% state-wide aggregated capacity limit, only considering PV. Therefore, the results should be interpreted in light of such simplifications. Single-state analysis can allow for a deep dive that would more accurately forecast the estimated year at which a cap would be reached, but was not performed for this (primarily nationally focused) analysis.

PV System Design and Performance Assumptions

System Size	If full net metering is present, sized to provide 95% of annual consumption. If no net metering, sized to provide 50% of annual consumption. In phasedown scenario, system sizes ramp from 95% to 50% in parallel with NEM phasedown. In all scenarios, system size is constrained by available roof area.
Module Type	Multicrystalline silicon
Module Power Density	150 W/m^2 in 2014, linearly increasing to 220 W/m^2 by 2040 and constant after that
Tilt	Follows distribution of buildings characteristics observed in lidar data
Azimuth	Follows distribution of buildings characteristics observed in lidar data
Ground Coverage Ratio	0.7 for systems on flat roofs. For systems on tilted roofs, PV installed flush with roofs
Total System Losses	14.08%
Module Degradation	0.5%/year
Inverter Efficiency	95%
Inverter Lifetime	10 years until 2016, 20 years after that
DC to AC Ratio	1.4

Modeled Solar Investment Tax Credit (ITC) Values

Year	Residential	Commercial, Industrial, and Leased Systems
2015 -16	30%	30%
2017-18	30%	30%
2019-20	28%	30%
2021-22	11%	24%
2022 & beyond	0%	10%

- The model reflects the ITC phase-out as of 2016.
- Because the Commence Construction clause of the ITC allows the credit to be claimed if construction on a project had begun prior to the expiration date, dSolar allows the credit of the year prior to projection completion to be claimed for commercial and industrial installations.
- Because dSolar models market demand in 2-year periods, a simplified representation of the actual policy is required

Scenario 1 Reference Case - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6822.3	12157.8	20579.6	32354.1	42180.6	51193.1	62664.5	76609.9	92226.1	106204.5	119229.6	131696.3	143553.5	154395.4	164490.6	174029.8	183014.2	191460.8	199501.2
AL	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.6
AR	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.6	1.1	1.9	3.3	5.6	9.5	16.1	27.0	44.8	72.9	116.0	179.5
AZ	644.6	1304.4	2272.1	3854.3	5155.6	5836.9	6428.1	7033.3	7626.2	7932.5	8250.6	8478.2	8590.6	8656.8	8717.4	8794.5	8845.2	8876.9	8918.3
CA	3137.0	5548.0	9439.9	14129.4	15279.0	16616.7	18086.6	19911.9	21789.4	23385.8	24845.6	25917.7	26873.1	27611.3	28205.5	28660.1	29013.0	29274.3	29450.8
CO	178.0	213.8	301.1	505.7	827.5	1169.4	1646.3	2201.9	2830.5	3462.8	4012.1	4477.3	4877.9	5149.2	5366.2	5560.0	5705.6	5844.9	5945.5
CT	91.2	213.6	474.5	972.1	1563.8	1899.9	2182.9	2443.9	2677.7	2860.3	3055.3	3246.0	3423.9	3621.4	3787.8	3944.4	4126.3	4268.9	4416.2
DC	13.5	21.8	31.7	45.6	58.2	68.7	83.9	103.3	121.5	145.6	168.2	191.6	218.9	245.4	264.7	285.4	305.8	320.8	337.7
DE	20.7	26.1	36.7	53.4	79.2	118.5	143.3	176.0	218.8	270.4	316.8	364.7	406.1	448.6	495.2	539.6	589.2	641.7	691.7
FL	104.0	183.0	307.6	513.5	857.8	1396.1	2318.6	3747.7	5906.0	8841.9	12329.8	16095.7	19654.1	22897.4	25388.2	27265.0	28682.9	29780.2	30527.1
GA	39.2	69.9	149.3	332.6	741.3	1428.7	2301.7	3143.7	3801.7	4201.8	4421.6	4579.4	4709.8	4836.1	4938.5	5038.3	5121.5	5191.1	5254.3
IA	0.0	0.0	0.0	0.1	0.4	1.9	8.2	36.4	149.3	497.5	1036.9	1549.0	1988.8	2440.7	2893.6	3270.1	3539.7	3711.9	3826.0
ID	0.0	0.0	0.0	0.1	0.2	0.3	0.6	1.0	1.6	2.7	4.6	7.7	12.7	21.0	34.2	54.4	84.6	127.1	184.6
IL	12.4	15.5	19.8	24.3	30.7	37.6	47.9	65.2	89.4	123.4	173.0	244.6	345.1	487.4	680.7	938.8	1089.3	1283.8	1512.4
IN	0.1	0.3	0.6	1.2	2.1	3.2	5.0	7.8	12.0	18.6	28.7	44.9	70.7	113.9	186.7	240.2	317.0	414.7	542.9
KS	0.4	1.0	2.1	3.9	7.3	13.7	29.0	68.2	109.4	174.9	243.9	305.2	348.9	388.6	431.7	481.1	540.0	612.5	696.5
KY	0.0	0.1	0.2	0.4	0.7	1.2	2.0	3.3	5.4	8.9	14.6	23.9	38.9	62.8	100.4	158.5	245.6	367.5	524.0
LA	1.5	7.1	28.9	113.3	262.4	556.6	1050.3	1711.2	2361.8	2810.4	3156.6	3438.8	3648.5	3789.9	3921.9	4053.6	4178.0	4294.4	4414.5
MA	418.4	1168.2	1543.6	2127.4	2647.3	2921.5	3155.4	3330.7	3468.1	3525.4	3564.1	3578.2	3597.2	3608.7	3619.9	3634.0	3652.5	3663.5	3672.0
MD	132.6	250.0	568.7	1338.5	2288.8	2460.4	2706.2	3038.2	3416.0	3805.7	4036.7	4279.0	4473.6	4604.6	4677.7	4739.2	4779.7	4802.8	4825.5
ME	10.7	21.2	43.4	93.8	130.2	167.6	218.9	286.5	362.4	426.3	476.4	511.4	536.1	553.0	566.6	577.0	587.2	595.9	603.0
MI	0.7	1.6	3.0	4.8	7.8	12.4	19.3	29.7	45.6	69.7	105.6	160.0	213.6	295.6	410.1	576.3	795.0	1083.4	1457.1
MN	0.0	0.0	0.1	0.2	0.4	0.9	2.0	4.9	11.7	27.2	60.6	123.3	239.6	425.6	669.9	943.6	1242.2	1581.7	1955.0
MO	26.7	73.0	191.3	483.4	788.7	999.5	1179.4	1341.8	1508.4	1592.3	1636.9	1656.3	1665.0	1671.0	1680.6	1688.9	1698.8	1706.4	1715.1
MS	0.3	0.9	1.9	4.2	8.5	15.7	29.9	57.4	108.8	203.4	364.4	631.2	1024.7	1186.1	1369.0	1561.2	1715.3	1855.3	1950.7

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Scenario 1 Reference Case - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.4	1.0	1.8	2.9	4.2	5.6	7.5	9.9	13.0	17.0	21.8	28.0	35.9	45.8	58.3	73.9	93.2	117.0	145.8
NC	69.1	99.2	165.5	430.3	1082.0	1754.9	2921.6	4565.5	6595.2	8271.3	9465.8	10458.7	11192.1	11733.3	12058.8	12270.2	12440.1	12604.8	12791.6
ND	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8
NE	0.1	0.2	0.3	0.6	1.0	1.5	2.4	4.0	6.9	12.1	21.7	39.8	46.0	54.4	65.0	78.7	96.1	117.9	146.4
NH	0.8	1.9	3.9	7.5	13.1	24.6	44.1	80.7	127.3	201.1	309.8	451.5	604.0	742.5	849.8	931.1	995.0	1037.1	1069.9
NJ	970.5	1207.7	1612.1	2256.9	2521.0	2784.1	3087.9	3416.0	3675.0	3882.5	4028.3	4152.3	4247.2	4311.5	4365.1	4409.7	4445.9	4474.2	4509.2
NM	62.3	142.6	317.9	670.5	1127.9	1448.7	1776.7	2013.0	2248.5	2417.0	2518.3	2592.4	2644.9	2681.9	2720.2	2746.2	2765.5	2785.7	2802.3
NV	61.4	96.9	180.6	234.1	263.8	271.4	285.6	319.1	371.8	437.7	481.9	527.1	573.7	628.0	701.7	762.0	836.6	910.5	980.6
NY	281.8	720.6	1677.4	1916.8	2283.4	2511.1	2728.5	2900.2	3140.8	3274.2	3343.5	3383.6	3414.2	3451.0	3488.2	3520.5	3555.3	3593.2	3630.0
OH	46.7	49.9	55.2	64.8	78.4	95.9	122.5	165.6	233.4	339.7	502.3	751.5	1121.9	1659.5	2373.2	3256.1	4266.6	5333.0	6407.6
OK	0.1	0.2	0.5	1.4	2.9	5.5	10.5	20.8	40.7	78.7	149.5	277.3	497.0	857.9	1397.9	2077.5	2875.3	3704.6	4526.8
OR	78.6	99.6	123.1	166.1	230.8	316.6	437.2	588.5	764.0	933.6	1070.5	1172.9	1239.5	1277.1	1306.1	1321.1	1342.2	1357.8	1368.7
PA	202.6	232.5	272.7	323.2	388.1	468.2	566.8	692.0	849.1	1042.0	1272.9	1561.7	1892.6	2291.6	2753.4	3264.8	3850.6	4491.0	5183.4
RI	0.3	0.8	1.6	2.9	4.8	8.2	13.5	21.3	34.1	53.7	73.8	102.8	136.0	184.8	242.2	304.2	362.8	417.6	460.7
SC	0.0	0.0	0.1	0.2	0.5	1.3	3.6	9.7	26.1	70.0	181.8	446.6	807.2	1309.5	1867.3	2472.9	2970.2	3381.4	3668.2
SD	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.5	3.4	4.7	6.6	9.3	13.1	18.0
TN	43.5	54.2	70.7	86.9	111.6	146.2	196.4	268.4	369.4	509.0	681.9	894.2	1143.8	1425.5	1713.6	1980.9	2220.9	2417.3	2575.7
TX	94.3	203.4	487.2	1300.5	2906.2	5114.5	8177.0	11966.3	16009.4	18794.1	20785.5	22242.0	23453.1	24381.0	25180.8	25866.9	26591.3	27188.3	27770.6
UT	0.0	0.1	0.4	1.2	3.3	8.8	23.5	59.9	138.0	259.7	452.6	712.0	1026.7	1077.0	1120.6	1158.3	1191.4	1217.9	1243.7
VA	0.1	0.3	0.7	1.7	3.2	4.9	7.8	12.8	21.1	34.6	56.4	92.4	150.9	246.8	324.9	437.8	593.1	792.1	1031.5
VT	20.2	40.4	65.6	124.8	218.6	247.8	286.1	322.3	351.5	376.0	393.3	403.6	412.0	417.5	422.3	425.4	427.7	430.5	432.7
WA	34.7	54.2	78.0	88.5	94.7	98.8	103.6	109.8	117.8	126.7	138.1	153.4	171.9	192.7	217.4	246.6	278.2	310.9	343.3
WI	22.5	31.9	46.3	67.4	98.7	141.5	208.2	308.9	455.8	664.1	946.1	1305.5	1724.5	2225.2	2734.9	3246.7	3712.8	4123.3	4490.2
WV	0.1	0.3	0.6	1.2	1.7	2.1	2.7	3.5	4.6	6.1	7.9	10.1	12.9	16.5	21.1	26.7	33.9	42.7	53.7
WY	0.1	0.2	0.5	1.1	1.8	2.6	3.8	5.7	8.2	11.8	16.9	24.1	33.9	48.0	67.1	93.8	130.8	180.4	247.2

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Scenario 2 $10/ton Carbon Fee - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6977.7	12656.6	22168.6	35524.8	47210.0	58631.8	72717.5	88978.5	107271.2	124113.4	139940.3	155104.7	170076.3	184002.8	196925.6	208675.1	219767.4	229690.3	238798.3
AL	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.3	2.5	2.9	3.2
AR	0.0	0.0	0.0	0.1	0.3	0.5	0.8	1.5	2.6	4.5	7.6	13.0	21.9	36.3	60.8	100.8	164.6	263.8	412.2
AZ	702.0	1442.7	2585.7	4326.6	5590.1	6428.4	7084.0	7640.9	8279.8	8605.7	8921.9	9102.8	9200.2	9266.5	9309.0	9348.0	9388.7	9397.1	9415.2
CA	3137.0	5553.1	9458.0	14161.1	15334.9	16642.2	18082.0	19886.2	21686.3	23342.2	24845.3	25958.9	27033.6	27922.2	28675.2	29230.7	29683.8	29992.3	30175.2
CO	193.0	258.8	400.8	702.1	1133.9	1614.0	2223.5	2834.0	3540.8	4246.2	4840.1	5350.0	5787.8	6134.5	6401.2	6598.7	6755.9	6896.9	6977.8
CT	91.9	215.6	492.0	1007.8	1623.2	2023.4	2327.1	2580.6	2804.2	2977.2	3178.8	3356.6	3534.2	3733.1	3904.3	4053.7	4229.4	4378.0	4507.1
DC	13.8	22.8	31.9	46.3	61.4	74.9	91.4	114.3	136.2	157.4	184.3	212.1	238.6	263.8	284.3	306.1	328.3	344.0	362.0
DE	21.6	29.2	41.4	60.6	90.0	135.2	168.0	210.6	264.5	327.5	387.0	442.8	498.8	558.5	620.5	672.1	724.8	777.7	830.7
FL	104.2	183.4	312.2	520.3	873.1	1460.2	2407.4	3923.9	6244.8	9467.9	13339.6	17310.8	21358.9	25004.8	27866.7	30036.8	31749.6	32888.2	33770.2
GA	40.0	72.3	156.8	348.9	769.9	1465.5	2362.3	3227.4	3934.7	4454.8	4828.8	5149.5	5450.9	5765.4	6046.9	6308.1	6519.2	6686.0	6808.6
IA	0.0	0.0	0.0	0.1	0.5	2.3	10.0	43.7	177.5	591.4	1261.5	1947.1	2641.2	3398.2	4169.4	4680.6	5061.0	5308.9	5446.1
ID	0.0	0.0	0.1	0.2	0.4	0.6	1.0	1.7	2.8	4.8	8.0	13.3	22.1	36.8	59.8	95.1	148.8	224.9	329.5
IL	12.6	16.7	22.4	29.1	38.6	50.4	68.7	96.3	137.0	196.2	279.7	400.6	567.3	803.5	1119.3	1535.9	1807.8	2138.9	2517.0
IN	0.2	0.4	0.9	1.6	2.6	4.0	6.3	9.8	15.2	23.6	37.0	59.1	95.6	158.6	268.3	357.1	482.1	640.0	826.5
KS	0.6	1.5	2.8	5.4	10.0	19.9	44.4	108.9	187.8	318.7	456.0	567.3	655.3	717.4	778.9	841.6	906.2	977.3	1065.0
KY	0.1	0.1	0.3	0.5	0.9	1.5	2.5	4.1	6.8	11.1	18.0	29.2	46.8	75.1	119.2	186.0	283.7	424.2	611.6
LA	2.5	12.6	53.1	211.4	526.4	1091.2	1912.9	2813.5	3691.3	4306.6	4761.4	5077.5	5276.1	5400.4	5490.1	5523.2	5546.7	5568.4	5579.3
MA	419.8	1172.0	1669.4	2321.7	2846.0	3187.9	3400.0	3600.7	3749.8	3819.0	3872.5	3892.5	3908.3	3918.3	3925.0	3927.7	3929.6	3930.3	3930.6
MD	142.4	287.6	675.1	1591.2	2724.2	2916.1	3163.2	3495.0	3912.2	4329.0	4609.9	4886.5	5087.1	5252.5	5348.2	5427.6	5492.3	5525.8	5547.6
ME	10.6	21.6	48.3	109.0	147.0	188.4	248.8	328.3	422.3	502.0	562.2	606.2	635.0	653.6	664.6	672.7	676.7	679.0	680.7
MI	0.8	1.8	3.3	5.5	8.9	14.0	21.8	33.8	51.9	79.7	121.3	184.7	247.8	342.3	470.3	658.1	894.6	1191.3	1585.1
MN	0.0	0.0	0.1	0.3	0.8	1.8	4.2	10.2	24.2	56.2	124.8	252.3	478.4	817.8	1263.8	1804.9	2416.2	3092.6	3769.6
MO	32.7	103.4	321.9	887.4	1364.5	1533.8	1694.1	1878.2	2158.2	2400.8	2598.3	2720.7	2824.2	2901.2	2987.4	3030.4	3049.9	3057.6	3060.6
MS	0.4	1.0	2.2	5.1	10.6	20.7	40.0	77.7	148.4	278.5	506.0	887.6	1444.7	1662.3	1918.0	2172.8	2391.7	2587.9	2740.1

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Scenario 2 $10/ton Carbon Fee - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.7	1.4	2.4	3.7	5.4	7.2	9.7	12.8	16.9	22.2	28.8	37.7	48.3	63.1	82.2	106.9	138.4	178.8	228.7
NC	68.6	106.8	213.3	596.6	1529.4	2767.7	4701.7	7076.9	9866.9	12127.3	13770.8	15030.0	15919.3	16539.0	16883.6	17037.0	17110.9	17148.2	17165.1
ND	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6
NE	0.1	0.2	0.4	0.7	1.3	2.1	3.6	6.3	11.4	21.1	39.7	75.5	93.0	114.1	138.6	164.7	193.1	224.9	261.4
NH	0.8	1.9	3.9	7.6	13.7	25.8	47.1	86.2	131.6	205.9	318.1	445.8	607.7	760.1	885.6	982.5	1052.5	1103.5	1144.4
NJ	980.0	1234.5	1671.3	2399.1	2698.5	2964.1	3280.1	3619.5	3909.8	4175.2	4389.0	4565.9	4701.6	4800.3	4864.1	4915.9	4945.1	4962.8	4979.8
NM	66.1	155.7	366.9	778.7	1301.4	1697.0	2057.8	2288.2	2514.4	2656.0	2750.6	2826.0	2875.9	2911.8	2945.0	2963.6	2973.2	2982.2	2985.0
NV	68.7	116.6	244.8	339.6	379.4	392.8	422.9	502.0	621.5	697.4	784.4	853.7	952.1	1075.2	1155.4	1207.7	1264.5	1324.4	1393.9
NY	313.8	832.7	2022.9	2328.4	2752.5	2998.1	3218.9	3430.6	3747.8	3930.4	4028.3	4084.7	4166.3	4237.9	4293.0	4319.1	4345.3	4356.6	4363.3
OH	47.5	51.5	58.3	69.5	85.3	108.7	144.1	200.3	287.9	427.0	640.2	969.6	1458.7	2157.3	3084.7	4227.8	5474.9	6764.4	8014.5
OK	0.1	0.3	0.7	1.9	4.3	8.7	17.3	34.4	67.1	130.5	248.7	463.3	832.3	1438.0	2316.4	3449.6	4715.4	5899.9	6863.7
OR	78.8	100.9	124.6	168.5	234.3	322.2	444.4	602.1	787.1	972.0	1132.6	1258.6	1349.4	1419.9	1473.9	1502.9	1525.9	1540.0	1547.1
PA	205.9	237.9	280.2	334.6	402.5	488.3	593.5	729.0	896.4	1105.2	1355.5	1651.9	2007.8	2438.2	2946.1	3507.0	4146.7	4848.1	5603.2
RI	0.4	0.9	1.8	3.1	5.2	8.9	14.5	23.5	37.8	60.2	82.8	115.7	151.9	194.5	253.5	321.1	386.3	446.0	493.8
SC	0.0	0.0	0.1	0.2	0.6	1.6	4.3	11.6	31.3	84.0	218.9	538.4	975.7	1608.3	2338.7	3158.6	3881.5	4474.1	4881.3
SD	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.9	1.1	1.5	2.1	2.8	3.9	5.5	7.8	11.2	16.2	23.2	33.0
TN	43.7	54.5	71.8	88.7	113.6	150.7	205.3	286.7	411.3	577.1	796.1	1069.8	1391.2	1730.4	2046.4	2361.2	2664.6	2930.6	3142.6
TX	98.2	235.0	627.5	1761.7	4076.9	7259.7	11486.0	16215.9	21072.3	24612.5	27077.8	29172.8	30749.7	32001.0	32827.8	33269.5	33712.0	33943.9	34182.8
UT	0.1	0.2	0.6	1.8	5.0	13.5	35.9	92.1	215.7	439.2	756.5	1223.9	1786.4	1918.2	2022.6	2091.8	2135.8	2159.3	2170.6
VA	0.1	0.4	1.0	2.3	4.2	6.7	11.0	18.1	29.6	48.5	78.9	129.2	210.3	343.6	470.4	657.7	919.5	1263.9	1679.4
VT	20.3	40.5	68.9	132.0	231.4	267.9	307.7	346.7	377.6	403.9	423.8	436.4	445.0	452.2	457.3	460.6	463.1	464.7	466.0
WA	34.8	54.4	78.8	89.7	96.7	101.2	106.8	115.1	126.1	139.7	157.6	182.0	213.3	253.8	303.7	361.3	425.2	491.7	556.9
WI	22.8	32.6	47.7	70.5	104.5	154.2	229.9	343.8	510.2	747.4	1069.9	1496.1	2008.7	2617.6	3241.8	3843.6	4394.7	4848.2	5239.5
WV	0.2	0.5	0.8	1.5	2.3	2.9	3.7	5.1	7.0	9.5	12.8	16.9	22.2	29.0	37.7	48.6	62.4	79.6	100.7
WY	0.1	0.4	0.8	1.6	2.7	3.9	5.7	8.4	12.1	17.4	24.7	35.0	48.8	68.2	95.5	132.8	184.9	256.1	348.8

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Scenario 3 $25/ton Carbon Fee - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	7147.0	13221.7	23873.1	39050.1	52656.9	66149.4	82478.0	100615.8	120319.1	137814.4	154036.4	169902.9	185429.4	199820.6	213304.7	225904.8	237514.8	248249.3	257984.0
AL	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.7	3.1	3.6	4.2
AR	0.0	0.0	0.1	0.2	0.4	0.7	1.2	2.1	3.7	6.4	10.9	18.5	31.2	52.4	87.5	144.0	234.2	372.4	580.2
AZ	736.2	1559.9	2881.4	4745.3	5972.4	6598.3	7335.1	7774.4	8419.5	8759.8	9075.9	9205.5	9265.4	9304.2	9362.1	9407.5	9443.8	9458.1	9476.0
CA	3166.8	5627.6	9589.5	14382.8	15614.1	16962.8	18428.7	20195.4	22003.6	23584.6	25113.8	26173.8	27121.4	28034.5	28823.3	29398.6	29883.3	30242.0	30444.3
CO	214.3	314.9	517.3	912.3	1454.3	2011.8	2680.9	3361.6	4041.0	4688.7	5237.6	5667.4	6048.4	6352.5	6583.7	6747.7	6877.0	7000.0	7064.4
CT	92.0	216.0	489.7	1021.3	1673.4	2117.3	2435.1	2671.9	2870.9	3028.7	3214.6	3385.4	3561.0	3755.4	3929.4	4079.1	4255.5	4407.8	4537.8
DC	14.8	24.8	35.6	51.5	67.4	83.8	103.3	128.5	153.9	178.2	203.1	231.9	258.1	282.7	301.6	322.2	342.4	355.9	371.3
DE	24.3	34.0	49.3	73.9	111.6	169.6	213.4	270.3	338.7	409.0	473.3	522.2	575.3	631.9	694.6	749.3	802.2	858.9	911.2
FL	104.4	184.0	316.6	529.6	888.7	1497.0	2487.0	4120.8	6613.6	10070.9	14276.7	18653.1	22910.0	26585.0	29401.5	31535.6	33046.9	34131.0	34971.1
GA	40.6	74.9	165.3	377.4	828.4	1596.9	2541.7	3468.3	4182.6	4766.8	5223.3	5645.3	6036.4	6409.7	6729.9	7008.0	7222.5	7384.9	7506.1
IA	0.0	0.0	0.0	0.1	0.6	2.8	12.2	52.9	213.9	706.7	1499.2	2353.1	3225.3	4205.1	5057.7	5570.4	5857.5	6056.4	6171.0
ID	0.0	0.1	0.1	0.3	0.5	0.8	1.4	2.5	4.1	7.0	11.6	19.2	31.7	52.4	84.8	134.6	208.9	311.1	447.8
IL	13.7	18.4	25.1	34.0	46.3	62.9	87.3	124.7	177.8	254.3	361.4	514.2	719.7	1005.8	1387.2	1886.8	2224.4	2637.5	3099.4
IN	0.2	0.5	1.0	1.8	3.0	4.7	7.4	11.6	18.0	28.3	45.1	73.6	122.2	207.2	359.3	488.4	666.9	890.0	1138.6
KS	0.8	1.8	3.5	6.7	13.2	27.8	65.2	165.0	293.4	499.7	702.4	857.9	959.8	1036.2	1099.6	1174.0	1253.6	1342.6	1449.9
KY	0.1	0.2	0.3	0.6	1.1	1.8	3.1	5.1	8.4	13.7	22.3	36.3	58.5	93.9	148.7	232.7	343.6	503.0	714.2
LA	3.2	16.0	67.1	267.9	669.9	1405.7	2427.8	3438.8	4377.9	4982.2	5389.6	5718.9	5908.5	6017.5	6096.4	6145.4	6186.1	6222.1	6235.5
MA	420.4	1174.4	1785.1	2470.6	2923.9	3288.7	3534.4	3758.7	3914.3	3992.4	4058.3	4090.6	4119.5	4131.5	4137.4	4141.5	4144.6	4145.0	4145.6
MD	163.6	355.1	869.1	2055.5	3410.5	3605.6	3810.1	4142.6	4537.8	4982.8	5280.3	5587.2	5825.7	5968.3	6086.1	6195.5	6279.9	6324.8	6354.6
ME	10.8	24.2	56.8	130.5	170.3	215.4	281.7	364.9	463.8	546.4	608.4	654.1	684.3	703.1	712.7	720.4	724.1	726.3	728.1
MI	0.9	1.9	3.4	5.8	9.3	14.7	23.0	35.8	55.3	85.3	130.4	199.4	269.2	372.4	514.4	714.0	978.1	1316.9	1760.2
MN	0.0	0.1	0.2	0.6	1.4	3.5	8.4	20.2	47.7	110.4	241.2	462.4	852.6	1407.9	2057.0	2742.9	3436.8	4176.0	4913.4
MO	36.3	123.6	416.7	1180.7	1829.9	2087.7	2398.0	2834.6	3337.4	3644.1	3772.0	3808.3	3832.0	3835.6	3848.4	3849.0	3851.9	3852.3	3852.9
MS	0.5	1.3	3.0	7.1	15.0	29.9	58.6	114.3	219.5	412.8	745.2	1287.7	2052.6	2295.8	2561.4	2819.0	3040.4	3229.3	3363.5

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Scenario 3 $25/ton Carbon Fee - Cumulative Installed Capacity (MWdc)

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.8	1.7	2.8	4.2	6.0	8.1	10.9	14.5	19.1	25.2	32.9	42.9	55.7	73.0	95.5	124.7	162.1	208.9	267.2
NC	71.6	142.1	373.6	1129.6	2739.3	4802.5	7509.1	10505.6	13563.3	15507.2	16613.5	17288.2	17647.7	17888.2	18010.0	18061.9	18085.1	18097.8	18104.5
ND	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.7	0.8	1.0	1.1	1.2	1.4	1.6	1.7	1.9	2.0	2.2
NE	0.1	0.3	0.5	1.0	1.7	2.9	5.0	9.0	16.5	31.3	59.4	114.3	146.6	183.3	219.5	255.5	295.3	339.1	386.5
NH	0.8	1.9	4.0	7.8	14.3	26.7	49.2	90.2	134.1	209.6	325.9	461.8	631.1	784.5	902.1	1003.7	1079.4	1133.5	1176.4
NJ	993.1	1264.1	1734.9	2543.6	2886.2	3158.5	3465.6	3807.9	4120.3	4405.5	4647.3	4848.0	4992.8	5107.3	5177.3	5232.6	5266.8	5289.5	5312.4
NM	68.1	163.1	387.3	828.7	1383.9	1828.8	2204.6	2448.1	2648.0	2771.8	2841.8	2893.2	2927.4	2950.6	2974.4	2988.7	2996.8	3003.9	3005.9
NV	71.4	128.6	287.2	411.2	455.8	468.8	506.9	625.6	775.8	841.8	920.9	978.5	1053.3	1144.7	1201.3	1251.7	1297.5	1353.3	1413.6
NY	331.8	910.2	2300.5	2724.3	3162.9	3438.6	3648.7	3875.6	4236.6	4440.9	4566.7	4648.1	4755.6	4823.9	4875.2	4911.7	4939.7	4952.2	4957.0
OH	47.7	52.6	60.7	73.0	90.6	117.5	157.9	221.6	321.3	479.2	724.0	1104.2	1667.5	2479.6	3554.6	4859.0	6284.7	7723.7	9104.1
OK	0.1	0.4	0.9	2.4	5.2	10.6	21.3	42.4	83.0	161.4	306.9	573.8	1023.0	1760.5	2813.3	4143.1	5560.4	6862.5	7866.5
OR	81.6	105.9	129.8	175.8	246.3	336.4	461.8	628.4	831.4	1031.6	1209.7	1351.9	1455.6	1531.0	1584.8	1613.4	1637.4	1652.4	1659.6
PA	207.6	241.9	286.2	345.4	414.6	502.1	612.9	755.6	932.0	1151.8	1418.4	1742.1	2124.8	2586.8	3129.3	3725.5	4409.6	5158.5	5963.4
RI	0.4	1.0	1.8	3.3	5.5	9.3	15.3	25.0	40.2	64.0	88.3	123.8	159.9	205.9	267.5	338.3	402.8	462.8	510.8
SC	0.0	0.0	0.1	0.2	0.7	1.8	4.7	12.8	34.4	92.4	241.2	597.9	1110.4	1862.6	2733.3	3649.1	4389.9	4939.9	5291.6
SD	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.7	3.8	5.5	7.9	11.7	17.3	25.4	36.9	52.7
TN	43.9	55.3	73.3	97.3	136.2	181.0	262.4	399.7	619.5	912.3	1254.5	1612.4	1973.3	2308.9	2608.2	2908.2	3210.0	3483.6	3708.4
TX	105.2	268.2	746.6	2131.7	4928.8	8880.2	13843.8	19079.4	24227.0	27867.3	30136.8	32177.8	33655.9	34736.3	35379.6	35811.7	36222.3	36503.9	36687.4
UT	0.1	0.3	0.8	2.2	6.1	16.7	45.2	115.3	274.9	578.2	1014.5	1639.8	2273.5	2378.5	2436.1	2467.6	2486.5	2494.7	2500.5
VA	0.2	0.7	1.7	3.3	5.9	9.7	15.8	25.9	42.2	68.9	111.6	181.9	295.5	480.3	656.9	914.3	1268.6	1727.5	2271.1
VT	20.3	40.6	72.4	139.9	246.9	283.4	324.1	362.6	395.6	421.5	443.4	457.1	467.5	476.2	482.0	485.6	488.4	490.4	491.9
WA	35.0	54.9	80.4	91.1	99.3	104.4	111.6	122.2	137.6	156.4	182.0	216.1	260.7	317.9	387.3	467.3	554.4	643.4	727.8
WI	23.0	33.1	48.7	72.5	107.3	160.5	241.1	361.9	539.8	795.8	1143.6	1606.3	2178.9	2857.9	3559.4	4223.8	4820.4	5310.1	5712.4
WV	0.3	0.6	1.1	2.2	3.4	4.4	5.9	8.0	11.1	14.9	19.9	26.3	34.3	44.7	58.0	74.7	95.5	121.4	153.2
WY	0.2	0.6	1.1	2.1	3.4	5.0	7.4	10.8	15.6	22.4	31.5	44.4	61.5	85.7	118.9	164.5	226.4	309.9	416.0

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Scenario 4 Accelerated Cost Reductions - Cumulative Installed Capacity (MWdc)

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6822.3	12321.9	22060.8	36494.8	49635.8	62491.3	76307.1	90045.2	103185.6	115302.3	126877.9	138467.0	149858.8	160584.6	170926.6	180768.8	189911.1	198360.8	206239.7
AL	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5
AR	0.0	0.0	0.0	0.1	0.3	0.5	0.8	1.4	2.4	4.0	6.7	11.4	19.2	32.2	53.8	88.9	144.9	232.7	364.8
AZ	644.6	1353.9	2628.7	4516.6	5918.5	6695.9	7231.6	7607.4	7861.1	8024.8	8231.7	8406.4	8488.9	8545.1	8596.4	8668.5	8714.7	8745.3	8784.2
CA	3137.0	5575.1	9594.2	14541.1	16070.4	17585.2	19069.5	20797.3	22548.4	24037.3	25397.9	26420.2	27330.1	28042.1	28618.1	29068.2	29416.5	29678.4	29845.2
CO	178.0	224.3	349.1	625.5	1096.8	1651.1	2253.1	2749.4	3246.8	3757.7	4204.5	4591.8	4925.7	5159.1	5352.1	5520.6	5650.9	5779.6	5873.6
CT	91.2	213.9	487.2	1034.5	1716.0	2181.3	2455.3	2641.8	2792.9	2932.7	3097.7	3275.8	3447.2	3639.3	3802.7	3953.0	4129.7	4267.7	4412.0
DC	13.5	22.3	32.0	47.1	59.9	76.5	94.7	117.1	135.9	159.4	180.3	201.3	225.4	248.0	264.2	281.5	299.7	312.7	327.2
DE	20.7	27.7	38.9	56.5	83.9	126.6	159.9	199.4	242.0	293.2	337.9	383.5	423.2	465.1	511.1	555.5	605.6	658.8	709.2
FL	104.0	183.2	314.1	525.1	884.4	1493.1	2466.6	4008.2	6249.1	9261.8	12781.5	16525.8	20011.7	23172.8	25587.1	27398.5	28769.8	29823.3	30541.3
GA	39.2	69.9	150.3	330.7	722.4	1410.8	2319.6	3232.5	3934.6	4380.7	4637.0	4805.5	4921.1	5022.4	5087.7	5151.7	5198.7	5237.3	5278.0
IA	0.0	0.0	0.0	0.1	0.5	2.3	10.2	43.8	177.1	578.7	1179.8	1723.5	2202.2	2713.8	3186.5	3501.2	3685.1	3791.8	3861.0
ID	0.0	0.0	0.1	0.2	0.3	0.5	0.9	1.4	2.4	4.1	6.8	11.5	19.2	32.0	52.6	84.4	131.4	195.6	276.6
IL	12.4	15.8	21.2	29.2	40.0	52.5	70.1	95.9	132.4	184.2	258.4	364.8	513.0	720.6	998.7	1362.6	1530.9	1757.2	2018.1
IN	0.1	0.3	0.7	1.4	2.3	3.7	5.9	9.2	14.5	22.9	36.7	60.1	100.4	172.8	303.6	369.1	458.8	570.4	714.0
KS	0.4	1.1	2.2	4.6	9.1	18.7	42.6	105.9	155.1	224.5	288.5	342.2	381.3	419.5	462.1	511.9	572.3	646.6	732.5
KY	0.0	0.1	0.2	0.5	0.9	1.5	2.5	4.1	6.7	11.0	17.9	29.0	46.9	75.5	120.2	189.3	278.3	402.9	564.3
LA	1.5	7.4	31.9	139.0	354.5	793.9	1544.2	2387.7	2967.9	3242.9	3383.4	3510.2	3637.7	3745.5	3869.9	3998.0	4114.7	4226.1	4342.4
MA	418.4	1171.3	1800.9	2641.9	3097.0	3477.9	3703.8	3882.1	3982.0	4025.4	4058.0	4069.1	4088.4	4098.5	4106.3	4116.4	4131.3	4138.4	4142.8
MD	132.6	258.9	602.6	1444.0	2781.1	2987.5	3194.7	3514.1	3883.1	4264.1	4490.6	4729.9	4918.8	5043.4	5117.6	5178.9	5218.5	5241.3	5258.5
ME	10.7	21.5	49.8	114.9	169.0	217.5	280.9	351.6	419.8	475.1	517.7	547.1	568.6	582.7	593.8	602.4	611.0	617.9	622.9
MI	0.7	1.6	3.0	5.2	8.5	13.5	21.2	32.9	50.5	77.3	117.4	178.6	237.2	326.9	452.0	633.3	870.7	1180.8	1578.8
MN	0.0	0.0	0.1	0.2	0.6	1.3	3.0	7.1	16.8	39.3	88.7	186.7	369.0	657.5	1023.6	1409.7	1786.6	2161.5	2514.9
MO	26.7	74.2	209.4	631.4	1049.5	1438.2	1698.4	1799.5	1828.5	1835.7	1840.5	1845.0	1849.4	1854.4	1861.8	1867.6	1872.9	1878.1	1884.8
MS	0.3	0.9	2.1	5.8	12.6	24.6	47.1	90.2	169.6	312.4	548.1	919.9	1425.9	1598.8	1792.0	1989.9	2143.6	2273.9	2356.0

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Scenario 4 Accelerated Cost Reductions - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.4	1.0	1.9	3.2	4.8	6.7	9.0	12.0	15.9	20.9	27.2	35.6	46.6	61.0	79.4	103.2	132.6	168.5	210.1
NC	69.1	107.5	254.1	790.9	2095.1	3909.7	6000.2	7926.3	9483.0	10511.3	11019.4	11350.9	11508.7	11659.3	11779.7	11901.9	12041.1	12199.4	12376.4
ND	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.0
NE	0.1	0.2	0.4	0.7	1.4	2.3	4.0	7.1	13.0	24.2	45.5	85.3	91.7	100.4	111.6	126.2	145.0	169.5	201.3
NH	0.8	1.9	3.9	7.8	14.6	27.1	49.8	91.1	141.7	221.4	337.2	484.4	637.0	770.8	872.1	947.3	1006.7	1046.2	1076.9
NJ	970.5	1214.4	1634.0	2377.3	2807.0	3094.1	3419.2	3756.8	4003.3	4202.4	4336.6	4452.6	4537.3	4594.9	4641.7	4680.5	4708.9	4732.2	4757.2
NM	62.3	145.0	345.4	756.2	1324.0	1762.6	2104.3	2273.7	2392.2	2483.9	2543.9	2593.1	2629.6	2657.7	2687.7	2708.7	2725.3	2744.2	2759.6
NV	61.4	103.3	234.9	387.7	471.8	480.5	491.8	506.7	525.3	548.6	571.9	606.4	641.5	688.2	743.5	792.2	856.5	923.9	990.1
NY	281.8	740.7	1949.7	2742.2	3180.6	3504.1	3767.7	3917.6	4030.4	4081.4	4104.9	4123.1	4141.1	4157.7	4174.3	4193.4	4212.2	4231.7	4246.8
OH	46.7	50.1	57.1	68.1	84.0	107.8	143.0	198.3	284.3	418.8	623.1	932.2	1379.8	2012.6	2817.6	3778.8	4839.3	5911.1	6953.6
OK	0.1	0.2	0.6	2.0	4.6	9.4	18.5	36.5	71.3	137.9	261.4	478.4	848.4	1417.9	2237.5	3164.1	4178.9	5068.9	5827.4
OR	78.6	102.4	127.3	184.9	261.4	357.2	486.4	644.9	815.8	980.4	1113.6	1213.1	1276.9	1314.7	1342.8	1357.5	1376.9	1390.9	1401.3
PA	202.6	234.3	277.9	336.9	406.7	493.4	600.4	734.9	902.6	1108.2	1355.3	1662.7	2014.2	2436.3	2925.0	3466.3	4081.3	4753.4	5477.3
RI	0.3	0.8	1.6	3.0	5.1	8.6	13.9	22.4	36.0	56.7	78.0	108.7	143.2	194.0	252.7	315.1	373.2	426.2	467.0
SC	0.0	0.0	0.1	0.2	0.6	1.5	4.0	10.8	29.1	78.1	203.2	502.0	905.0	1470.7	2104.7	2765.8	3264.5	3623.5	3838.4
SD	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	2.0	2.7	3.8	5.4	7.8	11.2	15.9	22.0	28.8
TN	43.5	54.2	71.5	99.7	139.5	180.0	238.4	316.5	421.6	559.4	726.6	931.2	1172.8	1447.6	1730.9	1996.6	2236.1	2433.4	2593.2
TX	94.3	214.1	577.4	1721.0	4271.7	7699.2	11538.9	14955.1	17938.8	20011.2	21462.0	22535.4	23480.1	24227.8	24907.3	25522.6	26194.4	26756.9	27316.9
UT	0.0	0.2	0.4	1.3	3.6	9.6	25.7	66.8	157.1	311.8	579.6	966.6	1403.1	1430.0	1446.5	1458.5	1470.9	1481.8	1495.6
VA	0.1	0.3	1.0	2.4	4.4	7.4	12.1	19.9	32.4	53.0	86.5	142.2	233.1	382.5	483.3	626.0	818.1	1059.3	1344.2
VT	20.2	40.4	72.8	143.4	257.9	295.7	335.6	371.8	395.8	416.4	431.7	441.1	448.8	453.9	458.2	461.1	463.1	465.5	467.4
WA	34.7	54.4	81.2	95.7	107.3	113.8	121.5	130.6	140.7	152.7	168.6	188.7	212.3	236.0	262.3	292.8	324.3	355.5	384.9
WI	22.5	32.1	47.0	70.1	104.1	156.2	233.4	348.1	512.6	743.3	1052.2	1437.6	1880.9	2399.6	2914.0	3419.0	3867.6	4256.3	4599.3
WV	0.1	0.4	0.8	2.3	3.8	5.0	6.3	8.1	10.3	13.2	16.7	21.2	26.9	34.0	43.0	54.1	68.1	85.2	105.7
WY	0.1	0.3	0.6	1.4	2.4	3.5	5.1	7.4	10.6	15.0	21.4	30.5	43.1	61.2	86.3	121.8	170.3	233.6	313.0

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Scenario 5 $10/ton Carbon Fee and Accelerated Cost Reductions - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6977.7	12834.3	23677.1	39641.6	54681.3	69699.1	85928.2	101788.6	117461.6	132489.4	146902.3	161087.6	175578.4	189417.3	202685.9	214726.6	225793.3	235559.7	244368.9
AL	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.1	2.5	2.8	3.3	3.8	4.5
AR	0.0	0.0	0.1	0.2	0.5	0.9	1.5	2.6	4.4	7.5	12.7	21.6	36.2	60.2	100.6	166.3	271.5	435.0	679.5
AZ	702.0	1505.6	2966.8	4986.8	6393.5	7069.3	7669.2	7882.8	8314.7	8598.1	8868.0	9006.4	9079.3	9136.3	9198.4	9245.7	9281.9	9294.4	9312.4
CA	3137.0	5577.1	9604.7	14562.3	16091.5	17535.1	18977.3	20604.8	22244.0	23779.5	25195.8	26273.6	27321.9	28197.5	28948.1	29504.6	29963.0	30289.2	30472.9
CO	193.0	271.8	453.9	827.1	1419.1	2099.3	2805.1	3383.4	3951.1	4538.1	5051.9	5506.0	5887.7	6194.1	6423.1	6579.3	6705.5	6823.8	6888.9
CT	91.9	215.6	502.9	1067.9	1775.2	2275.2	2558.6	2744.3	2896.4	3033.6	3207.1	3372.6	3543.0	3734.8	3902.1	4046.7	4220.4	4368.7	4495.4
DC	13.8	23.5	33.9	49.7	64.4	82.5	102.6	128.0	150.2	170.9	196.4	222.1	246.3	269.1	287.9	307.7	328.2	342.8	359.0
DE	21.6	29.4	41.8	61.3	91.6	138.9	178.1	226.9	281.0	343.5	400.5	452.6	505.1	562.1	622.0	672.2	723.8	775.8	828.1
FL	104.2	183.6	316.5	529.1	882.3	1497.4	2495.4	4104.1	6489.6	9764.7	13647.3	17579.4	21577.8	25192.5	28050.2	30203.2	31885.9	33012.5	33862.8
GA	40.0	72.4	157.4	353.6	758.0	1489.5	2387.5	3332.4	4089.8	4676.5	5122.1	5500.5	5831.1	6131.8	6370.6	6565.5	6704.6	6801.9	6870.3
IA	0.0	0.0	0.0	0.1	0.6	2.7	11.6	50.6	205.1	679.1	1406.3	2123.6	2856.4	3691.1	4502.2	4971.9	5260.4	5420.6	5495.1
ID	0.0	0.0	0.1	0.2	0.4	0.8	1.3	2.3	3.8	6.6	11.1	18.7	31.6	53.2	87.8	141.9	223.2	335.6	476.6
IL	12.6	16.8	22.8	31.4	43.5	59.2	81.8	115.4	162.8	231.2	327.5	465.8	655.6	922.1	1275.1	1738.3	2012.8	2348.3	2731.2
IN	0.2	0.5	0.9	1.7	2.8	4.4	7.0	11.0	17.3	27.6	44.5	73.9	125.2	218.9	389.9	495.2	634.1	799.4	987.5
KS	0.6	1.5	3.0	6.0	11.9	25.1	58.9	149.0	245.6	386.4	514.7	610.5	686.8	743.2	802.6	865.4	931.2	1004.5	1095.1
KY	0.1	0.1	0.3	0.6	1.1	1.9	3.1	5.1	8.4	13.6	22.1	35.7	57.3	91.9	145.8	228.0	330.1	476.8	672.7
LA	2.5	13.2	57.2	243.5	606.9	1361.2	2452.0	3453.1	4207.8	4661.1	4934.9	5124.7	5261.0	5355.0	5430.2	5457.7	5478.4	5498.2	5507.8
MA	419.8	1175.0	1957.0	2833.1	3285.4	3663.2	3915.8	4115.8	4243.8	4305.3	4354.7	4373.0	4388.2	4397.5	4403.7	4405.9	4406.9	4407.5	4407.7
MD	142.4	289.8	691.5	1656.1	3144.1	3356.7	3581.4	3907.3	4284.9	4677.2	4936.3	5208.6	5416.3	5578.7	5682.2	5763.1	5826.1	5858.5	5879.8
ME	10.6	23.6	57.8	134.7	203.6	253.0	319.9	395.4	472.3	538.6	590.7	631.2	658.2	675.7	686.3	694.2	698.3	700.6	702.3
MI	0.8	1.8	3.3	5.7	9.3	14.8	23.2	36.0	55.4	85.3	130.2	198.8	266.2	367.3	505.0	706.2	961.1	1281.1	1700.0
MN	0.0	0.0	0.1	0.4	0.9	2.3	5.6	13.5	32.2	75.3	169.2	351.7	683.3	1198.0	1857.5	2582.7	3289.5	3963.3	4551.4
MO	32.7	105.0	343.4	1010.3	1617.4	2064.4	2386.4	2601.3	2734.3	2822.8	2896.8	2955.1	3031.5	3095.7	3167.1	3196.3	3206.6	3209.8	3211.2
MS	0.4	1.1	2.5	6.8	14.7	29.4	57.6	112.1	213.5	397.4	713.7	1224.3	1913.6	2114.7	2361.0	2610.4	2821.6	3004.3	3140.3

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Scenario 5 $10/ton Carbon Fee and Accelerated Cost Reductions - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.7	1.4	2.5	4.0	5.8	8.0	10.8	14.5	19.2	25.4	33.4	44.2	57.6	76.4	101.0	133.2	173.8	224.7	286.6
NC	68.6	124.7	326.1	1033.5	2692.0	4980.6	7635.0	10196.6	12397.5	13984.6	14931.8	15568.3	15992.7	16338.5	16551.1	16643.7	16685.7	16706.2	16715.7
ND	0.0	0.0	0.1	0.2	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.8	1.9
NE	0.1	0.2	0.4	0.9	1.6	2.9	5.1	9.4	17.6	33.8	64.8	124.3	142.4	162.6	185.0	208.4	234.4	264.8	301.4
NH	0.8	1.9	4.0	7.9	14.8	27.6	51.1	93.4	142.6	222.9	342.9	475.1	639.5	789.2	908.7	999.5	1066.8	1113.7	1151.1
NJ	980.0	1238.1	1698.2	2513.2	3005.7	3309.0	3607.1	3937.2	4203.1	4451.1	4643.0	4806.4	4926.8	5016.3	5074.0	5119.7	5144.9	5161.5	5175.4
NM	66.1	157.6	379.1	820.5	1420.1	1922.2	2282.8	2473.9	2609.5	2701.2	2767.6	2825.9	2865.4	2894.7	2923.6	2939.1	2947.3	2955.0	2957.1
NV	68.7	121.8	283.8	468.6	602.4	614.4	633.5	661.8	717.0	755.0	820.9	882.8	963.1	1071.0	1145.7	1196.9	1249.3	1308.9	1376.1
NY	313.8	852.2	2289.9	3229.9	3711.7	4036.3	4275.3	4452.0	4578.7	4650.1	4688.0	4707.9	4744.8	4783.7	4804.5	4819.8	4826.7	4829.8	4833.1
OH	47.5	51.9	59.9	72.0	89.6	116.2	156.0	218.1	315.3	469.4	705.1	1067.4	1598.7	2351.5	3339.5	4533.2	5814.4	7109.4	8340.2
OK	0.1	0.3	0.8	2.6	5.8	12.1	24.4	48.5	94.8	184.2	350.8	650.8	1155.9	1946.2	3047.0	4348.2	5677.3	6807.3	7639.1
OR	78.8	103.0	128.3	185.8	268.1	366.2	498.4	663.4	843.1	1022.1	1179.3	1301.1	1387.5	1455.9	1507.9	1534.8	1556.5	1569.9	1576.8
PA	205.9	240.2	283.8	345.3	419.2	510.0	624.4	769.4	947.0	1168.2	1434.4	1752.1	2128.6	2584.9	3122.3	3717.2	4390.8	5127.2	5915.6
RI	0.4	0.9	1.8	3.2	5.4	9.0	14.8	24.3	39.2	62.5	86.3	120.6	158.6	202.9	262.9	330.7	395.1	453.1	499.1
SC	0.0	0.0	0.1	0.2	0.6	1.7	4.6	12.6	34.1	91.4	238.7	590.1	1076.0	1792.2	2622.7	3499.1	4194.0	4697.3	5008.6
SD	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.8	3.9	5.6	8.3	12.3	18.1	26.3	37.2	51.0
TN	43.7	54.6	72.3	105.6	157.3	213.3	299.4	424.3	588.0	776.8	995.7	1237.0	1510.4	1799.6	2076.7	2363.1	2650.7	2911.4	3122.9
TX	98.2	248.1	717.3	2149.4	5357.9	9921.3	14938.1	19381.8	23204.3	26082.5	28039.8	29604.5	30795.7	31801.3	32487.8	32870.3	33268.1	33481.6	33705.8
UT	0.1	0.2	0.7	1.9	4.9	13.5	36.5	93.4	225.2	482.6	882.6	1481.4	2143.1	2238.3	2291.0	2319.0	2333.2	2340.1	2343.3
VA	0.1	0.5	1.3	2.8	5.2	8.8	14.5	24.0	39.2	64.4	105.4	173.5	284.4	467.4	628.3	859.2	1170.1	1563.7	2020.2
VT	20.3	40.5	75.8	149.7	266.7	305.8	347.9	386.2	413.2	437.5	456.3	467.9	476.0	482.8	487.6	490.7	493.1	494.5	495.9
WA	34.8	54.6	82.2	98.8	111.5	118.9	128.2	140.3	154.7	173.0	197.6	230.4	271.6	322.6	381.6	444.8	509.3	570.9	626.5
WI	22.8	32.7	48.2	72.0	107.4	161.5	242.6	362.8	537.8	786.9	1123.7	1564.7	2090.7	2708.9	3335.0	3931.6	4472.4	4913.8	5291.8
WV	0.2	0.5	0.9	2.8	4.7	6.3	8.3	11.1	14.6	19.1	25.0	32.5	42.1	54.6	70.3	90.0	114.6	144.9	181.0
WY	0.1	0.4	1.0	1.8	3.1	4.6	6.8	10.0	14.3	20.7	29.4	41.9	58.8	82.8	116.8	163.7	228.5	314.9	420.8

These state-level results are provided for reference only, and should be interpreted in light of their publication date. Efforts are made to keep dSolar's representation of policies, rate structures, incentives, and customer representation up to date, but there is a natural delay in that process. A particular state's results should not be used to inform policy after conditions have changed from those of the beginning of 2016. In particular, the rapidly changing net metering policy landscape will significantly alter the absolute value of cumulative installed capacity.

Scenario 6 Low Cost PV - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6957.0	12737.6	23461.2	38363.5	52258.8	67304.0	85956.2	106118.3	127057.6	145009.6	161448.9	177519.7	193727.8	209253.4	223988.0	238177.4	251411.2	263927.8	275619.3
AL	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.2	2.5	3.0	3.5	4.1	4.8
AR	0.0	0.0	0.1	0.2	0.4	0.8	1.4	2.4	4.1	7.1	12.0	20.4	34.4	57.8	96.3	159.2	259.8	412.0	640.2
AZ	728.8	1594.3	3142.8	5131.1	6415.9	7049.0	7725.7	8043.2	8595.7	8872.0	9139.0	9230.9	9285.0	9325.4	9387.8	9440.3	9507.1	9531.3	9560.2
CA	3138.7	5570.8	9587.4	14525.8	16165.4	17600.4	19055.8	20816.4	22583.2	24097.2	25576.6	26690.9	27655.7	28674.2	29534.4	30174.0	30727.5	31182.0	31428.4
CO	183.3	238.7	382.0	682.6	1203.0	1898.8	2701.7	3499.8	4185.9	4810.6	5352.5	5764.5	6141.9	6459.4	6707.5	6890.2	7039.4	7195.3	7285.5
CT	91.6	214.5	503.3	1065.6	1771.0	2290.5	2607.7	2827.2	2999.5	3138.8	3303.6	3468.9	3649.7	3844.4	4021.4	4174.4	4359.1	4521.9	4654.5
DC	13.5	22.8	32.7	48.1	62.2	82.0	103.2	128.0	156.0	184.2	212.2	243.7	269.7	295.2	317.6	337.9	357.9	374.0	389.5
DE	20.9	27.7	39.0	56.5	83.7	126.5	163.6	217.3	286.7	365.9	445.1	514.1	587.6	643.9	716.4	778.8	845.4	918.7	972.1
FL	104.4	184.2	318.5	531.7	882.7	1505.3	2531.2	4221.9	6790.4	10293.1	14676.8	19317.1	23778.3	27709.8	30566.8	32839.6	34428.9	35510.0	36440.1
GA	40.5	74.9	166.2	366.9	783.3	1506.3	2427.8	3388.2	4186.6	4884.4	5470.1	6043.0	6582.7	7119.6	7581.4	7942.5	8225.8	8432.0	8612.0
IA	0.0	0.0	0.0	0.1	0.6	2.7	11.7	50.5	203.7	676.3	1441.8	2293.8	3190.8	4222.4	5156.0	5738.9	6012.6	6249.1	6382.8
ID	0.0	0.0	0.1	0.2	0.5	0.8	1.4	2.4	4.0	6.8	11.5	19.2	32.1	53.9	88.9	143.2	226.5	344.1	508.0
IL	12.8	17.1	23.3	32.0	44.2	60.2	84.3	119.8	166.3	236.8	333.5	472.3	662.6	928.6	1278.6	1743.1	2058.7	2455.3	2915.8
IN	0.2	0.5	1.0	1.7	2.8	4.5	7.0	11.1	17.2	27.1	43.1	70.1	116.4	193.3	338.0	475.9	685.4	962.2	1288.1
KS	0.6	1.5	3.0	6.0	12.0	25.4	60.2	153.7	277.1	486.7	709.6	892.5	1020.0	1117.0	1191.2	1297.0	1393.7	1495.1	1614.9
KY	0.1	0.2	0.3	0.6	1.1	1.9	3.1	5.2	8.5	13.8	22.5	36.5	58.6	93.8	148.3	232.2	335.5	491.1	701.5
LA	2.7	14.2	61.1	252.5	618.2	1355.5	2472.2	3641.7	4734.3	5355.0	5698.2	5953.2	6142.1	6296.6	6446.9	6576.0	6689.4	6823.4	6946.1
MA	421.2	1187.0	2157.4	2903.2	3356.8	3733.0	4014.1	4267.9	4425.7	4524.4	4606.9	4647.6	4680.4	4697.5	4726.4	4756.8	4790.7	4809.1	4832.6
MD	133.8	264.7	620.2	1478.9	2878.8	3097.5	3405.5	3833.8	4415.8	4950.4	5288.3	5620.3	5881.2	6050.4	6196.8	6334.3	6446.7	6520.5	6579.1
ME	10.2	21.3	49.7	114.8	175.3	226.0	305.7	404.8	515.3	602.4	672.3	731.6	776.2	805.7	824.4	845.0	859.0	871.4	883.8
MI	0.8	1.8	3.2	5.5	9.0	14.3	22.4	34.8	53.6	82.5	126.0	192.4	260.0	357.7	493.3	683.2	935.0	1260.3	1693.0
MN	0.0	0.0	0.1	0.4	0.9	2.2	5.3	12.8	30.4	71.0	159.7	332.0	657.7	1183.7	1874.5	2678.2	3498.6	4378.2	5255.4
MO	32.8	106.5	353.7	1022.9	1589.5	2079.5	2568.4	3058.4	3507.4	3729.4	3837.4	3897.2	3941.1	3970.2	4015.0	4034.6	4049.7	4073.0	4090.9
MS	0.4	1.3	3.0	7.6	16.2	32.6	64.2	125.6	241.3	454.0	816.7	1400.8	2221.5	2450.8	2714.9	2977.6	3220.2	3431.0	3588.1

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Scenario 6 Low Cost PV - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.7	1.5	2.6	4.1	5.9	8.2	11.0	14.8	19.6	26.0	34.2	45.1	59.1	78.3	103.7	137.0	180.4	235.9	305.8
NC	64.5	104.1	239.6	709.5	1962.5	4321.4	7725.9	11555.7	15073.8	17181.8	18329.6	18977.7	19330.7	19612.5	19757.7	19840.0	19928.1	20001.3	20068.7
ND	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.1	2.3
NE	0.1	0.2	0.4	0.9	1.6	2.8	5.0	9.2	17.2	33.1	64.0	124.3	160.9	203.0	245.8	285.2	324.8	371.3	428.3
NH	0.8	1.9	4.0	7.9	14.9	27.7	51.3	94.5	141.9	220.4	329.0	465.9	645.2	811.1	956.9	1079.2	1169.7	1248.8	1313.7
NJ	969.6	1215.5	1644.4	2416.8	2908.0	3234.4	3575.6	3997.6	4389.6	4728.8	4999.1	5235.5	5415.8	5556.6	5661.2	5754.8	5825.2	5891.8	5941.8
NM	62.3	145.3	346.4	753.2	1323.0	1833.1	2256.3	2515.2	2695.9	2814.9	2877.8	2928.1	2960.7	2986.4	3010.0	3026.9	3038.8	3053.0	3060.8
NV	69.3	125.2	295.2	466.2	594.6	607.7	649.3	738.4	878.9	929.0	998.7	1058.3	1124.2	1206.1	1270.0	1330.2	1381.3	1445.5	1514.1
NY	295.2	793.2	2119.2	3016.5	3609.1	3981.9	4320.6	4646.9	5017.6	5221.6	5371.7	5455.1	5578.1	5685.9	5768.4	5866.6	5920.1	5986.8	6054.8
OH	47.3	51.4	58.9	70.1	86.0	110.0	145.8	202.2	289.4	427.2	641.3	977.4	1483.0	2232.1	3258.7	4569.6	6093.3	7709.9	9296.7
OK	0.1	0.3	0.9	2.5	5.6	11.5	23.2	46.3	91.0	177.5	338.5	634.4	1137.6	1960.4	3136.1	4582.0	6102.3	7441.2	8519.8
OR	84.4	112.5	139.7	202.1	296.1	400.5	559.5	767.1	1027.1	1279.5	1513.4	1713.3	1843.8	1970.8	2065.6	2126.2	2174.4	2212.3	2248.7
PA	206.6	239.3	280.5	340.1	411.9	500.6	613.3	757.3	935.1	1156.6	1426.0	1756.2	2145.9	2615.9	3167.5	3782.5	4486.2	5239.8	6079.9
RI	0.4	0.9	1.8	3.2	5.4	9.1	14.9	24.4	39.0	62.2	81.6	114.1	147.7	191.7	250.7	328.0	397.4	465.4	525.7
SC	0.0	0.0	0.1	0.3	0.7	1.9	5.1	13.8	37.1	99.2	258.3	632.8	1156.2	1941.6	2883.2	3914.9	4792.0	5481.3	5911.8
SD	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.8	4.0	5.7	8.5	12.7	19.0	28.5	41.8	60.2
TN	43.9	55.2	73.6	103.0	151.2	205.6	302.4	468.5	731.4	1057.8	1411.3	1764.1	2116.8	2452.7	2761.1	3074.6	3401.5	3696.2	3939.6
TX	95.5	214.2	578.5	1681.3	4280.0	8700.7	14524.6	20305.5	25774.5	29588.6	31827.4	33605.3	35059.0	36210.5	36996.2	37590.2	38205.8	38711.8	39171.3
UT	0.1	0.2	0.7	1.9	4.9	13.6	36.4	92.0	220.5	463.7	805.4	1312.1	1992.5	2141.4	2244.5	2334.9	2373.6	2423.0	2453.9
VA	0.2	0.6	1.5	3.2	5.7	9.5	15.7	25.9	41.9	68.4	110.8	180.3	292.1	475.1	657.6	929.1	1319.5	1839.4	2487.3
VT	20.3	40.7	78.7	154.7	274.0	314.2	360.1	403.5	442.3	473.6	499.1	517.4	530.2	545.5	554.9	562.3	570.0	576.7	583.4
WA	35.4	57.3	95.2	113.3	127.7	139.8	156.4	182.7	223.8	274.6	344.2	432.7	549.3	696.5	867.1	1052.0	1252.4	1451.1	1637.8
WI	22.9	32.9	48.5	72.4	107.5	161.3	242.0	364.9	546.5	807.2	1166.4	1646.5	2251.8	2963.1	3723.3	4452.4	5108.3	5645.8	6072.7
WV	0.2	0.6	1.1	2.9	4.8	6.5	8.8	12.0	16.4	21.9	29.0	38.1	49.8	64.8	83.9	107.9	138.1	175.6	222.0
WY	0.1	0.4	1.0	1.9	3.2	4.8	7.3	10.8	15.6	22.4	31.6	44.9	63.0	88.4	124.5	174.3	242.2	335.3	451.3

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Scenario 7 NEM Policies Expire with No Credit - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6822.3	12139.1	20382.8	31630.2	40666.1	48622.8	58913.8	71327.4	85315.4	98247.1	110643.9	122605.0	133758.8	143817.6	153134.0	161851.5	169876.2	177427.6	184672.6
AL	0.1	0.1	0.2	0.4	0.5	0.6	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.1	2.3
AR	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.6	1.1	1.9	3.3	5.6	9.5	16.1	27.0	44.8	72.9	116.0	179.5
AZ	644.6	1304.4	2272.1	3854.3	5155.6	5836.9	6428.1	7033.3	7626.2	7932.5	8250.6	8478.2	8590.6	8656.8	8717.4	8794.5	8845.2	8876.9	8918.3
CA	3137.0	5548.0	9439.9	14129.4	15190.0	16470.1	17926.3	19750.2	21593.5	23238.5	24699.2	25829.6	26745.9	27429.5	27967.6	28363.7	28661.8	28889.1	29053.3
CO	178.0	213.8	301.1	505.7	827.5	1169.4	1646.3	2201.9	2830.5	3462.8	4012.1	4477.3	4877.9	5149.2	5366.2	5560.0	5705.6	5844.9	5945.5
CT	91.2	213.6	474.5	972.1	1563.8	1899.9	2182.9	2443.9	2677.7	2860.3	3055.3	3246.0	3423.9	3621.4	3787.8	3944.4	4126.3	4268.9	4416.2
DC	13.5	21.8	31.7	45.6	58.2	68.7	83.9	103.3	121.5	145.6	168.2	191.6	218.9	245.4	264.7	285.4	305.8	320.8	337.7
DE	20.7	26.1	36.7	53.4	79.2	118.5	133.3	153.7	185.5	221.5	253.9	286.4	316.7	348.8	386.4	425.0	468.3	516.8	564.6
FL	104.0	183.0	307.6	513.5	857.8	1396.1	2318.6	3747.7	5906.0	8841.9	12329.8	16095.7	19654.1	22897.4	25388.2	27265.0	28682.9	29780.2	30527.1
GA	39.2	68.5	141.2	314.2	703.4	1313.2	2104.1	2860.9	3484.9	3880.2	4110.9	4250.3	4335.7	4395.6	4425.1	4451.7	4476.5	4497.0	4515.5
IA	0.0	0.0	0.0	0.1	0.4	1.9	8.2	36.4	149.3	497.5	1036.9	1549.0	1988.8	2440.7	2893.6	3270.1	3539.7	3711.9	3826.0
ID	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.8	1.4	2.4	3.9	6.6	10.8	17.6	28.3	44.1	67.0	97.9	139.1
IL	12.4	15.5	19.8	24.3	30.7	37.6	47.9	65.2	89.4	123.4	173.0	244.6	345.1	487.4	680.7	938.8	1030.8	1142.6	1275.7
IN	0.1	0.3	0.6	1.2	2.1	3.2	5.0	7.8	12.0	18.6	28.7	44.9	70.7	113.9	186.7	229.7	288.8	364.6	463.9
KS	0.4	1.0	2.1	3.9	7.3	13.7	29.0	68.2	90.3	118.7	148.3	173.9	201.4	230.1	265.6	310.1	364.1	430.7	510.5
KY	0.0	0.1	0.2	0.4	0.7	1.2	2.0	3.3	5.4	8.9	14.6	23.9	38.9	62.8	100.4	158.5	235.2	341.0	475.5
LA	1.5	7.1	28.9	113.3	250.0	504.8	899.0	1402.2	1892.1	2215.8	2447.9	2616.4	2736.9	2803.6	2866.8	2920.3	2978.6	3042.3	3106.9
MA	418.4	1168.2	1465.4	1895.4	2402.2	2638.0	2840.7	3013.5	3162.5	3228.0	3262.4	3279.2	3290.5	3304.9	3316.3	3331.4	3350.3	3362.7	3370.2
MD	132.6	250.0	568.7	1338.5	2288.8	2449.8	2686.9	3004.3	3378.3	3757.5	4033.1	4239.2	4402.8	4508.3	4567.1	4618.1	4654.2	4676.9	4704.1
ME	10.7	21.2	43.4	93.8	127.7	162.0	209.7	267.5	334.8	390.6	433.7	463.8	484.4	498.3	508.8	517.3	525.4	531.5	538.3
MI	0.7	1.6	3.0	4.8	7.8	12.4	19.3	29.7	45.6	69.7	105.6	160.0	212.9	292.0	402.3	559.2	762.7	1027.5	1366.5
MN	0.0	0.0	0.1	0.2	0.4	0.9	2.0	4.9	11.7	27.2	60.6	123.3	239.6	425.6	669.9	943.6	1242.2	1581.7	1955.0
MO	26.7	73.0	191.3	483.4	770.7	913.8	1059.3	1188.1	1316.6	1370.1	1398.0	1409.3	1415.0	1419.8	1426.2	1433.5	1441.4	1450.3	1463.0
MS	0.3	0.9	1.9	4.2	8.5	15.7	29.9	57.4	108.8	203.4	364.4	631.2	1024.7	1159.4	1312.4	1463.8	1575.9	1678.4	1751.7

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Scenario 7 NEM Policies Expire with No Credit - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.4	1.0	1.8	2.9	4.2	5.6	7.5	9.9	13.0	17.0	21.8	28.0	35.9	45.8	58.3	73.9	93.2	117.0	145.8
NC	69.1	99.2	165.5	430.3	1082.0	1754.9	2921.6	4565.5	6595.2	8271.3	9465.8	10458.7	11192.1	11733.3	12058.8	12270.2	12440.1	12604.8	12791.6
ND	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8
NE	0.1	0.2	0.3	0.6	1.0	1.5	2.4	4.0	6.9	12.1	21.7	39.8	44.0	49.7	57.2	67.5	80.7	97.7	119.2
NH	0.8	1.9	3.9	7.5	13.1	24.6	44.1	80.7	125.9	196.8	297.5	422.3	556.9	674.2	770.4	839.6	891.5	927.7	952.8
NJ	970.5	1207.7	1612.1	2256.9	2489.9	2744.5	3037.2	3351.1	3581.9	3766.3	3894.1	4004.3	4088.2	4145.2	4190.9	4228.5	4260.1	4285.3	4313.5
NM	62.3	142.6	317.9	670.5	1127.9	1448.7	1776.7	2013.0	2248.5	2417.0	2518.3	2592.4	2644.9	2681.9	2720.2	2746.2	2765.5	2785.7	2802.3
NV	61.4	96.9	180.6	200.4	210.5	218.1	228.4	249.2	293.2	338.3	379.2	423.8	458.5	509.1	573.3	631.1	682.7	753.2	828.4
NY	281.8	720.6	1677.4	1903.8	2237.2	2453.3	2633.7	2769.7	2936.2	3020.7	3069.7	3108.4	3135.3	3153.7	3175.2	3198.6	3225.2	3248.6	3269.9
OH	46.7	49.9	55.2	64.8	78.4	95.9	122.5	165.6	233.4	339.7	502.3	751.5	1121.9	1659.5	2373.2	3256.1	4266.6	5333.0	6407.6
OK	0.1	0.2	0.5	1.4	2.9	5.5	10.5	20.8	40.7	78.7	149.5	277.3	497.0	857.9	1397.9	2077.5	2875.3	3704.6	4526.8
OR	78.6	98.3	115.1	151.0	207.2	256.2	350.2	473.9	625.7	786.1	931.6	1048.1	1128.4	1180.4	1219.4	1240.6	1259.0	1273.7	1288.6
PA	202.6	232.5	272.7	323.2	388.1	468.2	566.8	692.0	849.1	1042.0	1272.9	1561.7	1892.6	2291.6	2753.4	3264.8	3850.6	4491.0	5183.4
RI	0.3	0.8	1.6	2.9	4.8	8.2	13.5	21.3	34.1	53.7	72.5	99.5	134.1	179.1	230.2	283.1	331.4	376.3	409.3
SC	0.0	0.0	0.1	0.2	0.5	1.3	3.6	9.7	26.1	70.0	181.8	446.6	762.1	1191.0	1694.3	2138.3	2453.1	2700.8	2841.2
SD	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	2.8	3.8	5.2	7.1	9.7	13.2
TN	43.5	53.9	69.5	87.5	113.7	145.4	191.5	256.6	347.9	473.1	631.3	827.7	1055.8	1316.0	1581.4	1828.6	2051.7	2233.0	2379.5
TX	94.3	187.7	386.0	887.1	1948.3	3458.0	5714.7	8387.8	11245.8	13281.9	14844.1	16007.5	16866.4	17457.2	17917.7	18355.1	18807.8	19157.0	19574.4
UT	0.0	0.1	0.4	1.2	3.3	8.8	23.5	59.9	138.0	259.7	452.6	712.0	1026.7	1046.7	1063.1	1077.3	1088.9	1099.2	1110.4
VA	0.1	0.3	0.7	1.7	3.2	4.9	7.8	12.8	21.1	34.6	56.4	92.4	150.9	246.8	310.4	397.1	507.3	646.9	809.5
VT	20.2	40.4	65.6	124.8	218.6	245.0	275.8	311.4	341.8	364.7	381.4	391.2	398.7	404.2	408.1	411.1	413.7	415.6	416.7
WA	34.7	54.2	78.0	89.5	95.2	99.0	103.0	108.5	115.6	122.7	131.5	143.4	157.7	175.3	196.1	218.9	243.4	267.6	290.5
WI	22.5	31.9	46.3	67.4	98.7	141.5	208.2	308.9	455.8	664.1	946.1	1305.5	1724.5	2225.2	2734.9	3246.7	3712.8	4123.3	4490.2
WV	0.1	0.3	0.6	1.2	1.7	2.1	2.7	3.5	4.6	6.1	7.9	10.1	12.9	16.5	21.1	26.7	33.9	42.7	53.7
WY	0.1	0.2	0.5	1.1	1.8	2.6	3.8	5.7	8.2	11.8	16.9	24.1	33.9	48.0	67.1	93.8	130.8	180.4	247.2

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Scenario 8 NEM Policies Extended for 10 Years - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6822.3	12157.8	21748.3	36376.7	51592.2	64532.0	80443.4	99053.6	118647.5	132954.9	146035.6	158655.1	171034.1	182785.6	194028.1	204945.2	215813.7	225235.5	234123.7
AL	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.6
AR	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.6	1.1	1.9	3.3	5.6	9.5	16.1	27.0	44.8	72.9	116.0	179.5
AZ	644.6	1304.4	2272.1	3854.3	5155.6	5836.9	6428.1	7033.3	7626.2	7932.5	8250.6	8478.2	8590.6	8656.8	8717.4	8794.5	8845.2	8876.9	8918.3
CA	3137.0	5548.0	9439.9	14129.4	18037.2	20773.5	23496.8	26254.4	28913.4	30345.8	31673.8	32647.8	33543.6	34258.7	34806.5	35243.3	35573.1	35813.3	35957.5
CO	178.0	213.8	301.1	505.7	827.5	1169.4	1646.3	2201.9	2830.5	3462.8	4012.1	4477.3	4877.9	5149.2	5366.2	5560.0	5705.6	5844.9	5945.5
CT	91.2	213.6	474.5	972.1	1563.8	1899.9	2182.9	2443.9	2677.7	2860.3	3055.3	3246.0	3423.9	3621.4	3787.8	3944.4	4126.3	4268.9	4416.2
DC	13.5	21.8	31.7	45.6	58.2	68.7	83.9	103.3	121.5	145.6	168.2	191.6	218.9	245.4	264.7	285.4	305.8	320.8	337.7
DE	20.7	26.1	36.7	53.4	79.2	118.5	177.9	264.8	383.3	526.7	691.6	712.8	736.2	764.8	800.9	836.4	880.6	928.6	975.5
FL	104.0	183.0	307.6	513.5	857.8	1396.1	2318.6	3747.7	5906.0	8841.9	12329.8	16095.7	19654.1	22897.4	25388.2	27265.0	28682.9	29780.2	30527.1
GA	39.2	69.9	149.3	332.6	741.3	1428.7	2301.7	3143.7	3801.7	4201.8	4421.6	4579.4	4709.8	4836.1	4938.5	5038.3	5121.5	5191.1	5254.3
IA	0.0	0.0	0.0	0.1	0.4	1.9	8.2	36.4	149.3	497.5	1036.9	1549.0	1988.8	2440.7	2893.6	3270.1	3539.7	3711.9	3826.0
ID	0.0	0.0	0.0	0.1	0.2	0.3	0.6	1.0	1.6	2.7	4.6	7.7	12.7	21.0	34.2	54.4	84.6	127.1	184.6
IL	12.4	15.5	19.8	24.3	30.7	37.6	47.9	65.2	89.4	123.4	173.0	244.6	345.1	487.4	680.7	938.8	1265.2	1689.8	2211.5
IN	0.1	0.3	0.6	1.2	2.1	3.2	5.0	7.8	12.0	18.6	28.7	44.9	70.7	113.9	186.7	309.3	519.5	860.2	1368.2
KS	0.4	1.0	2.1	3.9	7.3	13.7	29.0	68.2	168.6	399.6	806.7	1296.4	1753.1	1776.9	1809.1	1850.3	1902.5	1967.6	2046.5
KY	0.0	0.1	0.2	0.4	0.7	1.2	2.0	3.3	5.4	8.9	14.6	23.9	38.9	62.8	100.4	158.5	244.9	368.1	536.1
LA	1.5	7.1	28.9	113.3	393.8	1021.9	2268.1	4070.6	6025.4	6284.2	6431.7	6533.7	6603.8	6654.2	6708.9	6764.8	6810.8	6862.4	6915.0
MA	418.4	1168.2	2712.2	4420.2	5165.2	5729.4	6079.0	6213.2	6328.5	6378.3	6414.4	6425.7	6445.4	6455.5	6463.3	6473.0	6487.7	6494.8	6499.2
MD	132.6	250.0	568.7	1338.5	2288.8	2995.8	3798.4	4872.7	6056.3	7018.0	7249.2	7512.0	7734.2	7889.8	7978.9	8053.9	8101.6	8128.9	8148.3
ME	10.7	21.2	43.4	93.8	186.1	301.9	459.6	662.3	887.0	937.0	975.6	1002.3	1021.5	1033.7	1043.2	1050.6	1058.4	1064.3	1068.3
MI	0.7	1.6	3.0	4.8	7.8	12.4	19.3	29.7	45.6	69.7	105.6	160.0	238.9	359.6	529.6	771.5	1105.7	1395.9	1770.7
MN	0.0	0.0	0.1	0.2	0.4	0.9	2.0	4.9	11.7	27.2	60.6	123.3	239.6	425.6	669.9	943.6	1242.2	1581.7	1955.0
MO	26.7	73.0	191.3	483.4	1071.5	1562.6	2040.5	2591.2	3243.9	3259.1	3267.3	3271.8	3274.6	3276.7	3281.0	3285.4	3289.3	3292.2	3296.8
MS	0.3	0.9	1.9	4.2	8.5	15.7	29.9	57.4	108.8	203.4	364.4	631.2	1024.7	1558.2	2149.5	2780.2	3315.3	3805.7	3885.8

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Scenario 8 NEM Policies Extended for 10 Years - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.4	1.0	1.8	2.9	4.2	5.6	7.5	9.9	13.0	17.0	21.8	28.0	35.9	45.8	58.3	73.9	93.2	117.0	145.8
NC	69.1	99.2	165.5	430.3	1082.0	1754.9	2921.6	4565.5	6595.2	8271.3	9465.8	10458.7	11192.1	11733.3	12058.8	12270.2	12440.1	12604.8	12791.6
ND	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8
NE	0.1	0.2	0.3	0.6	1.0	1.5	2.4	4.0	6.9	12.1	21.7	39.8	72.6	128.0	208.6	310.5	447.2	468.3	496.4
NH	0.8	1.9	3.9	7.5	13.1	24.6	44.1	80.7	140.4	239.4	396.2	597.5	888.0	1005.7	1104.5	1179.6	1240.4	1281.5	1308.9
NJ	970.5	1207.7	1612.1	2256.9	3052.7	3751.7	4589.8	5483.8	6159.6	6351.1	6486.7	6604.3	6693.9	6753.3	6801.7	6841.4	6870.6	6894.3	6920.1
NM	62.3	142.6	317.9	670.5	1127.9	1448.7	1776.7	2013.0	2248.5	2417.0	2518.3	2592.4	2644.9	2681.9	2720.2	2746.2	2765.5	2785.7	2802.3
NV	61.4	96.9	180.6	419.7	664.1	805.2	967.1	1132.1	1151.4	1174.9	1198.9	1233.7	1267.6	1314.4	1367.6	1415.6	1466.5	1530.0	1595.1
NY	281.8	720.6	1677.4	3455.6	5003.9	5600.2	6377.2	7075.8	7180.0	7234.7	7264.0	7282.0	7296.6	7307.0	7319.6	7333.2	7347.0	7360.9	7372.8
OH	46.7	49.9	55.2	64.8	78.4	95.9	122.5	165.6	233.4	339.7	502.3	751.5	1121.9	1659.5	2373.2	3256.1	4266.6	5333.0	6407.6
OK	0.1	0.2	0.5	1.4	2.9	5.5	10.5	20.8	40.7	78.7	149.5	277.3	497.0	857.9	1397.9	2077.5	2875.3	3704.6	4526.8
OR	78.6	99.6	123.1	166.1	230.8	316.6	437.2	588.5	764.0	933.6	1070.5	1172.9	1239.5	1277.1	1306.1	1321.1	1342.2	1357.8	1368.7
PA	202.6	232.5	272.7	323.2	388.1	468.2	566.8	692.0	849.1	1042.0	1272.9	1561.7	1892.6	2291.6	2753.4	3264.8	3850.6	4491.0	5183.4
RI	0.3	0.8	1.6	2.9	4.8	8.2	13.5	21.3	34.1	53.7	79.9	124.4	180.0	253.0	353.6	414.9	473.2	527.3	569.8
SC	0.0	0.0	0.1	0.2	0.5	1.3	3.6	9.7	26.1	70.0	181.8	446.6	938.9	1713.5	2666.3	3810.3	5049.9	5307.9	5498.2
SD	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.5	3.4	4.7	6.6	9.3	13.1	18.0
TN	43.5	54.2	70.7	86.9	111.6	146.2	196.4	268.4	369.4	509.0	681.9	894.2	1143.8	1425.5	1713.6	1980.9	2220.9	2417.3	2575.7
TX	94.3	203.4	487.2	1300.5	2906.2	5114.5	8177.0	11966.3	16009.4	18794.1	20785.5	22242.0	23453.1	24381.0	25180.8	25866.9	26591.3	27188.3	27770.6
UT	0.0	0.1	0.4	1.2	3.3	8.8	23.5	59.9	138.0	259.7	452.6	712.0	1026.7	1422.0	1769.6	2002.4	2223.6	2382.9	2391.7
VA	0.1	0.3	0.7	1.7	3.2	4.9	7.8	12.8	21.1	34.6	56.4	92.4	150.9	246.8	398.7	636.4	995.9	1512.9	2214.3
VT	20.2	40.4	65.6	124.8	218.6	317.2	432.2	546.0	652.9	732.1	743.8	750.9	756.6	760.2	762.5	764.0	765.1	765.8	766.4
WA	34.7	54.2	78.0	93.9	107.6	115.0	124.4	140.6	149.3	159.1	172.0	189.0	209.3	231.4	256.8	286.7	318.4	350.7	382.0
WI	22.5	31.9	46.3	67.4	98.7	141.5	208.2	308.9	455.8	664.1	946.1	1305.5	1724.5	2225.2	2734.9	3246.7	3712.8	4123.3	4490.2
WV	0.1	0.3	0.6	1.2	1.7	2.1	2.7	3.5	4.6	6.1	7.9	10.1	12.9	16.5	21.1	26.7	33.9	42.7	53.7
WY	0.1	0.2	0.5	1.1	1.8	2.6	3.8	5.7	8.2	11.8	16.9	24.1	33.9	48.0	67.1	93.8	130.8	180.4	247.2

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Scenario 9 NEM Policies Phase Down to Wholesale over 10 Years - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
U.S	6838.5	12206.3	21459.0	33858.9	44946.2	54225.7	65930.2	80173.8	96156.4	110455.9	123654.5	136195.4	148298.9	159818.3	170364.8	180219.4	189507.7	198175.1	206347.1
AL	0.1	0.2	0.3	0.4	0.6	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.0	2.2	2.4	2.6
AR	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.6	1.1	1.9	3.3	5.6	9.5	16.1	27.0	44.8	72.9	116.0	179.5
AZ	644.6	1304.4	2272.1	3854.3	5155.6	5836.9	6428.1	7033.3	7626.2	7932.5	8250.6	8478.2	8590.6	8656.8	8717.4	8794.5	8845.2	8876.9	8918.3
CA	3137.0	5548.0	9439.9	14129.4	15792.3	17210.9	18674.6	20495.8	22359.2	23942.9	25389.4	26456.7	27403.7	28138.9	28724.9	29177.0	29521.1	29773.1	29944.8
CO	178.0	213.8	301.1	505.7	827.5	1169.4	1646.3	2201.9	2830.5	3462.8	4012.1	4477.3	4877.9	5149.2	5366.2	5560.0	5705.6	5844.9	5945.5
CT	91.2	213.6	474.5	972.1	1563.8	1899.9	2182.9	2443.9	2677.7	2860.3	3055.3	3246.0	3423.9	3621.4	3787.8	3944.4	4126.3	4268.9	4416.2
DC	13.5	21.8	31.7	45.6	58.2	68.7	83.9	103.3	121.5	145.6	168.2	191.6	218.9	245.4	264.7	285.4	305.8	320.8	337.7
DE	20.7	26.1	36.7	53.4	79.2	118.5	170.6	234.1	298.4	361.2	400.8	441.0	476.3	513.6	555.9	597.0	644.5	695.5	744.3
FL	104.0	183.0	307.6	513.5	857.8	1396.1	2318.6	3747.7	5906.0	8841.9	12329.8	16095.7	19654.1	22897.4	25388.2	27265.0	28682.9	29780.2	30527.1
GA	39.2	81.3	183.6	408.9	864.4	1554.3	2431.1	3281.4	3953.8	4368.0	4600.0	4761.2	4895.4	5027.6	5137.0	5239.6	5326.2	5397.4	5461.2
IA	0.0	0.0	0.0	0.1	0.4	1.9	8.2	36.4	149.3	497.5	1036.9	1549.0	1988.8	2440.7	2893.6	3270.1	3539.7	3711.9	3826.0
ID	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.8	1.4	2.3	3.9	6.6	10.9	18.1	29.7	47.5	74.6	113.4	167.4
IL	12.4	15.5	19.8	24.3	30.7	37.6	47.9	65.2	89.4	123.4	173.0	244.6	345.1	487.4	680.7	938.8	1234.6	1560.6	1902.7
IN	0.1	0.3	0.6	1.2	2.1	3.2	5.0	7.8	12.0	18.6	28.7	44.9	70.7	113.9	186.7	298.7	458.9	620.8	768.2
KS	0.4	1.0	2.1	3.9	7.3	13.7	29.0	68.2	155.2	305.5	432.7	492.6	518.7	547.3	583.5	628.4	684.3	754.3	836.7
KY	0.0	0.1	0.2	0.4	0.7	1.2	2.0	3.3	5.4	8.9	14.6	23.9	38.9	62.8	100.4	158.5	285.7	454.5	653.2
LA	1.5	7.1	28.9	113.3	362.1	755.6	1387.4	2158.3	2858.6	3305.3	3586.9	3798.6	3969.7	4096.1	4227.0	4357.2	4476.2	4590.0	4708.6
MA	418.4	1168.2	2392.2	3466.2	4125.3	4428.3	4654.9	4824.3	4958.2	5013.6	5052.0	5066.3	5085.0	5094.8	5102.7	5112.7	5127.7	5134.8	5139.2
MD	132.6	250.0	568.7	1338.5	2288.8	2556.5	2886.0	3292.3	3718.4	4100.4	4328.2	4571.7	4764.8	4895.2	4972.4	5037.3	5079.2	5103.2	5122.1
ME	10.7	21.2	43.4	93.8	174.5	230.9	300.4	375.2	445.7	502.6	545.8	575.3	596.6	611.0	622.2	630.8	639.5	647.0	652.7
MI	0.7	1.6	3.0	4.8	7.8	12.4	19.3	29.7	45.6	69.7	105.6	160.0	239.8	352.4	498.3	688.7	907.5	1196.3	1570.4
MN	0.0	0.0	0.1	0.2	0.4	0.9	2.0	4.9	11.7	27.2	60.6	123.3	239.6	425.6	669.9	943.6	1242.2	1581.7	1955.0
MO	26.7	73.0	191.3	483.4	918.2	1200.2	1415.0	1574.2	1719.2	1779.9	1811.6	1826.2	1833.7	1839.3	1848.8	1857.4	1867.1	1874.3	1883.1
MS	0.3	0.9	1.9	4.2	8.5	15.7	29.9	57.4	108.8	203.4	364.4	631.2	1024.7	1368.0	1633.0	1867.3	2030.1	2158.6	2244.4

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Scenario 9 NEM Policies Phase Down to Wholesale over 10 Years - Cumulative Installed Capacity (MW_{DC})

State	2014	2016	2018	2020	2022	2024	2026	2028	2030	2032	2034	2036	2038	2040	2042	2044	2046	2048	2050
MT	0.4	1.0	1.8	2.9	4.2	5.6	7.5	9.9	13.0	17.0	21.8	28.0	35.9	45.8	58.3	73.9	93.2	117.0	145.8
NC	69.1	99.2	165.5	430.3	1082.0	1754.9	2921.6	4565.5	6595.2	8271.3	9465.8	10458.7	11192.1	11733.3	12058.8	12270.2	12440.1	12604.8	12791.6
ND	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8
NE	0.1	0.2	0.3	0.6	1.0	1.5	2.4	4.0	6.9	12.1	21.7	39.8	71.4	108.9	127.3	143.0	159.7	181.1	209.8
NH	0.8	1.9	3.9	7.5	13.1	24.6	44.1	80.7	138.0	228.6	360.1	523.4	673.4	809.7	916.5	998.1	1062.5	1105.4	1138.5
NJ	970.5	1207.7	1612.1	2256.9	2873.2	3205.4	3566.1	3926.2	4186.2	4397.8	4544.9	4670.8	4765.9	4829.4	4881.1	4923.3	4956.3	4982.1	5011.2
NM	62.3	142.6	317.9	670.5	1127.9	1448.7	1776.7	2013.0	2248.5	2417.0	2518.3	2592.4	2644.9	2681.9	2720.2	2746.2	2765.5	2785.7	2802.3
NV	61.4	96.9	180.6	353.0	420.0	429.9	444.7	459.8	485.5	521.3	555.0	595.6	639.6	693.0	763.0	823.0	895.6	968.8	1038.5
NY	281.8	720.6	1677.4	2016.8	2466.2	2727.8	2951.0	3125.2	3344.5	3472.8	3539.9	3579.6	3610.0	3646.5	3683.0	3714.5	3747.0	3783.0	3817.7
OH	46.7	49.9	55.2	64.8	78.4	95.9	122.5	165.6	233.4	339.7	502.3	751.5	1121.9	1659.5	2373.2	3256.1	4266.6	5333.0	6407.6
OK	0.1	0.2	0.5	1.4	2.9	5.5	10.5	20.8	40.7	78.7	149.5	277.3	497.0	857.9	1397.9	2077.5	2875.3	3704.6	4526.8
OR	78.6	114.4	142.9	194.4	265.9	352.0	473.4	624.9	800.8	970.4	1107.6	1210.3	1277.5	1314.2	1342.6	1357.3	1378.1	1393.6	1404.3
PA	202.6	232.5	272.7	323.2	388.1	468.2	566.8	692.0	849.1	1042.0	1272.9	1561.7	1892.6	2291.6	2753.4	3264.8	3850.6	4491.0	5183.4
RI	0.3	0.8	1.6	2.9	4.8	8.2	13.5	21.3	34.1	53.7	83.3	123.8	168.0	225.0	282.8	344.8	402.9	456.8	498.9
SC	0.0	0.0	0.1	0.2	0.5	1.3	3.6	9.7	26.1	70.0	181.8	446.6	986.7	1699.2	2460.6	3169.7	3652.1	4045.0	4319.1
SD	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.3	3.2	4.4	6.1	8.5	12.0	16.4
TN	45.3	59.0	79.1	98.9	125.5	157.6	203.5	269.0	360.9	488.6	646.9	843.3	1077.9	1348.9	1633.3	1905.5	2157.9	2371.4	2547.8
TX	108.7	220.8	455.7	1130.6	2540.6	4462.9	7385.5	11236.6	15556.3	18638.1	20836.9	22445.2	23755.2	24746.4	25572.9	26277.9	27013.4	27614.8	28200.5
UT	0.0	0.1	0.4	1.2	3.3	8.8	23.5	59.9	138.0	259.7	452.6	712.0	1026.7	1282.4	1394.4	1441.7	1468.8	1483.4	1497.2
VA	0.1	0.3	0.7	1.7	3.2	4.9	7.8	12.8	21.1	34.6	56.4	92.4	150.9	246.8	384.7	566.4	777.7	1004.1	1244.1
VT	20.2	40.4	65.6	124.8	218.6	298.2	357.0	401.9	430.5	449.7	463.7	472.3	479.4	484.0	488.1	490.4	492.1	494.3	495.9
WA	34.7	54.2	78.0	88.8	97.9	103.4	108.9	115.5	123.9	133.0	144.8	160.4	179.2	200.3	225.2	254.6	286.2	318.9	351.2
WI	22.5	31.9	46.3	67.4	98.7	141.5	208.2	308.9	455.8	664.1	946.1	1305.5	1724.5	2225.2	2734.9	3246.7	3712.8	4123.3	4490.2
WV	0.1	0.3	0.6	1.2	1.7	2.1	2.7	3.5	4.6	6.1	7.9	10.1	12.9	16.5	21.1	26.7	33.9	42.7	53.7
WY	0.1	0.2	0.5	1.1	1.8	2.6	3.8	5.7	8.2	11.8	16.9	24.1	33.9	48.0	67.1	93.8	130.8	180.4	247.2

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