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Appendix C: Further Detail Regarding State RPS Modeling by NEEM Region

This appendix contains a general summary regarding targets contained in state RPS policies in the Eastern Interconnect prepared by CRA at the request of the EIPC stakeholders. It is intended for informational purposes only to assist stakeholders in assessing how RPS policies can be ascribed to NEEM regions for general modeling purposes. It should not be interpreted to constitute an opinion by CRA regarding specific state RPS statutes or regulations.

VACAR Non-Solar RPS

	RPS Statutory Requirement																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NC - IOUs	0.00%	2.93%	2.93%	2.93%	5.86%	5.86%	5.86%	9.80%	9.80%	9.80%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%	12.30%
NC - Munis & Coops	0.00%	3.00%	3.00%	3.00%	6.00%	6.00%	6.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

	RPS as Percent of Calendar Year Retail State Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NC - IOUs	0.00%	2.15%	2.14%	2.15%	4.30%	4.30%	4.30%	7.19%	7.18%	7.19%	9.09%	9.08%	9.07%	9.07%	9.08%	9.08%	9.08%	9.07%	9.09%	9.07%
NC - Munis & Coops	0.00%	0.75%	0.75%	0.75%	1.51%	1.51%	1.51%	2.51%	2.51%	2.51%	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%	2.53%

	RPS as Percent of Calendar Year VACAR NEEM Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NC - IOUs	0.00%	1.18%	1.18%	1.18%	2.37%	2.36%	2.36%	3.95%	3.95%	3.95%	4.99%	4.99%	4.99%	4.98%	4.99%	4.99%	4.99%	4.99%	4.99%	4.99%
NC - Munis & Coops	0.00%	0.41%	0.41%	0.41%	0.83%	0.83%	0.83%	1.38%	1.38%	1.38%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
VACAR	0.00%	1.59%	1.59%	1.60%	3.20%	3.19%	3.19%	5.33%	5.33%	5.33%	6.38%	6.38%	6.38%	6.37%	6.38%	6.38%	6.38%	6.38%	6.38%	6.38%

Notes:

25% of North Carolina's IOU RPS may be met with energy efficiency; 100% of the RPS for munis & coops may be met with energy efficiency.
 The statutory RPS is applied to the load from the previous year.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

VACAR Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NC	0.02%	0.07%	0.07%	0.07%	0.14%	0.14%	0.14%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NC	0.01%	0.05%	0.05%	0.05%	0.10%	0.10%	0.10%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%

RPS as Percent of Calendar Year VACAR NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
VACAR	0.01%	0.03%	0.03%	0.03%	0.06%	0.06%	0.06%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%

Notes:

North Carolina's RPS only applies to Investor Owned Utilities; up to 25% can be met with energy efficiency.
 The statutory RPS is applied to the load from the previous year.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

NH Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NH	0.08%	0.15%	0.20%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NH	0.08%	0.15%	0.20%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%

RPS as Percent of Calendar Year NEISO NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NEISO	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%

Notes:

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

MA Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MA	0.16%	0.21%	0.27%	0.36%	0.46%	0.60%	0.79%	1.02%	1.33%	1.73%	2.24%	2.92%	3.79%	4.93%	5.67%	5.61%	5.55%	5.49%	5.44%	5.38%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MA	0.16%	0.21%	0.27%	0.36%	0.46%	0.60%	0.79%	1.02%	1.33%	1.73%	2.24%	2.92%	3.79%	4.93%	5.67%	5.61%	5.55%	5.49%	5.44%	5.38%

RPS as Percent of Calendar Year NEISO NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NEISO	0.07%	0.09%	0.11%	0.15%	0.19%	0.25%	0.33%	0.42%	0.55%	0.71%	0.93%	1.21%	1.57%	2.04%	2.35%	2.32%	2.30%	2.27%	2.25%	2.23%

Notes:

2010, the Solar Carve-Out compliance obligation has been set at 30 megawatts (MW) direct current (DC). The Solar Carve-Out Minimum Standard in turn is calculated by dividing the annual compliance obligation in megawatt hours (MWh) by the total RPS load obligation from the previous year. For 2010, the final Solar Carve-Out Minimum Standard is 0.0679%. In subsequent years, the Solar Carve-Out Minimum Standard is scheduled to increase 30% plus or minus the under- or oversupply of solar generation experienced during the year. For 2011, the Minimum Standard is estimated to increase to 0.1627%. The Solar Carve-Out Minimum Standard will be at least equal to the standard from the previous year. When 400 MW (DC) of qualifying solar facilities have been installed, no additional solar facilities will be qualified for the Solar Carve-Out, although they would be eligible to qualify as a RPS Class I Renewable facility and continue to satisfy the overall Class I Standard.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

NEISO RPS

	RPS Statutory Requirement																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
CT	11.00%	12.00%	13.00%	14.00%	15.50%	17.00%	18.50%	20.00%	21.50%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%
MA	8.84%	9.79%	10.73%	11.64%	12.54%	13.40%	14.21%	14.98%	15.67%	16.27%	16.76%	17.08%	17.21%	17.07%	17.33%	18.39%	19.45%	20.51%	21.56%	22.62%
ME	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
NH	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%
RI	5.50%	6.50%	7.50%	8.50%	10.00%	11.50%	13.00%	14.50%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%

	RPS as Percent of Calendar Year Retail State Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
CT	11.00%	12.00%	13.00%	14.00%	15.50%	17.00%	18.50%	20.00%	21.50%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%	23.00%
MA	8.84%	9.79%	10.73%	11.64%	12.54%	13.40%	14.21%	14.98%	15.67%	16.27%	16.76%	17.08%	17.21%	17.07%	17.33%	18.39%	19.45%	20.51%	21.56%	22.62%
ME	2.00%	2.50%	3.00%	3.50%	4.00%	4.50%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
NH	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%
RI	5.50%	6.50%	7.50%	8.50%	10.00%	11.50%	13.00%	14.50%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%	16.00%

	RPS as Percent of Calendar Year NEISO NEEM Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
CT	2.49%	2.72%	2.94%	3.17%	3.51%	3.85%	4.19%	4.53%	4.87%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%	5.21%
MA	3.66%	4.05%	4.44%	4.82%	5.19%	5.55%	5.88%	6.20%	6.49%	6.74%	6.94%	7.07%	7.12%	7.07%	7.17%	7.61%	8.05%	8.49%	8.93%	9.36%
ME	0.17%	0.21%	0.26%	0.30%	0.34%	0.39%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%
NH	0.16%	0.24%	0.33%	0.41%	0.49%	0.57%	0.65%	0.73%	0.81%	0.90%	0.98%	1.06%	1.14%	1.22%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
RI	0.32%	0.38%	0.44%	0.49%	0.58%	0.67%	0.75%	0.84%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%
NEISO	6.80%	7.60%	8.40%	9.19%	10.11%	11.02%	11.91%	12.73%	13.53%	14.20%	14.48%	14.69%	14.83%	14.85%	15.04%	15.48%	15.92%	16.36%	16.79%	17.23%

Notes:

Includes both Class I and Class II requirements for Massachusetts and Connecticut.

Only renewables built after 2005 are applied to the Maine and New Hampshire RPS; since Maine's standard is a capacity standard a 50% capacity factor is assumed for energy purposes.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

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NY RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NY	22.00%	24.00%	26.00%	28.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NY	15.79%	17.25%	18.71%	20.17%	21.64%	21.64%	21.64%	21.64%	21.64%	21.65%	21.65%	21.65%	21.65%	21.66%	21.66%	21.66%	21.66%	21.66%	21.66%	21.67%

RPS as Percent of Calendar Year NYISO NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NYISO	14.68%	16.04%	17.40%	18.76%	20.12%	20.12%	20.12%	20.13%	20.13%	20.13%	20.13%	20.14%	20.14%	20.14%	20.14%	20.14%	20.14%	20.15%	20.15%	20.15%

Notes:

RPS as percent of retail load and NEEM load adjusted for 600,000 MWh of customer sited generation not modeled in NEEM.

73% of New York load subject to RPS, per LBEL/Wiser April 2008 RPS Report

NYISO losses assumed to be 7%.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

MO Non-Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MO	1.96%	1.96%	1.96%	4.90%	4.90%	4.90%	4.90%	9.80%	9.80%	9.80%	14.70%	14.70%	14.70%	14.70%	14.70%	14.70%	14.70%	14.70%	14.70%	14.70%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MO	1.36%	1.36%	1.36%	3.41%	3.41%	3.41%	3.41%	6.82%	6.82%	6.82%	10.23%	10.23%	10.23%	10.23%	10.23%	10.23%	10.23%	10.23%	10.23%	10.23%

RPS as Percent of Calendar Year EMO & ENT NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
EMO & ENT	0.54%	0.54%	0.54%	1.35%	1.35%	1.35%	1.35%	2.69%	2.69%	2.69%	4.04%	4.04%	4.04%	4.04%	4.04%	4.04%	4.04%	4.04%	4.04%	4.04%

Notes:

In state generation receives a 1.25 multiplier towards RPS compliance.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

MO Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MO	0.04%	0.04%	0.04%	0.10%	0.10%	0.10%	0.10%	0.20%	0.20%	0.20%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MO	0.03%	0.03%	0.03%	0.07%	0.07%	0.07%	0.07%	0.14%	0.14%	0.14%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%	0.21%

RPS as Percent of Calendar Year EMO & ENT NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
EMO & ENT	0.01%	0.01%	0.01%	0.03%	0.03%	0.03%	0.03%	0.05%	0.05%	0.05%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%

Notes:

In state generation receives a 1.25 multiplier towards RPS compliance.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

KS RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
KS	10.00%	10.00%	10.00%	10.00%	10.00%	15.00%	15.00%	15.00%	15.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%

RPS as Percent of Calendar Year State Peak Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
KS	8.22%	7.89%	8.01%	8.16%	8.38%	12.40%	12.16%	12.20%	11.99%	16.15%	16.36%	16.39%	16.38%	16.36%	16.37%	16.38%	16.37%	16.36%	16.37%	16.37%

RPS as Percent of Calendar Year SPP_N NEEM Peak Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
SPP_N	4.20%	4.04%	4.10%	4.17%	4.29%	6.34%	6.22%	6.24%	6.13%	8.26%	8.37%	8.38%	8.38%	8.37%	8.37%	8.38%	8.37%	8.37%	8.37%	8.37%

Notes:

Only investor owned and cooperative utilities are subject to the RPS.
 RPS compliance determined as percent of average of previous 3 years' peaks.
 In state capacity counts 1.1 x towards RPS.

Sources:

EIA 906
 RPS policies: <http://www.dsire.org>

Ohio Non-Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ohio	1.00%	1.50%	2.00%	2.50%	3.50%	4.50%	5.50%	6.50%	7.50%	8.50%	9.50%	10.50%	11.50%	12.50%	12.50%	12.50%	12.50%	12.50%	12.50%	12.50%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ohio	0.86%	1.28%	1.71%	2.16%	3.03%	3.89%	4.76%	5.62%	6.49%	7.35%	8.22%	9.09%	9.96%	10.82%	10.83%	10.84%	10.84%	10.84%	10.84%	10.84%

RPS as Percent of Calendar Year MISO_E, PJM_Midwest & NonRTO_Midwest NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Midwest	0.29%	0.43%	0.58%	0.73%	1.02%	1.31%	1.60%	1.89%	2.19%	2.48%	2.77%	3.06%	3.36%	3.65%	3.65%	3.65%	3.65%	3.65%	3.65%	3.65%

Notes:

Ohio RPS can be met by existing qualifying renewables and hydro.

Only Investor Owned Utilities fall under the RPS.

RPS compliance determined as percent of average of previous 3 years sales.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

Ohio Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ohio	0.03%	0.06%	0.09%	0.12%	0.15%	0.18%	0.22%	0.26%	0.30%	0.34%	0.38%	0.42%	0.46%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Ohio	0.03%	0.05%	0.08%	0.10%	0.13%	0.16%	0.19%	0.22%	0.26%	0.29%	0.33%	0.36%	0.40%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%

RPS as Percent of Calendar Year MISO_E, PJM_Midwest & NonRTO_Midwest NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Midwest	0.01%	0.02%	0.03%	0.03%	0.04%	0.05%	0.06%	0.08%	0.09%	0.10%	0.11%	0.12%	0.13%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%

Notes:

Only Investor Owned Utilities fall under the RPS.

RPS compliance determined as percent of average of previous 3 years sales.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

MI RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MI	0.00%	5.44%	6.74%	8.44%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MI	0.00%	5.44%	6.74%	8.44%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

RPS as Percent of Calendar Year MI NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MI	0.00%	5.70%	7.06%	8.84%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%	10.47%

Notes:

Michigan 2012 - 2014 RPS calculated based on 2009 baseline renewable generation.

Solar generation receives double credit towards filling the RPS requirement; energy efficiency can be used to meet 10% of the RPS; existing hydro and renewables can also meet the RPS.

NEEM MI load excludes the UP.

Sources:

EIA 906

RPS policies: <http://www.dsire.org>

MRETS RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
WI	7.50%	7.50%	7.50%	7.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
MN (Xcel)	15.00%	18.00%	18.00%	18.00%	18.00%	25.00%	25.00%	25.00%	25.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
MN (Non-Xcel)	0.00%	12.00%	12.00%	12.00%	12.00%	17.00%	17.00%	17.00%	17.00%	20.00%	20.00%	20.00%	20.00%	20.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
IL	6.00%	7.00%	8.00%	9.00%	10.00%	11.50%	13.00%	14.50%	16.00%	17.50%	19.00%	20.50%	22.00%	23.50%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
WI	7.50%	7.50%	7.50%	7.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%
MN (Xcel)	7.23%	8.68%	8.68%	8.68%	8.68%	12.06%	12.06%	12.06%	12.06%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%	14.47%
MN (Non-Xcel)	0.00%	6.21%	6.21%	6.21%	6.21%	8.80%	8.80%	8.80%	8.80%	10.35%	10.35%	10.35%	10.35%	10.35%	12.94%	12.94%	12.94%	12.94%	12.94%	12.94%
IL	3.36%	3.92%	4.48%	5.04%	5.60%	6.44%	7.28%	8.12%	8.96%	9.80%	10.64%	11.48%	12.32%	13.16%	14.00%	14.00%	14.00%	14.00%	14.00%	14.00%

RPS as Percent of Calendar Year MAPP_US, WUMS, SCIL & NI NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
WI	1.29%	1.28%	1.27%	1.27%	1.93%	1.92%	1.92%	1.91%	1.91%	1.90%	1.90%	1.90%	1.90%	1.90%	1.89%	1.89%	1.89%	1.89%	1.88%	1.88%
MN (Xcel)	1.20%	1.43%	1.42%	1.41%	1.40%	1.94%	1.94%	1.94%	1.93%	2.31%	2.31%	2.31%	2.30%	2.30%	2.30%	2.29%	2.29%	2.29%	2.29%	2.29%
MN (Non-Xcel)	0.00%	1.02%	1.01%	1.01%	1.00%	1.42%	1.42%	1.41%	1.41%	1.66%	1.65%	1.65%	1.65%	1.65%	2.05%	2.05%	2.05%	2.05%	2.05%	2.05%
IL	1.22%	1.44%	1.66%	1.89%	2.11%	2.44%	2.76%	3.09%	3.42%	3.75%	4.08%	4.41%	4.74%	5.07%	5.40%	5.41%	5.42%	5.43%	5.43%	5.44%
MRETS	3.71%	5.17%	5.37%	5.57%	6.45%	7.72%	8.04%	8.35%	8.67%	9.62%	9.94%	10.27%	10.59%	10.91%	11.65%	11.65%	11.65%	11.65%	11.65%	11.65%

Notes:
 Minnesota has different requirements for Xcel and the rest of the state. Xcel is estimated to account for approximately 48% of state load.
 Wisconsin's RPS is calculated based on its baseline renewable generation from 2001 - 2003.
 56% of Illinois load subject to RPS, per p. 9 of LBEL/Wiser April 2008 RPS Report

Sources:
 EIA 906
 RPS policies: <http://www.dsire.org>

PJM Non-Solar RPS

	RPS Statutory Requirement																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	3.96%	4.93%	6.40%	7.87%	9.33%	11.29%	13.25%	15.20%	17.15%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%
DE	6.80%	8.10%	9.40%	10.70%	12.00%	13.25%	14.50%	15.75%	17.00%	17.75%	18.50%	19.25%	20.00%	20.75%	21.50%	21.50%	21.50%	21.50%	21.50%	21.50%
MD	4.95%	6.40%	8.00%	10.00%	10.10%	12.20%	12.55%	14.90%	16.20%	16.50%	16.85%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%
NJ	6.32%	7.14%	7.98%	8.81%	9.65%	10.49%	12.33%	14.18%	16.03%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%
PA	3.47%	3.95%	4.42%	4.86%	5.25%	5.71%	6.16%	6.61%	7.06%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%

	RPS as Percent of Calendar Year Retail State Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	3.96%	4.93%	6.40%	7.87%	9.33%	11.29%	13.25%	15.20%	17.15%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%	19.60%
DE	3.63%	4.59%	5.39%	6.19%	6.99%	7.77%	8.54%	9.31%	10.08%	10.70%	11.16%	11.62%	12.08%	12.54%	13.01%	13.24%	13.24%	13.24%	13.24%	13.24%
MD	4.95%	6.40%	8.00%	10.00%	10.10%	12.20%	12.55%	14.90%	16.20%	16.50%	16.85%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	18.00%
NJ	5.91%	6.73%	7.56%	8.39%	9.23%	10.07%	11.41%	13.25%	15.10%	16.95%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%	17.88%
PA	3.22%	3.71%	4.18%	4.64%	5.05%	5.48%	5.93%	6.39%	6.83%	7.28%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%

	RPS as Percent of Calendar Year PJM_E, PJM_W & PJM_SW NEEM Load																			
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	0.16%	0.20%	0.26%	0.32%	0.38%	0.46%	0.54%	0.62%	0.70%	0.80%	0.80%	0.80%	0.80%	0.80%	0.81%	0.81%	0.81%	0.81%	0.81%	0.81%
DE	0.14%	0.18%	0.21%	0.24%	0.27%	0.30%	0.33%	0.36%	0.39%	0.41%	0.43%	0.45%	0.46%	0.48%	0.50%	0.51%	0.51%	0.51%	0.51%	0.51%
MD	1.05%	1.34%	1.67%	2.08%	2.10%	2.54%	2.62%	3.11%	3.39%	3.46%	3.54%	3.78%	3.79%	3.79%	3.79%	3.80%	3.80%	3.81%	3.81%	3.81%
NJ	1.53%	1.74%	1.96%	2.18%	2.39%	2.61%	2.95%	3.43%	3.90%	4.38%	4.61%	4.61%	4.61%	4.61%	4.61%	4.60%	4.60%	4.60%	4.60%	4.59%
PA	1.58%	1.82%	2.06%	2.29%	2.49%	2.70%	2.92%	3.15%	3.36%	3.58%	3.69%	3.69%	3.69%	3.68%	3.68%	3.68%	3.68%	3.68%	3.68%	3.68%
PJM Classic	4.46%	5.29%	6.16%	7.10%	7.63%	8.61%	9.36%	10.66%	11.74%	12.63%	13.07%	13.33%	13.35%	13.37%	13.39%	13.40%	13.40%	13.40%	13.40%	13.40%

Notes:
 The policy years for the implementation of the RPS in Delaware, New Jersey and Pennsylvania refer to years ending on May 31. For NEEM model years, CRA takes the simple average of the current and subsequent policy year RPS to calculate the NEEM RPS.
 Only Investor Owned Utilities, which accounted for slightly greater than 60% of total sales in 2007, are subject to the RPS requirement in Delaware.

Sources:
 EIA 906
 RPS policies: <http://www.dsire.org>

PJM Solar RPS

RPS Statutory Requirement																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	0.04%	0.07%	0.10%	0.13%	0.17%	0.21%	0.25%	0.30%	0.35%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%
DE	0.20%	0.40%	0.60%	0.80%	1.00%	1.25%	1.50%	1.75%	2.00%	2.25%	2.50%	2.75%	3.00%	3.25%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
MD	0.05%	0.10%	0.20%	0.30%	0.40%	0.50%	0.55%	0.90%	1.20%	1.50%	1.85%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
NJ	0.39%	0.50%	0.62%	0.77%	0.93%	1.12%	1.33%	1.57%	1.84%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
PA	0.03%	0.05%	0.08%	0.14%	0.25%	0.29%	0.34%	0.39%	0.44%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%

RPS as Percent of Calendar Year Retail State Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	0.04%	0.07%	0.10%	0.13%	0.17%	0.21%	0.25%	0.30%	0.35%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%	0.40%
DE	0.07%	0.18%	0.31%	0.43%	0.55%	0.69%	0.85%	1.00%	1.15%	1.31%	1.46%	1.62%	1.77%	1.92%	2.08%	2.15%	2.15%	2.15%	2.15%	2.15%
MD	0.05%	0.10%	0.20%	0.30%	0.40%	0.50%	0.55%	0.90%	1.20%	1.50%	1.85%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
NJ	0.35%	0.45%	0.56%	0.69%	0.85%	1.02%	1.23%	1.45%	1.70%	1.98%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
PA	0.03%	0.04%	0.07%	0.11%	0.20%	0.27%	0.32%	0.37%	0.42%	0.47%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%

RPS as Percent of Calendar Year PJM_E, PJM_W & PJM_SW NEEM Load																				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
DC	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
DE	0.00%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.04%	0.04%	0.05%	0.06%	0.06%	0.07%	0.07%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%
MD	0.01%	0.02%	0.04%	0.06%	0.08%	0.10%	0.11%	0.19%	0.25%	0.31%	0.39%	0.42%	0.42%	0.42%	0.42%	0.42%	0.42%	0.42%	0.42%	0.42%
NJ	0.09%	0.12%	0.14%	0.18%	0.22%	0.27%	0.32%	0.38%	0.44%	0.51%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.54%
PA	0.01%	0.02%	0.03%	0.06%	0.10%	0.13%	0.16%	0.18%	0.21%	0.23%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
PJM Classic	0.12%	0.17%	0.24%	0.32%	0.43%	0.54%	0.63%	0.79%	0.96%	1.12%	1.25%	1.29%	1.30%	1.30%	1.31%	1.31%	1.31%	1.31%	1.31%	1.31%

Notes:
 The policy years for the implementation of the RPS in Delaware, New Jersey and Pennsylvania refer to years ending on May 31. For NEEM model years, CRA takes the simple average of the current and subsequent policy year RPS to calculate the NEEM RPS.
 Only Investor Owned Utilities, which accounted for slightly greater than 60% of total sales in 2007, are subject to the RPS requirement in Delaware.
 Delaware and Pennsylvania solar RPS are for solar PV.

Sources:
 EIA 906
 RPS policies: <http://www.dsire.org>