

The Clean Power Plan Compliance Tool

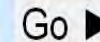
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Tip: To restore ribbon (allows saving), use Ctrl+Shift+S. To hide ribbon and maximize window, use Ctrl+Shift+L.

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MultiState: Define Region



Select Region: **Minnesota**

EE and Demand

Additional: +/- **0%** of BAU

EE Level: **EERS**
 % BAU in 2022: 7.03%
 % BAU in 2030: 9.54%

Renewable Energy

Additional: +/- **0%** of sales

RE Level: **RPS**
 26.28% of '22 sales
 28.89% of '30 sales

Coal

Capacity (MW)
 Retired: 2,249
 2012: 4,507
 % of total: 50%

Coal Fleet in More Detail

Coal Output (TWh)
 2022: +8.2%
 2030: -31.9% rel. to 2012

NGCC

Capacity (MW)
 2012: 2,017
 Queue: 1,926
 New: 1,926

Method: **Automatic**

Output Cap. Factor (Existing) Tot. TWh
 2012: 32% 5.7
 2022: 32% 0.0%
 2030: 32% 118.1% rel. to 2012

NGCC Fleet in More Detail

Adj. for EE (existing): **OFF**

Other

Nuclear

Hydro

O/G Steam

More Options: Known Future Res: ON OFF >> Auto Displace Fossil: ON OFF >>

Preset Inputs: **A** **B** **A** **B** >> Store Retrieve

Configure Options

Analysis Results - MINNESOTA -

Achieved v. Target Rate (lb/MWh; blended rate)

CO2 Emission v. Target (million ton)

Supply, BAU and Net Demand (TWh)

Resource Balance (adj. for Net Demand)

Year	Balance
2012	54 TWh
2022	24.6%
2023	22.5%
2024	16.9%
2025	22.0%
2026	19.9%
2027	23.5%
2028	22.5%
2029	21.4%
2030	21.3%

Est. ERC/Allowance Positions (Net)

(million: annual/cumulative/unused GS-ERC)

Cumulative ERC Position at End of Period (million):					Cumulative Allowance Position at End of Period (million):					Cumulative Unused GS-ERC at End of Period (million):							
	19.1	47.1	64.0	64.0	70.6		-1.9	8.2	15.9	15.9	18.6		0.0	0.0	0.0	0.0	0.0
Blended Rate lb/MWh					Mass million ton					Dual Rates (separate fossil-steam and NGCC rates)							
	'22-'24	'25-'27	'28-'29	Interim	Final		'22-'24	'25-'27	'28-'29	Interim	Final		'22-'24	'25-'27	'28-'29	Interim	Final
Target	1,535	1,383	1,277	1,414	1,213		27.3	24.9	23.5	25.4	22.7		21.6	51.1	68.4	68.4	75.2
Achieved	1,306	1,062	1,002	1,138	1,011		27.9	21.5	19.6	23.4	20.0						

Analysis Results: **Data Tables**

Compliance with only one set of targets, either rate- (blended or dual) or mass-based, is necessary.

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Figure 1- M.J. Bradley Compliance Tool Projection for Minnesota, December 10, 2015