

# EPA'S "CLEAN POWER PLAN" INDUSTRIAL ESTIMATED COSTS

*(Note: These costs would be on top of normal rate increases, which EIA has projected)*

## KEY ASSUMPTIONS:

1. All CO2 reductions achieved at average cost of \$25/ton (actual costs will depend on emission reduction strategy; e.g., costs will be significantly higher for measures like solar power).
2. CO2 reduction costs passed through in wholesale rates with multiplier of 2 for estimating retail rate impact and delivery to ultimate customers.
3. Assume 20% of gas-fired power sector generation is from peaking units excluded under rule (based on actual percentage in 2012 and consistent with EPA's proposal).
4. For simplicity, assumes flat power demand from 2012 to 2030.

INDUSTRIAL ANALYSIS							
State	Effective Proposed Reduction Requirement (lb CO2 /MWh) * by 2030	State-by-state tons reduced in year 2030 vs. 2012	Estimated Statewide Wholesale Power Cost Increase in year 2030 @\$25/ton (\$millions)	Estimated Wholesale Cost Increase per MWh (in 2030, @\$25/ton of CO2)	2013 Wholesale Weighted Average Regional Prices (\$/MWh)	Estimated 2030 Industrial Retail Cost Increase v. 2012 Industrial Retail Price (\$/MWh)	Estimated 2030 Industrial Retail Cost Increase v. 2012 Industrial Retail Price
Alabama	358	6,064,328	152	4.48	35.33	8.96	14%
Alaska	348	240,120	6	4.35	N/A	8.70	5%
Arizona	641	3,988,937	100	8.02	36.84	16.03	25%
Arkansas	688	5,807,566	145	8.60	35.33	17.20	30%
California	157	3,658,403	91	1.97	46.88	3.94	4%
Colorado	606	4,711,650	118	7.58	36.84	15.15	22%
Connecticut	164	290,588	7	2.04	65.40	4.09	3%
DC	0	0	0	0.00	45.99	0.00	0%
Delaware	393	542,537	14	4.91	45.99	9.83	12%
Florida	415	3,484,499	87	5.18	35.33	10.37	13%
Georgia	384	5,996,145	150	4.81	35.33	9.61	16%
Hawaii	234	428,454	11	2.93	N/A	5.85	2%
Idaho	111	518,370	13	1.39	37.42	2.78	5%
Illinois	549	12,341,007	309	6.87	38.11	13.74	24%
Indiana	393	9,411,957	235	4.91	38.11	9.83	16%
Iowa	247	2,427,045	61	3.09	38.11	6.19	12%
Kansas	419	2,249,100	56	5.23	36.84	10.47	15%
Kentucky	395	8,838,718	221	4.94	35.33	9.88	18%
Louisiana	553	8,422,414	211	6.92	35.33	13.84	29%
Maine	59	89,120	2	0.74	65.40	1.48	2%
Maryland	565	1,292,236	32	7.07	45.99	14.13	17%

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Massachusetts	342	2,870,525	72	4.28	65.40	8.56	7%
Michigan	498	7,796,667	195	6.23	38.11	12.45	16%
Minnesota	575	6,542,523	164	7.19	38.11	14.37	22%
Mississippi	386	3,223,639	81	4.82	35.33	9.65	15%
Missouri	406	3,594,392	90	5.07	35.33	10.15	17%
Montana	475	976,363	24	5.94	37.42	11.88	23%
Nebraska	503	2,805,290	70	6.28	36.84	12.57	18%
Nevada	341	2,337,896	58	4.26	36.84	8.53	13%
New Hampshire	296	289,320	7	3.70	65.40	7.39	6%
New Jersey	314	1,213,431	30	3.92	45.99	7.85	7%
New Mexico	538	1,960,741	49	6.73	36.84	13.45	23%
New York	351	2,330,328	58	4.39	65.40	8.78	13%
North Carolina	599	8,041,763	201	7.49	35.33	14.97	23%
North Dakota	211	531,826	13	2.64	38.11	5.28	8%
Ohio	502	13,414,400	335	6.28	45.99	12.56	20%
Oklahoma	492	4,036,122	101	6.15	36.84	12.30	24%
Oregon	345	2,060,340	52	4.31	37.42	8.63	15%
Pennsylvania	434	10,416,334	260	5.43	45.99	10.86	15%
Rhode Island	125	57,688	1	1.56	65.40	3.13	3%
South Carolina	335	4,735,875	118	4.19	35.33	8.38	14%
South Dakota	394	517,125	13	4.93	36.84	9.85	15%
Tennessee	395	5,631,087	141	4.94	35.33	9.87	14%
Texas	481	22,300,362	558	6.01	36.00	12.02	22%
Utah	491	2,380,368	60	6.14	37.42	12.28	22%
Vermont	0	0	0	0.00	65.40	0.00	0%
Virginia	445	3,818,658	95	5.56	45.99	11.12	17%
Washington	531	7,389,249	185	6.64	37.42	13.28	32%
West Virginia	399	2,365,073	59	4.99	45.99	9.98	16%
Wisconsin	610	7,198,464	180	7.62	38.11	15.24	21%
Wyoming	401	2,008,810	50	5.01	36.84	10.03	17%
<b>Totals</b>		<b>213,647,853</b>	<b>5,341</b>				

\* These are the reductions required beyond EPA's special treatment of at-risk and under construction nuclear.

Sources: EPA, EIA