

ICF Integrated Planning Model Results Included in May 19, 2021 Pennsylvania Citizens Advisory Council Meeting Materials

https://files.dep.state.pa.us/PublicParticipation/Citizens%20Advisory%20Council/CACPortalFiles/Meetings/2021_05/2021_Modeling_Reference_Case.xlsx

https://files.dep.state.pa.us/PublicParticipation/Citizens%20Advisory%20Council/CACPortalFiles/Meetings/2021_05/2021_Modeling_Policy_Case.xlsx

PA 2021 Reference
5/3/2021

Affected CO2 Emissions (Million Short Tons)

	2020	2022	2025	2028	2030	2021-2030
MA	6	7	4	5	4	50
CT	10	9	7	5	3	67
ME	1	1	-	-	0	3
NH	2	1	1	0	0	6
RI	3	3	2	2	2	25
VT	0	0	0	0	0	0
NY	24	31	23	19	15	233
DE	2	1	2	1	1	15
MD	9	13	13	12	12	124
VA	30	24	26	27	27	260
NJ	14	15	17	14	13	151
PA	76	81	65	61	58	679
Total 11-state RGGI + PA	178	186	160	146	136	1,614
Total CO2 Emissions PJM	311	347	301	297	294	3,128
Total CO2 Emissions SERC	406	399	372	384	395	3,859
Total CO2 Emissions EI	1,152	1,219	1,079	1,091	1,107	11,274

Pennsylvania CO2 Emissions by Capacity Type (Million Tons)

	2020	2022	2025	2028	2030	2021-2030
Combined Cycle	50	46	51	49	47	486
Coal	24	34	13	11	11	188
Combustion Turbine	1	0	1	1	1	6
Oil/Gas Steam	0	0	0	0	0	0
Total	76	81	65	61	58	681

PA 2021 Policy
5/3/2021

Affected CO2 Emissions (Million Short Tons)

	2020	2022	2025	2028	2030	2021-2030
MA	6	7	4	5	4	50
CT	11	9	7	5	3	67
ME	1	1	-	-	0	4
NH	2	1	1	0	0	6
RI	4	3	2	2	2	25
VT	0	0	0	0	0	0
NY	24	32	23	19	15	237
DE	2	2	2	2	2	21
MD	9	15	13	11	10	127
VA	30	25	26	27	27	261
NJ	15	17	17	15	13	159
PA	74	61	60	55	53	582
Total 12-state RGGI	178	173	155	142	129	1,539
Total CO2 Emissions PJM	310	343	299	294	291	3,100
Total CO2 Emissions SERC	404	400	372	383	395	3,863
Total CO2 Emissions EI	1,150	1,219	1,076	1,088	1,104	11,255

Pennsylvania CO2 Emissions by Capacity Type (Million Tons)

	2020	2022	2025	2028	2030	2021-2030
Combined Cycle	48	38	48	44	42	432
Coal	22	24	11	11	11	148
Combustion Turbine	4	0	1	0	0	5
Oil/Gas Steam	-	-	0	0	0	0
Total	75	61	60	56	53	584