



IEPA/BOA/IL-2025-001

Annual Greenhouse Gas Emissions Report for Sources Subject to the Illinois Climate and Equitable Jobs Act - 2024 (415 Illinois Compiled Statutes 5/9.15)

2024 Annual Greenhouse Gas Emissions Report

Pursuant to Section (n) of the Illinois Climate and Equitable Jobs Act (CEJA) (415 Illinois Compiled Statutes 5/9.15), the Illinois EPA (Agency) here provides, “a report setting forth the actual Greenhouse Gas (GHG) emissions from individual units and the aggregate statewide emissions from all units for the prior year” for all units subject to CEJA in Illinois for the year 2024.

CEJA defines “carbon dioxide emission” as, “the plant annual CO₂ total output emission as measured by the U.S. EPA in its Emissions and Generation Resource Integrated Database (eGrid), or its successor.” Because eGrid emissions data has not been updated beyond 2023, the Agency has utilized U.S. EPA’s Clean Air Markets Program Data (CAMPD)¹ database to obtain 2024 CO₂ emissions data for the large majority of the CEJA-subject units in the state. For units for which CAMPD 2024 CO₂ emissions data was not available, the Agency used a combination of source-reported data from Annual Emission Reports (AERs) and emission factors from the Mandatory Greenhouse Gas Reporting requirements from Title 40 of the Code of Federal Regulations Part 98 (40 CFR Part 98). The Agency also used CAMPD data for 2024 total heat input for each of the CEJA-subject units in combination with emission factors from 40 CFR Part 98 to obtain 2024 emission quantities for methane (CH₄) and nitrous oxide (N₂O). The combination of each unit’s CO₂, CH₄, and N₂O emissions in 2024, weighted by each pollutant’s global warming potential from 40 CFR Part 98 Subpart A, was used to calculate the CO₂ equivalent (CO₂e) emissions from each CEJA-subject unit, as specified by the CEJA definition for “carbon dioxide equivalent emissions.” Data entries in the table below were left blank where a particular unit did not operate in 2024.

Using the above data and methodologies, the Agency calculates that the aggregated emissions of all CEJA-subject units in Illinois were 45,179,439 short tons of CO₂e in 2024. 28.54 percent of these GHG emissions (12,894,656 short tons) were from units combusting natural gas, 71.04 percent (32,096,833 short tons) were from units combusting coal, and 0.42 percent of emissions (187,951 short tons) were from other fuels (fuel oil or blast furnace gas).

¹ Clean Air Markets Program Data website: <https://campd.epa.gov/>

Units Subject to CEJA and Emissions

Facility Name	Unit ID	City	County	CO ₂ Mass (tons)	CH ₄ (tons)	N ₂ O (tons)	CO ₂ e (tons)
Alsey Station	ACT1	Alsey	Scott	1,190	0.25	0.04	1,206
Alsey Station	ACT2	Alsey	Scott	1,475	0.03	0.00	1,477
Alsey Station	ACT5	Alsey	Scott	813	0.02	0.00	814
Alsey Station	ACT6	Alsey	Scott	15,151	0.28	0.03	15,166
Archer Daniels Midland Co.	FBC1	Decatur	Macon	295,986	34.38	0.01	296,950
Archer Daniels Midland Co.	FBC2	Decatur	Macon	300,816	34.94	0.01	301,796
Archer Daniels Midland Co.	FBC3	Decatur	Macon	336,441	39.07	0.01	337,537
Archer Daniels Midland Co.	FBC4	Decatur	Macon	241,856	28.08	0.01	242,646
Archer Daniels Midland Co.	FBC5	Decatur	Macon	271,138	31.49	0.01	272,022
Archer Daniels Midland Co.	FBC6	Decatur	Macon	284,885	33.07	0.02	285,815
Archer Daniels Midland Co.	FBC7	Decatur	Macon	55,422	6.43	0.00	55,602
Archer Daniels Midland Co.	FBC8	Decatur	Macon	720,135	84.76	12.35	725,781
Archer Daniels Midland Co.	FBC9	Decatur	Macon	831,454	102.11	14.86	838,249
Archer Daniels Midland Co.	GB1	Decatur	Macon	25,776	0.49	0.47	25,914
Archer Daniels Midland Co.	GB2	Decatur	Macon	32,007	0.60	0.59	32,180
Aurora	AGS01	Aurora	Du Page	29,799	6.08	0.88	30,203
Aurora	AGS02	Aurora	Du Page	40,032	8.17	1.19	40,575
Aurora	AGS03	Aurora	Du Page	28,442	5.80	0.84	28,828
Aurora	AGS04	Aurora	Du Page	38,168	7.79	1.13	38,687
Aurora	AGS05	Aurora	Du Page	13,147	2.68	0.39	13,325
Aurora	AGS06	Aurora	Du Page	12,235	2.50	0.36	12,402
Aurora	AGS07	Aurora	Du Page	11,709	0.22	0.02	11,721
Aurora	AGS08	Aurora	Du Page	10,979	0.20	0.02	10,990
Aurora	AGS09	Aurora	Du Page	11,368	0.21	0.02	11,380
Aurora	AGS10	Aurora	Du Page	11,191	0.21	0.02	11,202
Baldwin Energy Complex	1	Baldwin	Randolph	3,575,334	37.58	3.76	3,577,382
Baldwin Energy Complex	2	Baldwin	Randolph	3,396,186	35.69	3.57	3,398,131
Calumet Energy Team, LLC	**1	Chicago	Cook	1,766	0.03	0.00	1,768
Calumet Energy Team, LLC	**2	Chicago	Cook	1,625	0.03	0.00	1,627
Cordova Energy Company	1	Cordova	Rock Island	248,838	4.62	0.46	249,089
Cordova Energy Company	2	Cordova	Rock Island	227,341	4.22	0.42	227,571
CPV Three Rivers Energy Center	1	Morris	Grundy	1,225,469	22.73	2.27	1,226,708
CPV Three Rivers Energy Center	2	Morris	Grundy	1,227,104	22.76	2.28	1,228,344
Crete Energy Park	GT1	Crete	Will	8,200	0.15	0.02	8,209
Crete Energy Park	GT2	Crete	Will	11,695	0.22	0.02	11,707
Crete Energy Park	GT3	Crete	Will	10,886	0.20	0.02	10,897
Crete Energy Park	GT4	Crete	Will	6,765	0.13	0.01	6,771

Dallman	33	Springfield	Sangamon				-
Dallman	4	Springfield	Sangamon	712,489	7.68	0.77	712,908
Elgin Energy Center, LLC	CT01	Elgin	Cook	9,736	0.18	0.02	9,746
Elgin Energy Center, LLC	CT02	Elgin	Cook	13,158	0.24	0.02	13,171
Elgin Energy Center, LLC	CT03	Elgin	Cook	7,884	0.15	0.01	7,892
Elgin Energy Center, LLC	CT04	Elgin	Cook	13,163	0.24	0.02	13,177
Elwood Energy Facility	1	Elwood	Will	14,890	0.28	0.03	14,905
Elwood Energy Facility	2	Elwood	Will	14,675	0.27	0.03	14,689
Elwood Energy Facility	3	Elwood	Will	19,053	0.35	0.04	19,073
Elwood Energy Facility	4	Elwood	Will	16,568	0.31	0.03	16,585
Elwood Energy Facility	5	Elwood	Will	19,257	0.36	0.04	19,276
Elwood Energy Facility	6	Elwood	Will	11,924	0.22	0.02	11,936
Elwood Energy Facility	7	Elwood	Will	18,562	0.34	0.03	18,581
Elwood Energy Facility	8	Elwood	Will	22,246	0.41	0.04	22,269
Elwood Energy Facility	9	Elwood	Will	12,587	0.23	0.02	12,600
Fisk	311	Chicago	Cook	203	0.03	0.00	205
Fisk	312	Chicago	Cook	209	0.00	0.00	209
Fisk	321	Chicago	Cook	188	0.00	0.00	188
Fisk	322	Chicago	Cook	224	0.00	0.00	224
Fisk	331	Chicago	Cook	322	0.00	0.00	322
Fisk	332	Chicago	Cook	247	0.00	0.00	247
Fisk	341	Chicago	Cook				-
Fisk	342	Chicago	Cook	196	0.00	0.00	196
Freedom Power Project	CT1	St Elmo	Fayette				-
Gibson City Energy Center, LLC	GCTG1	Gibson City	Ford	37,046	0.69	0.07	37,084
Gibson City Energy Center, LLC	GCTG2	Gibson City	Ford	39,253	0.73	0.07	39,292
Goose Creek Power Plant	CT-01	Monticello	Piatt	862	0.02	0.00	863
Goose Creek Power Plant	CT-02	Monticello	Piatt	817	0.02	0.00	817
Goose Creek Power Plant	CT-03	Monticello	Piatt	833	0.02	0.00	834
Goose Creek Power Plant	CT-04	Monticello	Piatt	918	0.02	0.00	919
Goose Creek Power Plant	CT-05	Monticello	Piatt	593	0.01	0.00	594
Goose Creek Power Plant	CT-06	Monticello	Piatt	544	0.01	0.00	545
Grand Tower Energy Center, LLC	CT01	Grand Tower	Jackson				-
Grand Tower Energy Center, LLC	CT02	Grand Tower	Jackson				-
Holland Energy Facility	CTG1	Beecher City	Shelby	584,737	10.85	1.08	585,328
Holland Energy Facility	CTG2	Beecher City	Shelby	574,827	10.66	1.07	575,408
INEOS Joliet, LLC	CB706	Joliet	Will	19,360	0.36	0.04	19,380
Interstate	1	Springfield	Sangamon	45,334	0.84	0.08	45,379

Invenenergy Nelson Expansion LLC	3	Rock Falls	Lee	222,601	12.36	2.47	223,602
Invenenergy Nelson Expansion LLC	4	Rock Falls	Lee	217,104	12.08	2.42	218,082
Jackson Generation, LLC	CTG-01	Elwood	Will	1,316,646	73.26	14.65	1,322,580
Jackson Generation, LLC	CTG-02	Elwood	Will	1,537,545	85.56	17.11	1,544,475
Kendall Energy Facility	GTG-1	Minooka	Kendall	554,116	30.83	6.17	556,613
Kendall Energy Facility	GTG-2	Minooka	Kendall	552,026	30.72	6.14	554,514
Kendall Energy Facility	GTG-3	Minooka	Kendall	435,825	8.08	0.81	436,266
Kendall Energy Facility	GTG-4	Minooka	Kendall	589,425	10.93	1.09	590,021
Kincaid Generating Station	1	Kincaid	Christian	1,289,310	13.55	1.36	1,290,048
Kincaid Generating Station	2	Kincaid	Christian	1,255,286	13.19	1.32	1,256,005
Kinmundy Power Plant	KCTG1	Patoka	Marion	665	0.01	0.00	666
Kinmundy Power Plant	KCTG2	Patoka	Marion	646	0.01	0.00	647
Lee County Generating Station, LLC	CT1	Dixon	Lee	11,333	0.21	0.02	11,345
Lee County Generating Station, LLC	CT2	Dixon	Lee	15,712	0.29	0.03	15,728
Lee County Generating Station, LLC	CT3	Dixon	Lee	12,090	0.22	0.02	12,103
Lee County Generating Station, LLC	CT4	Dixon	Lee	9,899	0.18	0.02	9,909
Lee County Generating Station, LLC	CT5	Dixon	Lee	13,426	0.25	0.02	13,439
Lee County Generating Station, LLC	CT6	Dixon	Lee	13,433	0.25	0.02	13,446
Lee County Generating Station, LLC	CT7	Dixon	Lee	11,896	0.22	0.02	11,908
Lee County Generating Station, LLC	CT8	Dixon	Lee	11,190	0.21	0.02	11,201
Lincoln Generating Facility	CTG-1	Manhattan	Will	1,356	0.03	0.00	1,358
Lincoln Generating Facility	CTG-2	Manhattan	Will	1,433	0.03	0.00	1,435
Lincoln Generating Facility	CTG-3	Manhattan	Will	1,140	0.02	0.00	1,141
Lincoln Generating Facility	CTG-4	Manhattan	Will	1,081	0.02	0.00	1,082
Lincoln Generating Facility	CTG-5	Manhattan	Will	914	0.02	0.00	915
Lincoln Generating Facility	CTG-6	Manhattan	Will	1,066	0.02	0.00	1,068
Lincoln Generating Facility	CTG-7	Manhattan	Will	726	0.01	0.00	727
Lincoln Generating Facility	CTG-8	Manhattan	Will	878	0.02	0.00	879
LSP University Park, LLC	CT01	Chicago	Cook	2,162	0.04	0.00	2,164
LSP University Park, LLC	CT02	Chicago	Cook	5,415	0.10	0.01	5,420
LSP University Park, LLC	CT03	Chicago	Cook	7,766	0.14	0.01	7,774
LSP University Park, LLC	CT04	Chicago	Cook	5,303	0.10	0.01	5,309
LSP University Park, LLC	CT05	Chicago	Cook	6,866	0.13	0.01	6,873
LSP University Park, LLC	CT06	Chicago	Cook	9,362	0.17	0.02	9,372
LSP University Park, LLC	CT07	Chicago	Cook	2,481	0.05	0.00	2,483

LSP University Park, LLC	CT08	Chicago	Cook	3,277	0.06	0.01	3,280
LSP University Park, LLC	CT09	Chicago	Cook	7,569	0.14	0.01	7,577
LSP University Park, LLC	CT10	Chicago	Cook	5,264	0.10	0.01	5,269
LSP University Park, LLC	CT11	Chicago	Cook	7,155	0.13	0.01	7,162
LSP University Park, LLC	CT12	Chicago	Cook	6,883	0.13	0.01	6,889
Marion	123	Marion	Williamson	1,069,746	11.14	1.11	1,070,353
Marion	5	Marion	Williamson	47,860	0.89	0.09	47,909
Marion	6	Marion	Williamson	47,221	0.88	0.09	47,269
Morris Cogeneration, LLC	B-5	Morris	Grundy	12,945	0.24	0.02	12,958
Morris Cogeneration, LLC	B-6	Morris	Grundy	11,897	0.21	0.02	11,908
Morris Cogeneration, LLC	CTG1	Morris	Grundy	100,651	1.89	0.19	100,755
Morris Cogeneration, LLC	CTG2	Morris	Grundy	162,378	3.06	0.32	162,549
Morris Cogeneration, LLC	CTG3	Morris	Grundy	148,930	2.81	0.26	149,079
Nelson Energy Center	1	Rock Falls	Lee	700,798	13.00	1.30	701,507
Nelson Energy Center	2	Rock Falls	Lee	653,312	12.12	1.21	653,972
Newton	1	Newton	Jasper	3,452,576	36.29	3.63	3,454,553
Pinckneyville Power Plant	CT01	Pinckneyville	Perry	12,566	0.23	0.02	12,579
Pinckneyville Power Plant	CT02	Pinckneyville	Perry	12,229	0.23	0.02	12,242
Pinckneyville Power Plant	CT03	Pinckneyville	Perry	12,203	0.23	0.02	12,216
Pinckneyville Power Plant	CT04	Pinckneyville	Perry	12,607	0.23	0.02	12,620
Pinckneyville Power Plant	CT05	Pinckneyville	Perry	63	0.00	0.00	63
Pinckneyville Power Plant	CT06	Pinckneyville	Perry	61	0.00	0.00	61
Pinckneyville Power Plant	CT07	Pinckneyville	Perry	126	0.03	0.00	127
Pinckneyville Power Plant	CT08	Pinckneyville	Perry	68	0.01	0.00	69
Powerton	51	Pekin	Tazewell	731,605	84.58	12.30	737,233
Powerton	52	Pekin	Tazewell	733,575	84.81	12.34	739,219
Powerton	61	Pekin	Tazewell	759,374	87.79	12.77	765,216
Powerton	62	Pekin	Tazewell	682,238	78.87	11.47	687,487
Prairie State Generating Station	1	Marissa	Washington	5,882,058	63.19	6.32	5,885,502
Prairie State Generating Station	2	Marissa	Washington	5,163,371	55.47	5.55	5,166,395
Raccoon Creek Power Plant	CT-01	Flora	Clay	296	0.01	0.00	296
Raccoon Creek Power Plant	CT-02	Flora	Clay	342	0.01	0.00	342
Raccoon Creek Power Plant	CT-03	Flora	Clay	363	0.01	0.00	363
Raccoon Creek Power Plant	CT-04	Flora	Clay	391	0.01	0.00	391
Rockford Energy Center	1	Rockford	Winnebago	20,541	0.38	0.04	20,562
Rockford Energy Center	2	Rockford	Winnebago	28,352	0.53	0.05	28,381
Rockford II Energy Center	U1	Rockford	Winnebago	37,379	0.69	0.07	37,417
Rocky Road Power, LLC	T1	East Dundee	Kane	2,947	0.16	0.03	2,960
Rocky Road Power, LLC	T2	East Dundee	Kane	2,606	0.14	0.03	2,617
Rocky Road Power, LLC	T3	East Dundee	Kane				-

Rocky Road Power, LLC	T4	East Dundee	Kane	3,668	0.20	0.04	3,684
Shelby County	SCE1	Neoga	Shelby	10,877	0.20	0.02	10,888
Shelby County	SCE2	Neoga	Shelby	16,568	0.31	0.03	16,585
Shelby County	SCE3	Neoga	Shelby	15,166	0.28	0.03	15,181
Shelby County	SCE4	Neoga	Shelby	14,739	0.28	0.03	14,754
Shelby County	SCE5	Neoga	Shelby	15,522	0.29	0.03	15,538
Shelby County	SCE6	Neoga	Shelby	16,767	0.31	0.03	16,784
Shelby County	SCE7	Neoga	Shelby	14,055	0.26	0.03	14,070
Shelby County	SCE8	Neoga	Shelby	13,877	2.85	0.41	14,066
Southeast Chicago Energy Project	CTG10	Chicago	Cook				-
Southeast Chicago Energy Project	CTG11	Chicago	Cook				-
Southeast Chicago Energy Project	CTG12	Chicago	Cook				-
Southeast Chicago Energy Project	CTG5	Chicago	Cook				-
Southeast Chicago Energy Project	CTG6	Chicago	Cook				-
Southeast Chicago Energy Project	CTG7	Chicago	Cook				-
Southeast Chicago Energy Project	CTG8	Chicago	Cook				-
Southeast Chicago Energy Project	CTG9	Chicago	Cook				-
Tilton Power Station	1	Tilton	Vermilion	12,933	0.24	0.02	12,946
Tilton Power Station	2	Tilton	Vermilion	11,445	0.21	0.02	11,456
Tilton Power Station	3	Tilton	Vermilion	12,194	0.23	0.02	12,206
Tilton Power Station	4	Tilton	Vermilion	11,693	2.39	0.35	11,852
University Park Energy	UP1	University Park	Will	4,334	0.08	0.01	4,338
University Park Energy	UP10	University Park	Will	3,218	0.06	0.01	3,221
University Park Energy	UP11	University Park	Will				-
University Park Energy	UP12	University Park	Will	2,265	0.04	0.00	2,268
University Park Energy	UP2	University Park	Will	3,867	0.07	0.01	3,871
University Park Energy	UP3	University Park	Will	4,680	0.09	0.01	4,685
University Park Energy	UP4	University Park	Will	4,478	0.08	0.01	4,483
University Park Energy	UP5	University Park	Will	4,941	1.01	0.15	5,008
University Park Energy	UP6	University Park	Will	4,708	0.09	0.01	4,713

University Park Energy	UP7	University Park	Will	4,495	0.08	0.01	4,499
University Park Energy	UP8	University Park	Will	4,179	0.08	0.01	4,183
University Park Energy	UP9	University Park	Will	2,985	0.06	0.01	2,988
Venice	CT03	Venice	Madison	5,035	0.09	0.01	5,041
Venice	CT04	Venice	Madison	10,274	0.19	0.02	10,285
Venice	CT05	Venice	Madison	229	0.00	0.00	229
Venice	CT2A	Venice	Madison	356	0.07	0.01	361
Venice	CT2B	Venice	Madison	344	0.07	0.01	348
Waukegan	311	Waukegan	Lake	343	0.05	0.01	346
Waukegan	312	Waukegan	Lake	304	0.05	0.01	307
Waukegan	321	Waukegan	Lake	301	0.05	0.01	304
Waukegan	322	Waukegan	Lake	308	0.05	0.01	311
Zion Energy Center	CT-1	Zion	Lake	104,023	1.93	0.19	104,128
Zion Energy Center	CT-2	Zion	Lake	74,825	1.39	0.14	74,901
Zion Energy Center	CT-3	Zion	Lake	69,989	1.30	0.13	70,060
United States Steel Corporation - Granite City Works	PB#1	Granite City	Madison	184,900	3.48	0.35	185,090
TOTAL FOR ALL UNITS							45,179,439

