

# SB3606



## 104TH GENERAL ASSEMBLY

### State of Illinois

2025 and 2026

SB3606

Introduced 2/5/2026, by Sen. Steve Stadelman

#### SYNOPSIS AS INTRODUCED:

415 ILCS 5/9.15

Amends the Environmental Protection Act. In provisions regarding the regulation of greenhouse gases, defines "heat rate" as the gross amount of energy used by an electric generator or power plant, expressed in British thermal units (Btus), to generate one kilowatt hour (kWh) of electricity, as measured using a 12-month average. In provisions regarding electric generating units and large greenhouse gas-emitting units that have a heat rate greater than or equal to 7,000 Btus/kWh, requires each EGU and large GHG-emitting unit, by no later than January 1, 2035, to reduce its CO<sub>2</sub>e emissions by at least 50% from its existing CO<sub>2</sub>e emissions as measured using a 12-month gross average in 2034.

LRB104 17567 BDA 30995 b

A BILL FOR

1 AN ACT concerning safety.

2 **Be it enacted by the People of the State of Illinois,**  
3 **represented in the General Assembly:**

4 Section 5. The Environmental Protection Act is amended by  
5 changing Section 9.15 as follows:

6 (415 ILCS 5/9.15)

7 Sec. 9.15. Greenhouse gases.

8 (a) An air pollution construction permit shall not be  
9 required due to emissions of greenhouse gases if the  
10 equipment, site, or source is not subject to regulation, as  
11 defined by 40 CFR 52.21, as now or hereafter amended, for  
12 greenhouse gases or is otherwise not addressed in this Section  
13 or by the Board in regulations for greenhouse gases. These  
14 exemptions do not relieve an owner or operator from the  
15 obligation to comply with other applicable rules or  
16 regulations.

17 (b) An air pollution operating permit shall not be  
18 required due to emissions of greenhouse gases if the  
19 equipment, site, or source is not subject to regulation, as  
20 defined by Section 39.5 of this Act, for greenhouse gases or is  
21 otherwise not addressed in this Section or by the Board in  
22 regulations for greenhouse gases. These exemptions do not  
23 relieve an owner or operator from the obligation to comply

1 with other applicable rules or regulations.

2 (c) (Blank).

3 (d) (Blank).

4 (e) (Blank).

5 (f) As used in this Section:

6 "Carbon dioxide emission" means the plant annual CO<sub>2</sub> total  
7 output emission as measured by the United States Environmental  
8 Protection Agency in its Emissions & Generation Resource  
9 Integrated Database (eGrid), or its successor.

10 "Carbon dioxide equivalent emissions" or "CO<sub>2</sub>e" means the  
11 sum total of the mass amount of emissions in tons per year,  
12 calculated by multiplying the mass amount of each of the 6  
13 greenhouse gases specified in Section 3.207, in tons per year,  
14 by its associated global warming potential as set forth in 40  
15 CFR 98, subpart A, table A-1 or its successor, and then adding  
16 them all together.

17 "Cogeneration" or "combined heat and power" refers to any  
18 system that, either simultaneously or sequentially, produces  
19 electricity and useful thermal energy from a single fuel  
20 source.

21 "Copollutants" refers to the 6 criteria pollutants that  
22 have been identified by the United States Environmental  
23 Protection Agency pursuant to the Clean Air Act.

24 "Electric generating unit" or "EGU" means a fossil  
25 fuel-fired stationary boiler, combustion turbine, or combined  
26 cycle system that serves a generator that has a nameplate

1 capacity greater than 25 MWe and produces electricity for  
2 sale.

3 "Environmental justice community" means the definition of  
4 that term based on existing methodologies and findings, used  
5 and as may be updated by the Illinois Power Agency and its  
6 program administrator in the Illinois Solar for All Program.

7 "Equity investment eligible community" or "eligible  
8 community" means the geographic areas throughout Illinois that  
9 would most benefit from equitable investments by the State  
10 designed to combat discrimination and foster sustainable  
11 economic growth. Specifically, eligible community means the  
12 following areas:

13 (1) areas where residents have been historically  
14 excluded from economic opportunities, including  
15 opportunities in the energy sector, as defined as R3 areas  
16 pursuant to Section 10-40 of the Cannabis Regulation and  
17 Tax Act; and

18 (2) areas where residents have been historically  
19 subject to disproportionate burdens of pollution,  
20 including pollution from the energy sector, as established  
21 by environmental justice communities as defined by the  
22 Illinois Power Agency pursuant to the Illinois Power  
23 Agency Act, excluding any racial or ethnic indicators.

24 "Equity investment eligible person" or "eligible person"  
25 means the persons who would most benefit from equitable  
26 investments by the State designed to combat discrimination and

1 foster sustainable economic growth. Specifically, eligible  
2 person means the following people:

3 (1) persons whose primary residence is in an equity  
4 investment eligible community;

5 (2) persons whose primary residence is in a  
6 municipality, or a county with a population under 100,000,  
7 where the closure of an electric generating unit or mine  
8 has been publicly announced or the electric generating  
9 unit or mine is in the process of closing or closed within  
10 the last 5 years;

11 (3) persons who are graduates of or currently enrolled  
12 in the foster care system; or

13 (4) persons who were formerly incarcerated.

14 "Existing emissions" means:

15 (1) for CO<sub>2</sub>e, the total average tons-per-year of CO<sub>2</sub>e  
16 emitted by the EGU or large GHG-emitting unit either in  
17 the years 2018 through 2020 or, if the unit was not yet in  
18 operation by January 1, 2018, in the first 3 full years of  
19 that unit's operation; and

20 (2) for any copollutant, the total average  
21 tons-per-year of that copollutant emitted by the EGU or  
22 large GHG-emitting unit either in the years 2018 through  
23 2020 or, if the unit was not yet in operation by January 1,  
24 2018, in the first 3 full years of that unit's operation.

25 "Green hydrogen" means a power plant technology in which  
26 an EGU creates electric power exclusively from electrolytic

1 hydrogen, in a manner that produces zero carbon and  
2 copollutant emissions, using hydrogen fuel that is  
3 electrolyzed using a 100% renewable zero carbon emission  
4 energy source.

5 "Heat rate" means the gross amount of energy used by an  
6 electric generator or power plant, expressed in British  
7 thermal units (Btus), to generate one kilowatt hour (kWh) of  
8 electricity, as measured using a 12-month average.

9 "Large greenhouse gas-emitting unit" or "large  
10 GHG-emitting unit" means a unit that is an electric generating  
11 unit or other fossil fuel-fired unit that itself has a  
12 nameplate capacity or serves a generator that has a nameplate  
13 capacity greater than 25 MWe and that produces electricity,  
14 including, but not limited to, coal-fired, coal-derived,  
15 oil-fired, natural gas-fired, and cogeneration units.

16 "NO<sub>x</sub> emission rate" means the plant annual NO<sub>x</sub> total output  
17 emission rate as measured by the United States Environmental  
18 Protection Agency in its Emissions & Generation Resource  
19 Integrated Database (eGrid), or its successor, in the most  
20 recent year for which data is available.

21 "Public greenhouse gas-emitting units" or "public  
22 GHG-emitting unit" means large greenhouse gas-emitting units,  
23 including EGUs, that are wholly owned, directly or indirectly,  
24 by one or more municipalities, municipal corporations, joint  
25 municipal electric power agencies, electric cooperatives, or  
26 other governmental or nonprofit entities, whether organized

1 and created under the laws of Illinois or another state.

2 "SO<sub>2</sub> emission rate" means the "plant annual SO<sub>2</sub> total  
3 output emission rate" as measured by the United States  
4 Environmental Protection Agency in its Emissions & Generation  
5 Resource Integrated Database (eGrid), or its successor, in the  
6 most recent year for which data is available.

7 (g) All EGUs and large greenhouse gas-emitting units that  
8 use coal or oil as a fuel and are not public GHG-emitting units  
9 shall permanently reduce all CO<sub>2</sub>e and copollutant emissions to  
10 zero no later than January 1, 2030.

11 (h) All EGUs and large greenhouse gas-emitting units that  
12 use coal as a fuel and are public GHG-emitting units shall  
13 permanently reduce CO<sub>2</sub>e emissions to zero no later than  
14 December 31, 2045. Any source or plant with such units must  
15 also reduce their CO<sub>2</sub>e emissions by 45% from existing  
16 emissions by no later than January 1, 2035. If the emissions  
17 reduction requirement is not achieved by December 31, 2035,  
18 the plant shall retire one or more units or otherwise reduce  
19 its CO<sub>2</sub>e emissions by 45% from existing emissions by June 30,  
20 2038.

21 (i) All EGUs and large greenhouse gas-emitting units that  
22 use gas as a fuel and are not public GHG-emitting units shall  
23 permanently reduce all CO<sub>2</sub>e and copollutant emissions to zero,  
24 including through unit retirement or the use of 100% green  
25 hydrogen or other similar technology that is commercially  
26 proven to achieve zero carbon emissions, according to the

1 following:

2 (1) No later than January 1, 2030: all EGUs and large  
3 greenhouse gas-emitting units that have a NO<sub>x</sub> emissions  
4 rate of greater than 0.12 lbs/MWh or a SO<sub>2</sub> emission rate of  
5 greater than 0.006 lb/MWh, and are located in or within 3  
6 miles of an environmental justice community designated as  
7 of January 1, 2021 or an equity investment eligible  
8 community.

9 (2) No later than January 1, 2040: all EGUs and large  
10 greenhouse gas-emitting units that have a NO<sub>x</sub> emission  
11 rate of greater than 0.12 lbs/MWh or a SO<sub>2</sub> emission rate  
12 greater than 0.006 lb/MWh, and are not located in or  
13 within 3 miles of an environmental justice community  
14 designated as of January 1, 2021 or an equity investment  
15 eligible community. After January 1, 2035, each such EGU  
16 and large greenhouse gas-emitting unit shall reduce its  
17 CO<sub>2</sub>e emissions by at least 50% from its existing emissions  
18 for CO<sub>2</sub>e, and shall be limited in operation to, on average,  
19 6 hours or less per day, measured over a calendar year, and  
20 shall not run for more than 24 consecutive hours except in  
21 emergency conditions, as designated by a Regional  
22 Transmission Organization or Independent System Operator.

23 (3) No later than January 1, 2035: all EGUs and large  
24 greenhouse gas-emitting units that began operation prior  
25 to the effective date of this amendatory Act of the 102nd  
26 General Assembly and have a NO<sub>x</sub> emission rate of less than

1 or equal to 0.12 lb/MWh and a SO<sub>2</sub> emission rate less than  
2 or equal to 0.006 lb/MWh, and are located in or within 3  
3 miles of an environmental justice community designated as  
4 of January 1, 2021 or an equity investment eligible  
5 community. Each such EGU and large greenhouse gas-emitting  
6 unit shall reduce its CO<sub>2</sub>e emissions by at least 50% from  
7 its existing emissions for CO<sub>2</sub>e no later than January 1,  
8 2030.

9 (4) No later than January 1, 2040: All remaining EGUs  
10 and large greenhouse gas-emitting units that have a heat  
11 rate greater than or equal to 7,000 Btu/kWh ~~7000 BTU/kWh~~.  
12 As measured using a 12-month gross average in 2034, each  
13 ~~Each~~ such EGU and Large greenhouse gas-emitting unit shall  
14 reduce its CO<sub>2</sub>e emissions by at least 50% from its existing  
15 emissions for CO<sub>2</sub>e no later than January 1, 2035.

16 (5) No later than January 1, 2045: all remaining EGUs  
17 and large greenhouse gas-emitting units.

18 (j) All EGUs and large greenhouse gas-emitting units that  
19 use gas as a fuel and are public GHG-emitting units shall  
20 permanently reduce all CO<sub>2</sub>e and copollutant emissions to zero,  
21 including through unit retirement or the use of 100% green  
22 hydrogen or other similar technology that is commercially  
23 proven to achieve zero carbon emissions by January 1, 2045.

24 (k) All EGUs and large greenhouse gas-emitting units that  
25 utilize combined heat and power or cogeneration technology  
26 shall permanently reduce all CO<sub>2</sub>e and copollutant emissions to

1 zero, including through unit retirement or the use of 100%  
2 green hydrogen or other similar technology that is  
3 commercially proven to achieve zero carbon emissions by  
4 January 1, 2045.

5 (k-5) No EGU or large greenhouse gas-emitting unit that  
6 uses gas as a fuel and is not a public GHG-emitting unit may  
7 emit, in any 12-month period, CO<sub>2</sub>e or copollutants in excess of  
8 that unit's existing emissions for those pollutants.

9 (1) Notwithstanding subsections (g) through (k-5), large  
10 GHG-emitting units including EGUs may temporarily continue  
11 emitting CO<sub>2</sub>e and copollutants after any applicable deadline  
12 specified in any of subsections (g) through (k-5) if it has  
13 been determined, as described in paragraphs (1) and (2) of  
14 this subsection, that ongoing operation of the EGU is  
15 necessary to maintain power grid supply and reliability or  
16 ongoing operation of large GHG-emitting unit that is not an  
17 EGU is necessary to serve as an emergency backup to  
18 operations. Up to and including the occurrence of an emission  
19 reduction deadline under subsection (i), all EGUs and large  
20 GHG-emitting units must comply with the following terms:

21 (1) if an EGU or large GHG-emitting unit that is a  
22 participant in a regional transmission organization  
23 intends to retire, it must submit documentation to the  
24 appropriate regional transmission organization by the  
25 appropriate deadline that meets all applicable regulatory  
26 requirements necessary to obtain approval to permanently

1           cease operating the large GHG-emitting unit;

2           (2) if any EGU or large GHG-emitting unit that is a  
3 participant in a regional transmission organization  
4 receives notice that the regional transmission  
5 organization has determined that continued operation of  
6 the unit is required, the unit may continue operating  
7 until the issue identified by the regional transmission  
8 organization is resolved. The owner or operator of the  
9 unit must cooperate with the regional transmission  
10 organization in resolving the issue and must reduce its  
11 emissions to zero, consistent with the requirements under  
12 subsection (g), (h), (i), (j), (k), or (k-5), as  
13 applicable, as soon as practicable when the issue  
14 identified by the regional transmission organization is  
15 resolved; and

16           (3) any large GHG-emitting unit that is not a  
17 participant in a regional transmission organization shall  
18 be allowed to continue emitting CO<sub>2</sub>e and copollutants  
19 after the zero-emission date specified in subsection (g),  
20 (h), (i), (j), (k), or (k-5), as applicable, in the  
21 capacity of an emergency backup unit if approved by the  
22 Illinois Commerce Commission.

23           (m) No variance, adjusted standard, or other regulatory  
24 relief otherwise available in this Act may be granted to the  
25 emissions reduction and elimination obligations in this  
26 Section.

1           (n) By June 30 of each year, beginning in 2025, the Agency  
2 shall prepare and publish on its website a report setting  
3 forth the actual greenhouse gas emissions from individual  
4 units and the aggregate statewide emissions from all units for  
5 the prior year.

6           (o) Every 5 years beginning in 2025, the Environmental  
7 Protection Agency, Illinois Power Agency, and Illinois  
8 Commerce Commission shall jointly prepare, and release  
9 publicly, a report to the General Assembly that examines the  
10 State's current progress toward its renewable energy resource  
11 development goals, the status of CO<sub>2</sub>e and copollutant  
12 emissions reductions, the current status and progress toward  
13 developing and implementing green hydrogen technologies, the  
14 current and projected status of electric resource adequacy and  
15 reliability throughout the State for the period beginning 5  
16 years ahead, and proposed solutions for any findings. The  
17 Environmental Protection Agency, Illinois Power Agency, and  
18 Illinois Commerce Commission shall consult PJM  
19 Interconnection, LLC and Midcontinent Independent System  
20 Operator, Inc., or their respective successor organizations  
21 regarding forecasted resource adequacy and reliability needs,  
22 anticipated new generation interconnection, new transmission  
23 development or upgrades, and any announced large GHG-emitting  
24 unit closure dates and include this information in the report.  
25 The report shall be released publicly by no later than  
26 December 15 of the year it is prepared. If the Environmental

1 Protection Agency, Illinois Power Agency, and Illinois  
2 Commerce Commission jointly conclude in the report that the  
3 data from the regional grid operators, the pace of renewable  
4 energy development, the pace of development of energy storage  
5 and demand response utilization, transmission capacity, and  
6 the CO<sub>2</sub>e and copollutant emissions reductions required by  
7 subsection (i) or (k-5) reasonably demonstrate that a resource  
8 adequacy shortfall will occur, including whether there will be  
9 sufficient in-state capacity to meet the zonal requirements of  
10 MISO Zone 4 or the PJM ComEd Zone, per the requirements of the  
11 regional transmission organizations, or that the regional  
12 transmission operators determine that a reliability violation  
13 will occur during the time frame the study is evaluating, then  
14 the Illinois Power Agency, in conjunction with the  
15 Environmental Protection Agency shall develop a plan to reduce  
16 or delay CO<sub>2</sub>e and copollutant emissions reductions  
17 requirements only to the extent and for the duration necessary  
18 to meet the resource adequacy and reliability needs of the  
19 State, including allowing any plants whose emission reduction  
20 deadline has been identified in the plan as creating a  
21 reliability concern to continue operating, including operating  
22 with reduced emissions or as emergency backup where  
23 appropriate. The plan shall also consider the use of renewable  
24 energy, energy storage, demand response, transmission  
25 development, or other strategies to resolve the identified  
26 resource adequacy shortfall or reliability violation.

1           (1) In developing the plan, the Environmental  
2           Protection Agency and the Illinois Power Agency shall hold  
3           at least one workshop open to, and accessible at a time and  
4           place convenient to, the public and shall consider any  
5           comments made by stakeholders or the public. Upon  
6           development of the plan, copies of the plan shall be  
7           posted and made publicly available on the Environmental  
8           Protection Agency's, the Illinois Power Agency's, and the  
9           Illinois Commerce Commission's websites. All interested  
10          parties shall have 60 days following the date of posting  
11          to provide comment to the Environmental Protection Agency  
12          and the Illinois Power Agency on the plan. All comments  
13          submitted to the Environmental Protection Agency and the  
14          Illinois Power Agency shall be encouraged to be specific,  
15          supported by data or other detailed analyses, and, if  
16          objecting to all or a portion of the plan, accompanied by  
17          specific alternative wording or proposals. All comments  
18          shall be posted on the Environmental Protection Agency's,  
19          the Illinois Power Agency's, and the Illinois Commerce  
20          Commission's websites. Within 30 days following the end of  
21          the 60-day review period, the Environmental Protection  
22          Agency and the Illinois Power Agency shall revise the plan  
23          as necessary based on the comments received and file its  
24          revised plan with the Illinois Commerce Commission for  
25          approval.

26          (2) Within 60 days after the filing of the revised

1 plan at the Illinois Commerce Commission, any person  
2 objecting to the plan shall file an objection with the  
3 Illinois Commerce Commission. Within 30 days after the  
4 expiration of the comment period, the Illinois Commerce  
5 Commission shall determine whether an evidentiary hearing  
6 is necessary. The Illinois Commerce Commission shall also  
7 host 3 public hearings within 90 days after the plan is  
8 filed. Following the evidentiary and public hearings, the  
9 Illinois Commerce Commission shall enter its order  
10 approving or approving with modifications the reliability  
11 mitigation plan within 180 days.

12 (3) The Illinois Commerce Commission shall only  
13 approve the plan if the Illinois Commerce Commission  
14 determines that it will resolve the resource adequacy or  
15 reliability deficiency identified in the reliability  
16 mitigation plan at the least amount of CO<sub>2</sub>e and copollutant  
17 emissions, taking into consideration the emissions impacts  
18 on environmental justice communities, and that it will  
19 ensure adequate, reliable, affordable, efficient, and  
20 environmentally sustainable electric service at the lowest  
21 total cost over time, taking into account the impact of  
22 increases in emissions.

23 (4) If the resource adequacy or reliability deficiency  
24 identified in the reliability mitigation plan is resolved  
25 or reduced, the Environmental Protection Agency and the  
26 Illinois Power Agency may file an amended plan adjusting

1           the reduction or delay in CO<sub>2</sub>e and copollutant emission  
2           reduction requirements identified in the plan.

3           (Source: P.A. 102-662, eff. 9-15-21; 102-1031, eff. 5-27-22.)