



Rep. Edward J. Acevedo

**Filed: 11/7/2011**

09700SB1617ham001

LRB097 09940 JDS 59601 a

1 AMENDMENT TO SENATE BILL 1617

2 AMENDMENT NO. \_\_\_\_\_. Amend Senate Bill 1617 by replacing  
3 everything after the enacting clause with the following:

4 "Section 1. Short title. This Act may be cited as the  
5 Chicago Clean Power Act.

6 Section 10. Findings. The General Assembly finds that:

7 (1) current State and federal air pollution regulations do  
8 not adequately address the impacts on human health of air  
9 pollution from the coal-fired power plants in Chicago;

10 (2) the State has a continuing interest in regulating, and  
11 the authority to regulate, air pollution emanating from sources  
12 located within Chicago if those sources threaten the health of  
13 persons residing within the city;

14 (3) 2 coal-fired power plants operate within the boundaries  
15 of Chicago (the "Fisk" and "Crawford" plants);

16 (4) combustion of coal emits particulate matter and carbon

1 dioxide;

2 (5) power plant emissions are one of the primary causes of  
3 particulate matter and fine particulate matter air pollution;

4 (6) emissions from the Fisk and Crawford plants are a  
5 source of particulate matter and carbon dioxide in Chicago's  
6 atmosphere;

7 (7) the total atmospheric emissions of particulate matter  
8 and carbon dioxide from the Fisk and Crawford plants  
9 substantially exceed the emissions from other stationary  
10 fossil fuel combustion sources in Chicago;

11 (8) air pollution, particularly particulate matter, from  
12 the Fisk and Crawford plants degrades the air quality of  
13 Chicago, impairs visibility, and adversely affects the public  
14 health of the residents of Chicago, contributing to lung  
15 cancer, premature deaths, acute and chronic bronchitis,  
16 emergency room visits, asthma and other respiratory illnesses,  
17 and respiratory and cardiovascular hospital admissions;

18 (9) these health effects cause lost days of work and  
19 school;

20 (10) particulate matter from coal-fired power plants  
21 located within densely populated urban areas, such as Chicago,  
22 causes more damage per unit of emissions due to the higher rate  
23 of human exposure to emissions;

24 (11) studies, such as "Particulate-Related Health Impacts  
25 of Emissions in 2001 from 41 Major US Power Plants" by Abt  
26 Associates in 2002 and "Extended Follow-Up and Spatial Analysis

1 of the American Cancer Society Study Linking Particulate Air  
2 Pollution and Mortality" by the Health Effects Institute in  
3 2009, have shown that each 10 microgram per cubic meter  
4 increase in the long-term average ambient concentrations of  
5 PM<sub>2.5</sub> is associated with a 4% increased risk of death and an 8%  
6 increased risk of lung cancer;

7 (12) studies, such as "Invited Commentary: Particulate  
8 Matter-Mortality Exposure-Response Relations and Threshold" by  
9 C. Arden Pope in the *American Journal of Epidemiology* in 2000  
10 and "Fine-Particulate Air Pollution and Life Expectancy in the  
11 United States" by C. Arden Pope et al. in the *New England*  
12 *Journal of Medicine* in 2009, have shown that exposure to  
13 particulate matter (PM), especially PM<sub>2.5</sub>, contributes to  
14 cardiopulmonary disease mortality even at relatively low  
15 concentrations;

16 (13) studies, such as "Invited Commentary: Particulate  
17 Matter-Mortality Exposure-Response Relations and Threshold" by  
18 C. Arden Pope in the *American Journal of Epidemiology* in 2000,  
19 have shown that there is no safe threshold exposure level for  
20 PM or PM<sub>2.5</sub> and that there are mortalities and health effects at  
21 every level of exposure to PM and PM<sub>2.5</sub>, that increase in direct  
22 relation to exposure levels;

23 (14) studies, such as "Fine-Particulate Air Pollution and  
24 Life Expectancy in the United States" by C. Arden Pope et al.  
25 in the *New England Journal of Medicine* in 2009, have shown that  
26 reducing the amount of PM and PM<sub>2.5</sub> in the air increases life

1     expectancy;

2           (15) the residents of Chicago who are most vulnerable to  
3     the harmful health effects of air pollution emanating from the  
4     Fisk and Crawford plants are among the most economically  
5     disadvantaged residents and those least able to pay for medical  
6     care;

7           (16) the harmful effects of air pollution from the Fisk and  
8     Crawford plants are pronounced in those residents of Chicago  
9     most vulnerable to air pollution, including children, senior  
10    citizens, and people suffering from lung disease, heart  
11    disease, and diabetes;

12          (17) State and federal regulations that control emissions  
13    from fossil fuel-fired power plants, as well as other  
14    stationary sources, are designed to achieve regional,  
15    interstate, and international air quality objectives, taking  
16    into account cost and other factors;

17          (18) State and federal regulations contain grandfathering  
18    provisions that exempt major sources of air pollution that were  
19    constructed prior to the effective date of the regulations from  
20    certain air pollution control requirements;

21          (19) the Fisk and Crawford plants have avoided the  
22    application of certain State and federal requirements due to  
23    the grandfathering provisions;

24          (20) due the age of the Fisk and Crawford plants and the  
25    application of the grandfathering provision, the pollution  
26    from these facilities is much higher than, and disproportionate

1 to, newer, more modern coal-fired power plants;

2 (21) the human-induced increase in atmospheric greenhouse  
3 gas concentrations, of which carbon dioxide is the most  
4 significant component, is causing harmful changes to the  
5 climate now and will cause significantly more harm in the  
6 future if greenhouse gas emissions are not reduced immediately;

7 (22) the United States Environmental Protection Agency in  
8 its Proposed Endangerment Findings on Greenhouse Gases, 74 Fed.  
9 Reg. 18886 (April 24, 2009), found that the negative effects  
10 from this human-induced elevation in the atmospheric  
11 concentration of greenhouse gases include:

12 (A) a warming world climate, with the United States  
13 expected to warm more than the global average;

14 (B) more frequent, more intense heat waves;

15 (C) droughts;

16 (D) more intense precipitation, including flooding;

17 (E) more intense hurricanes and other storms;

18 (F) damage to water resources; and

19 (G) harm to ecosystems and wildlife;

20 (23) studies, such as "Confronting Climate Change in the  
21 U.S. Midwest: Illinois" by the Union of Concerned Scientists in  
22 2009, have found that if current pollution trends continue,  
23 then greenhouse gas emissions will cause the following  
24 consequences for Chicago:

25 (A) hotter summers filled with regular heat waves;

26 (B) worse air and water quality;

1 (C) heavier rains causing more frequent flash  
2 flooding; and

3 (D) lower lake levels;

4 (24) the *Fourth Assessment Report of the United Nations*  
5 *Intergovernmental Panel on Climate Change* has established that  
6 hot temperatures and extreme weather will cause increased  
7 adverse health impacts from:

8 (A) heat-related mortality;

9 (B) worse air quality;

10 (C) storm-related fatalities and injuries; and

11 (D) infectious diseases;

12 (25) the State must take measures to avoid this irreparable  
13 harm to Chicago's environment and the health of its residents;

14 (26) electricity generation emits a greater share of carbon  
15 dioxide than any other sector of the United States economy, and  
16 the generation of electricity from coal emits the most carbon  
17 dioxide of any method of electricity generation;

18 (27) State and federal air pollution regulations currently  
19 do not adequately address local impacts on human health of  
20 particulate matter and carbon dioxide emissions from the Fisk  
21 and Crawford plants;

22 (28) reducing the emissions of particulate matter and  
23 carbon dioxide from the Fisk and Crawford plants will improve  
24 the health and quality of life of the residents of Chicago  
25 generally and those living in proximity to the Fisk and  
26 Crawford plants in particular;

1 (29) demonstrated technology is available to significantly  
2 reduce emissions of particulate matter and carbon dioxide from  
3 coal or other high carbon content fuel combustion at power  
4 plants, including, but not limited to, the use of natural gas  
5 as the primary fuel; and

6 (30) to address impacts on human health and the environment  
7 of particulate matter and carbon dioxide emissions from the  
8 Fisk and Crawford plants, the State shall enact this Act, which  
9 is modeled after the Chicago Clean Power Ordinance introduced  
10 in the Chicago City Council in July 2011.

11 Section 15. Definitions. For the purposes of this Act:

12 "Agency" means the Illinois Environmental Protection  
13 Agency established under the Environmental Protection Act.

14 "Approved method" means the following:

15 (1) USEPA Method 202 for condensable PM; and

16 (2) The following methodologies for filterable PM<sub>2.5</sub>,  
17 PM/PM<sub>10</sub> and CO<sub>2</sub>:

18 (A) that methodology specified in an applicable  
19 final air emission permit issued by the Agency for the  
20 coal-fired power plant unit for measuring emissions of  
21 filterable PM<sub>2.5</sub>, PM/PM<sub>10</sub>, or CO<sub>2</sub>; or

22 (B) in the event the Agency has not specified a  
23 methodology for one or more of filterable PM<sub>2.5</sub>,  
24 PM/PM<sub>10</sub>, or CO<sub>2</sub>, that methodology specified in an  
25 applicable final air emission permit issued by the

1 USEPA for the coal-fired power plant unit for measuring  
2 those emissions of PM<sub>2.5</sub>, PM/ PM<sub>10</sub>, or CO<sub>2</sub>; or

3 (C) in the event neither the Agency nor the USEPA  
4 has specified a methodology for one or more of  
5 filterable PM<sub>2.5</sub>, PM/ PM<sub>10</sub>, or CO<sub>2</sub> that methodology  
6 shall be that specified in the "Compliance Assurance  
7 Monitoring" standards promulgated by USEPA, 40 C.F.R.  
8 § 64 or the "New Stationary Source" performance  
9 standards for Electric Utility Steam Generating Units,  
10 Subpart Da, also promulgated by USEPA, 40 C.F.R. §  
11 60.47Da.

12 "BTU" means British thermal unit, that is, the amount of  
13 heat necessary to raise the temperature of one pound of water  
14 from 39°F to 40°F.

15 "CO<sub>2</sub>" means carbon dioxide.

16 "Coal-fired power plant" means a facility with one or more  
17 electric utility steam-generating units that burns coal, coal  
18 refuse, or a synthetic gas derived from coal, or any other high  
19 carbon content fuel, either exclusively, in any combination  
20 together, or in any combination with other fuels in any amount.  
21 Provided, neither the producer nor distributor of the electric  
22 power output need qualify as a "public utility" as that term is  
23 defined in the Public Utilities Act.

24 "Electric utility steam-generating unit" shall have the  
25 same meaning as defined at 40 C.F.R. §60.41Da, and is capable  
26 of combusting more than 73 megawatts (250 million BTU per hour)



1 heat input of fossil fuel (either alone or in combination with  
2 any other fuel), provided, neither the producer nor distributor  
3 of the electric power output need qualify as a "public utility"  
4 as that term is defined in Public Utilities Act.

5 "Emission factor" means the average emission rate of a  
6 pollutant (i.e., tons of CO<sub>2</sub>) per a unit of activity (i.e.,  
7 million BTU of fuel consumed). Emission factors include but are  
8 not limited to those set forth in Appendix H of the Energy  
9 Information Administration's Instructions for Form EIA-1605  
10 (Nov. 18, 2009) and those set forth in the International Panel  
11 on Climate Change's Emission Factor Database.

12 "Facility" means any commercial, industrial, or  
13 residential establishment which contains one or more regulated  
14 areas or units of regulated equipment. A facility may consist  
15 of more than one building or structure where all lots are  
16 contiguous and the parts of the facility are functionally  
17 related.

18 "High carbon content fuel" shall include any one or more of  
19 the following: (i) any fuel whose emission factor is greater  
20 than or equal to 135 pounds of CO<sub>2</sub> per million BTU, (ii) any  
21 gaseous, liquid, or solid fuel derived from a fuel whose  
22 emission factor is greater than or equal to 135 pounds of CO<sub>2</sub>  
23 per million BTU, or (iii) both.

24 "Owner or operator" shall have the same meaning as defined  
25 at 40 C.F.R. § 60.2.

26 "Particulate matter" means any finely divided solid or

1 liquid material, or condensable substance, other than  
2 uncombined water, emitted to the ambient air.

3 "Person" means an individual, trust, firm, joint stock  
4 company, corporation, government corporation, limited  
5 liability company, partnership, association, State,  
6 municipality, commission, political subdivision of a State, or  
7 any interstate body and shall include each department, agency  
8 and instrumentality of the United States.

9 "PM" means particulate matter.

10 "PM<sub>2.5</sub>" means any particulate matter with an aerodynamic  
11 diameter less than or equal to a nominal two and one half  
12 micrometers.

13 "PM<sub>10</sub>" means any particulate matter with an aerodynamic  
14 diameter less than or equal to a nominal ten micrometers.

15 "Responsible official" shall have the same meaning as  
16 defined at 40 C.F.R. § 70.2.

17 "USEPA" means the United States Environmental Protection  
18 Agency.

19 Section 20. Emissions Limits.

20 (a) A coal-fired power plant located within a municipality  
21 with a population of 1,000,000 or more inhabitants shall not  
22 emit pollutants into the atmosphere in excess of any of the  
23 following levels:

24 (1) Within one year after the effective date of this  
25 Act, emissions of particulate matter shall not exceed:

1 (A) an emission rate for total PM/PM<sub>10</sub> of 0.015  
2 pounds per million BTU of actual heat input in any one  
3 hour period as measured by an approved method; and

4 (B) an emission rate for PM<sub>2.5</sub>, including  
5 filterable and condensable, of 0.010 pounds per  
6 million BTU of actual heat input in any one-hour period  
7 as measured by an approved method.

8 (2) Within 3 years after the effective date of this  
9 Act, emissions of CO<sub>2</sub> shall not exceed an emission rate of  
10 120.36 pounds per million BTU of actual heat input  
11 calculated over a 30-day period.

12 (b) An owner of 2 or more electric utility steam-generating  
13 units at the same coal-fired power plant shall have one  
14 additional year to meet the emissions limits contained in  
15 subsection (a) of this Section.

16 (c) All coal-fired power plants located within a  
17 municipality with a population of 1,000,000 or more inhabitants  
18 are prohibited from complying with the emissions limits  
19 contained in this Section by converting from coal as their  
20 primary fuel to another high carbon content fossil fuel.

21 Section 25. Compliance plan. Each person who owns or  
22 operates a coal-fired power plant within a municipality with a  
23 population of 1,000,000 or more inhabitants shall submit to the  
24 Agency an initial compliance plan by January 1, 2013 and an  
25 updated compliance plan by January 1, 2014 and every January 1

1 thereafter until January 1, 2017. "Compliance plan", as used in  
2 this Section, means a written plan that identifies milestone  
3 tasks necessary for the coal-fired power plant to achieve  
4 compliance with the emission limitations set forth in Section  
5 20 of this Act and contains, at a minimum, dates for completion  
6 of preliminary and final designs, awarding contracts and  
7 completion of construction, and installation of pollution  
8 control equipment necessary to achieve compliance and plans to  
9 assure retention or retraining of any employee whose job may be  
10 affected by such compliance.

11 Section 30. Reporting.

12 (a) Each owner or operator of a coal-fired power plant  
13 located within a municipality with a population of 1,000,000 or  
14 more inhabitants shall submit the following to the Agency:

15 (1) By February 1 of each year, a written report  
16 identifying the name, address, and telephone number of each  
17 person who owns or operates the coal-fired power plant and,  
18 if such a person is a corporation, its state of  
19 incorporation and registered agent;

20 (2) By February 1 of each year, a written report which  
21 calculates, using an approved method, the emissions of  
22 PM<sub>2.5</sub>, PM/PM<sub>10</sub>, and CO<sub>2</sub> from that electric utility  
23 steam-generating unit at that coal-fired power plant,  
24 measured in pounds per million BTU heat input, for the  
25 months of January through December of the preceding year,

1 recalculated monthly;

2 (3) By the 15th of each month, or, should the 15th fall  
3 on a holiday or weekend day, the next business day  
4 thereafter, a written report which calculates, using an  
5 approved method, the emissions of PM<sub>2.5</sub>, PM/PM<sub>10</sub>, and CO<sub>2</sub>  
6 from that electric utility steam-generating unit at each  
7 coal-fired power plant, measured in pounds per million BTU  
8 heat input, for the preceding month.

9 (4) Within 10 business days after its submission to  
10 USEPA, any report or data pertaining to emissions of PM<sub>2.5</sub>,  
11 PM/PM<sub>10</sub>, and CO<sub>2</sub> from the coal-fired power plant, including  
12 the results of any stack test, submitted in the same form  
13 as submitted to USEPA.

14 (b) Each of the reports required under subsection (a) of  
15 this Section must be signed by a responsible official of the  
16 coal-fired power plant and contain a certification by such  
17 official, under penalty of law, as to each report's truth,  
18 accuracy, and completeness.

19 (c) All reports calculating emissions of PM<sub>2.5</sub> and PM/PM<sub>10</sub>,  
20 to be submitted under subsection (a) of this Section shall  
21 document downtime or calibration failure of any continuous  
22 emission monitoring equipment required to be installed,  
23 operated, calibrated and maintained by Subpart L (Continuous  
24 Monitoring) of Agency Air Pollution Regulations, 35 Ill. Adm.  
25 Code Part 201.

26 (d) All reports of emissions required to be submitted under

1 this Section shall report emissions as measured by an approved  
2 method.

3 (e) Emission reporting requirements under subsection (a)  
4 of this Section may be satisfied, in whole or in part, by  
5 providing the Agency with an emission report submitted to the  
6 Agency or USEPA provided that the submitted report is  
7 supplemented as necessary to fully comply with the emission  
8 reporting requirements of subsection (a) of this Section.

9 (f) Any coal-fired power plant that has met the emissions  
10 limits of Section 20 of this Act or avoided the applicability  
11 of Section 20 of this Act by substituting fuels must submit a  
12 written report to the Agency within 30 days after the  
13 substitution verifying that the substitute fuel is not a high  
14 carbon content fuel. Such a report must be signed by a  
15 responsible official of the coal-fired power plant and contain  
16 a certification by the official, under penalty of law, as to  
17 the report's truth, accuracy and completeness.

18 Section 35. Enforcement.

19 (a) The Agency shall have the authority to investigate  
20 alleged violations of this Act and refer violations to the  
21 Attorney General or the State's Attorney of the county in which  
22 the violation occurred. Prior to referring the violation to the  
23 Attorney General or the State's Attorney of the county in which  
24 the violation occurred, the Agency shall serve upon that  
25 person, either in person or by certified mail, return receipt

1 requested, a written notice informing that person of any one or  
2 more of the following:

3 (1) the nature and location of the alleged violation of  
4 the emissions limits established by Section 20 of this Act,  
5 the period over which the calculation of emissions was  
6 performed, and the intention to commence an action;

7 (2) the failure to submit a compliance plan as required  
8 by Section 25 of this Act, the date the compliance plan was  
9 due, the specific deficiencies with the compliance plans  
10 submitted, if any, and the intention to commence an action;

11 or

12 (3) the failure to submit a report as required by  
13 Section 30 of this Act, the date the report was due, the  
14 specific deficiencies with the report submitted, if any,  
15 and the intention to commence an action.

16 (b) After receiving notice of a violation from the Agency  
17 under subsection (a) of this Section, the Attorney General, or  
18 the State's Attorney in the county in which the violation  
19 occurred, at the request of the Agency, or on his or her own  
20 motion, may bring an action in the name of the People of the  
21 State of Illinois to restrain conduct that violates Sections  
22 20, 25, or 30 of this Act, to compel abatement of a violation  
23 of Section 20 of this Act, to compel submission of a compliance  
24 plan as required under Section 25 of this Act, to compel  
25 submission of a report as required by Section 30 of this Act or  
26 to take such other action as may be necessary, including the

1 recovery of any applicable penalties and costs.

2 (c) If the court finds a person liable for a violation of  
3 this Act, then the court may award the Attorney General, or the  
4 State's Attorney in the county in which the violation occurred,  
5 costs of litigation, including reasonable attorney and expert  
6 witness fees and costs. This allowance shall be a part of the  
7 costs of the litigation assessed against the defendant, and may  
8 be recovered as such.

9 Section 40. Violation of emission limits.

10 (a) A violation of any of the provisions of Section 20 of  
11 this Act is considered to be a public nuisance.

12 (b) Each instance in which a coal-fired power plant emits  
13 PM, PM<sub>2.5</sub>, PM<sub>10</sub>, or CO<sub>2</sub> into the atmosphere in excess of the  
14 limits in Section 20 of this Act is a violation of this Act.  
15 Each one-hour period in which the PM, PM<sub>10</sub>, or PM<sub>2.5</sub> limits of  
16 Section 20 of this Act are exceeded is a separate and distinct  
17 violation. Each one-day period in which the CO<sub>2</sub> limits of  
18 Section 20 of this Act are exceeded is a separate and distinct  
19 violation.

20 (c) Any person found to have violated any of the provisions  
21 of Section 20 of this Act shall be liable for a civil penalty  
22 of not less than \$5,000 and not more than \$10,000 for each  
23 violation.

24 Section 45. Applicability. Emissions from a coal-fired



1 power plant which occur prior to the effective date of this  
2 amendatory Act of the 97th General Assembly shall not render a  
3 person liable under this Act.

4 Section 50. Conflicts with other laws. If there is any  
5 conflict between the provisions of this Act and the provisions  
6 of any other State or local statute, rule, regulation, or  
7 ordinance, the provisions of this Act shall control.

8 Section 55. Existing remedies. This Act does not abrogate  
9 or waive any statutory or common law cause of action,  
10 administrative remedy, or defense otherwise available to the  
11 State and existing before the effective date of this amendatory  
12 Act of the 97th General Assembly.

13 Section 60. Rulemaking. The Illinois Environmental  
14 Protection Agency may adopt rules necessary to implement this  
15 Act.

16 Section 97. Severability. The provisions of this Act are  
17 severable under Section 1.31 of the Statute on Statutes.

18 Section 99. Effective date. This Act takes effect June 1,  
19 2012."