

**ASSEMBLY, No. 5564**

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**STATE OF NEW JERSEY**

**221st LEGISLATURE**

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INTRODUCED APRIL 10, 2025

**Sponsored by:**  
**Assemblyman JOE DANIELSEN**  
**District 17 (Middlesex and Somerset)**

**SYNOPSIS**

Requires submission of energy usage plan to BPU for proposed artificial intelligence data centers; requires all electricity for artificial intelligence data centers to be derived from new clean energy sources.

**CURRENT VERSION OF TEXT**

As introduced.



1 AN ACT concerning artificial intelligence data centers and  
2 supplementing Title 48 of the Revised Statutes.

3  
4 **BE IT ENACTED** *by the Senate and General Assembly of the State*  
5 *of New Jersey:*

6  
7 1. The Legislature finds and declares that data center operation  
8 is one of the fastest growing industries worldwide and in the United  
9 States and that as of March 2024, there are 5,381 data centers located  
10 in the United States, 73 of which are located in New Jersey.

11 The Legislature further finds and declares that data center load  
12 growth has tripled over the past decade and is projected to double or  
13 triple by 2028.

14 The Legislature further finds and declares that PJM  
15 Interconnection (PJM) is the regional transmission organization that  
16 manages the electric grid across 13 states, including New Jersey; that  
17 PJM's capacity market ensures long-term grid reliability by securing  
18 the appropriate amount of power supply resources required to meet  
19 predicted energy demand; and that PJM utilizes an annual capacity  
20 auction to procure capacity for a given year.

21 The Legislature further finds and declares that at PJM's capacity  
22 auction in July 2024 capacity prices increased by \$12.5 billion  
23 compared to capacity prices from the previous year; and that the 2025  
24 Basic Generation Service auction for residential and small  
25 commercial customers (BGS-RSCP), certified by the Board of Public  
26 Utilities, saw approximately 35 percent higher prices than in 2023.

27 The Legislature further finds and declares that in both auctions  
28 increased capacity prices were driven by an expected increase in  
29 demand and a stagnant supply of energy in New Jersey and the rest  
30 of the PJM territory.

31 The Legislature further finds and declares that many states served  
32 by PJM, including New Jersey, urged the Federal Energy Regulatory  
33 Commission (FERC) to safeguard ratepayers from unwarranted  
34 prices by modifying PJM's auction price cap due to growing concerns  
35 about the potential for excessive capacity market price increases in  
36 upcoming capacity auctions, which prompted the FERC to postpone  
37 the PJM's next capacity auction.

38 The Legislature further finds and declares that the expansion of  
39 data centers has placed strain on the electric grid and that projections  
40 of increased energy demand from data centers has put an undue  
41 burden on New Jersey ratepayers.

42 The Legislature therefore determines that it is in the public interest  
43 of the residents of New Jersey to require all electricity supplied to a  
44 data center within the State to be derived from new verifiable Class I  
45 renewable energy, energy from nuclear power plants, or a  
46 combination thereof.

47  
48 2. As used in this act:

1 “AI data center” means the same as defined in section 2 of  
2 P.L.2024, c.49 (C.34:1B-395).

3 “Application for local development approval” means the  
4 application form and all accompanying documents required for  
5 approval of a subdivision plat, site plan, planned development,  
6 conditional use, zoning variance, or direction of the issuance of a  
7 permit pursuant to the “Municipal Land Use Law,” P.L.1975, c.291  
8 (C.40:55D-1 et seq.) or R.S.40:27-1 et seq., for any use,  
9 development, or construction.

10 “Artificial intelligence” or “AI” means the same as defined in  
11 section 2 of P.L.2024, c.49 (C.34:1B-395).

12 “Board” means the Board of Public Utilities.

13 “Class I renewable energy” means the same as defined in section  
14 3 of P.L.1999, c.23 (C.48:3-51).

15 “Nuclear power plant” means the same as defined in section 2 of  
16 P.L.2018, c.16 (C.48:3-87.4).

17 “Person” means the same as defined in section 3 of P.L.1999, c.23  
18 (C.48:3-51).

19 “PJM Interconnection, L.L.C.” or “PJM” means the same as the  
20 term is defined in section 3 of P.L.1999, c.23 (C.48:3-51).

21 “Transmission and distribution system” means the same as the  
22 term is defined in section 3 of P.L.1999, c.23 (C.48:3-51).

23

24 3. a. Upon a finding by the board pursuant to subsection b. of  
25 section 4 of this act, and published in the New Jersey Register and on  
26 the board’s internet website, all electricity supplied to an AI data  
27 center within the State shall be derived from new verifiable Class I  
28 renewable energy, energy from nuclear power plants, or a  
29 combination thereof, such that there is no net decrease of verifiable  
30 Class I renewable energy and energy from nuclear power plants  
31 supplied to the transmission and distribution system.

32 b. Upon a finding by the board pursuant to subsection b. of  
33 section 4 of this act, and published in the New Jersey Register and on  
34 the board’s internet website, any person submitting an application for  
35 local development approval for the establishment of an AI data center  
36 within the State shall simultaneously prepare and submit an energy  
37 usage plan to the board for approval. The energy usage plan shall  
38 include, at a minimum, procedures that the AI data center will utilize  
39 to:

40 (1) derive all electricity from new verifiable Class I renewable  
41 energy, energy from nuclear power plants, or a combination thereof,  
42 as required pursuant to subsection a. of this section;

43 (2) minimize the amount of energy that is used to cool computers  
44 by optimizing the layout of the room, ventilation, and cooling  
45 systems;

46 (3) optimize water usage, including the process the AI data center  
47 will use to source water in a manner that has the least negative  
48 impacts to the environment and to drinking water;

1 (4) ensure that ventilation and weatherproofing of the building is  
2 optimized to minimize energy usage; and

3 (5) utilize the heat generated by the computers in the AI data  
4 center for water or space heating in the AI data center or adjacent  
5 buildings.

6 c. No later than 90 days after receipt of an energy usage plan,  
7 the board shall make a determination to approve the plan as  
8 submitted, approve the plan with conditions, or disapprove the plan  
9 and shall provide written notification to the person that submitted an  
10 energy usage plan of the determination. If the energy usage plan is  
11 disapproved, the board shall inform the person that submitted the  
12 energy usage plan of the reasons for the disapproval. The person  
13 shall have 30 days thereafter to submit a revised energy usage plan  
14 to the board. After receiving approval from the board, the individual  
15 or business shall proceed with the implementation of the plan for the  
16 proposed AI data center.

17 d. No AI data center shall connect to the transmission and  
18 distribution system without receiving approval from the board for an  
19 energy usage plan submitted pursuant to subsection b. of this section.  
20

21 4. a. The board shall monitor all other states within the PJM  
22 region to determine if any state laws, rules, regulations, or policies  
23 of those states require all electricity supplied to an AI data center to  
24 be derived from energy sources, such that there is no net decrease in  
25 energy supplied to the transmission and distribution system, and  
26 prepare, and update as necessary, a list of states that have  
27 implemented such requirements.

28 b. When the board finds that a majority of the states within the  
29 PJM region have implemented the energy supply requirements  
30 articulated in subsection a. of this section, the board shall publish that  
31 finding in the New Jersey Register and on the board's Internet  
32 website no more than 30 days after making the finding.  
33

34 5. This act shall take effect immediately.  
35  
36

### 37 STATEMENT

38  
39 This bill would require all electricity for artificial intelligence (AI)  
40 data centers to be derived from new verifiable Class I renewable  
41 energy, energy from nuclear power plants, or a combination thereof,  
42 such that there is no net decrease of verifiable Class I renewable  
43 energy and energy from nuclear power plants supplied to the  
44 transmission and distribution system if the Board of Public Utilities  
45 (board) finds that a majority of the states in the PJM region require  
46 all electricity supplied to an AI data center to be derived from energy  
47 sources, such that there is no net decrease in energy supplied to the  
48 transmission and distribution system.

1 In addition, the bill would require any person submitting an  
2 application for local development approval for the establishment of  
3 an AI data center within the State to simultaneously prepare and  
4 submit an energy usage plan to the board for approval if the board  
5 finds that a majority of the states in the PJM region require all  
6 electricity supplied to an AI data center to be derived from energy  
7 sources, such that there is no net decrease in energy supplied to the  
8 transmission and distribution system. The energy usage plan would  
9 be required to include, at a minimum, procedures that the AI data  
10 center will utilize to:

11 (1) derive all electricity from new verifiable Class I renewable  
12 energy, energy from nuclear power plants, or a combination thereof;

13 (2) minimize the amount of energy that is used to cool computers  
14 by optimizing the layout of the room, ventilation, and cooling  
15 systems;

16 (3) optimize water usage, including the process the AI data center  
17 plans to use to source water in a manner that has the least negative  
18 impacts to the environment and to drinking water;

19 (4) ensure that ventilation and weatherproofing of the building is  
20 optimized to minimize energy usage; and

21 (5) utilize the heat generated by the computers in the AI data  
22 center for water or space heating in the AI data center or adjacent  
23 buildings.

24 No later than 90 days after receipt of an energy usage plan, the  
25 board would be required to make a determination to approve the plan  
26 as submitted, approve the plan with conditions, or disapprove the  
27 plan and to provide written notification to the person that submitted  
28 an energy usage plan of the determination. If the energy usage plan  
29 is disapproved, the board would be required to inform the person that  
30 submitted the energy usage plan of the reasons for the disapproval.  
31 The person would have 30 days thereafter to submit a revised energy  
32 usage plan to the board. After receiving approval from the board, the  
33 person would be required to proceed with the implementation of the  
34 plan for the proposed AI data center.

35 The bill would also prohibit any AI data center from connecting  
36 to the transmission and distribution system without receiving  
37 approval from the board for an energy usage plan.

38 Finally, the bill would require the board to monitor all other states  
39 within the PJM region to determine if state laws, rules, regulations,  
40 or policies of those states require all electricity supplied to an AI data  
41 center to be derived from energy sources, such that there is no net  
42 decrease in energy supplied to the transmission and distribution  
43 system, and to prepare, and update as necessary, a list of states that  
44 have implemented such requirements. When the board finds that a  
45 majority of the states within the PJM region have implemented the  
46 energy supply requirements, the board would be required to publish  
47 that finding in the New Jersey Register and on the board's Internet  
48 website no more than 30 days after making the finding.