

STATE OF NEW YORK

8934--B

2025-2026 Regular Sessions

IN ASSEMBLY

July 16, 2025

Introduced by M. of A. SHRESTHA, GALLAGHER, TAPIA, SHIMSKY, GLICK -- read once and referred to the Committee on Energy -- committee discharged, bill amended, ordered reprinted as amended and recommitted to said committee -- again reported from said committee with amendments, ordered reprinted as amended and recommitted to said committee

AN ACT to amend the public service law, in relation to advanced transmission technologies; and to direct the New York state energy research and development authority to conduct a study on the effectiveness of such technologies

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

1 Section 1. The public service law is amended by adding a new section
2 66-x to read as follows:

3 § 66-x. Advanced transmission technologies. 1. For the purposes of
4 this section, the following terms shall have the following meanings:

5 (a) "Advanced transmission technologies" or "ATTs" means hardware
6 and/or software that enhance the performance, efficiency, or capacity of
7 the electric transmission system, including but not limited to, grid
8 enhancing technologies, advanced conductors, advanced reconductoring,
9 and energy storage used as a transmission resource.

10 (b) "Grid enhancing technology" means any hardware and/or software
11 technology that enables enhanced or more efficient performance from the
12 electric distribution or transmission system, including, but not limited
13 to dynamic line rating, advanced power flow control technology, topology
14 optimization, and energy storage when used as a distribution resource.

15 (c) "Advanced conductor" means a conductor with a direct current elec-
16 trical resistance substantially lower than traditional conductors of a
17 similar diameter, while simultaneously increasing capacity, which may
18 include rebuilding support structures or other associated facilities.

EXPLANATION--Matter in italics (underscored) is new; matter in brackets
[-] is old law to be omitted.

LBD05306-04-6

1 (d) "Dynamic line rating" means hardware and/or software technologies
2 used to update the calculated thermal limits of existing transmission
3 lines based on real-time and forecasted weather conditions.

4 (e) "Advanced power flow control" means hardware and/or software tech-
5 nologies used to push or pull electric power in a manner that balances
6 overloaded lines and underutilized corridors within the transmission
7 system.

8 (f) "Topology optimization" means hardware and/or software technolo-
9 gies that identify reconfigurations of the transmission system and
10 enable the routing of electrical power flows around congested or over-
11 loaded elements of the transmission system.

12 (g) "Electric corporation" shall have the same meaning as defined by
13 section two of this chapter.

14 (h) "Combination electric and gas corporation" shall have the same
15 meaning as defined by section two of this chapter.

16 (i) "Transmission", except as used within the term advanced trans-
17 mission technologies, shall have the same meaning as the term major
18 electric transmission facility as defined by section one hundred thir-
19 ty-seven of this chapter.

20 2. (a) In any hearing considering a major change in rates or charges,
21 transmission planning proceeding, or capital improvement proposal before
22 the commission initiated one year after the effective date of this
23 section, each electric corporation or combination electric and gas
24 corporation shall file with the commission a cost-effectiveness analysis
25 relating to the deployment of advanced transmission technologies;
26 provided however nothing in this section shall be construed to prohibit
27 an electric corporation or combination electric and gas corporation from
28 filing a cost-effectiveness analysis relating to the deployment of ATTs
29 prior to such date. Such cost-effectiveness analysis shall evaluate
30 such strategies against a set of enumerated transmission goals, includ-
31 ing:

32 (i) increased transmission capacity;

33 (ii) reduced transmission system congestion;

34 (iii) reduced curtailment of renewable and zero-emission resources;

35 (iv) increased reliability and resiliency;

36 (v) reduced risk of equipment failure in light of climate-driven
37 hazards;

38 (vi) increased capacity to connect new renewable and zero-emission
39 resources;

40 (vii) increased flexibility and optionality in long-term planning,
41 including for major load growth; and

42 (viii) improvement of consumer affordability, reduced overall ratepay-
43 er costs, and/or mitigation of rate increases.

44 (b) During or subsequent to any hearing considering a major change in
45 rates, transmission planning proceeding, or capital improvement proposal
46 before the commission, each electric corporation and combination elec-
47 tric and gas corporation shall file cost-effectiveness analysis with the
48 federally designated bulk system operator. Such filing shall reflect
49 analyses conducted within such proceedings and shall not require dupli-
50 cative standalone evaluations.

51 3. (a) Where a cost-effectiveness analysis conducted under subdivision
52 two of this section identifies one or more advanced transmission tech-
53 nologies or advanced conductors as cost-effective strategies, the utili-
54 ty shall submit to the commission a strategic implementation plan within
55 ninety days of completion of such analysis.

1 (b) An implementation plan submitted under paragraph (a) of this
2 subdivision shall include proposed timelines, procurement strategies,
3 including solicitations where appropriate, and measurable performance
4 metrics.

5 (c) The commission shall review implementation plans submitted under
6 paragraph (a) of this subdivision and, where consistent with the public
7 interest, direct the timely deployment of the technologies identified in
8 such implementation plans.

9 4. Each electric corporation and combination electric and gas corpo-
10 ration shall submit a filing on their compliance with the provisions of
11 this section to the commission, and provide a separate report to the
12 federally designated bulk system operator and the legislature's standing
13 committees on energy, within one year of the effective date of this
14 section, and every two years thereafter, which shall include, but not be
15 limited to:

16 (a) the status of deployment of ATTs;

17 (b) results of cost-effectiveness analyses;

18 (c) implementation plans and progress; and

19 (d) projected opportunities for future deployment.

20 § 2. Study on effectiveness of advanced transmission technologies. 1.
21 For the purposes of this section, the following terms shall have the
22 following meanings:

23 (a) "Advanced transmission technologies" or "ATTs" shall have the same
24 meaning as defined in section 66-x of the public service law.

25 (b) "Transmission", except as used within the term advanced trans-
26 mission technologies, shall have the same meaning as the term major
27 electric transmission facility as defined by section 137 of the public
28 service law.

29 (c) "NYSERDA" means the New York state energy research and development
30 authority.

31 2. Within 12 months of the effective date of this act, NYSERDA shall
32 conduct and complete a study evaluating the use and benefits of advanced
33 transmission technologies within this state and other jurisdictions.

34 3. The study shall include:

35 (a) a description of all advanced transmission technologies deployed
36 by utilities in New York state;

37 (b) an evaluation of the impacts of ATTs on transmission performance,
38 including but not limited to:

39 (i) increased capacity and efficiency;

40 (ii) congestion reduction;

41 (iii) curtailment reduction;

42 (iv) reliability and resiliency improvements;

43 (v) cost savings to ratepayers; and

44 (vi) integration of new renewable energy and load growth;

45 (c) at least two multi-technology case studies, including cost, time-
46 line, reliability, and consumer impacts; and

47 (d) a projection of future opportunities for deployment of ATTs to
48 meet demand growth and improve affordability.

49 4. NYSERDA may consult with the federally designated bulk system oper-
50 ator, federal energy regulatory commission, consumer advocates, utili-
51 ties, academic experts, and other stakeholders in conducting the study.

52 5. Upon completion of the study, NYSERDA shall submit a report on the
53 results of such study to the legislature and the governor, and make such
54 study available on its website.

55 § 3. This act shall take effect immediately.