

STATE OF NEW YORK

8934--A

2025-2026 Regular Sessions

IN ASSEMBLY

July 16, 2025

Introduced by M. of A. SHRESTHA -- read once and referred to the Committee on Energy -- committee discharged, bill amended, ordered reprinted as amended and recommitted to said committee

AN ACT to amend the public service law and the public authorities 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:

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

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

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

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

(c) "Advanced conductor" means a conductor with a direct current electrical resistance at least ten percent lower than existing conductors of a similar diameter, while simultaneously increasing capacity by at least seventy-five percent, which may include rebuilding support structures or other associated facilities.

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

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

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

5 (f) "Topology optimization" means hardware and/or software technolo-
6 gies that identify reconfigurations of the transmission grid and enable
7 the routing of power flows around congested or overloaded elements.

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

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

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

16 2. (a) In any base rate proceeding, transmission planning proceeding,
17 or capital improvement proposal before the commission, each electric
18 corporation or combination electric and gas corporation shall conduct
19 and file a cost-effectiveness and timetable analysis of multiple strate-
20 gies, including but not limited to deployment of advanced transmission
21 technologies. Such cost-effectiveness analysis shall evaluate such stra-
22 tegies against a set of enumerated transmission goals, including:

23 (i) increased transmission capacity;
24 (ii) reduced transmission system congestion;
25 (iii) reduced curtailment of renewable and zero-carbon resources;
26 (iv) increased reliability and resiliency;
27 (v) reduced risk of equipment failure and climate-driven hazards;
28 (vi) increased capacity to connect new renewable and zero-carbon
29 resources;

30 (vii) increased flexibility and optionality in long-term planning,
31 including for data center growth and other major load growth; and

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

34 (b) During or subsequent to any rate-based proceeding, transmission
35 planning proceeding, or capital improvement proposal before the commis-
36 sion, each electric corporation and combination electric and gas corpo-
37 ration shall file cost-effectiveness and timetable analysis with the New
38 York independent system operator within seven days of filing such cost-
39 effectiveness and timetable analysis with the commission. Such filing
40 shall reflect analyses conducted within such proceedings and shall not
41 require duplicative standalone evaluations.

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

47 (b) An implementation plan submitted under paragraph (a) of this
48 subdivision shall include proposed timelines, procurement strategies,
49 including solicitations where appropriate, and measurable performance
50 metrics.

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

55 4. Each electric corporation and combination electric and gas corpo-
56 ration shall submit a filing on their compliance with the provisions of

1 this section to the commission, and provide a separate report to the New
2 York independent system operator and the legislature's standing commit-
3 tees on energy, within one year of the effective date of this section,
4 and every two years thereafter, which shall include, but not be limited
5 to:

- 6 (a) the status of deployment of ATTs;
- 7 (b) results of cost-effectiveness analyses;
- 8 (c) implementation plans and progress; and
- 9 (d) projected opportunities for future deployment.

10 § 2. Study on effectiveness of advanced transmission technologies. 1.
11 For the purposes of this section, the following terms shall have the
12 following meanings:

13 (a) "Advanced transmission technologies" or "ATTs" means hardware and
14 software that enhance the performance, efficiency, or capacity of the
15 electric transmission system, including but not limited to, grid enhanc-
16 ing technologies, advanced conductors, advanced reconductoring, and
17 energy storage used as a transmission resource.

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

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

24 2. Within 12 months of the effective date of this act, NYSERDA shall
25 conduct a study evaluating the use and benefits of advanced transmission
26 technologies nationally and subsequent studies evaluating the use and
27 benefits of advanced transmission technologies in New York state.

28 3. The study shall include:

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

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

- 33 (i) increased capacity and efficiency;
- 34 (ii) congestion reduction;
- 35 (iii) curtailment reduction;
- 36 (iv) reliability and resiliency improvements;
- 37 (v) cost savings to ratepayers; and
- 38 (vi) integration of new renewable energy and load growth;

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

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

43 4. NYSERDA may consult with the New York independent system operator,
44 federal energy regulatory commission, consumer advocates, utilities,
45 academic experts, and other stakeholders in conducting the study.

46 5. Upon completion of the study, NYSERDA shall submit a report on the
47 results of such study to the legislature and the governor, and, if
48 NYSERDA determines that ATTs are in the public interest, the commission
49 shall promulgate regulations requiring utilities to incorporate ATTs in
50 their planning and investments.

51 § 3. This act shall take effect on the ninetieth day after it shall
52 have become a law. Effective immediately, the addition, amendment and/or
53 repeal of any rule or regulation necessary for the implementation of
54 this act on its effective date are authorized to be made and completed
55 on or before such effective date.