

Christine F. Watkins proposes the following substitute bill:

Advanced Transmission Technologies

2025 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Christine F. Watkins

Senate Sponsor: David P. Hinkins

LONG TITLE

General Description:

This bill makes changes to the Energy Resource Procurement Act.

Highlighted Provisions:

This bill:

- defines terms;
- outlines cost-effectiveness analyses and approval procedures when a large-scale electric utility (utility) proposes advanced transmission technology deployment; and
- provides that a utility may recover approved costs.

Money Appropriated in this Bill:

None

Other Special Clauses:

None

Utah Code Sections Affected:

ENACTS:

54-17-1101, Utah Code Annotated 1953

Be it enacted by the Legislature of the state of Utah:

Section 1. Section **54-17-1101** is enacted to read:

Part 11. Advanced Transmission Technologies

54-17-1101 . Advanced transmission technologies.

(1) As used in this section:

- (a) "Advanced transmission technology" means a technology that increases the capacity, efficiency, or reliability of electric transmission infrastructure.
- (b) "Advanced transmission technology" includes:
 - (i) technology that dynamically adjusts the rated capacity of transmission lines based

- 29 on real-time conditions;
- 30 (ii) advanced power flow controls used to actively control the flow of electricity
- 31 across transmission lines to optimize usage and relieve congestion;
- 32 (iii) software and hardware used to identify optimal transmission grid configurations
- 33 and enable routing power flows around congestion points;
- 34 (iv) advanced transmission line conductors that increase the power transfer capacity
- 35 of transmission lines; and
- 36 (v) energy storage technologies that facilitate energy storage during times of excess
- 37 generation and discharge of stored energy during times of high demand to support
- 38 transmission system operation.
- 39 (2) In an integrated resource plan filing, a general rate case, or other proceeding in which a
- 40 large-scale electric utility proposes additions or expansions to the transmission system,
- 41 the large-scale electric utility shall:
- 42 (a) analyze:
- 43 (i) the cost effectiveness and timetable for deployment of advanced transmission
- 44 technologies as an alternative strategy to meet electric system needs; and
- 45 (ii) whether the technologies would:
- 46 (A) increase transmission capacity;
- 47 (B) increase transmission efficiency;
- 48 (C) reduce transmission system congestion;
- 49 (D) reduce curtailment of energy generation resources;
- 50 (E) increase reliability;
- 51 (F) reduce the risk of igniting wildfire;
- 52 (G) increase resiliency; and
- 53 (H) increase capacity to connect new energy resources; and
- 54 (b) include the analysis described in Subsection (2)(a) in the filing to the commission.
- 55 (3)(a) The commission shall encourage the large-scale electric utility to include
- 56 deployment of advanced transmission technologies in an integrated resource plan.
- 57 (b) A large-scale electric utility shall include a summary of its existing and planned
- 58 advanced transmission technologies in each integrated resource plan filed with the
- 59 commission.
- 60 (4) If the commission determines, based on the analysis provided by the large-scale electric
- 61 utility under Subsection (2)(a), that the deployment of advanced transmission
- 62 technologies is cost effective, the commission shall approve the large-scale utility's

63 recovery of the prudently incurred costs of the advanced transmission technologies.

64 Section 2. **Effective Date.**

65 This bill takes effect on May 7, 2025.