



N A R U C
National Association of Regulatory Utility Commissioners

Workshop on Advanced Transmission Technologies: Assessing Applicability and Quantifying Benefits for Investment Decisions

NARUC Annual Meeting and Education Conference

San Juan, Puerto Rico, Sheraton Puerto Rico

Tuesday, November 10, 2026

1:30 to 4:30 p.m. (3 hours)

As electricity demand grows and pressure mounts to deliver reliable service at an affordable cost, utilities, regulators, and transmission planners are increasingly evaluating Advanced Transmission Technologies (ATTs) as part of transmission planning portfolios. Technologies such as dynamic line ratings, advanced power flow controls, topology optimization, and advanced conductors can increase transfer capability, reduce congestion, defer infrastructure investments, and improve system resilience. However, an important challenge remains: where can ATTs be reasonably applied and how should planners and commissions rigorously compare their benefits?

This interactive workshop focuses on the methodologies used to determine where ATTs can be applied and how their value is quantified within transmission planning processes. Participants will explore how planners evaluate benefits such as production cost savings, congestion relief, capacity value, reliability and resilience improvements, interconnection benefits, and avoided or deferred transmission investments.

Through case studies, planning examples, and facilitated discussion, attendees will gain practical insights into how benefit calculations influence project selection, cost allocation, and regulatory decision-making. The workshop is designed to help commissioners and commission staff better understand the analytical frameworks used to evaluate ATTs alongside traditional transmission solutions.

Space is limited; advance registration required: [Workshop Registration](#)

Workshop is open to all NARUC Annual Meeting attendees

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AGENDA

Time	Speaker	Topic
1:30 – 1:40 p.m.	Holly Rachel Smith Deputy Assistant Secretary for Electricity, U.S. Department of Energy	Opening: Introductions and Remarks
1:40 – 2:05 p.m.	Jarrad Wright Electrical Engineer, National Lab of the Rockies	ATTs—Fact vs. Fiction: What They Are, What They Can Do, and Where They Do and Don't Apply Objective: Establish a foundation in the different types of ATTs and grid-enhancing technologies (GETs), including how and where they can be applied.
2:05 – 2:30 p.m.	Jarrad Wright Electrical Engineer, National Lab of the Rockies	Which Benefits Matter and How to Calculate Them Objective: Understand the benefits ATTs can provide and how to calculate them.
2:30 – 2:45 p.m.	Dr. Brittany Tarufelli Economist, Pacific Northwest National Lab	Understanding Cost-Effectiveness of ATTs for Utility Regulators Objective: Understand how to use value calculations to make or approve investment decisions in transmission and resource planning.
2:45 – 3:00 p.m.		Break
3:00 – 3:55 p.m.	Dr. Brittany Tarufelli Economist, Pacific Northwest National Lab	Interactive Case Study and Benefit-Cost Calculation Exercise Objective: Walk participants through a real-world ATT evaluation.
3:55 – 4:30 p.m.	Deborah Reynolds Sr. Regulatory Policy Specialist, NARUC	Utility Regulator Applications: What Questions Should Commissions Ask? Objective: Commission questions that support decision-making.