



Grid Intelligence to Help Utilities Deliver Affordable, Reliable Power



LINEVISION DELIVERS TRANSMISSION GRID INTELLIGENCE TO ENABLE THE MOST ACCURATE, NETWORK-WIDE DYNAMIC LINE RATINGS AND SAFER, MORE RELIABLE GRID OPERATIONS.

The electric grid is the backbone of the American economy. Transmission capacity must keep pace to accommodate load growth and economic development. Grid Enhancing Technologies (GETs) help utilities increase the capacity, flexibility, and efficiency of the current grid through a suite of technologies including dynamic line ratings (DLR), power flow control, and topology optimization. GETs provide utilities with operational flexibility, helping to solve pressing grid challenges in a timely, affordable manner.

The lack of available transmission capacity is hindering economic development and America's goal of winning the AI race. At the same time, extreme weather and increasing wildfire events threaten infrastructure and public safety.

THE ERA OF LOAD GROWTH IS HERE:	CRITICAL SITUATIONS REQUIRE INCREASED FLEXIBILITY:
• Projected ~16% load growth across the US through 2029 • In 2024, only 322 miles of high-voltage lines were built • Most new transmission takes 10+ years to build	• Extreme weather events & increasing demand are driving the need for greater operational flexibility • Monitoring tools like DLR help to inform accurate contingency options and ensure safe asset tolerance levels are maintained during normal and emergency operations



Drastic load growth and increased extreme weather events are challenging affordability - driving up costs across most of the US. US-wide rate hikes across Q2 of 2025 doubled compared to the same period last year.



DLR IS AN ESSENTIAL TOOL TO OPTIMIZE GRID CAPACITY & DELIVER OPERATIONAL FLEXIBILITY

Dynamic Line Rating (DLR) is a GET that accurately calculates the true thermal capacity of transmission lines, both forecasted and in real time. How? Air temperature and ambient conditions determine how much power can safely pass through a transmission line at any given time. DLR often allows significantly more power flow than a static or ambient adjusted rating over the course of the year, but also detects when flows should be reduced to continue safe and reliable operation. Optimizing existing infrastructure with DLR allows utilities to save on transmission upgrades, reduce congestion, and ultimately save consumers money.

LINEVISION'S GRID INTELLIGENCE CAPABILITIES

LineVision is based in Boston, MA with all components sourced and assembled in the US, with 100% US onshore data analysis and warehousing. The “ARC” of value our solutions deliver includes:

- **Asset Utilization** - Rapid access to accurate data informing where and when additional grid capacity can be unlocked on existing transmission assets
- **Reliability and Resilience** - Empowering operators with facility-level, system-wide flexibility that informs accurate contingency options and ensures safe asset tolerance levels are maintained during normal and emergency operations
- **Capital Efficiency** - Optimize investments for customers and communities

GETS ARE A CRITICAL COMPONENT TO ENABLING A SMARTER, MORE FLEXIBLE GRID

White House AI Action Plan

In its AI Action Plan, the White House acknowledged the need to optimize existing grid resources as much as possible, enhancing the efficiency and performance of the transmission grid. Utilities need to explore solutions like advanced grid management technologies, according to the administration.

FERC Order 1920

FERC’s rule requires transmission providers in each transmission planning region to holistically consider alternative transmission technologies including dynamic line ratings in Long Term Regional Transmission Planning and existing Order No. 1000 regional transmission planning and cost allocation processes.



LINEVISION DLR IN THE FIELD

- **AES** installed DLR on 5 lines in 2 states to study how the technology could unlock additional capacity. One line had a 60% capacity increase and avoided 2.5 months of construction at 7.6% of the cost of reconductoring.
- **National Grid NY** operationalized 48-mile deployment which has been integrated into the control room; the project is the second operational DLR deployment in the US
- **Duquesne Light Company** is on its third deployment of DLR after initially seeing as much as a 25% increase in capacity, with plans to operationalize line ratings and significantly expand the monitored territory to further enhance system reliability and capacity.