



Accelerating the Net Zero Grid

Equipping our utility partners with innovative monitoring and analytics solutions that improve the capacity, resilience, and safety of the grid.



Hudson Gilmer
Co-founder, CEO



No Transition without Transmission

U.S. stated decarbonization targets

40% clean energy

80% clean energy

100% clean energy



2022



2030



2035

Congestion costs increase to
\$20.8B
With record I/C queues

Current Rate of Transmission
expansion
1%/yr

Wind and solar
over 4x
current annual connections

Transmission expands
over 2x
current system capacity

Renewables and storage
6x
current annual connections

Transmission expands
3x
current system capacity

Sources: On the Path to 100% Clean Electricity, Department of Energy (May 2023)
Examining Supply-Side Options to Achieve 100% Clean Electricity by 2035, NREL (2022)
Queued Up...But in Need of Transmission, Department of Energy (April 2022)
EIA.gov

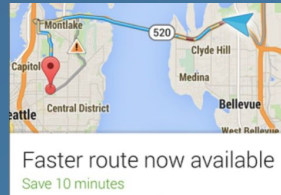
Grid Enhancing Technologies

Advanced Power Flow Control



Reroutes power from congested to underutilized lines

Topology Optimization



Identifies grid reconfigurations to reroute flows around bottlenecks

Dynamic Line Ratings



Measure & use the true capacity of transmission lines

The Benefits of GETs in Kansas and Oklahoma

 **2x** the renewable energy capacity

 Paid for in **6 MONTHS**

 **3 MILLION TONS** carbon emissions avoided annually

 **\$175 MILLION** annual production cost savings

 **11,300** direct short-term jobs
650 direct long-term jobs

A New Way to Build Grid Capacity

LineVision's LineRate DLR utilizes advanced sensors and analytics to increase the capacity, resilience and safety of the transmission grid.

- Unlocks up to **40% additional capacity** on existing lines
- **Costs <5%** of new transmission
- Can be deployed in **under 3 months** without need for outages or permits



Regulatory Momentum for GETs

Department of Energy



GRIP Program - 40101(c), 40107, 40103b
- DLR, monitoring & control technologies

Formula Resilience Grants - 40101d
- Funding for States to improve grid resilience

Transmission Facilitation Program - Sec 40106
- Priority funding goes to projects with GETs

Federal Energy Regulatory Commission



Transmission Line Ratings NOI on DLR [AD22-5-000]
- Inquiry for a possible mandate on DLR

Transmission Planning & Cost Allocation NOPR [RM21-17]
- Require transmission providers to consider GET's (DLR & APFC) in regional transmission planning

Transmission Incentives Policy [RM20-10-000; AD19-19-000]
- Addresses the requirement of FPA 219(b)(3) to "encourage deployment of transmission technologies... to increase the capacity and efficiency of existing transmission facilities"



New York Transco

Building a Clean Energy Future Together

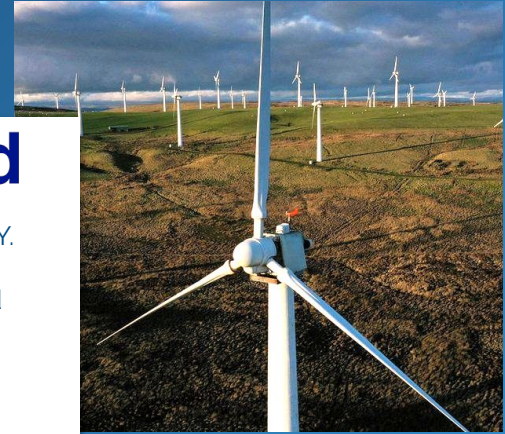
- > Installation **on critical sections of NYES 54-mile line.** Ensuring the new transmission lines are operating at maximum efficiency and capacity.

Reliability & Resilience

nationalgrid

- > Deployed DLR in upstate NY. **Reduced renewable curtailments by 350 MW** and integrated **190 MW of clean energy.**

Integrating Renewables



nationalgrid

- > DLR deployed to reduce OSW curtailments in UK. **Reduced congestion costs by £14M/yr.**

Reducing Congestion

aes

- > Expected **20-55% capacity increases** from DLR, providing grid flexibility for critical C&I load integration.

Enabling Electrification





Questions?

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