

# Panel Discussion: The State of Electric Transmission

**April 7, 2025** 



# **Dominion Energy Virginia**

Reliable, affordable and increasingly clean energy.



3.6 M





40
Years of EnergyShare Program

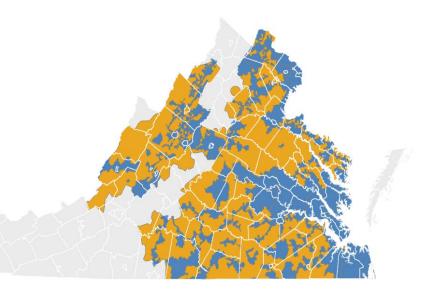




14,400+ Employees & Contractors



**Headquarters:** Richmond, Va.







### Transmission is Popular





DOE Announces \$45 Million for Next-Generation Cyber Tools to Protect the Power Grid

Department of Energy

Funding Will Support Projects that Will Help Make American Energy Systems Secure, Resilient, and Reliable







#### The Atlantic

Unfortunately, I Care About Power Lines Now

If America wants to fight climate change—or enjoy the benefits of a modern economy—it must get much better at building electricity transmission. Yikes.

By Robinson Meyer



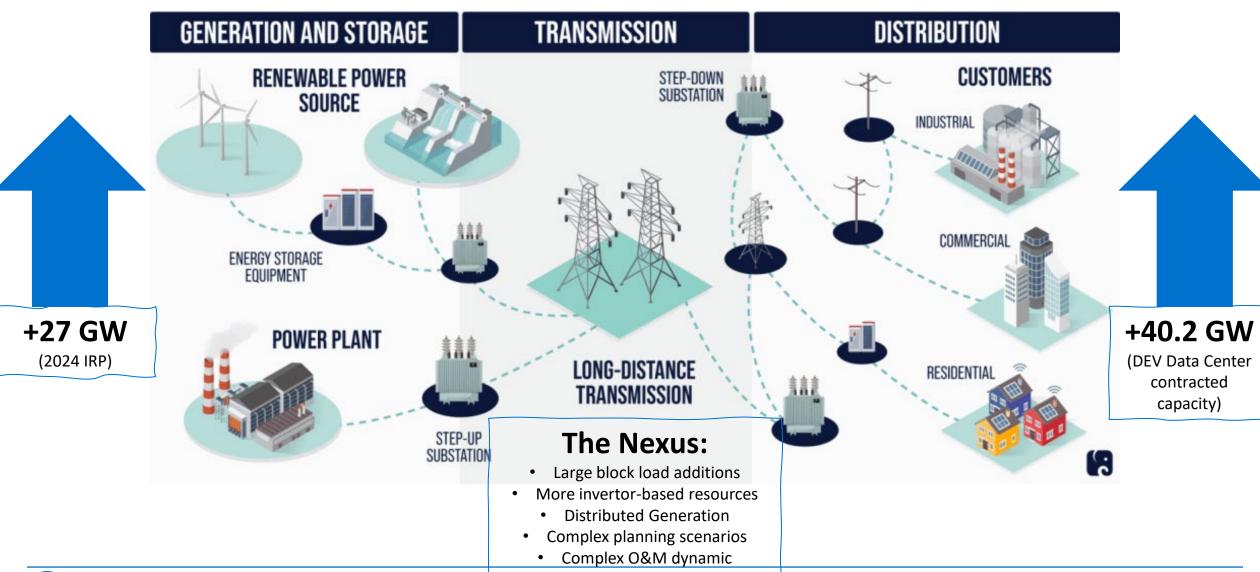
#### **Des Moines Register**

Opinion: Want clean and reliable power? Invest in the grid.

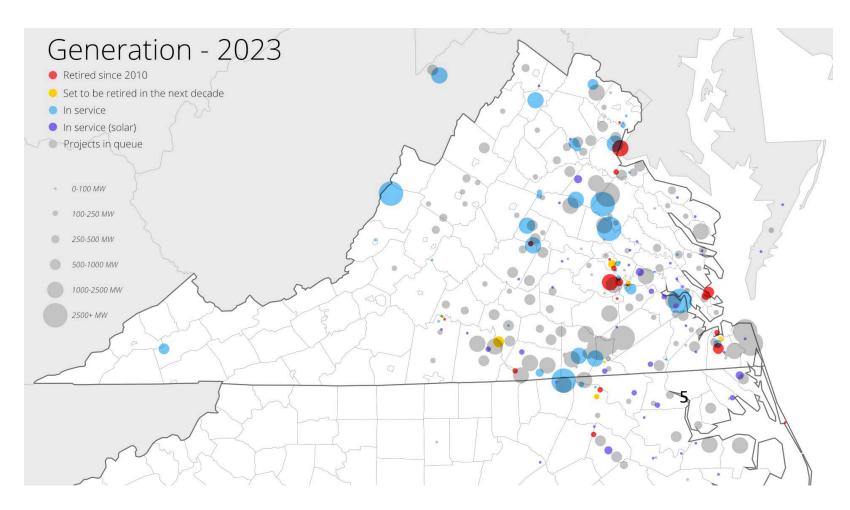
We cannot afford any further delays as this transition will bring down costs for consumers, create jobs, and reduce fossil fuel pollution.



# The Grid's Venn Diagram



# **Generation Mix**



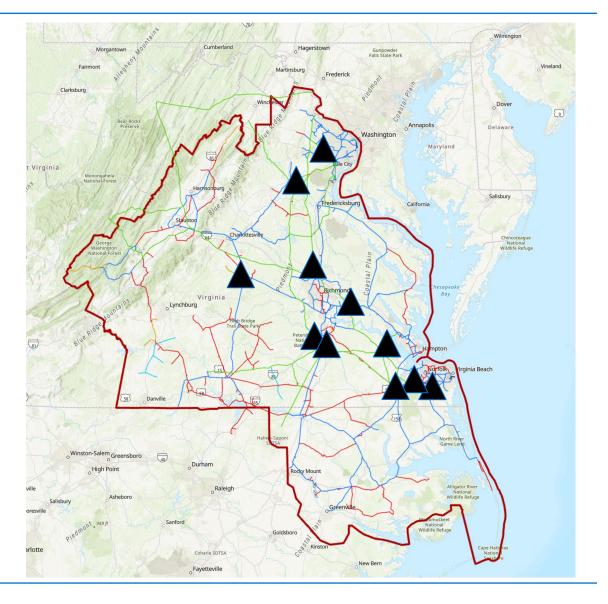
The DOM zone is the most active zone for network upgrade projects in TC.

- Represents Approximately 7,000 MW
- Dom Zone = 77 discrete projects within the DOM zone.
- The network upgrades in the DOM Zone = approximately \$4 Billion.
  - 267 network upgrades identified in PJM for TC1 projects.
  - 106 network upgrade projects within DOM zone.
  - 36 network upgrade projects within next most active GI zone



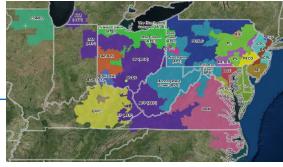
# **Network Upgrades Example - CVOW Pending PJM**

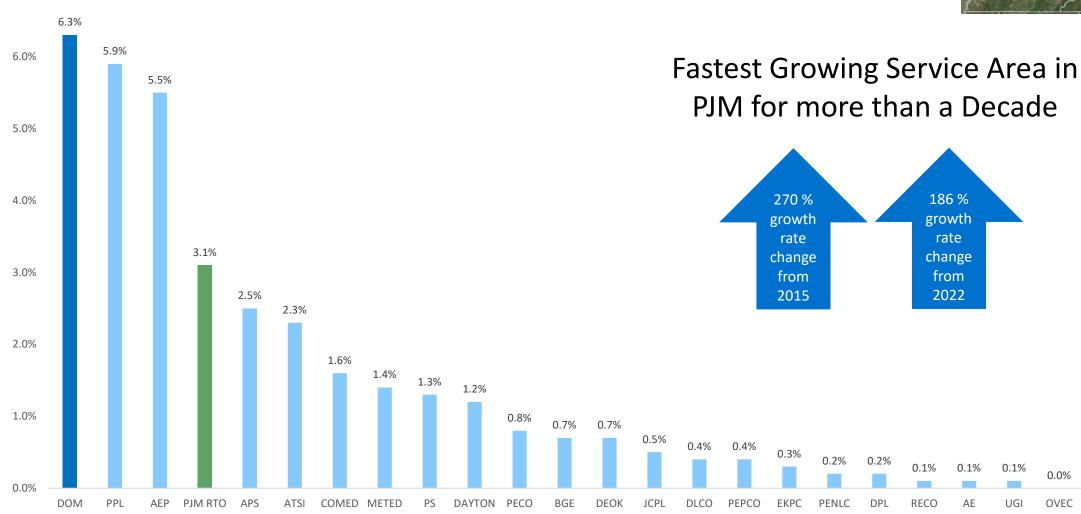
- Transmission Lines: ~342 miles
  - 17 projects
    - 12 Rebuilds: (6) 500 kV, (5) 230 kV, (1) 115 kV
    - 4 New builds all 500 kV
    - 1 Reconductor 230 kV
- Substations: \( \bigs\)
  - 10 projects
    - Expansions
    - Additional and Replacement Transformers
    - Replacement Circuit Breakers
    - Additional substation work



## **Fastest Growing Service Area in PJM**

PJM Summer Peak Load Growth Rate (2025-2035)



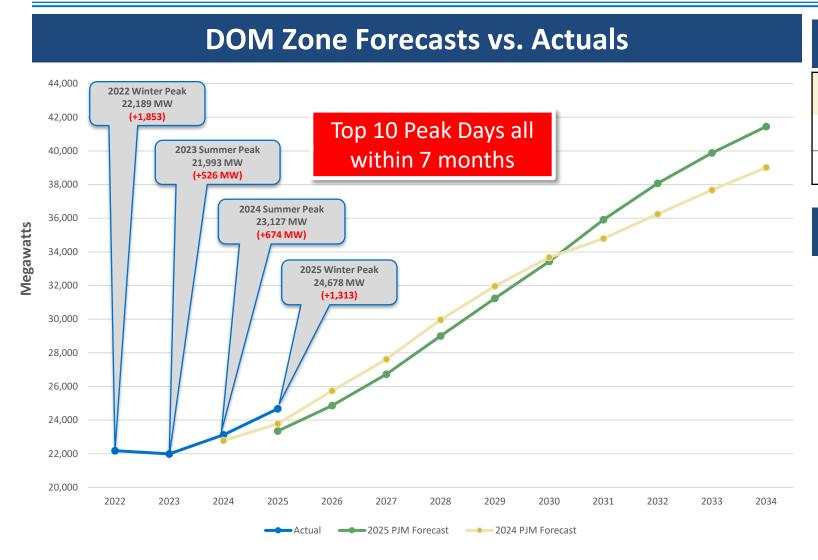




7.0%

#### **2025 PJM Load Forecast**

#### **DOM Zone**



#### % Growth in DOM Zone

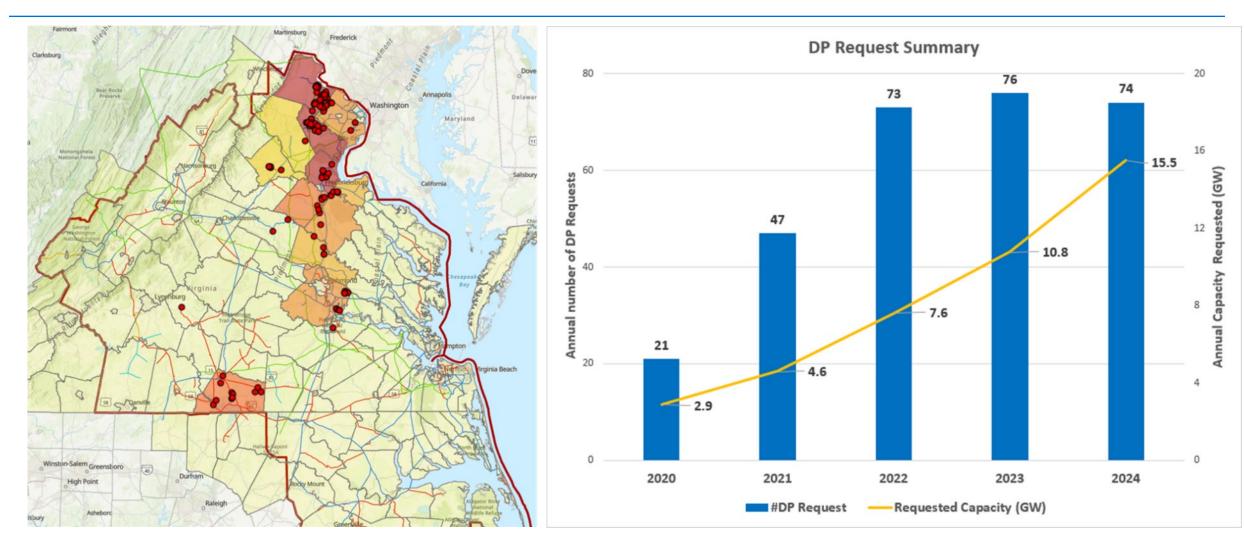
	10-year	YOY change	15-year	YOY change
Summer Peak	6.3%	+0.7	4.9%	+0.1
Winter Peak	6.0%	+0.9	4.7%	+0.4

#### **Notable Updates**

- Near term: Slight moderation in demand
  - Reflects the resetting delivery point request expectations
  - Slight reduction in DEV and electric coop load
- Long term: Continued year-over-year increase in growth
  - No material change to the DEV forecast
  - Significant increases in growth in electric co-op territories due to data centers



# **Meeting Load Growth**











# Thank you

