



ACDC

ANALYTICS AND CONTROL FOR DRIVING CAPITAL EFFICIENCY

Dominion Energy's Analytics and Control for Driving Capital Efficiency (ACDC) project will implement technologies to create a smarter, more adaptive electric grid. The project aims to improve control of grid functions, boost understanding of grid capacity, and inform infrastructure planning. ACDC is expected to deliver substantial improvements in grid reliability, operational flexibility, and cost savings, contributing to a more resilient and sustainable energy system.

ACDC SUB-PROJECTS

ACDC consists of four different technology-focused project scopes that will be deployed across our Virginia and North Carolina service territories.



DYNAMIC LINE RATINGS

Sensors installed on electric transmission lines in northern Virginia's congested circuits will collect data and provide a more accurate look at line capacity.



GRID FORMING INVERTER

A new type of inverter is being piloted to support renewable resource integration and enhance grid flexibility, building the foundation for renewable microgrid and system restoration capabilities.



DYNAMIC PERFORMANCE MONITORING

Sensors installed at electric substations will collect grid frequency data, allowing grid operators to detect and mitigate grid instabilities before they impact service.



GRID EDGE VISIBILITY

Smart reclosers and control devices deployed across the distribution network will give operators granular control and situational awareness at the grid's edge, which is essential for managing distributed energy resources and restoring service quickly.

THE GRID RESILIENCE AND INNOVATION PARTNERSHIPS (GRIP) PROGRAM

This project is funded in part by the U.S. Department of Energy's Grid Deployment Office. Through the Grid Resilience and Innovation Partnerships (GRIP) program, the U.S. Department of Energy is investing \$10.5 billion to enhance grid flexibility and improve the resilience of the power system. The GRIP program aims to accelerate the deployment of transformative projects to help ensure that all American communities have access to affordable, reliable electricity.

BENEFITS



**Support Grid
Reliability**



**Improve Operational
Flexibility**



**Advance
Research**



**Create Jobs &
Opportunities**

CONTACT US

Learn more about ACDC or get in touch with the project team at:

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Dominion Energy está mejorando la tecnología. Para ver la información del proyecto en español, visite DominionEnergy.com/ACDC.