



# Grid Transformation Plan

Our 10-year Grid Transformation Plan is creating the smarter, stronger, greener grid needed to support Virginia’s clean energy future and enhance the reliable service that customers expect and deserve.

Safe, reliable, and consistent electric grid connectivity has never been more important than it is today, especially given the ongoing COVID-19 pandemic.

As daily life increasingly revolves around electronic devices and the internet, utilities are working to modernize their grids. At Dominion Energy, we are doing our part to meet society’s evolving needs.

With legislative support from the Grid Transformation and Security Act of 2018, we sought approval of Phase I of the Grid Transformation Plan, spanning 2019-2021.

During Phase I, we pursued projects focused on the vital objectives of grid reliability and security. We have already seen success, but we are just getting started.



**Reliability**  
Service interruptions lessened by leveraging technology and building to new standards; thousands of trees deemed hazardous to power lines removed



**Innovation**  
Pilot projects studying modern technologies and programs like managed electric vehicle charging and microgrids



**Security**  
Important physical and cybersecurity upgrades at critical substations



**Convenience**  
Laid the groundwork for replacing our customer information system with a new, modern platform



# Phase II of the Grid Transformation Plan

The ways that electricity is generated and delivered to customers is quickly evolving. Due to recent energy policy reforms in Virginia, a massive expansion of distributed energy resources is underway. The distribution grid must be made ready. The Grid Transformation Plan's proposed Phase II investments will ensure that Dominion Energy's system is prepared for the rapid pace of change and growing dependence on the electric grid.



The electric grid was originally designed to facilitate one-way flow of energy and information. Electricity moved from large, centralized generation resources through high-voltage transmission lines to distribution infrastructure, which ultimately delivers power to customers.



Distributed energy resources—such as solar and wind generation, energy storage, and electric vehicles—are fundamentally changing operations by introducing bidirectional flow of electricity. GT Plan investments will allow Dominion Energy to effectively integrate distributed energy resources and maximize their value.



Smart meters for all customers and intelligent grid devices at strategic locations improving system awareness, customer response and efficiency.



Phase II proposed projects will provide access to real-time data about the functioning of the grid, as well as the systems to process, manage, and use that data to optimize grid operations.



Two specialized systems will aggregate and manage this influx of data to help improve customer reliability.



We are delivering customer value by preparing for a clean energy future with security upgrades, reliability and resilience improvements, energy and demand savings, and more accurate and timelier information for customers.



To learn more, visit [dominionenergy.com/GTPlan](https://www.dominionenergy.com/GTPlan)