

Safe, Resilient, Customer-Focused Infrastructure

Society of Utility
and Regulatory Financial Analysts
Forum - Panel 4

Brett Crable, Director
New Technology & Energy Conservation



Dominion Energy Profile

Power Delivery



Electric Transmission

- ❖ 6,600 miles of transmission lines
- ❖ Favorable regulatory environment

Electric Distribution

- ❖ 57,600 miles of distribution lines
- ❖ 2.6 million franchise retail customer accounts in VA and NC

Power Generation



Utility Generation

- ❖ 21,500 MW of capacity
- ❖ Balanced, diverse fuel mix
- ❖ Favorable regulatory environment

Merchant Generation

- ❖ 4,700 MW of capacity, including nuclear, gas and renewable power
- ❖ Active hedging program for energy revenue/margins

Gas Infrastructure



Gas Transmission

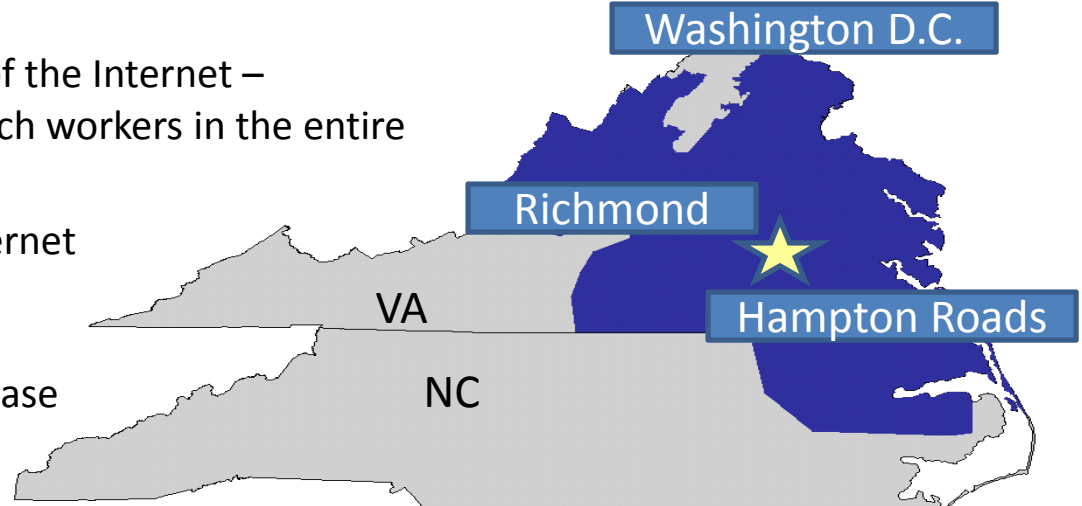
- ❖ Together with Gas Distribution, operates one of the largest natural gas storage systems in the U.S.
- ❖ 15,000 miles of pipeline in 11 states
- ❖ Cove Point LNG import facility

Gas Distribution

- ❖ 51,300 miles of distribution pipeline and 2.3 million natural gas customer accounts in five states

Trends in service territory

- Virginia became the largest data center market in the country in 2017
- Northern Virginia – aka “the epicenter of the Internet – features the highest concentration of tech workers in the entire U.S.
- More than **70 percent** of the world’s Internet traffic passes through Virginia daily
- Large military presence – highlighted by Naval Station Norfolk, the largest naval base in the world
- North Carolina #2 solar state



Grid Modernization to address challenges



- Integrating renewables and distributed energy resources
- Improving resiliency and reliability
- Adapting to customers' evolving expectations for service and information
- Strengthening physical and cyber security

What's Next in Virginia

- Enables investments to transform the energy grid
- Enables potential development of 5,500 megawatts in solar and wind power
- \$870+ million in energy efficiency programs over ten years & commitment to EnergyShare
- Strategic Underground Program, continued investment through 2028
- \$1 billion in customer savings, including full pass through of Federal Tax Reform
- Return to SCC oversight of base rates and earnings

Governor Northam signs
Grid Transformation bill into law

Smart Energy GRID
SMARTER. STRONGER. GREENER.



www.DominionEnergy.com/next

Environmental



Convenience



Energy Efficiency



***CUSTOMERS* are central to grid modernization efforts**

Opportunity to Save



Reliability and Security



New Technology



Key Themes

SMARTER

Enhanced Customer
Experience

STRONGER

Improved Resiliency
and Security

GREENER

Embracing Innovation
and Renewables

SMARTER

Enhanced Customer Experience

- ❖ Smart Meters
- ❖ Customer Tools & Applications
- ❖ Predictive Analytics

STRONGER

Improved Resiliency and Security

- ❖ Self-Healing Grid
- ❖ Grid Resiliency
- ❖ Physical & Cyber Security
- ❖ Adaptive to Renewables

GREENER

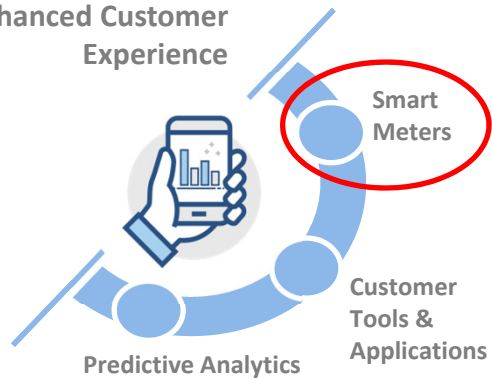
Embracing Innovation and Renewables

- ❖ Distributed Generation
- ❖ Electric Vehicles
- ❖ LED/Smart Communities

Interdependent Building Blocks

SMARTER

Enhanced Customer Experience



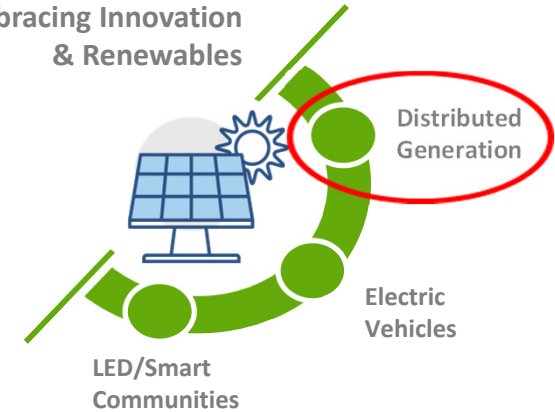
STRONGER

Improved Resiliency and Security



GREENER

Embracing Innovation & Renewables



SMARTER – Smart Meters

SMARTER

Enhanced Customer Experience

Smart Meters

Pred

STRONGER

Improved Resiliency and Security

Self-Healing Grid

Grid Resiliency

Physical & Security

GREENER

Embracing Innovation & Renewables

Distributed Generation

Electric Vehicles

LED/Smart Communities

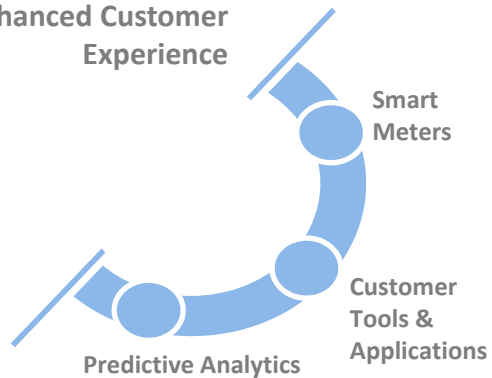
- Foundational for grid mod - essential information for customers, renewable integration and utility operations
- 100% full deployment (currently 15%)
- Improved customer responsiveness through remote capabilities



STRONGER – Grid Resiliency

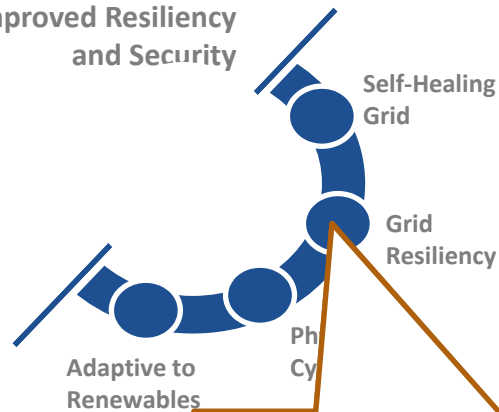
SMARTER

Enhanced Customer Experience



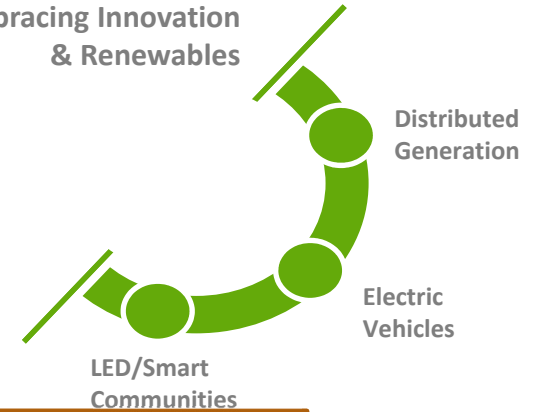
STRONGER

Improved Resiliency and Security



GREENER

Embracing Innovation & Renewables



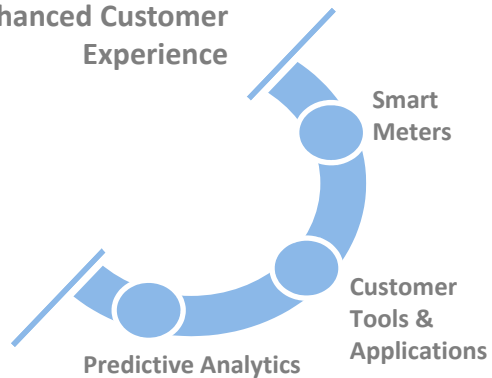
- More robust construction standards
- Strengthening main-line circuits
- Enhanced vegetation control



GREENER – Distributed Generation

SMARTER

Enhanced Customer Experience



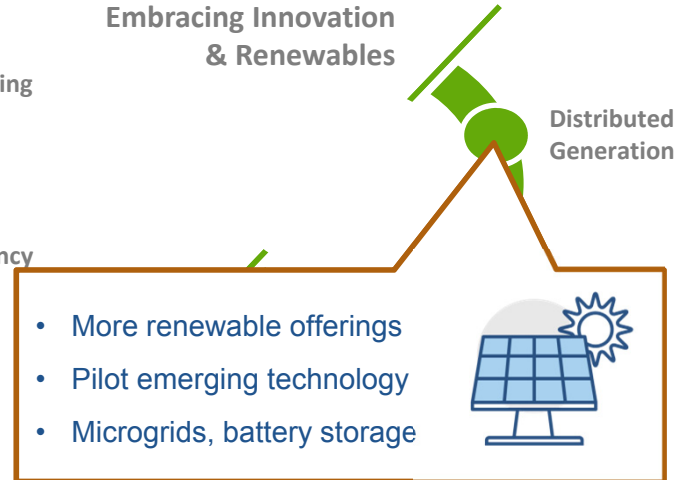
STRONGER

Improved Resiliency and Security



GREENER

Embracing Innovation & Renewables



Interdependent Building Blocks

	<i>Smart Meters</i>	<i>Customer Tools & Applications</i>	<i>Predictive Analytics</i>	<i>Self-Healing Grid</i>	<i>Grid Resiliency</i>	<i>Physical & Cyber Security</i>	<i>Adaptive to Renewables</i>	<i>Distributed Generation</i>	<i>Electric Vehicles</i>	<i>LED / Smart Communities</i>
Improving Resiliency & Reliability	✓		✓	✓	✓	✓	✓	✓		
Integrating Renewables	✓	✓	✓		✓	✓	✓	✓		✓
Customers' Evolving Expectations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Strengthening Physical & Cyber Security	✓	✓	✓	✓	✓	✓		✓		✓

Grid Modernization – Benefits

◆ Customer Benefits

- Fewer outages, faster restoration
- Powers our modern lives; “open for business”
- More information and control over energy use

◆ Societal Benefits

- Reduction in Greenhouse Gases
- Savings from cleaner tech like LED street lights and Electric Vehicles

◆ Benefits for the Company

- Efficient Operations
- Optimized Investments
- Improved physical and cyber security

- ☑ Improving resiliency and reliability
- ☑ Integrating renewables and distributed energy resources
- ☑ Adapting to customers evolving expectations for service and information
- ☑ Strengthening physical and cyber security

Thank You

