Dominion at a Glance

- Energy Portfolio
  - Over 2.6M Electric Customers and 2.3M Gas Customers
  - 64,200 miles Electric Transmission and Distribution
  - Over 800 substations
  - 66,300 miles transmission, distribution, gathering, and storage pipeline
  - 24,600 MW Electric Generation
  - 933B cubic feet of natural gas storage
  - Operations in 18 states
  - Over 1500 mW of renewable energy production in operation, under construction, or in development
  - Over 400 mW of additional renewable energy production planned in Virginia over next 5 years
We are Energy Partners to Mission-Critical Facilities

In all, Dominion provides electric service to over 300 federal sites.
Dominion – Partners In Privatization

Fort Belvoir  Fort Lee
Fort Myer     JBLE - Eustis
Fort McNair  JEB Little Creek – Fort Story (Fort Story)
Henderson Hall
Arlington National Cemetery

Fort Hood – Gas & Electric
Dominion Privatization

Keys to Success

- Partnership Based Relationships
- Flexible Approach
- Real World Utility Expertise
Dominion Privatization - Results

• On-time transitions
• Completed over $300 million in projects for expansions, reliability, and energy security
• Supported significant BRAC related work at Fort Belvoir, Fort Lee, and Fort Eustis
• Significant Improvement in Reliability and Resiliency - Reduced outages by over 70%
• Own, operate and maintain 50 emergency generators to support energy security and sustainability
Dominion’s Installation Blueprint
Base of Tomorrow®

An installation that achieves a Reliable, Resilient, Efficient, and Sustainable energy supply from the generator to the end user by incorporating a diverse set of energy solutions implemented in an Integrated and Optimal approach.

Reliable ➔ Resilient ➔ Efficient ➔ Self Sustainable Supply ➔ Renewables

Advanced Integrated Control Micro Grid System (AICMGS)
Reliable and Resilient

System Protection / Lightning Protection Enhancements
Automatic Transfer Schemes / Distribution Automation
Circuit Reconfiguration / Enhanced Ties/ Loops
Circuit Reconditioning
Strategic Undergrounding
Duct Bank Replacement
Underground Cable Replacement
Switch Replacements
Transformer Replacements
Tree Trimming
Efficient

Conservation Voltage Reduction / Micro CVR

Awarded ESTCP grant (Fort Myer) to install Conservation Voltage Reduction (CVR) and MicroCVR to optimize voltage to reduce demand and consumption and to maintain voltage within a critical bandwidth

LED Lighting

Full Energy Services Capabilities – ESCO Partners
Sustainable

Short Term Sustainability

Own, Operate and Maintain 50 Emergency Back-Up Generators

Provide Emergency Back-Up Power directly to critical facilities

24/7 Monitoring with Dispatch Capability

Integrated into spot Micro Grids at Fort McNair, Fort Belvoir, and Fort Eustis
Sustainable

Long Term Sustainability

Advanced Integrated Control – Micro Grid System (AICMGS)

• Includes automation of distribution system and integration of existing generation

• Provides capability to isolate and self sustain loss of electric utility grid

• Maximizes use of existing generation – economic dispatch

• Leverages investment in Reliable and Resilient infrastructure
Renewables

Solar Proposals on Privatized Installations

Battery Storage

Integration of renewables into system to demonstrate how they can operate in coordination with normal utility supply and AICMGS

Integration of CVR to regulate voltage and compensate for output variability of renewable generation
Team Ft Hood
Team Ft Hood / ISDC Projects:
Team Ft Hood / Challenges:

• Communication Barriers
• Team Relocation
• Phantom Solar Project
Team Ft Hood / Successes:

- Safety Culture
- DPW Relationship
- System Inventory
Team Ft Hood / The Future:

- NG Regulator Stations
- Transmission Line
- NG Leak Repairs
- East Sub
Team Ft Hood / The Potential:

- Soldier Building
- Distribution Automation
- Energy Security