



Regional Infrastructure: 2014 COG Board Focus

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Briefing for
COG's Climate, Energy, and Environment
Policy Committee (CEEPC)
March 26, 2013



METROPOLITAN WASHINGTON
Council of Governments



Background

COG Board Initiative for 2014

Infrastructure Focus:

- Transportation
- Water
- Energy
- Public Safety

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Energy Infrastructure 101


Basic Energy Infrastructure Overview

- Sources
- Distribution
- Capital Investment
- Supply - Demand
- Rates
- Outlook

UOSA SUBSTATION
NOVEC
NORTHERN VIRGINIA ELECTRIC COOPERATIVE
MANASSAS, VIRGINIA PHONE 335-9000
"OWNED BY THOSE IT SERVES"

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Electric Resources

- PJM Grid
- Generation
- Transmission
- Local Distribution
- Distributed Generation
- Solar, Wind, Gas
- Energy Efficiency & Demand Response

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Natural Gas Resources

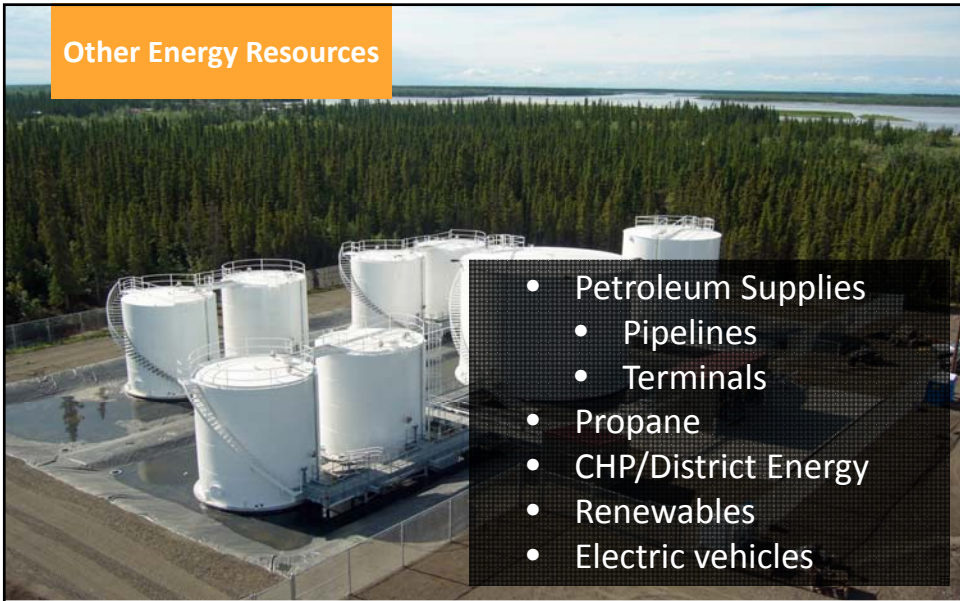


- Interstate Pipelines
- Local Distribution Companies
- Financing
- Rate Decoupling
- Expansion
- Maintenance
- Energy Efficiency

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Other Energy Resources



- Petroleum Supplies
 - Pipelines
 - Terminals
- Propane
- CHP/District Energy
- Renewables
- Electric vehicles

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Emergencies and Resiliency

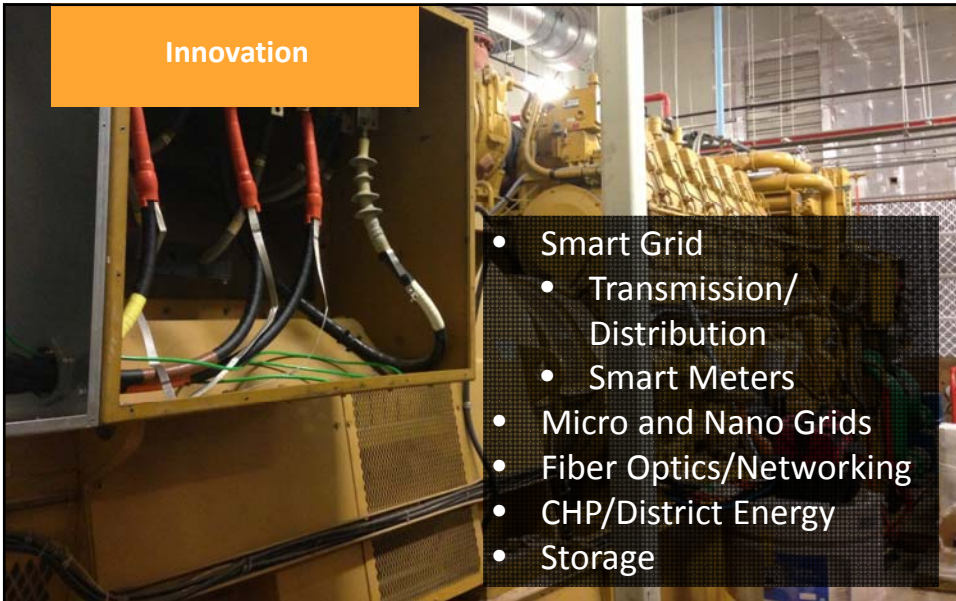
Energy Security (ESF-12)

- Infrastructure Upgrades
- Investments
- Supply Chain
- Cyber Security

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Innovation

- Smart Grid
 - Transmission/Distribution
 - Smart Meters
- Micro and Nano Grids
- Fiber Optics/Networking
- CHP/District Energy
- Storage

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Issues and Challenges

- Shortages/Curtailment
- Reliance on Imports
- Inter-Dependencies
- Workforce
- Changing Regulations
- Changing Business Paradigms

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Opportunities

- Resiliency
 - Planning
 - Training/Exercises
- Microgrids
- Financing
- Renewables

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