

A close-up photograph of a hand flipping a white light switch. The hand is on the left side of the frame, with the index finger touching the top of the switch. The switch is mounted on a white wall. The background of the entire slide is a solid blue color.

Fairfax County Energy Task Force

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Smart Metering

Advanced Metering Infrastructure

- Will enable energy saving and reliability improvements
- Future grid enhancements will deploy via AMI (voltage reduction, dynamic pricing, enhanced EV rates, etc.)
- Currently three pilots (expanding to six)
- Ensure developers use AMI design standard
 - Dominion Updating design standards for AMI



LED Lighting

- Dominion working with Fairfax DPW on street lights
- Technology evolving
- Capital cost high, Operating cost low
- Good opportunities for new and replacement lighting
- Additional opportunities in garages and interior lighting



Demand Side Management

- **Peak Load Reduction (DR)**
 - **Pilot for Distributed Generation**
Peak load shaving – additional means to provide local load from existing or new backup generation.
 - **Customer gets backup generation as a service**
- **Energy Savings**
 - **Incentives for Commercial Air Conditioning and Lighting**
 - **Programs for residential customers**



Electric Vehicle Charging

- Dominion prepared for additional load
- Dynamic rates to incentivize off-peak charging
- Third party charging enabled by legislation



Rooftop Solar

- **Potential for utility owned solar distributed generation (DG)**
- **Need significant rooftop space for scale**
- **Approximately 120K ft² for each 1000kw**
- **Need space available in areas that will work on existing distribution grid**



A/C & Water Heater Load Management

- **NOVEC implemented program in 1979**
- **Nearly 54,000 control points**
- **Voluntary program**
- **2011-12 savings of \$580K in power costs**
- **Contributes 14 MW of peak capacity into PJM**

Other Residential Energy Saving Programs

- **Energy Efficiency**

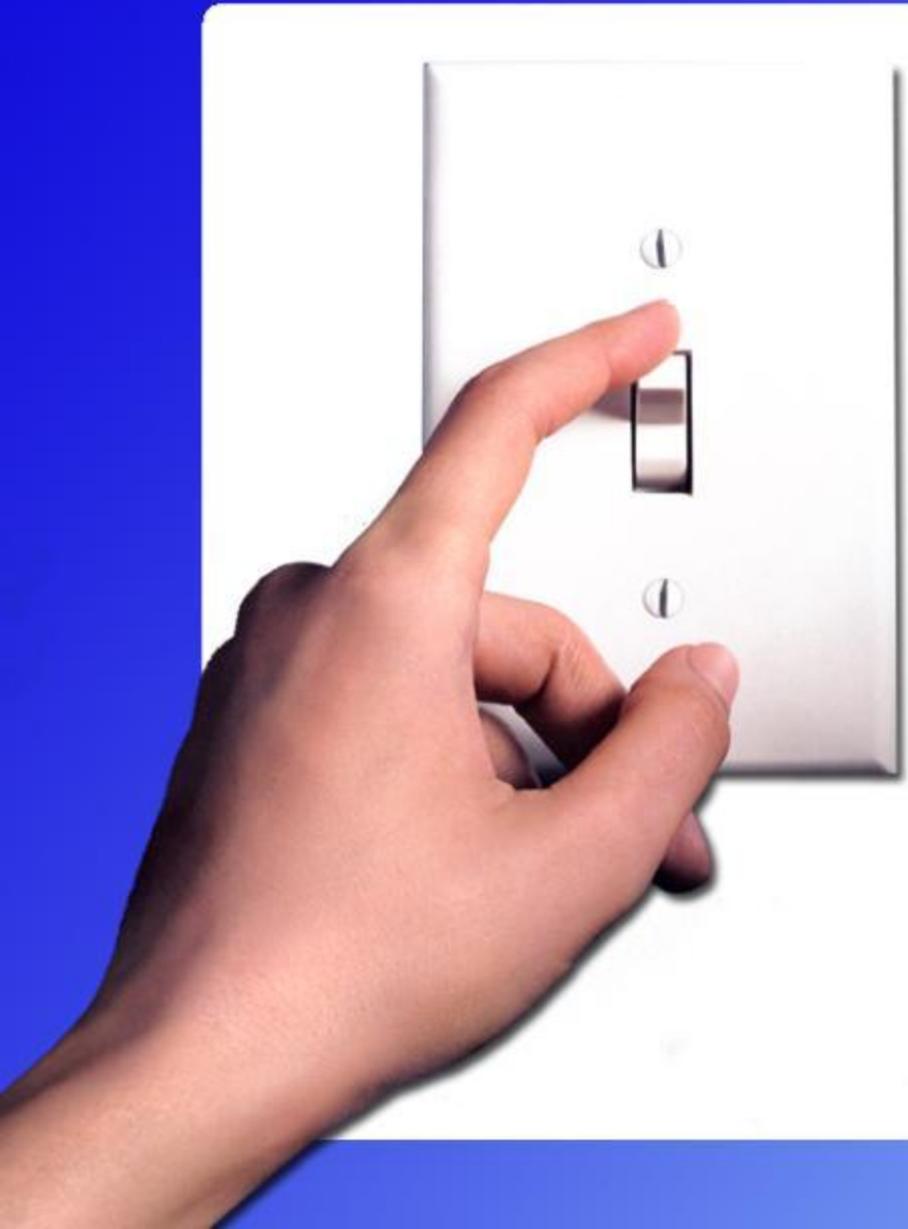
- Geothermal Heating/Cooling Systems
- Heat Pump Water Heaters

- **Energy Education/Conservation**

- CFL Promotion/Coupons
- Home Energy Audits
- Energy Safety & Conservation Demonstrations
- Online Residential Energy Calculator

- **Rates**

- Net Metering
- Green Energy tariff



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Investing in Our Communities

