



Maryland - Taking Control Of Its Energy Future

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Maryland's Energy Goals

- Affordable
- Reliable
- Clean Energy

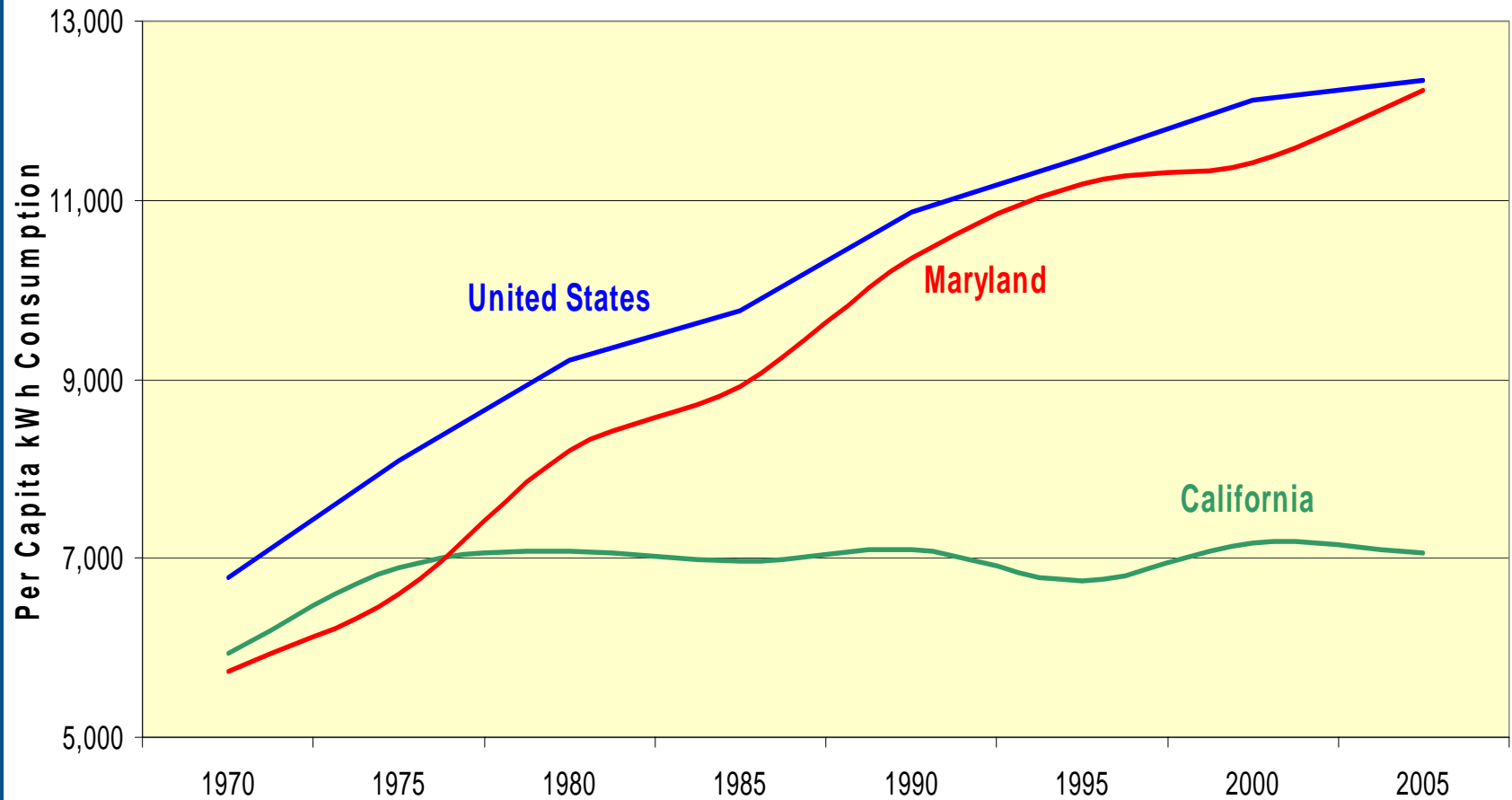
Electricity – Simply Too Expensive

Residential Electricity Prices – Cents per kilowatt-hour

State	Nov '06	Nov '07
Delaware	13.4	13.68
New Jersey	12.17	13.79
Maryland	9.91	12.55
Pennsylvania	10.1	11.1
D.C.	8.99	10.58
Nat'l Average	10.18	10.69
So. Atl. Region	9.75	10.1
Virginia	8.47	8.62
West Virginia	6.43	6.69

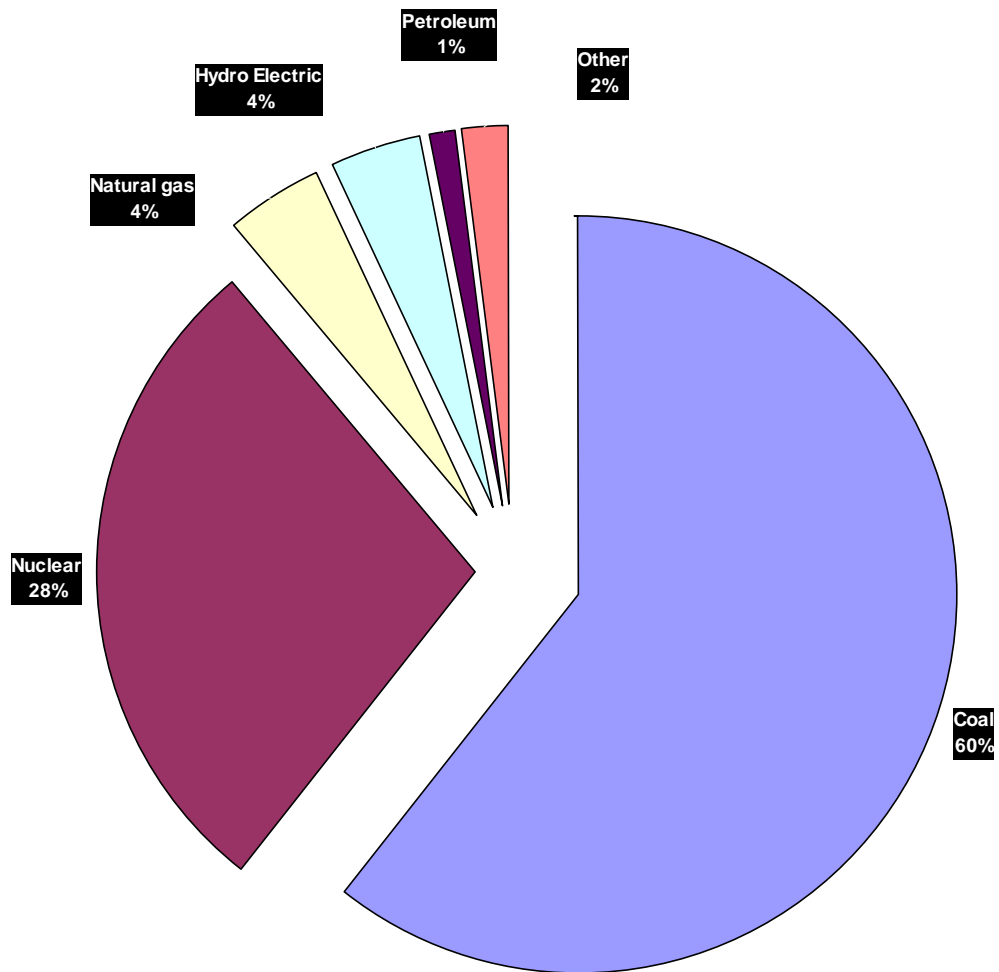
Source: U.S. Energy Information Agency, 2007

Electricity Demand Continues to Soar



Source: EIA and US Census

Limited Fuel Diversity – 90% from Coal and Nuclear

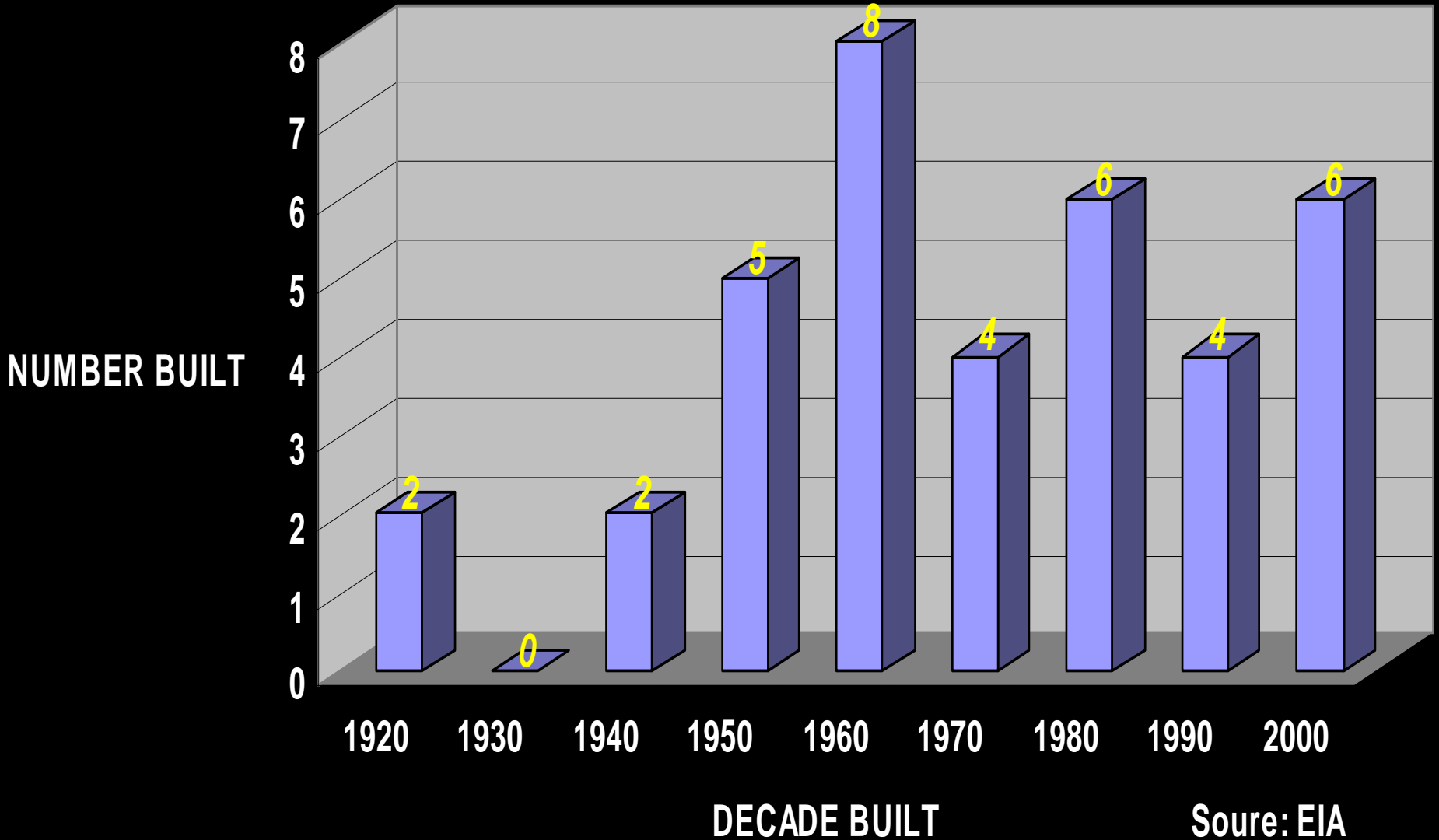


*Other capacity includes renewable generators, as well as waste, chemical and other miscellaneous generation sources.

Sources: Energy Information Administration and PJM, 2006 State of the Market Report, Volume II

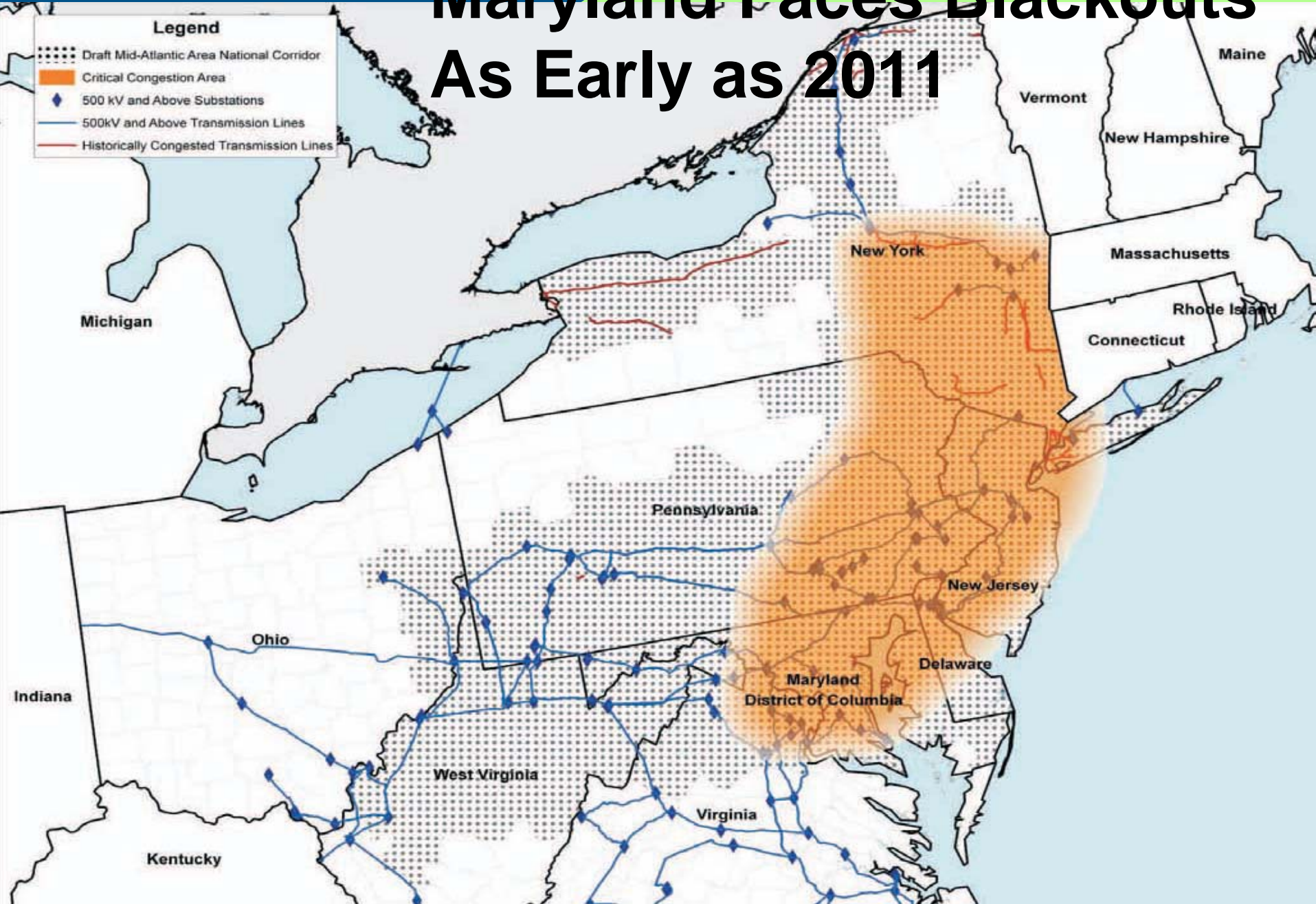
46% of Maryland's Power Plants are 37 years or older

Number of Maryland Power Plants Built Each Decade



Source: EIA

Maryland Faces Blackouts As Early as 2011



Climate and Environmental Challenges

- **Climate** – Maryland is particularly vulnerable, 3rd most exposed to sea level rise (behind FL and LA),
- **Environmental** – Most of Maryland's population lives in areas that fail to meet EPA's health based air quality standards.

Solutions - Taking Control of Our Energy Future

To lower our electricity bills and keep our lights on, Maryland needs to decrease demand and increase supply.

EmPOWER Maryland Energy Efficiency Act

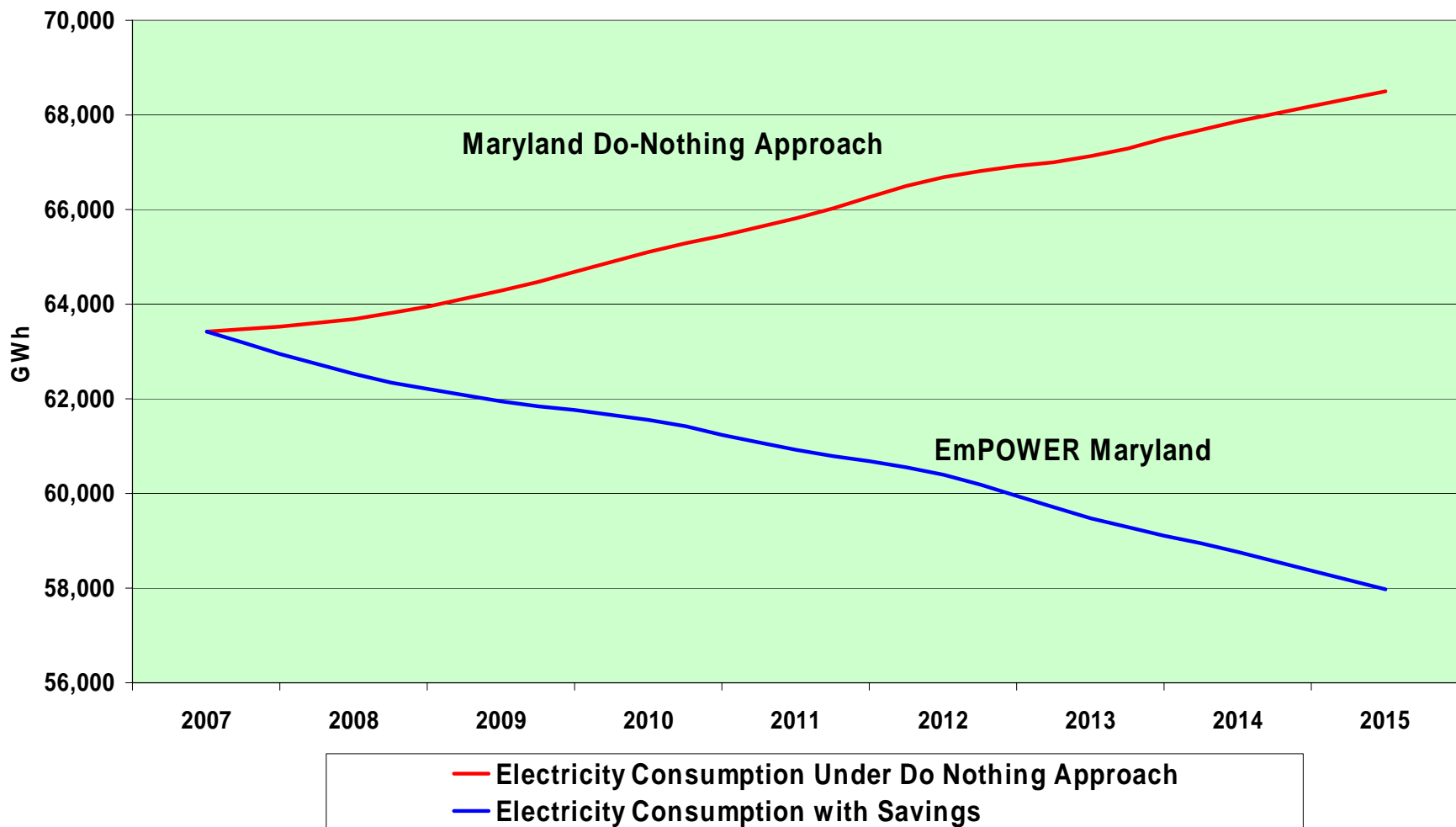
- Codified bold but achievable energy efficiency goal to reduce state-wide consumption and peak demand 15% per capita by 2015.
- When implemented, EmPOWER Maryland will
 - Keep the lights on, while avoiding the need to build at least 3 large fossil fuel power plants;
 - Saves households roughly \$16/month or \$190/year by reducing electricity consumption; and
 - Add 8,000 new “green collar” jobs to the Maryland economy by 2015 (ACEEE '08)

2004 Per Capita Utility Spending on Energy Efficiency

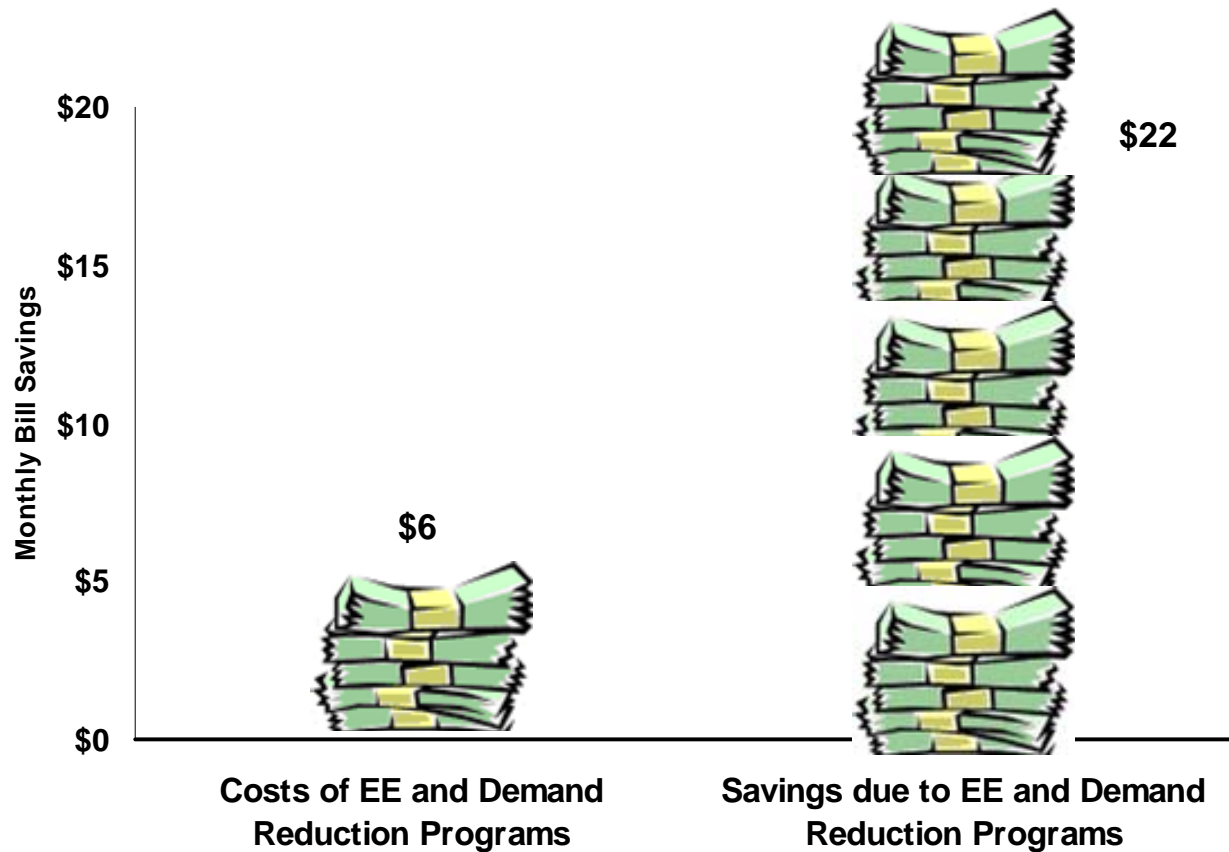
Vermont	\$ 22.54
Connecticut	\$ 16.60
New Jersey	\$ 10.68
California	\$ 10.60
New York	\$ 7.63
U.S. Average	\$ 4.93
West Virginia	\$ 0.55
Pennsylvania	\$ 0.28
Maryland	\$ 0.01
Virginia	\$ 0.00

Source: State Energy Efficiency Scorecard for 2006, ACEEE

Electricity Savings or Shortfall?



Energy Efficiency Saves Money



RGGI – Maryland Strategic Energy Investment Fund

- Energy Fund will allow Maryland to invest in:
 - Residential energy efficiency programs
 - Renewable energy
 - Targeted programs for low-income residents with no cost for participation
 - Climate change programs
- Would NOT rely on general funds or ratepayer surcharge; rather, financed through upcoming sale of carbon allowances under RGGI
- Energy efficiency plus rate relief will save Marylanders an average of \$8.74 a month

Accelerate the Renewable Portfolio Standard

- Doubles the RPS requirement to 20% by 2022.
- Benefits include
 - increasing Maryland's supply of clean electricity;
 - accelerating transition to a more sustainable, secure economy;
 - diversifies electricity sources, mitigating price spikes affecting any one fuel source; and
 - reduces regional carbon footprint.

Enhancing Current Solar and Geothermal Grant Program

- Increasing grant awards for solar & geothermal – and exempting them from taxation - will increase affordability of residential systems
- Homeowners investing in these systems will offset their monthly electric bills and enhance reliability for the entire grid

High Performance Buildings Act

- Green Buildings have many benefits:
 - More energy efficient
 - Better air quality
 - Improved health, comfort and productivity
- Maryland will lead by example, by
 - Mandating new State buildings over 7,500 sq. ft. meet LEED Silver rating in 2009 and
 - Requiring new schools meet LEED Silver rating in 2010 to promote more productive students and higher test scores

Taking Control of our Energy Future

- There is no “silver bullet”, but these measures work together as a “silver buckshot” to lower our bills, keep the lights on and empower us to take control of our energy future



For more information, please
contact the
Maryland Energy Administration:

- 410-260-7655 or 800-72-ENERGY
- www.energy.state.md.us

