

Maryland Energy

ADMINISTRATION

Powering Maryland's Future

Green Alphabet Soup: *MEA*

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Maryland's Energy Goals

- *Affordable*
- *Reliable*
- *Clean Energy*



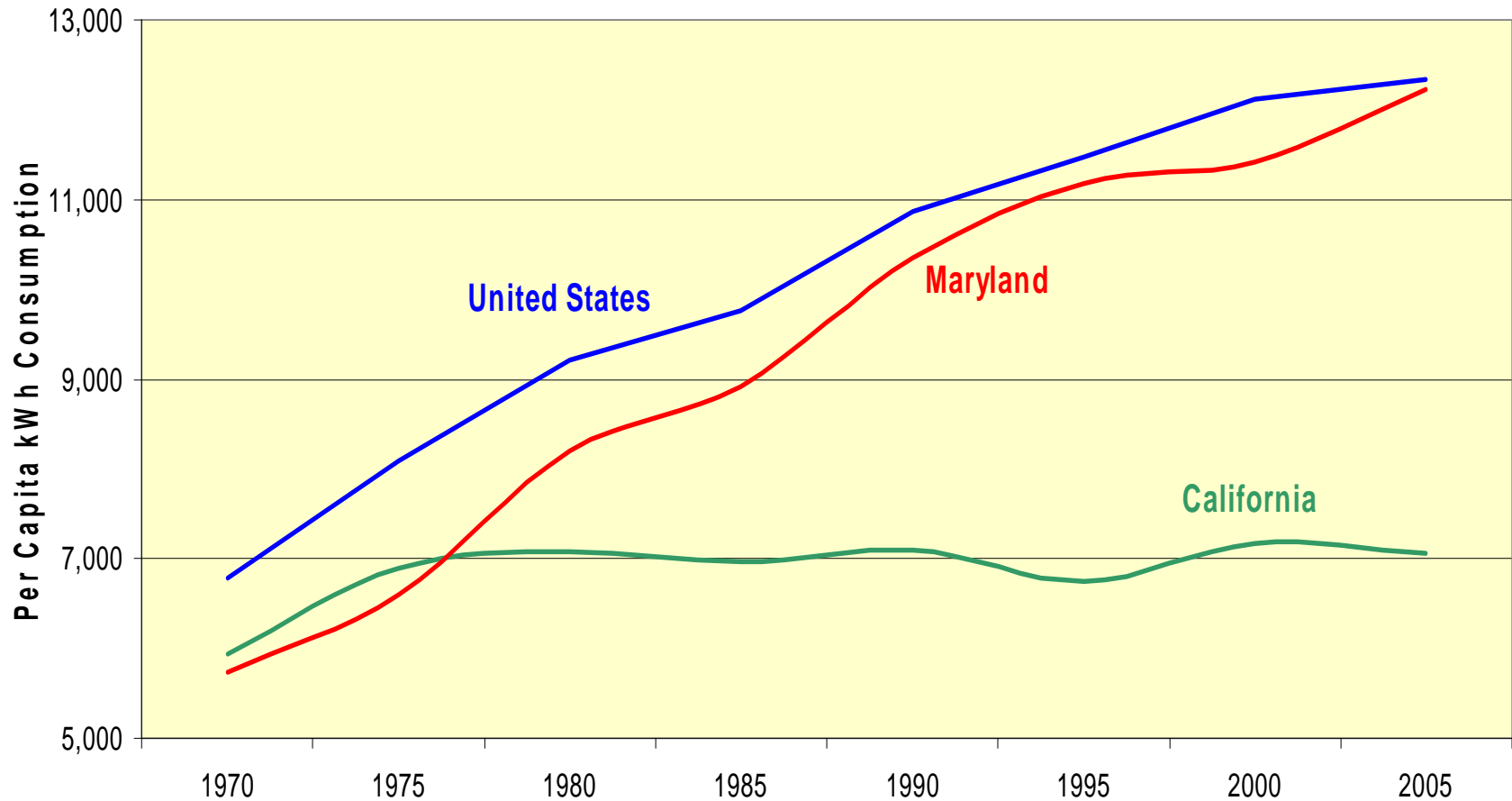
Electricity – Simply Too Expensive

Residential Electricity Prices – Cents per kilowatt-hour

State	Mar '07	Mar '08
Delaware	12.22	12.68
New Jersey	12.78	14.19
Maryland	9.41	12.76
Pennsylvania	10.25	10.78
D.C.	9.51	11.04
Nat'l Average	10.04	10.31
So. Atl. Region	9.35	9.85
Virginia	8.12	8.38
West Virginia	6.19	6.62

Source: U.S. Energy Information Agency, 2008

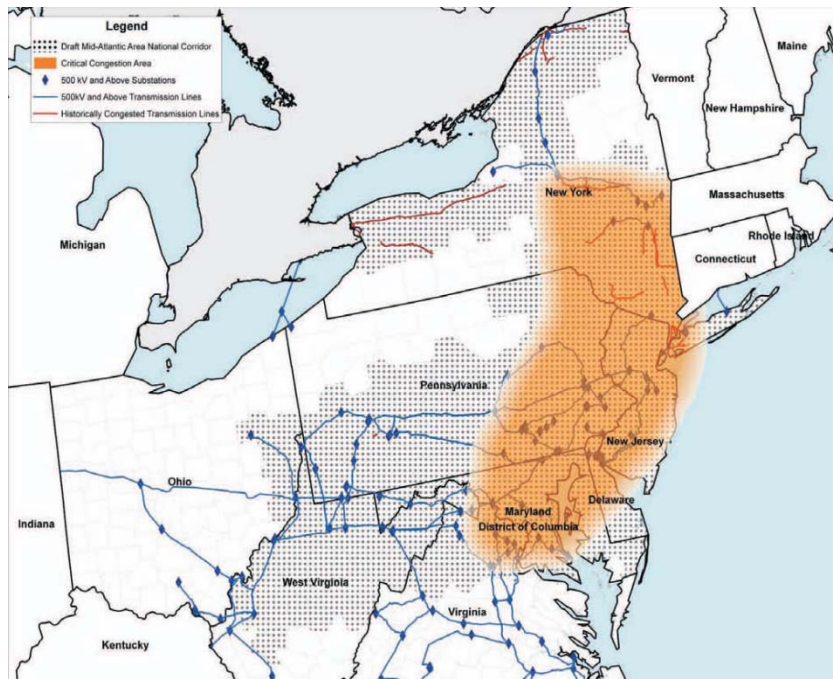
Electricity Demand: Continues to Soar



Source: EIA and US Census

Maryland Faces Blackouts

As Early as 2011



Climate and Environmental Challenges

- **Climate:**

- Maryland is 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.





Taking Control of Our Energy Future

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

To address this challenge , MEA has designed programs and grants to promote renewable and energy efficiency projects

Energy Efficiency Loans/Grants

- State Agency Loan Program (SALP) provides zero-interest funding for state energy efficiency projects
 - SALP has made 61 loans and saved more than \$20 million in energy costs
- Jane E. Lawton Loan Program (JELLP) provides low interest funding for energy efficiency projects:
 - Formerly CELP has made 56 loans, which have resulted in more than \$20 million in energy savings

Green Building Tax Credit

- Credit against either personal or corporate income tax
 - Varies from 6-8 percent of construction costs
- Based on LEED standards

Energy Efficiency Programs

- **Lightening Low-Income Electricity Bills**
 - MEA has given DHR over 80,000 light bulbs for free to low-income families
- **Energy Performance Contracts (EPC)**
 - The State has saved over \$130 million dollars by completing EPC projects on 400 buildings
- **Change a Light, Change the World**
 - MEA's campaign to encourage each citizen to change at least 4 light bulbs in their house
- **Home Performance with Energy STAR**
 - Program to train contractors to perform whole house audits and retrofits to reduce energy consumption

Renewable Energy Programs

- **Clean Energy Schools:**
 - MEA is partnering with Maryland business to install a clean energy demonstration project in a school in every county within the year
- **Promoting E85 and Biodiesel**
 - MEA assisted in opening 3 biodiesel facilities which produce over 5 million gallons a year
 - Eight grants have been awarded to increase Maryland's biofuels infrastructure

Enhanced Solar and Geothermal Grant Program

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





Renewable Energy Loans/Grants

- **Solar Grant Program:**
 - \$2,500 per kilowatt with a \$10,000 cap
 - \$3,000 for Solar Water Heating
- **Geothermal Grant Program:**
 - \$1000 per ton, up to \$3000 per system
- **Windswept Grant Program:**
 - New grant program that offers \$2,500 per kilowatt with a cap of \$10,000



EmPOWER Maryland

Energy Efficiency Act

- Bold but achievable goal:
 - Reduce state-wide per capita electricity consumption and peak demand **15% 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;
 - Save households roughly \$16/month or \$190/year by reducing electricity consumption
 - Provides programs for all Marylanders to help them cut energy consumption
 - Add 8,000 new “green collar” jobs to the Maryland economy by 2015
(ACEEE '08)

What Can I Do at Home to Reduce My Bill?

- There are many low to no cost ways to reduce your electricity bill such as:
- Replacing all lights with CFL's:
 - This could save you up to \$130 a year in electricity costs
- Repair Ceiling Leaks:
 - Reduce your electricity usage by up to 3%

Maryland RGGI Strategic Energy Investment Fund

- **Successful First Auction of Greenhouse Gases in the U.S.**
- **Energy Fund will allow Maryland to invest in :**
 - Low income bill payment
 - Direct consumer refunds to offset energy efficiency programs
 - Residential energy efficiency programs, including targeted programs for low-income residents with no cost for participation
 - Renewable energy
 - Energy Education Programs to teach more no-cost energy savings tips
- **Would NOT rely on general funds or ratepayer surcharge**
 - Financed through upcoming sale of RGGI carbon allowances
- **Energy efficiency plus rate relief will lower Marylanders' bills**

RGGI Energy Investment Fund

46%

- Energy Efficiency, Conservation & Demand Response Programs

23%

- Residential Rate Relief

17%

- Low Income Energy Assistance

10.5%

- Clean Energy & Climate Change Programs, Outreach & Education

3.5%

- Administration of Fund

Taking Control of our Energy Future

- Our energy issues have been ignored for too long, our bills are too high and we are extremely vulnerable to climate change.
- The Strategic Energy Investment Fund and EmPOWER Maryland along with our renewable energy programs will allow Marylanders to:
 - Take control of our energy future
 - Lower monthly bills
 - Renew our commitment to the environment



For more information, please contact:

Maryland Energy Administration

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www.energy.md.gov

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