



INVESTING IN GEORGIA'S
ENERGY, LAND & WATER RESOURCES



GA EPD Stakeholder Meeting US EPA Clean Power Plan

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GEFA

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ENERGY

Energy Resources

- Georgia Energy Challenge
- Weatherization
- State Energy Program
- State Utilities Program
- Energy Assurance
- Performance Contracting
- State Energy Strategy



LAND

Land Conservation Program

- Land purchase financing
- Conservation easements
- Tax credits

Fuel Tank Program

- Remediation
- Monitoring
- Training

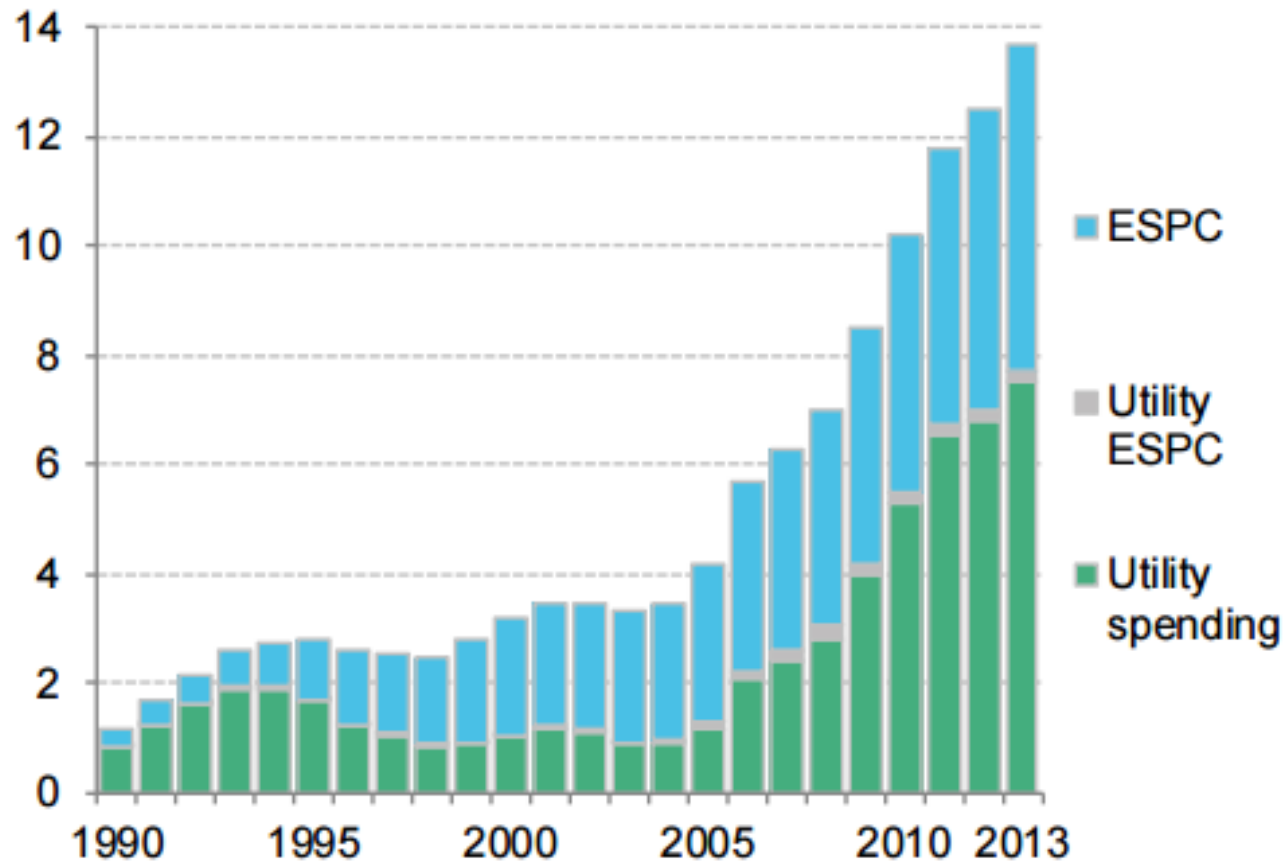


WATER

Water Resources

- Water and sewer financing
- Solid waste financing
- Water conservation
- Water supply financing

US Investment in Energy Efficiency



Source: Bloomberg New Energy Finance, Sustainable Energy in America, 2015 Factbook



Georgia ESPC Projects

Total FY 2015 - 2016: \$93,178,000

~53,616 MWh annual energy savings

State Agency/Governmental Unit	Contracting Date	Contract Value
Department of Natural Resources / North Georgia Mountains Authority	TBD	\$5,068,482
Georgia World Congress Center Authority / Department of Economic Development	September 2015	\$28,131,104
Department of Corrections	September 2015	\$28,597,357
Board of Regents (GT and UGA Athens)	September 2015	\$10,192,000
Department of Transportation	December 2015 (est.)	\$12,317,444
Department of Juvenile Justice	TBD	\$3,088,613
Department of Behavioral Health and Developmental Disabilities	TBD	\$5,783,000



Program Delivery History

- Performance Contracting
- EE / RE Competitive Grants
Residential, Commercial, Industrial
- Energy Codes / Standards
- Training / Workforce
Development
- Georgia Energy Challenge
- Low Income Weatherization
Assistance Program
- Appliance Rebates
- Water / Solid Waste Loans
- Clean Energy Tax Credits

~249,411 MWh annual savings

Multi-State Research Projects

- Virginia, Georgia and Kentucky
 - *Development of a Consensus Approach for Energy Measurement and Evaluation of Energy-Saving Performance Contracts*
- Tennessee, Georgia, Michigan, Minnesota, Oregon and Pennsylvania
 - *Structural Considerations of an Energy Efficiency Registry*

EPA removed building block 4 from the final rule

- EE won't happen automatically under final rule
- EE remains low cost, but how best to incorporate?

EE can be used as a method of compliance in state plans

- Mass – based plans can incorporate EE in any number of ways
- For rate – based plans the EE must meet certain standards, including EM&V



Clean Energy Incentive Program

Clean Energy Incentive Program

- Provides matching allowances or emission rate credits (ERCs) for wind, solar, and low income energy efficiency projects that are implemented after submitting the rule and generate power or savings during 2020 and 2021.
- Designed to incentivize early investments in renewable energy and energy efficiency in low-income communities.

CEIP Key Facts

- New to the final rule; no significant details yet
- EPA is taking comment on the CEIP for 90 days after the rule is published to the register.
- Optional for states
- May be included in the standard federal plan for states that don't submit plans.



Clean Energy Incentive Program

Clean Energy Incentive Program Details

- Matching awards will be made by EPA up until 300 million short tons of CO₂ emissions
- Non-participating states receive no federal allowances, thus GA will have to make an early decision on participation
- Federal pool is limited and will be distributed to states pro-rated to level of reduction obligation
- For every 2 MWh generated or avoided the following will be awarded:

Eligible Resource	EPA Awards	State Awards
RE	1 ERC	1 ERC
Low Income Demand-Side EE	2 ERCs	2 ERCs

Energy Efficiency Possibilities

- Demand side EE programs
- Project – based EE
- Building energy codes
- Incremental product energy standards

Evaluation, Measurement, and Verification:

- *Evaluation, Measurement and Verification (EM&V) is the collection of methods and processes used to assess the performance of energy efficiency activities so that planned results can be achieved with greater certainty and future activities can be more effective. – U.S. Department of Energy*

EM&V in the Clean Power Plan

- All state plans that include EE must include a detailed EM&V plan
- After implementation, EM&V reports must be submitted on a regular basis
- Plans must follow best industry practices, including IPMVP, ASHRAE, FEMP, etc.
- Rate vs Mass
 - EM&V will be required for rate based plans
 - EM&V is not necessarily needed for EE in mass based plans

EM&V in the Clean Power Plan

- Draft guidance document from EPA: “Evaluation Measurement and Verification (EM&V) Guidance for Demand-Side Energy Efficiency (EE)”
- EPA is seeking feedback
- Potential Issues:
 - How costly will EM&V be?
 - Will the extra EM&V steps be too burdensome for ESCO projects?
 - Third party verification
 - How to encourage participation among non-state entities?

Next Steps

- GEFA will continue to review the rule and draft EM&V guidance with EPD and other partners
- Future discussions with stakeholders on how best to include EE, if at all.
- Submit comments to EPA on the CEIP and EM&V guidance.



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