

**IMPACTS OF EPA’S CARBON PROPOSAL ON GEORGIA**

**BACKGROUND**

* In 2013, coal provided 33% of Georgia’s electricity, with natural gas providing 34%, nuclear 27%, and renewables and other sources providing the remaining 6%.[[1]](#endnote-1) Georgia’s average electricity price of 9.53 cents/kWh last year was slightly below the national average.[[2]](#endnote-2)
* Currently, coal is responsible for over 8,000 direct and indirect jobs in Georgia.[[3]](#endnote-3)
* Despite below-average electricity prices, many Georgia families are struggling with high energy costs. The 1.8 million low-income and middle-income families in Georgia -- 52% of the state’s households -- spend 24% of their after-tax income on energy.[[4]](#endnote-4) In addition, 27% of Georgia households receive Social Security.[[5]](#endnote-5) Lower income families and Social Security recipients are especially vulnerable to further increases in energy prices.[[6]](#endnote-6)
* Georgia utilities have announced the retirement or conversion of 15 coal units (totaling 3,249 MW) due to EPA policies. Nationwide, utilities have announced the retirement or conversion of 381 coal units (totaling 60,104 MW) in 36 states due to EPA policies.[[7]](#endnote-7)

**EPA’S CARBON PROPOSAL**

* In June, EPA proposed its “Clean Power Plan” (CPP) to reduce carbon dioxide (CO2) emissions from existing coal-fired and natural gas-fired power plants in 49 states, including Georgia. EPA plans to finalize the proposal in June of next year.
* Under the EPA proposal, Georgia will be required to reduce the CO2 emissions rate of its electric generating fleet by 44%, the *sixth largest reduction* of any state.[[8]](#endnote-8) EPA’s proposal will force Georgia to change the way the state produces electricity, reduce the amount of electricity used by Georgia consumers, and significantly increase the price of electricity.

* EPA *assumed* the following in setting Georgia’s emissions rate:
* The efficiency of existing coal-fired units can be improved by 6%;[[9]](#endnote-9)
* Electricity generation from natural gas can be increased by 37%;[[10]](#endnote-10)
* Electricity from coal can be reduced by 34%;[[11]](#endnote-11)
* Electricity from non-hydro renewable energy sources can be increased by more than 270%;[[12]](#endnote-12)
* None of the state’s nuclear generation will retire and the nuclear units under construction in the state will be completed;[[13]](#endnote-13) and
* Georgia consumers can reduce electricity use by more than 10%.[[14]](#endnote-14)
* This year, the Georgia legislature passed H.R. 1158, which calls for CO2 standards based on cost-effective measures at affected facilities (“inside the fence” measures). Georgia’s Attorney General signed a “white paper” last year opposing the approach that EPA proposed.[[15]](#endnote-15) In total, officials from over 30 states, including Georgia, have expressed opposition to the approach EPA included in its proposal. Further, 13 states have joined in litigation challenging EPA’s proposal.[[16]](#endnote-16)

**SERIOUS ECONOMIC AND RELIABILITY IMPACTS**

* Modeling by NERA Economic Consulting projects that the CPP will cause a 15% increase in retail electricity prices for Georgia consumers, with a peak year increase of 20%. Under another scenario (what will happen if Georgia consumers do not significantly reduce their electricity use), electricity prices in Georgia could increase by 16% during the next decade, with a peak year increase of 18%.[[17]](#endnote-17)
* Another independent study conducted for the National Mining Association estimates similar impacts, including a peak year wholesale electricity price increase of 15.5% for Georgia consumers.[[18]](#endnote-18)
* NERA also projects double digit electricity price increases in 42 other states, as well as nationwide costs averaging $41 billion to $73 billion per year. NERA’s projections include $560 billion that consumers nationwide will have to spend to reduce their electricity use. [[19]](#endnote-19)
* Grid operators and electric utilities in many regions of the country are expressing serious concerns about the projected impacts of EPA’s proposal on electric reliability.[[20]](#endnote-20)

**NO BENEFITS**

* In 2013 the U.S. electric sector emitted 2.05 billion metric tons of CO2, representing approximately 4% of global anthropogenic greenhouse gas emissions.[[21]](#endnote-21)
* Analysis based on another EPA rulemaking shows the climate effects of the EPA proposal are meaningless. For example, the atmospheric CO2 concentration would be reduced by less than 0.5%; global average temperature increase would be reduced by less than 2/100ths of a degree Fahrenheit; and sea level rise would be reduced by 1/100th of an inch (the thickness of three sheets of paper).[[22]](#endnote-22)
* To justify the EPA proposal, its supporters argue the U.S. must show global leadership in reducing CO2 emissions. However, other countries are abandoning pledges to reduce emissions or increasing emissions regardless of their pledges. According to the *Washington Post*, many industrialized countries are not expected to meet their commitments to reduce CO2 emissions.[[23]](#endnote-23)

November 3, 2014

1. U.S. Energy Information Administration, *Electric Power Monthly*, February 2014. [↑](#endnote-ref-1)
2. *Ibid*. [↑](#endnote-ref-2)
3. National Mining Association, <http://www.countoncoal.org/states/>. [↑](#endnote-ref-3)
4. Eugene M. Trisko, *Energy Cost Impacts on Georgia Families*, December 2013. [↑](#endnote-ref-4)
5. *Ibid*. [↑](#endnote-ref-5)
6. *Ibid* and The 60 Plus Association, *Energy Bills Challenge America’s Fixed-Income Seniors*, 2014. [↑](#endnote-ref-6)
7. ACCCE, *Coal Unit Shutdowns as of October 23, 2014*. Retirements and conversions are based on public announcements by the coal unit owners. [↑](#endnote-ref-7)
8. The percentage reduction is relative to emission rates in 2012. The Georgia emissions rate goal is from Table 8, pages 346 – 348, of EPA’s proposal, and 2012 emission rates are found in EPA’s *Goal Computation Technical Support Document*, June 2014. http://www2.epa.gov/sites/production/files/2014-05/documents/20140602tsd-goal-computation.pdf. [↑](#endnote-ref-8)
9. EPA, *GHG Abatement Measures* technical support document, June 2014. EPA assumes the heat rate of every coal-fired electric generating unit can be improved by 6%. [↑](#endnote-ref-9)
10. EPA, *Technical Support Document (TSD) for the CAA Section 111(d) Emission Guidelines for Existing Power Plants: Goal Computation Technical Support Document*, June 2014, Appendix 1. [↑](#endnote-ref-10)
11. *Ibid*. [↑](#endnote-ref-11)
12. EPA, *Technical Support Document (TSD) for the CAA Section 111(d) Emission Guidelines for Existing Power Plants*: *GHG Abatement Measures*, June 2014, Table 4.9. [↑](#endnote-ref-12)
13. EPA, *Technical Support Document (TSD) for the CAA Section 111(d) Emission Guidelines for Existing Power Plants: Goal Computation Technical Support Document*, June 2014, page 14. [↑](#endnote-ref-13)
14. EPA, *Regulatory Impact Analysis for the Proposed Carbon Pollution Guidelines for Existing Power Plants and Emission Standards for Modified and Reconstructed Power Plants*, June 2014, Table 3.3. [↑](#endnote-ref-14)
15. *Perspective of 18 States on Greenhouse Gas Emission Performance Standards for Existing Sources under § 111(d) of the Clean Air Act*, signed by 17 Attorneys General and the Commissioner of the Indiana Department of Environmental Management, September 11, 2013. [↑](#endnote-ref-15)
16. Petition for Review, *West Virginia v. EPA*, Case No 14-1146 (D.C. Cir. filed Aug. 1, 2014); Brief of the States of West Virginia, Alabama, Alaska, Kentucky, Nebraska, Ohio, Oklahoma, South Carolina, and Wyoming as *Amici Curiae* in Support of the Petitioner, *In Re: Murray Energy Corporation v. EPA*, Case No. 14-1112, (D.C. Cir. filed June 25, 2014) [↑](#endnote-ref-16)
17. NERA Economic Consulting, *Potential Impacts of the EPA Clean Power Plan*, October 2014. An annual average increase of 15% means that electricity prices are projected to be 15% higher each year, on average, under EPA’s proposal than electricity prices would be in the absence of the proposal. [↑](#endnote-ref-17)
18. *EPA Clean Power Plan: Costs and Impacts on U.S. Energy Markets*, Energy Ventures Analysis, August 2014 <http://www.countoncoal.org/states/> [↑](#endnote-ref-18)
19. NERA Economic Consulting, *Potential Impacts of the EPA Clean Power Plan*, October 2014. [↑](#endnote-ref-19)
20. Southwest Power Pool, *Grid Reliability and Transmission Buildout Issues*, presentation to Arkansas DEQ Stakeholder Meeting, October 1, 2014; Midwest Independent System Operator, *Clean Power Plan: MISO Analysis Update for ADEQ/APSC Stakeholder Meeting*, October 1, 2014; and American Electric Power, *Transmission Challenges with the Clean Power Plan*, September 2014. [↑](#endnote-ref-20)
21. IPCC, *Climate Change 2014: Mitigation of Climate Change: Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*; EIA, *Monthly Energy Review*, February 2014. [↑](#endnote-ref-21)
22. ACCCE, *Climate Effects of EPA’s Proposed Carbon Regulations*, June 2014. [↑](#endnote-ref-22)
23. Steven Mufson, All over the planet, countries are completely missing their emissions targets, (September 23, 2014) http://www.washingtonpost.com/blogs/wonkblog/wp/2014/09/23/all-over-the-planet-countries-are-completely-missing-their-emissions-targets/ [↑](#endnote-ref-23)