

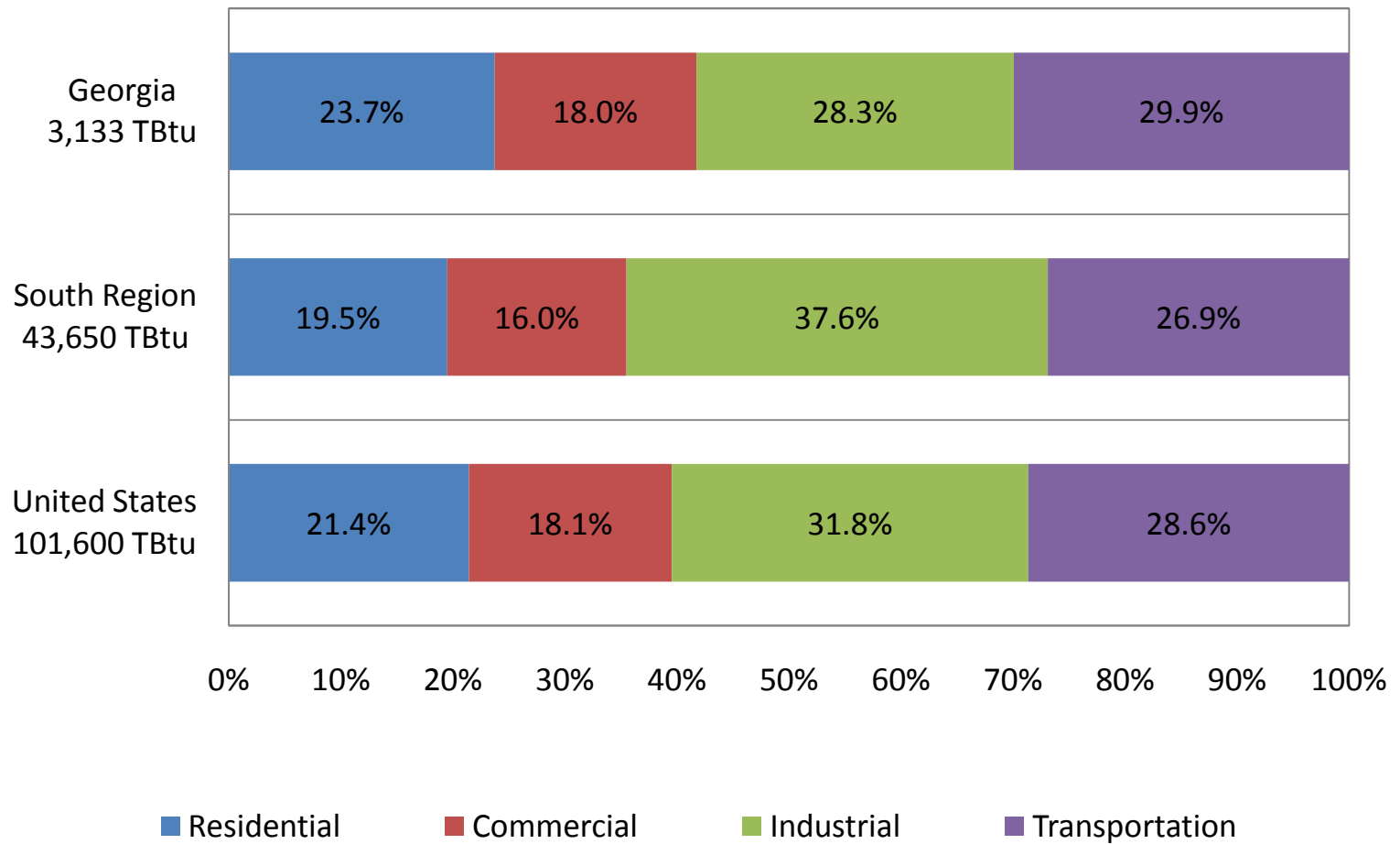
**ENERGY EFFICIENCY IN THE SOUTH**  
**APPENDIX G**  
**STATE PROFILES OF ENERGY**  
**EFFICIENCY OPPORTUNITIES IN THE**  
**SOUTH:GEORGIA**

Marilyn A. Brown,<sup>1</sup> Joy Wang,<sup>1</sup> Matt Cox,<sup>1</sup> Youngsun Baek,<sup>1</sup> Rodrigo Cortes,<sup>1</sup> Benjamin Deitchman,<sup>1</sup> Elizabeth Noll,<sup>1</sup> Yu Wang,<sup>1</sup> Etan Gumerman,<sup>2</sup> Xiaojing Sun<sup>2</sup>

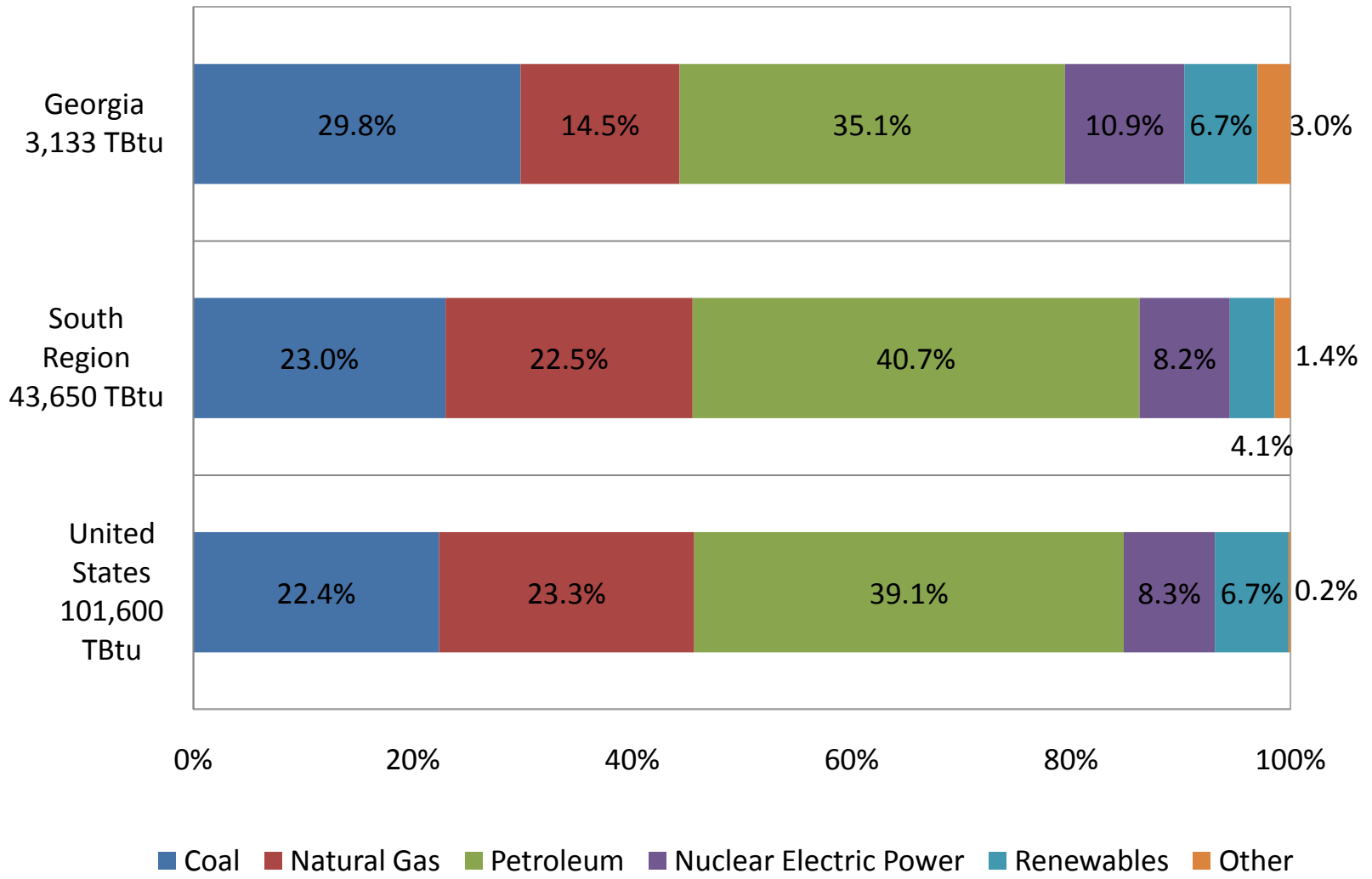
<sup>1</sup>Georgia Institute of Technology

<sup>2</sup>Duke University

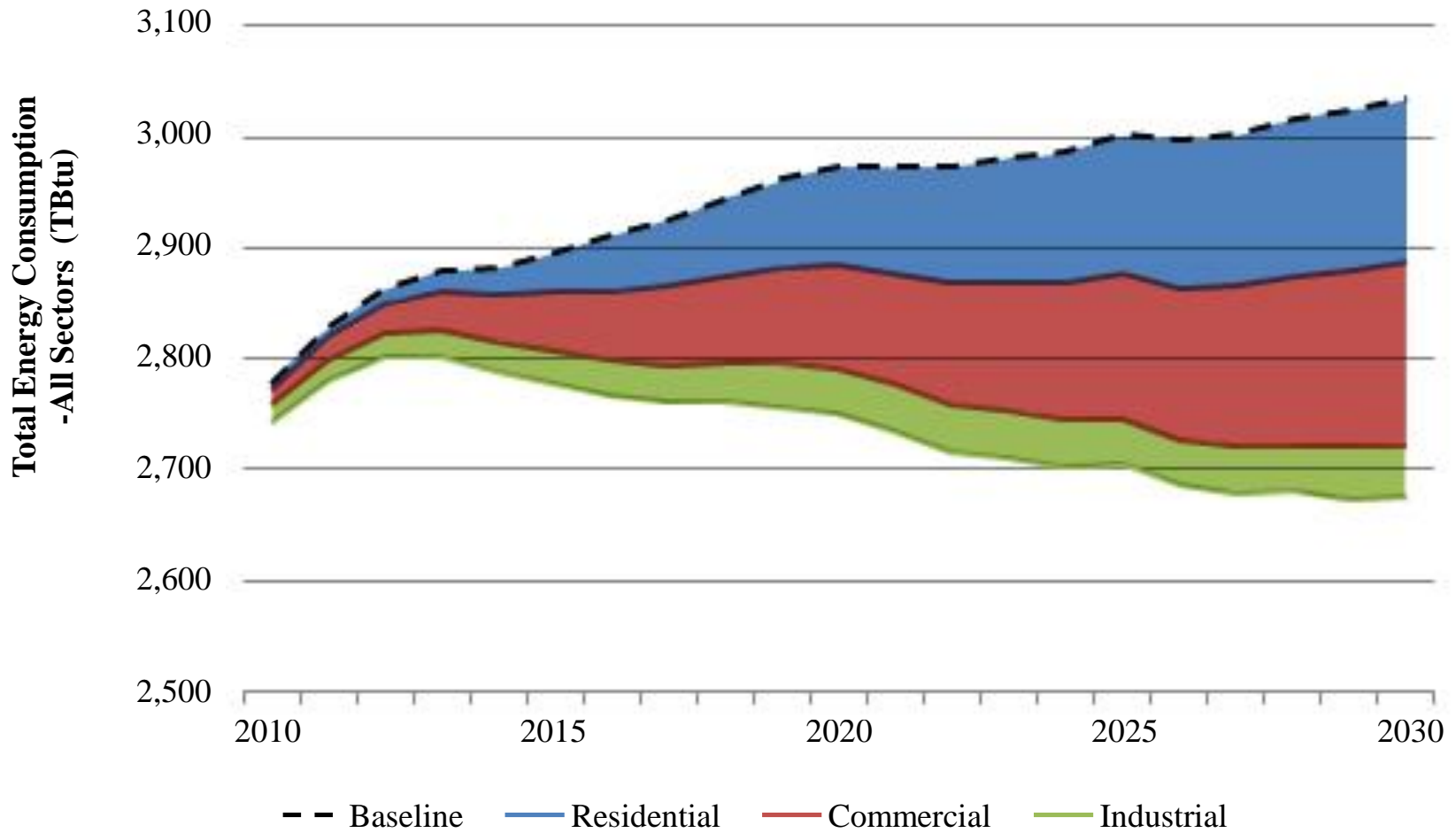
April 13, 2010



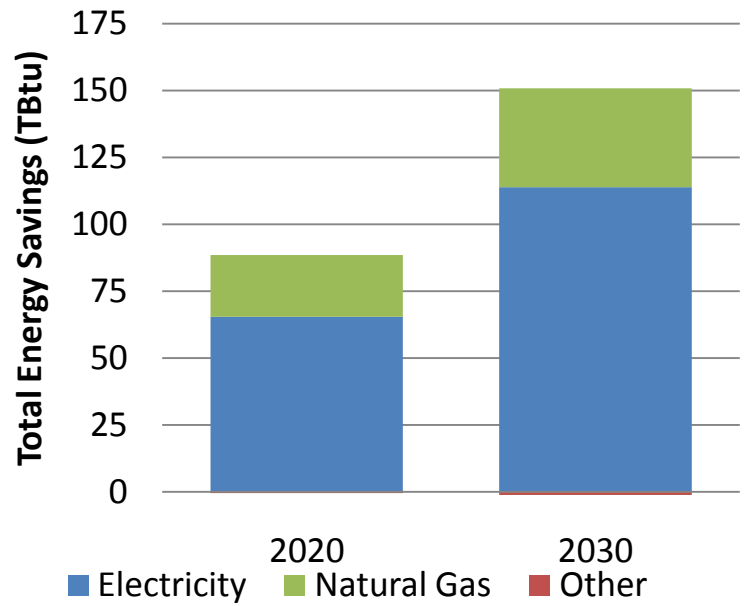
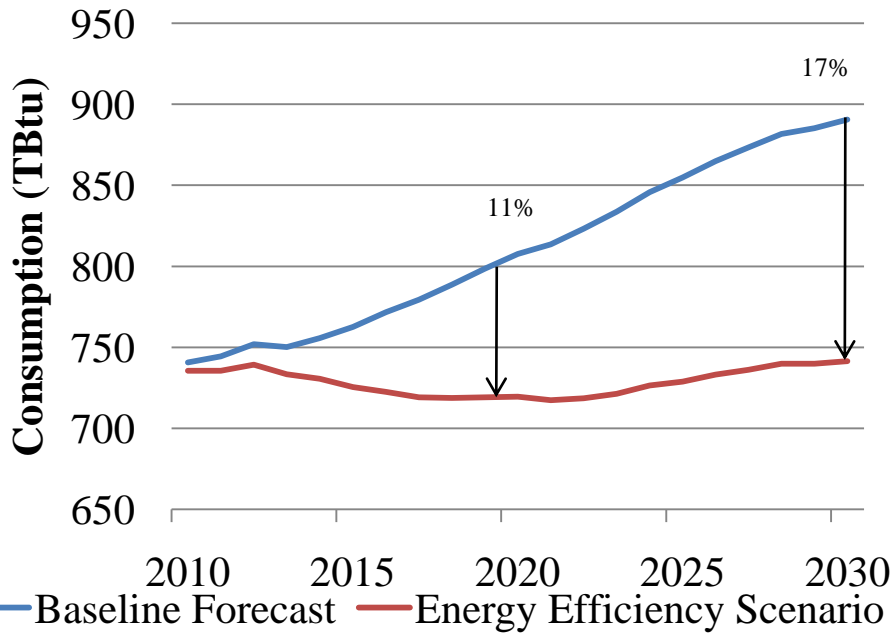
**Figure 1: Energy Consumption in Georgia, the South, and the U.S. by Sector, 2007<sup>3</sup>**



**Figure 2: Energy Consumption in Georgia, the South, and the U.S. by Fuel Type, 2007<sup>3</sup>**



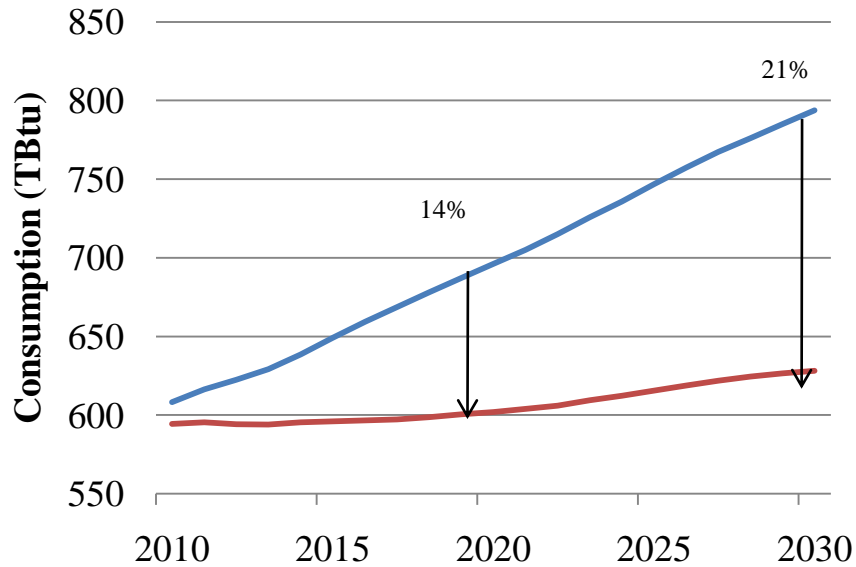
**Figure 3: Energy Efficiency Potential in Georgia**



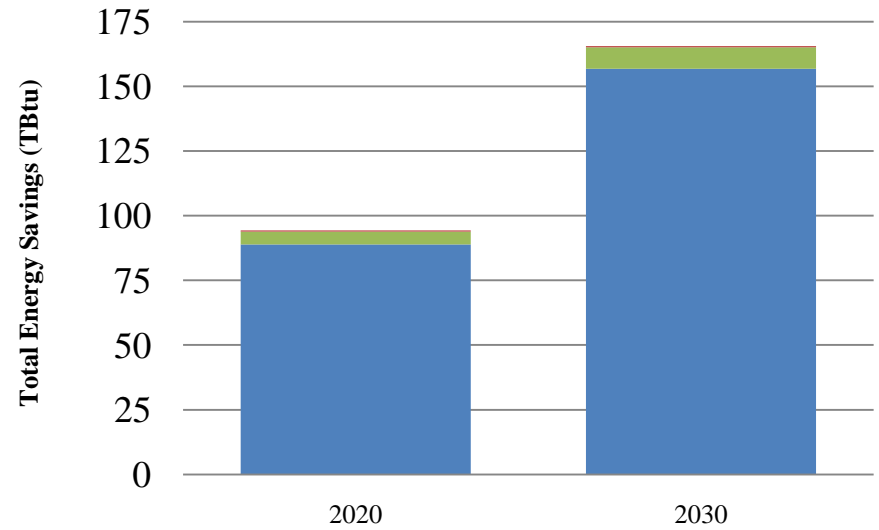
**RESIDENTIAL SECTOR SAVINGS**

**-BY FUEL TYPE**

\*Residential energy consumption could remain largely unchanged over the next two decades.



— Baseline Forecast — Energy Efficiency Scenario

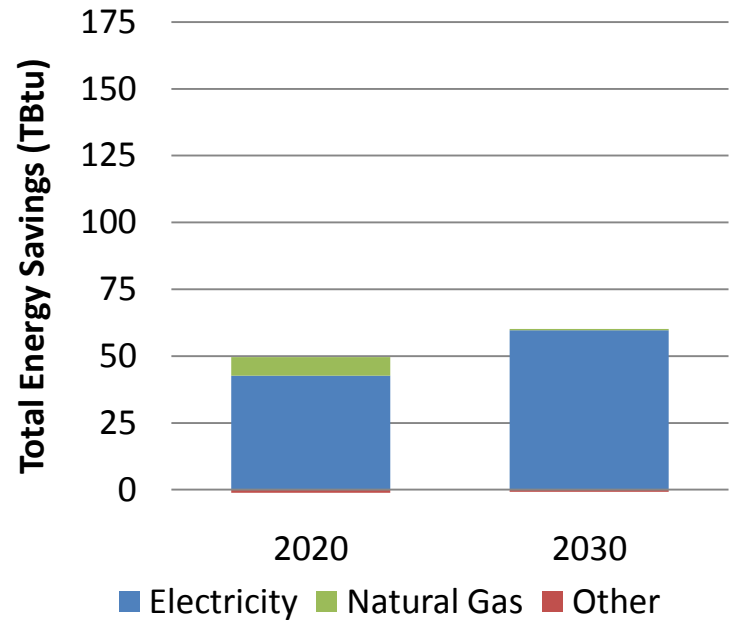
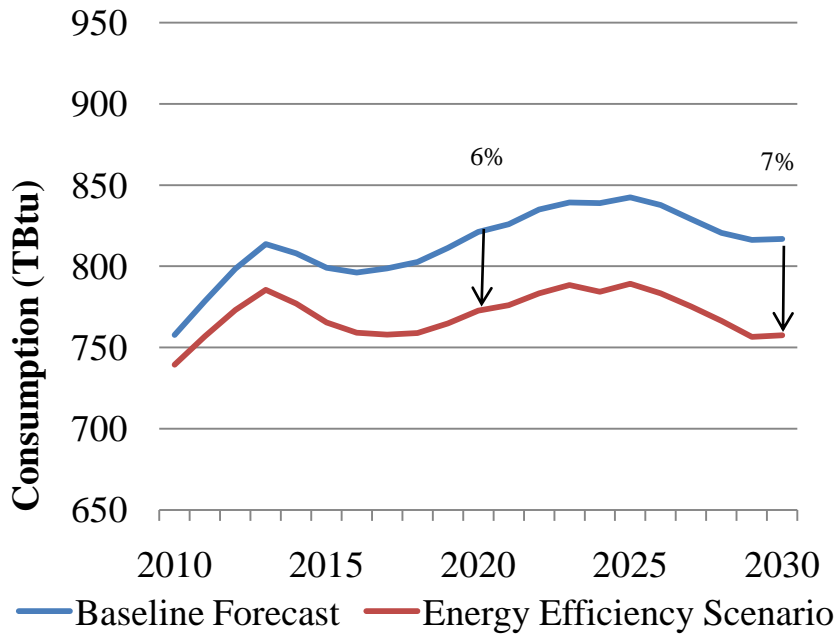


■ Electricity ■ Natural Gas ■ Others

## Commercial Sector Savings

## By Fuel Type

\*The rapid growth of commercial energy consumption forecast for Georgia could be constrained to only modest growth with two energy efficiency policies.



## Industrial Sector Savings

## -By Fuel Type

\*Three energy efficiency policies could significantly reduce the growing consumption of industrial energy projected over the next two decades.

**Table 1: Economic and Employment Impacts of Energy Efficiency**

<b>Indicator</b>	<b>2020</b>	<b>2030</b>
<b>Public Sector Policy Financial Incentives (in million \$ - 2007)</b>	<b>882</b>	<b>1,299</b>
<b>Private Sector/Household Productive Investment (in million \$ - 2007)</b>	<b>349</b>	<b>391</b>
<b>Change in Electricity Costs (in million \$ - 2007)</b>	<b>-2,070</b>	<b>-3,824</b>
<b>Change in Natural Gas Costs (in million \$ - 2007)</b>	<b>-341</b>	<b>-513</b>
<b>Annual Increased Employment (ACEEE Calculator)</b>	<b>32,200</b>	<b>43,100</b>
<b>Change in Gross State Product (in million \$ - 2007)</b>	<b>70</b>	<b>94</b>

## **Conclusions**

The energy-efficiency policies described in this report could set Georgia on a course toward a more sustainable and prosperous energy future. If utilized effectively, the State's substantial energy-efficiency resources could reverse the long-term trend of ever-expanding energy consumption. With a sustained and concerted effort to use energy more wisely, Georgia could grow its economy, create new job opportunities, and reduce its environmental footprint.

# Green Tift Grant

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- Department of Labor Grant
- Green Job Training
- Green Job Targets:
  - Biofuels
  - Renewable/Alternative Energy
  - Energy Efficient Assessments
  - Green Building and Technology
- Find Jobs for Graduates
- Real World Experiences
  - Field Experience



# Energy Management Courses

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## Diploma – Energy Management

- Green Building Technology I
- Green Building Technology II
- Energy Efficient Building and Design
- Energy Auditing/Modeling
- Weatherization for New and Existing Buildings
- Building Analyst Professional
- + General Core Course



# Energy Management Courses

## Weatherization for New & Existing Homes

- Energy auditors and existing contractors wishing to become certified weatherization technicians.

