

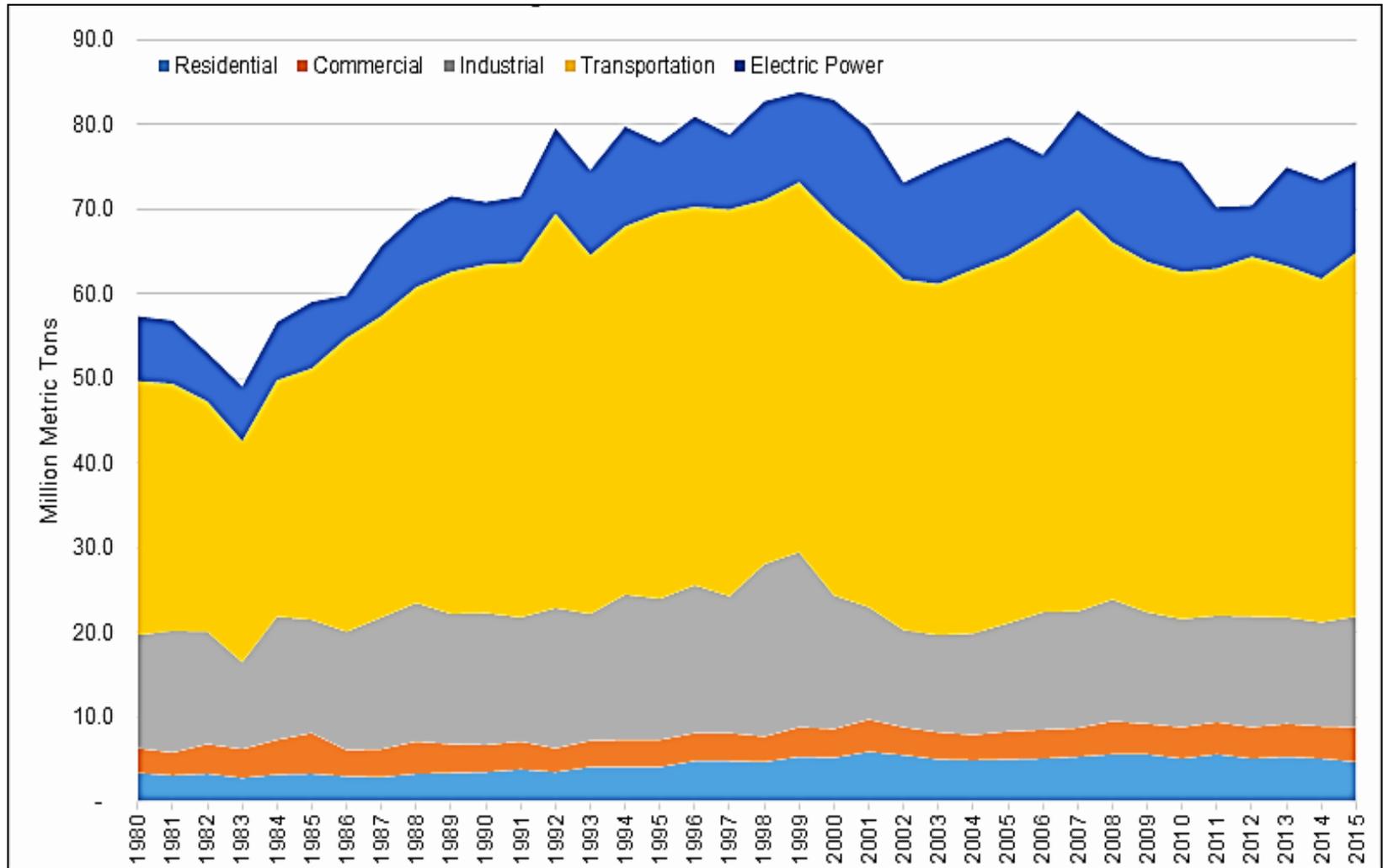


# Natural Gas Electrification?

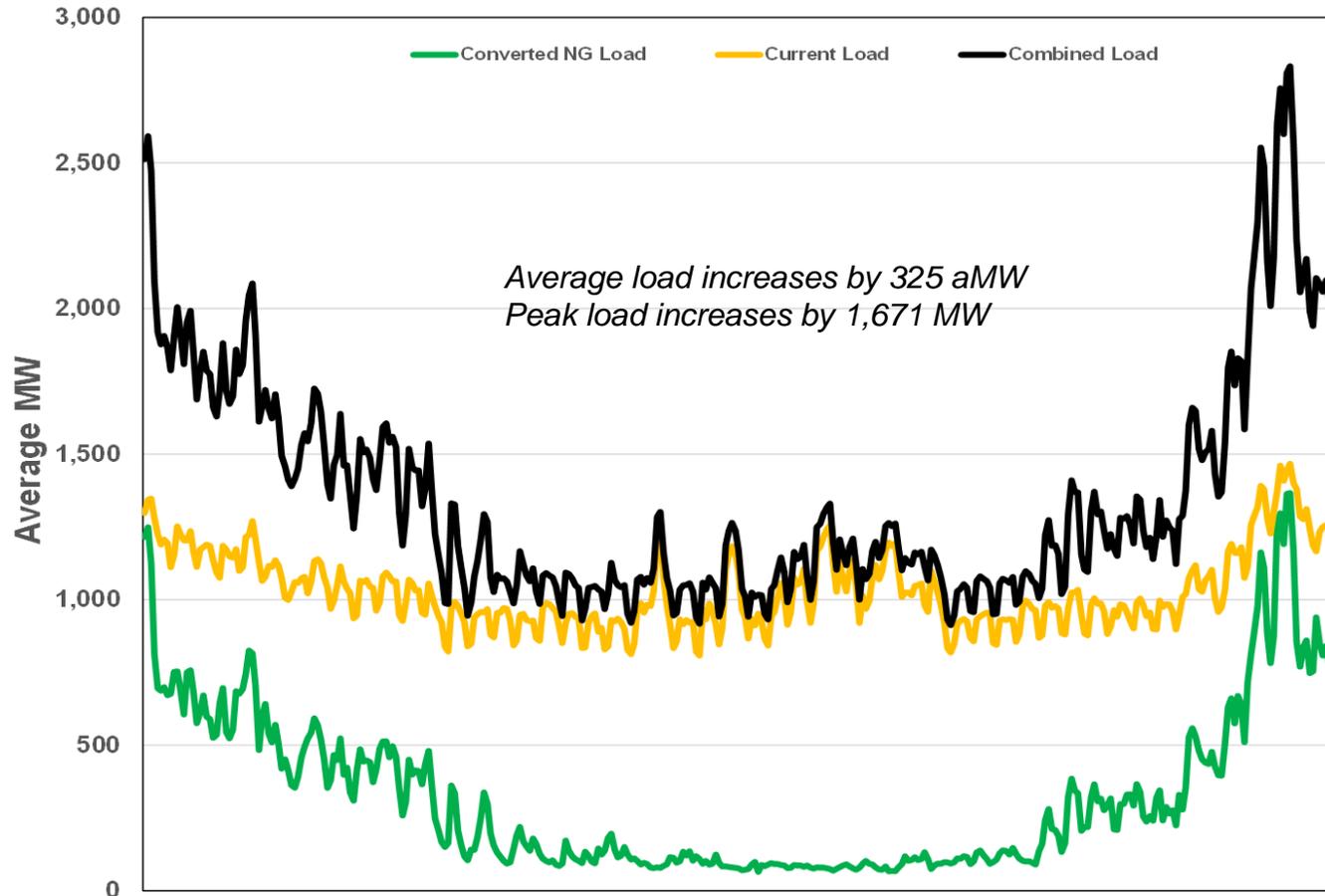
## Why look at this?

- Clean Air Rule (WA)
- Cap and Invest (OR)
- Governor Inslee Deep Decarbonization (WA)
- 100% renewable goals in some major cities in the Western US

# Washington State GHG Emissions



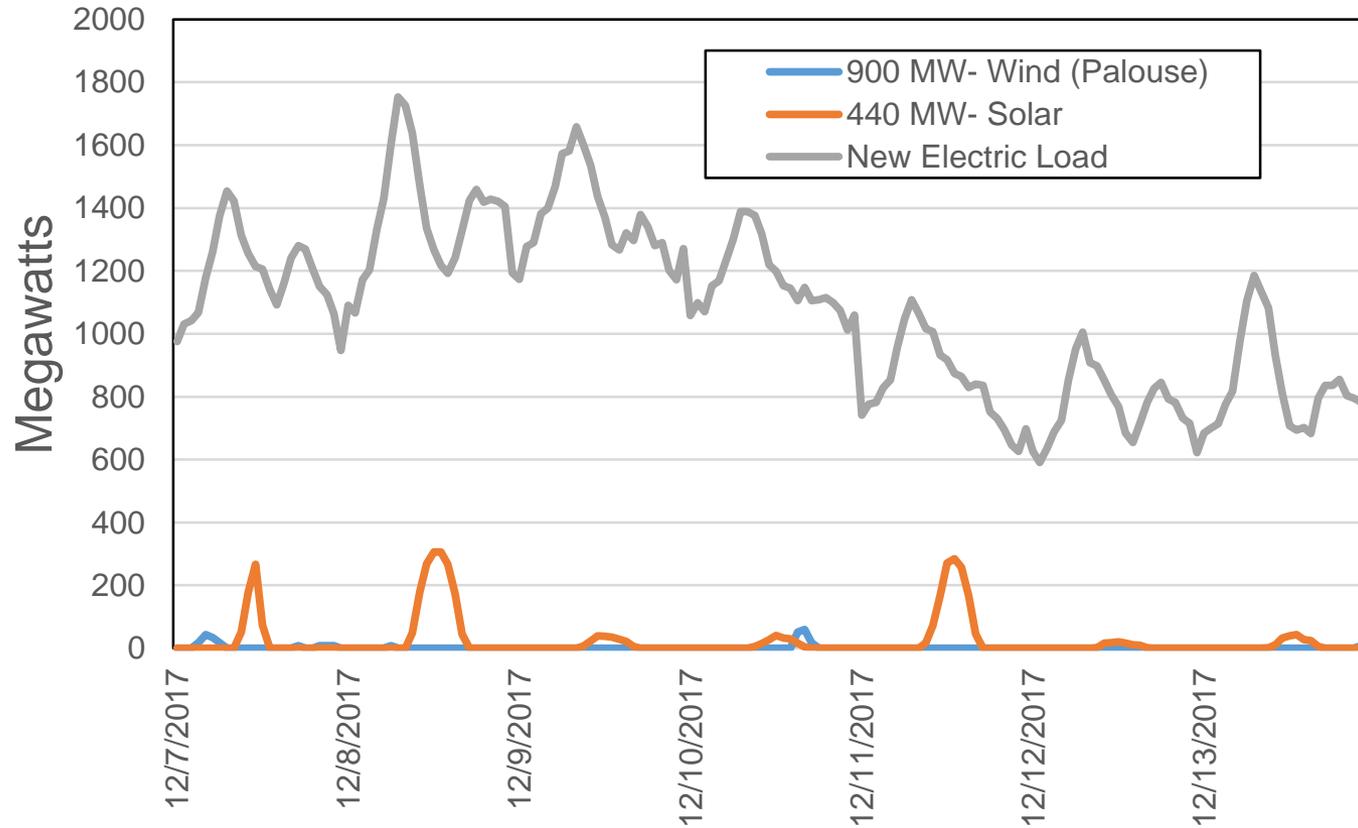
# Electric Daily Average Load (2016)



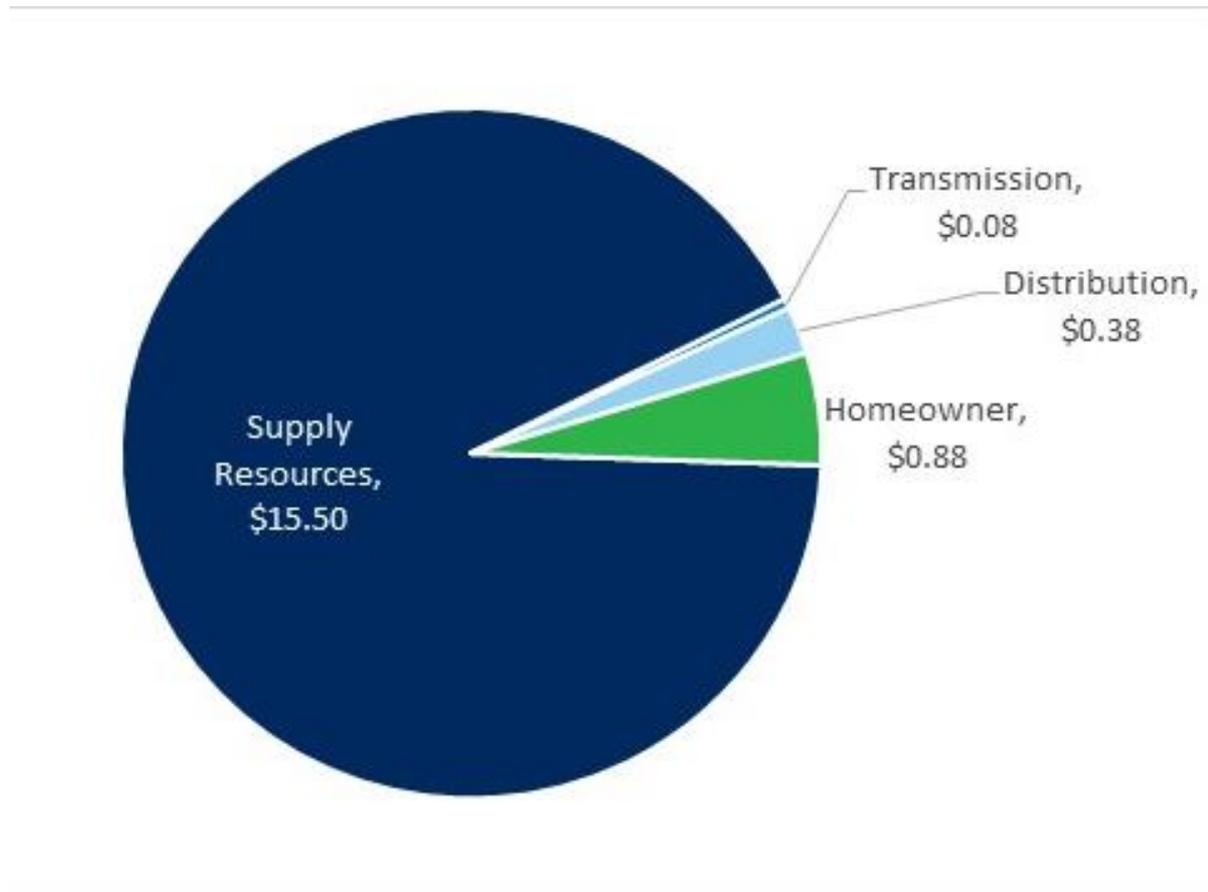
Annual Load Profile  
January - December

# Reliability Planning Considerations

December 7 - 14, 2017



# More than ~\$16 billion to electrify Avista service territory



# AGA Study – July 2018

Report found that policy-driven electrification could:

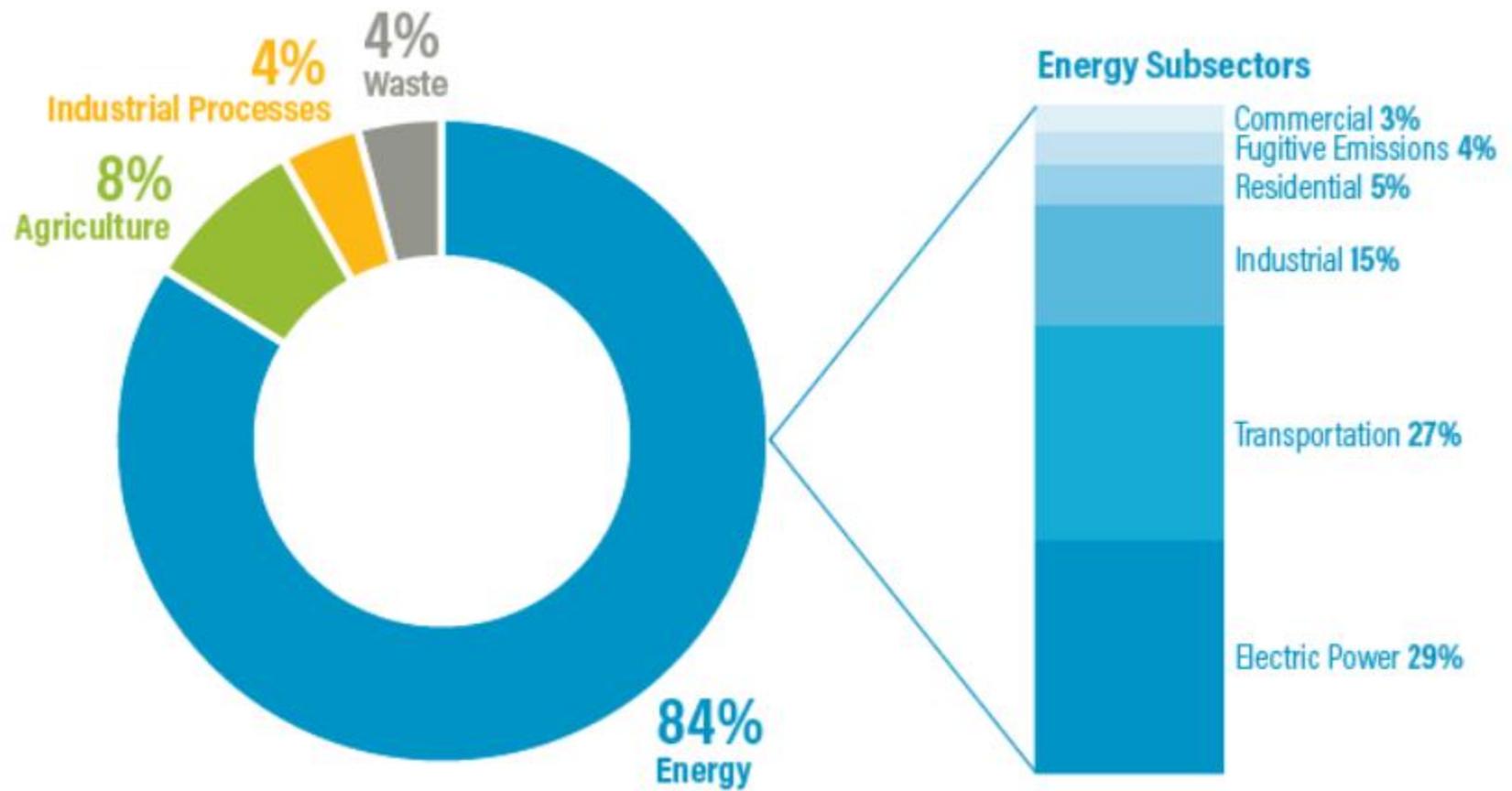
- Be burdensome to consumers and the economy
- Have profound impacts and costs on the electric sector
- Result in a very costly approach for relatively small reduction in emissions

# AGA Residential Electrification Study

- Total increase in energy-related costs
  - **\$590 billion to \$1.2 trillion** through 2035
- Greenhouse gas reduction potential is small
  - **Only 1% to 1.5%** by 2035

**Report:** [Implications of Policy-Driven Residential Electrification](#)

# U.S. Greenhouse Gas Emissions by Sector, 2014



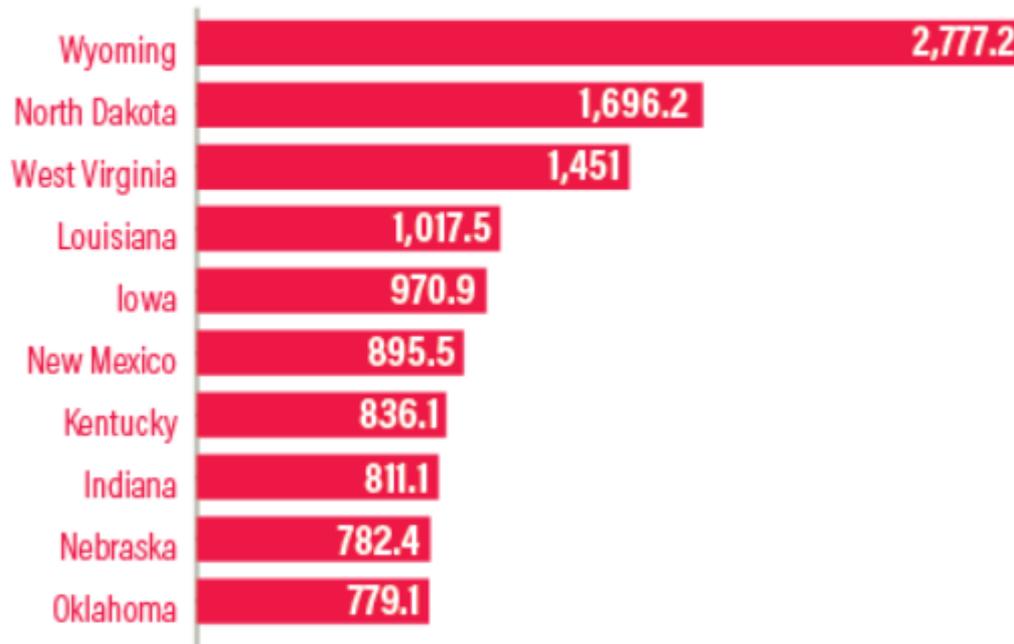
[bit.ly/usa-ghg](http://bit.ly/usa-ghg)

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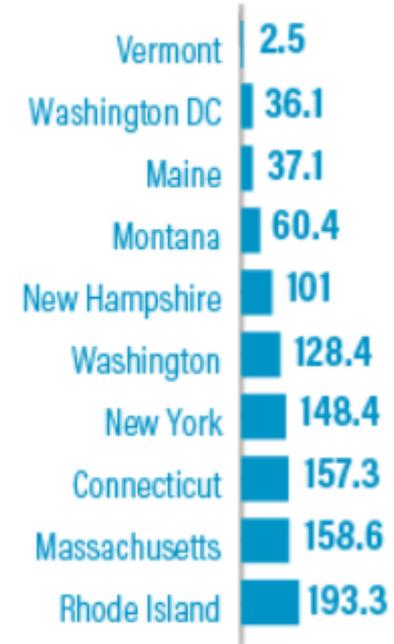
 AVISTA

# Comparison of U.S. State GHG Emissions Per GDP

## Top 10 States (tCO<sub>2</sub>e/Millions \$ GDP)



## Bottom 10 States (tCO<sub>2</sub>e/Millions \$ GDP)



[bit.ly/usa-ghg](http://bit.ly/usa-ghg)

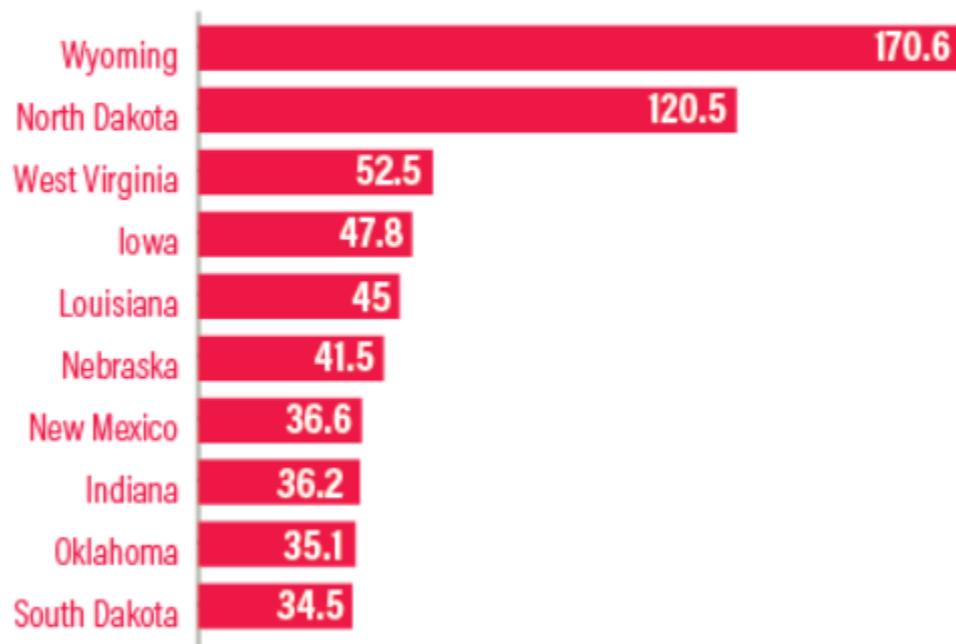


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# Comparison of U.S. State GHG Emissions Per Capita

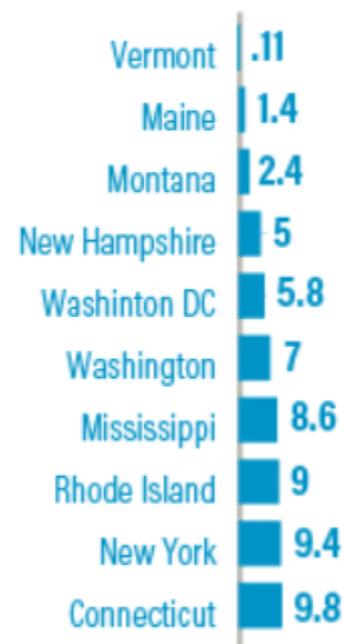
## Top 10 States

(tCO<sub>2</sub>e Per Capita)



## Bottom 10 States

(tCO<sub>2</sub>e Per Capita)



[bit.ly/usa-ghg](http://bit.ly/usa-ghg)



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**World Resources Institute Report: 6 Charts to Understand U.S. State Greenhouse Gas Emissions**