

Climate Strategies: What Can We Do?

Catherine Wolfram



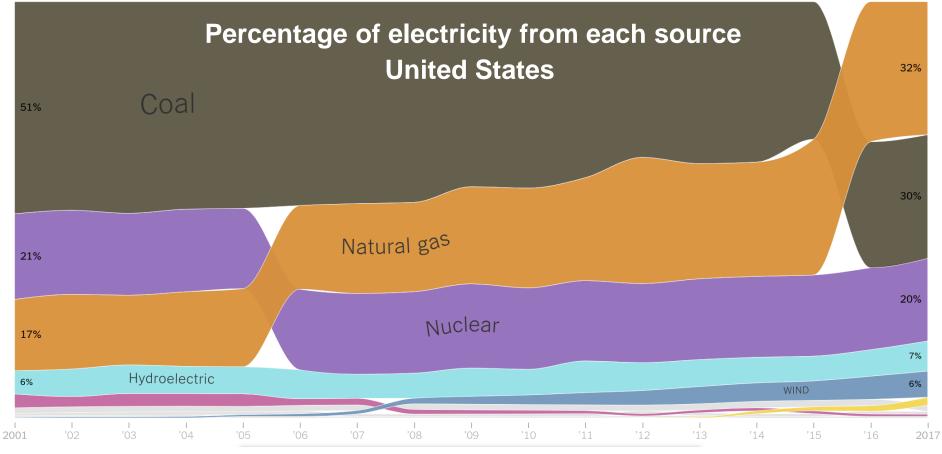


Reasons to go solar





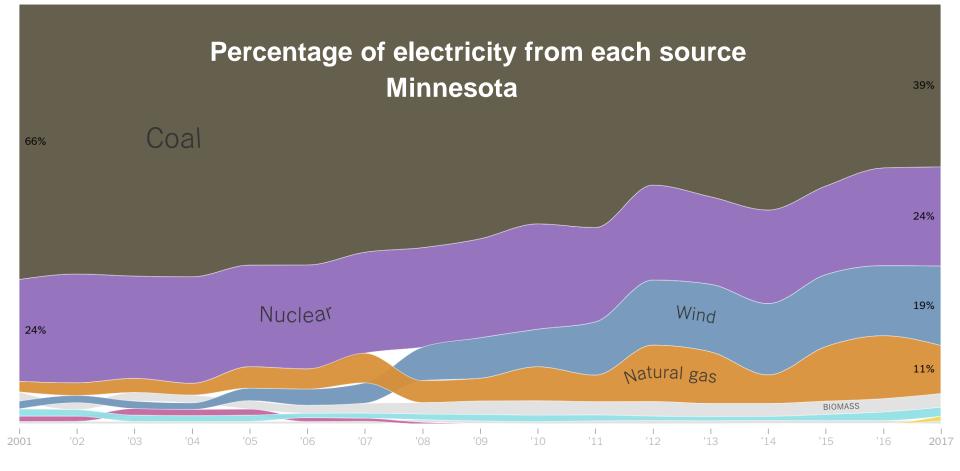
What does my solar offset?



Source: New York Times, December 24, 2018, from Energy Information Administration



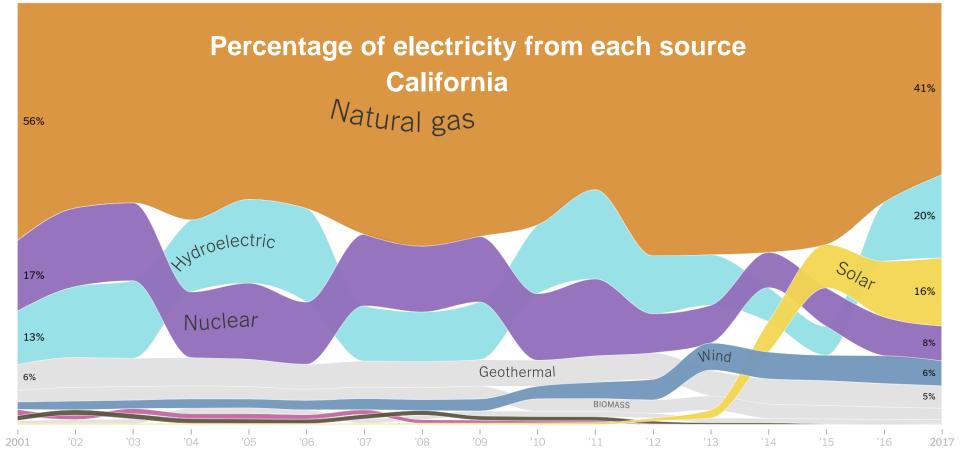
What does my solar offset?



Source: New York Times, December 24, 2018, from Energy Information Administration



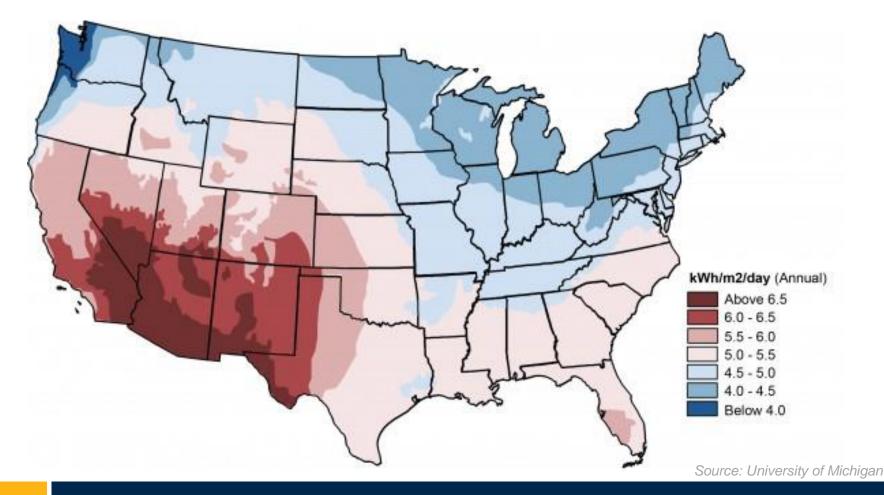
What does my solar offset?



Source: New York Times, December 24, 2018, from Energy Information Administration



How much will my solar produce?



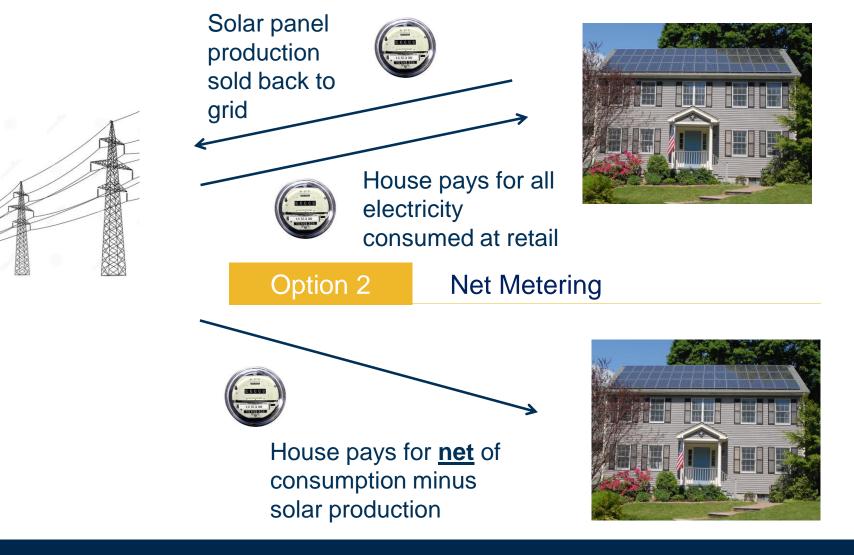


Another question: will going solar save me money?



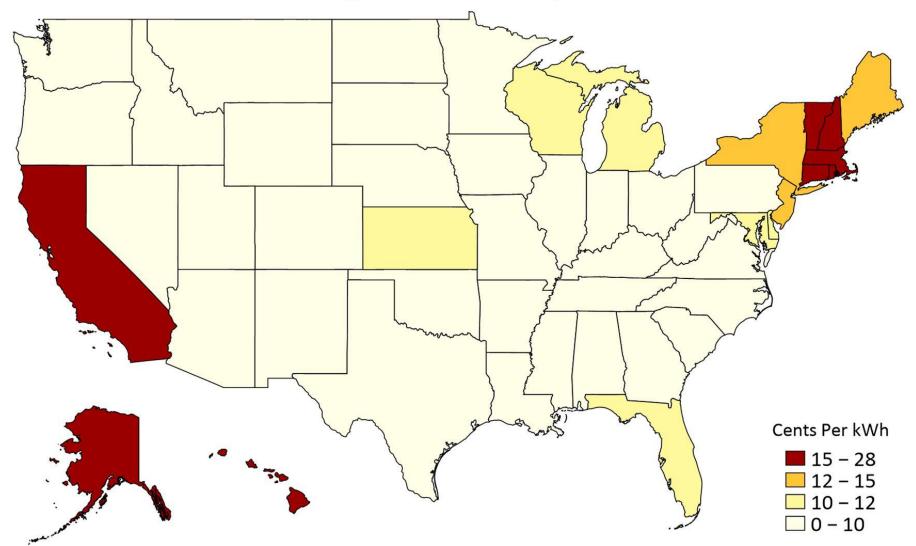
Option 1

Buy All, Sell All



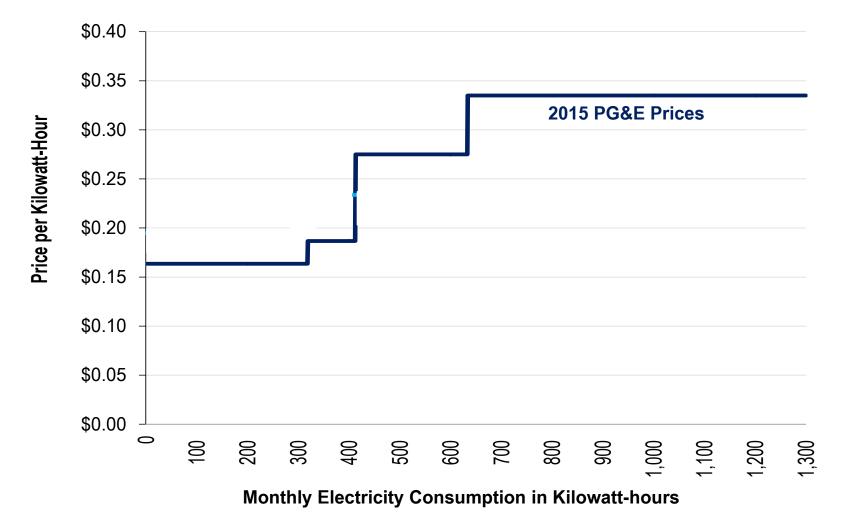
BerkeleyHaas

Average Retail Electricity Prices



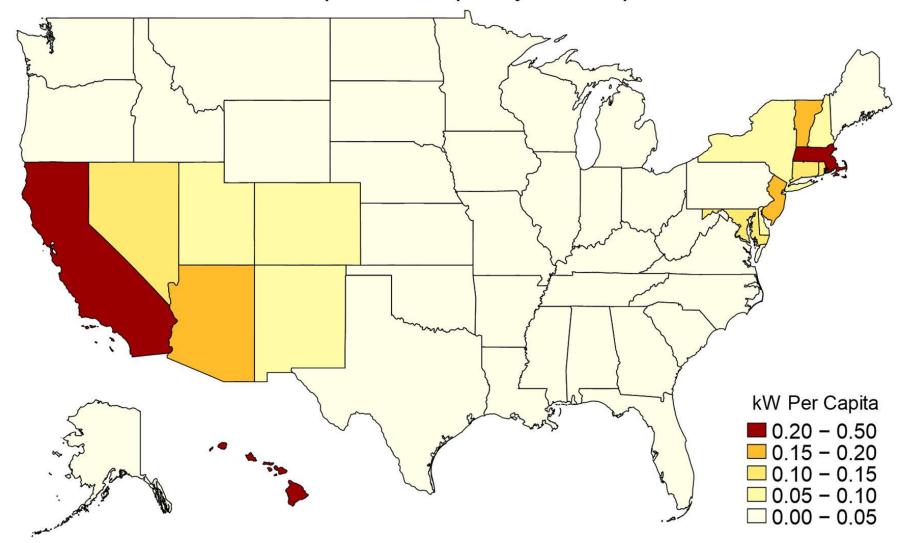
Created by Lucas Davis at UC Berkeley using retail electricity prices by state for November 2019 from the EIA Data Browser.





Berkeley Haas

Rooftop Solar Capacity Per Capita



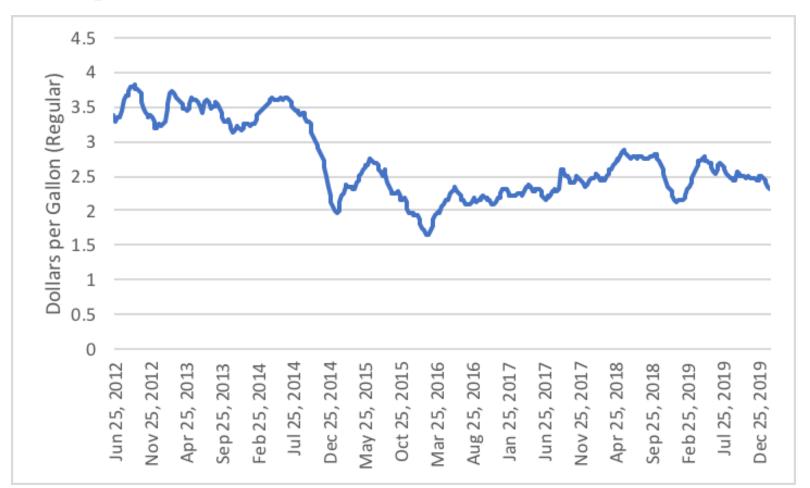
Created by Lucas Davis at UC Berkeley using data on small-scale (<1MW) solar capacity by state from EIA-860. More detailed maps with the same overall pattern appear in <u>Sexton et al., 2018</u> and <u>Borenstein and Bushnell, 2019</u>.





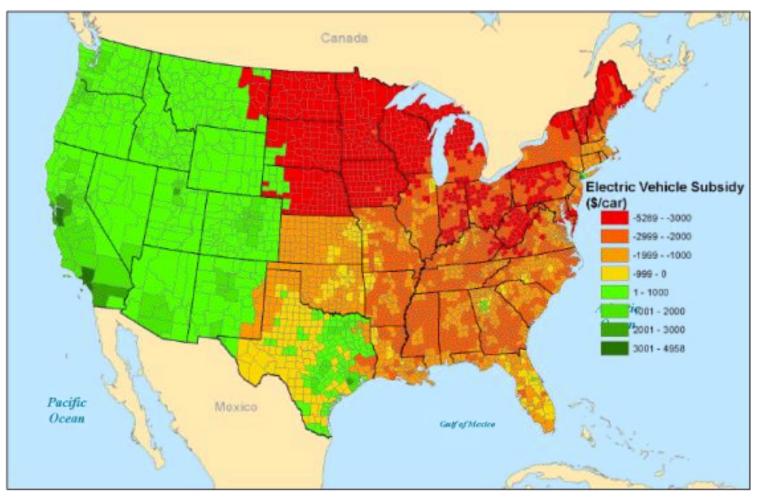


Gas prices have come down



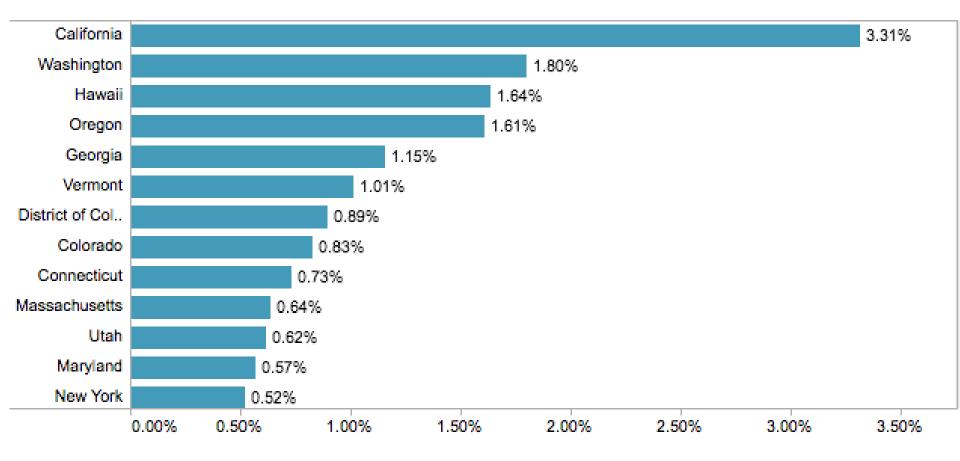


Ford Focus: Electric versus Gas

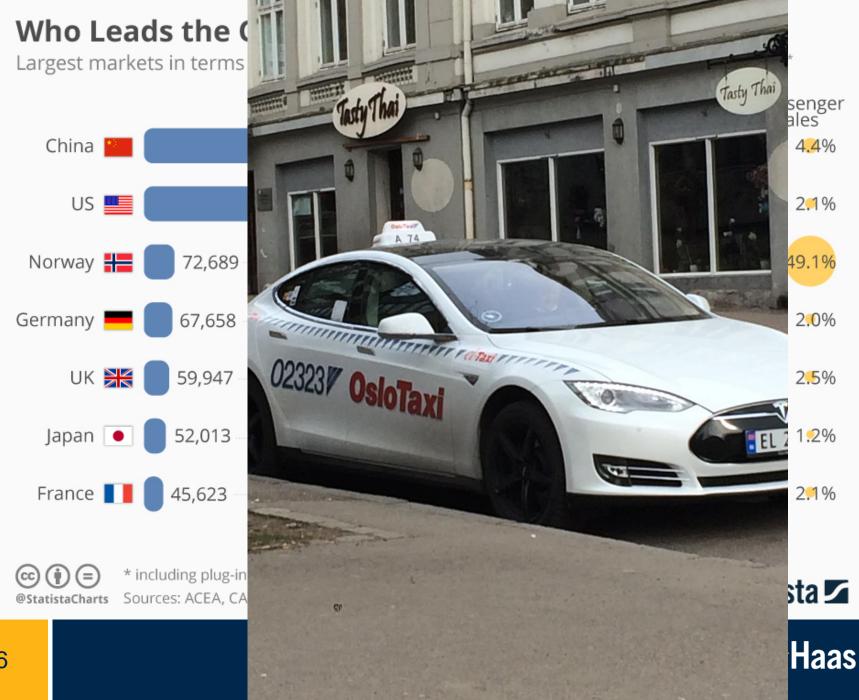


BerkeleyHaas

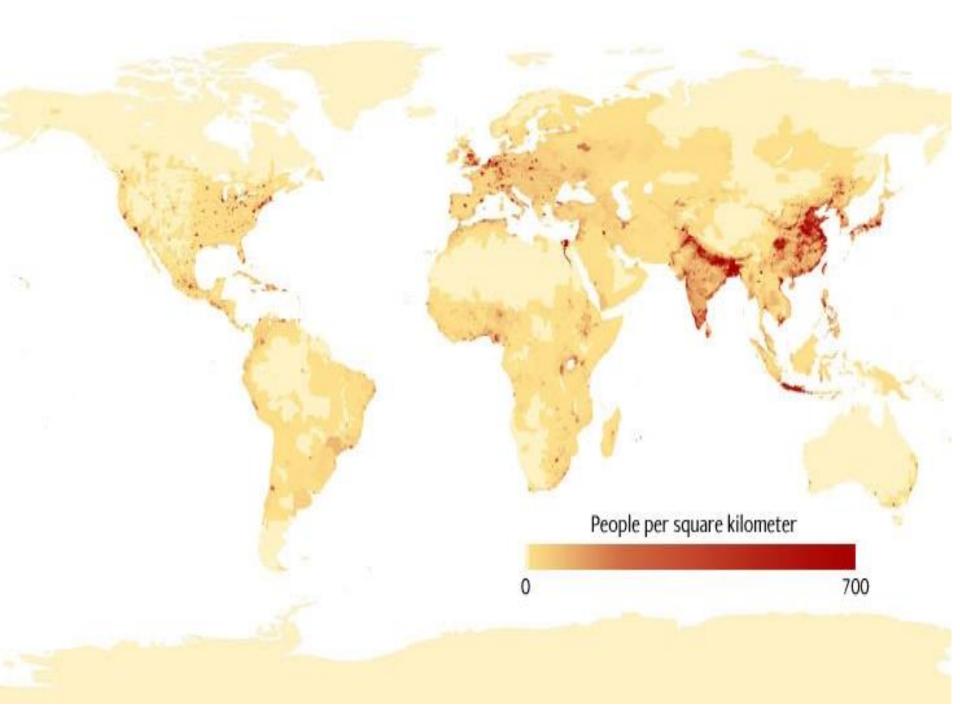
Californians buy the most EVs

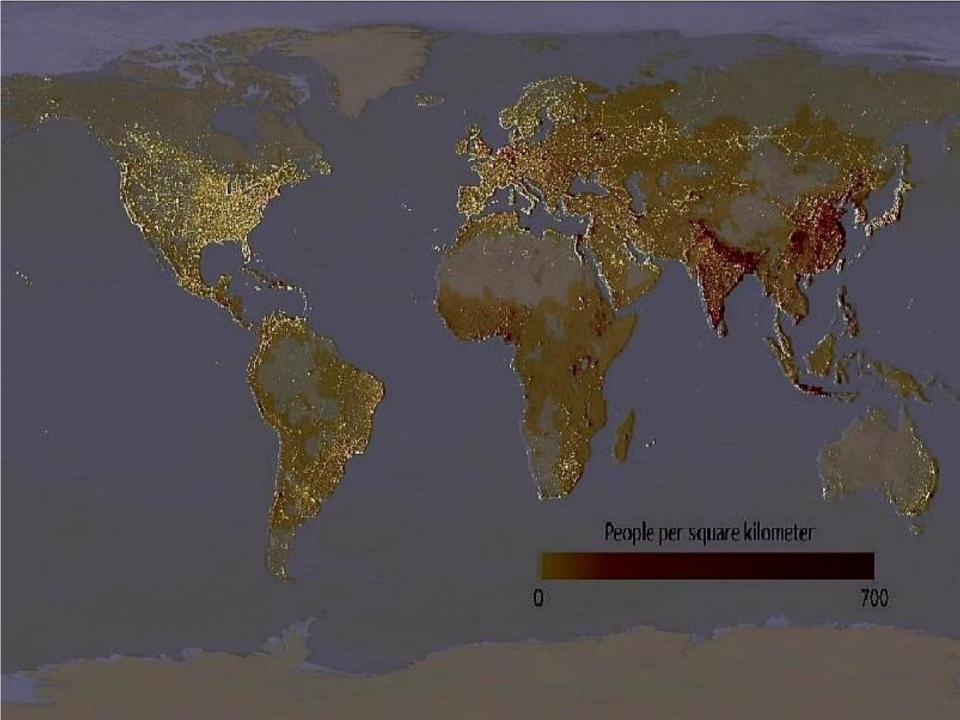




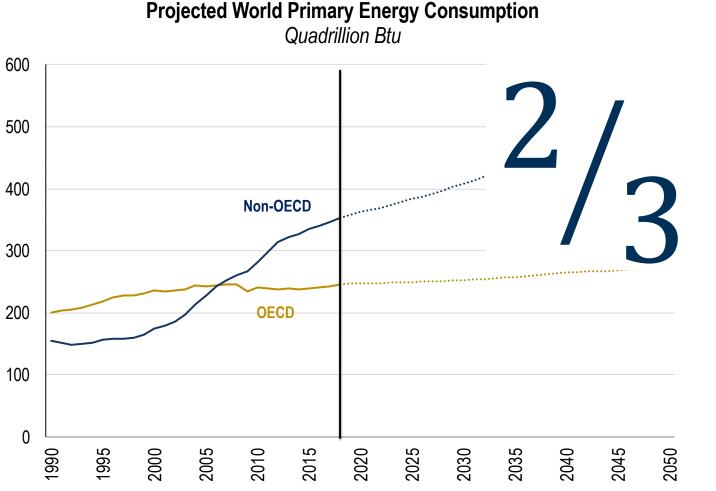








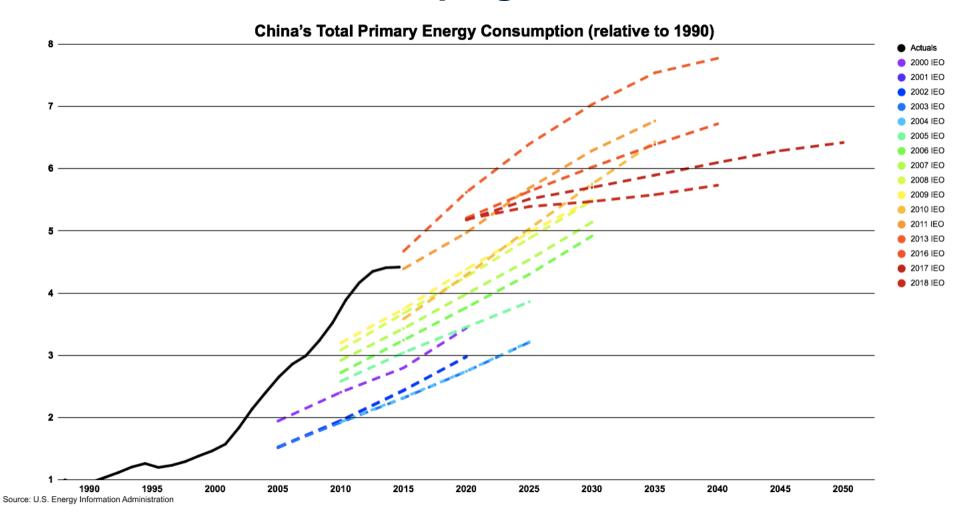
The developing world accounts for most expected growth in energy



Source: Energy Information Administration International Energy Outlook, 2018

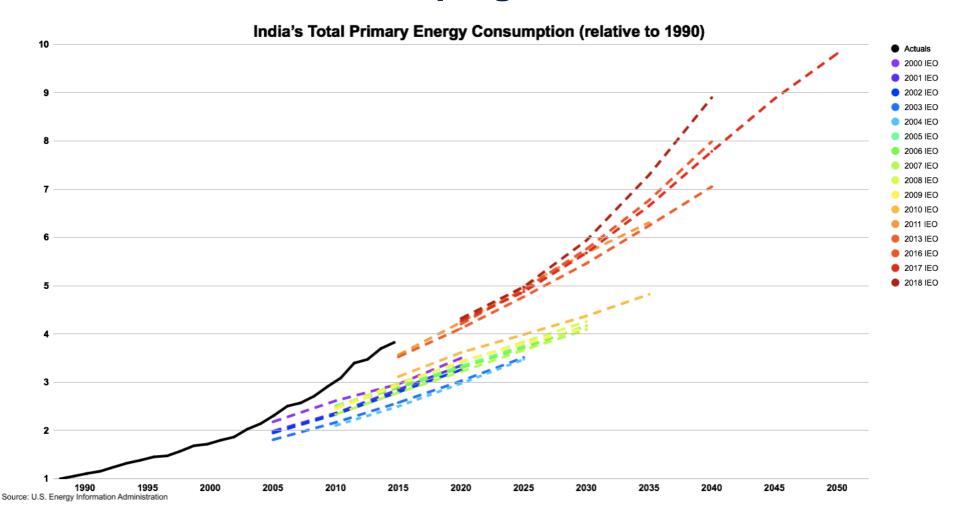


Previous projections underestimate energy demand in the developing world



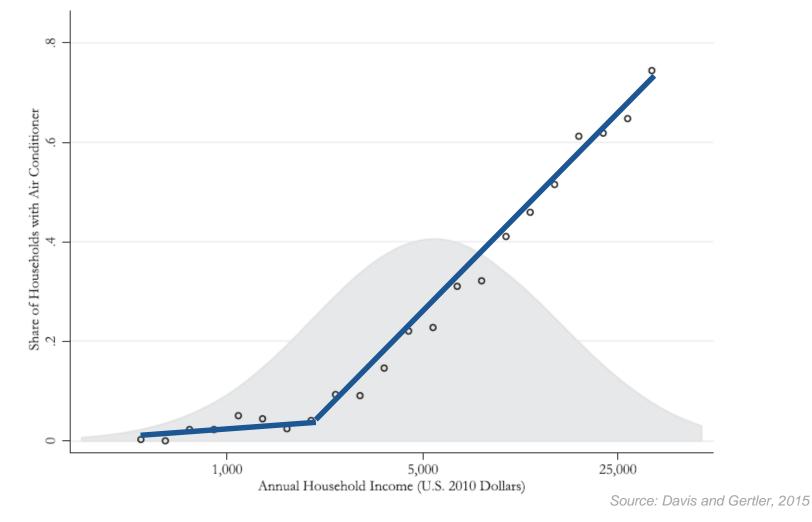


Previous projections underestimate energy demand in the developing world





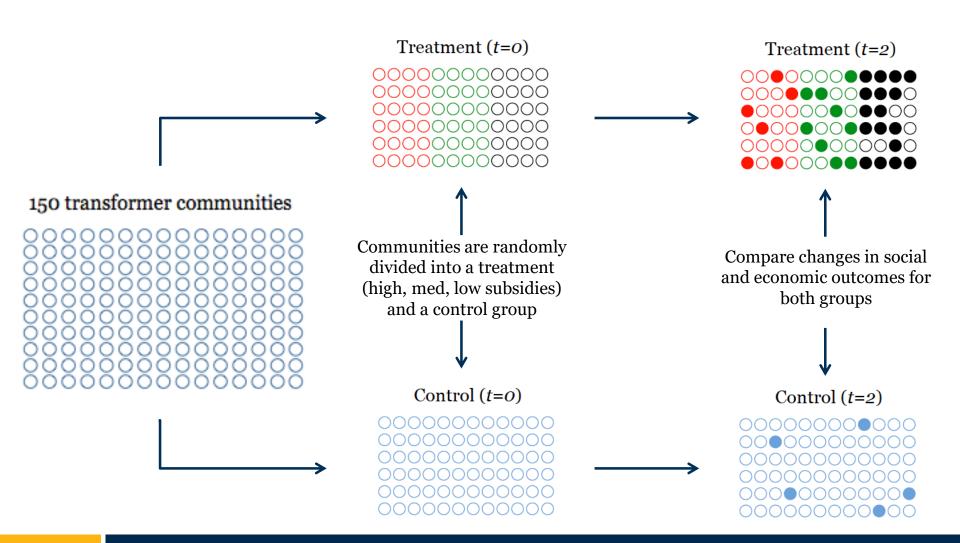
Appliance adoption nonlinear in income



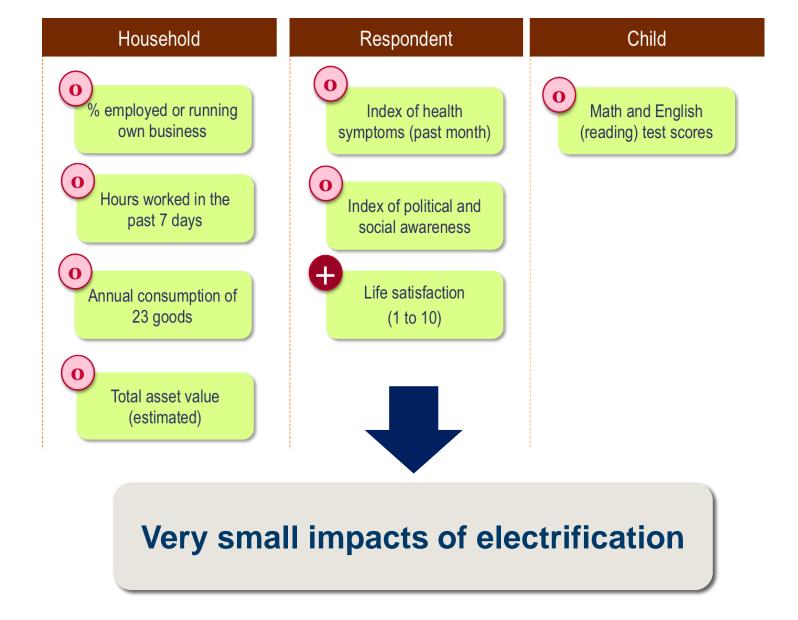
Approximately **1 billion people** live without electricity in their home.



Grid electrification in Kenya



BerkeleyHaas









Policy makers are crucial

The single most important thing an individual can do to address climate change is to advocate for policy makers who are committed to the issue.

Senator Klobuchar's Plan to Tackle the Climate Crisis.



AMYKLOBUCHAR.COM



1

Technological & policy solutions

We need to develop both technological and policy solutions that work.





2

Policy solutions must be global

Policymakers need to gauge climate solutions based on potential impacts in China, India, and Sub-Saharan Africa.





3



