

**Climate Change → We're at a crossroads**

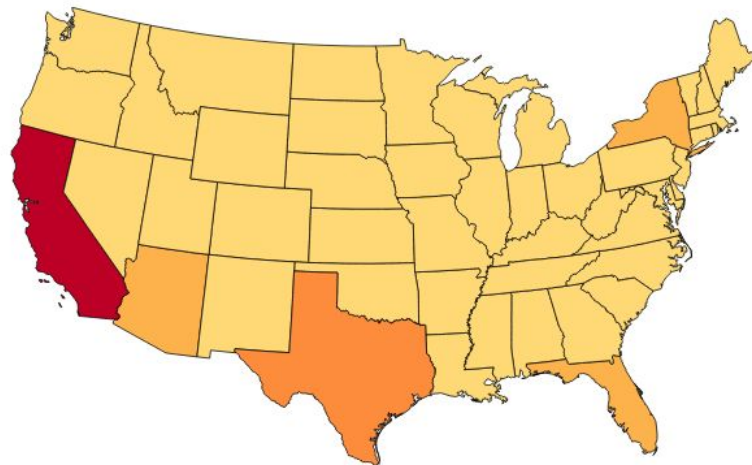


# Motivation → the Energy Revolution

D.O.E **projections** to get to **80% Renewable Energy**:

- California 2050 → 19,000MW of Rooftop PV

BUT... WHAT DOES 19,000MW  
OF ROOFTOP PV LOOK LIKE?



Capacity:  
Rooftop PV (MW)

Capacity ▾

Rooftop PV ▾



- Need a visualize solutions that everyone can comprehend

# PictureThis.

VISUALIZE THE energy revolution

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# see the solution on a Human Scale

## Inputs:

- ❖ Parsed NREL 80% RE Data:
  - capacity and geo (focused on rooftop solar)
- ❖ Merged w/ NREL solar resource data by geo
- ❖ Merged w/ dataset with census housing data
- ❖ Geolocated these dataset across the whole country



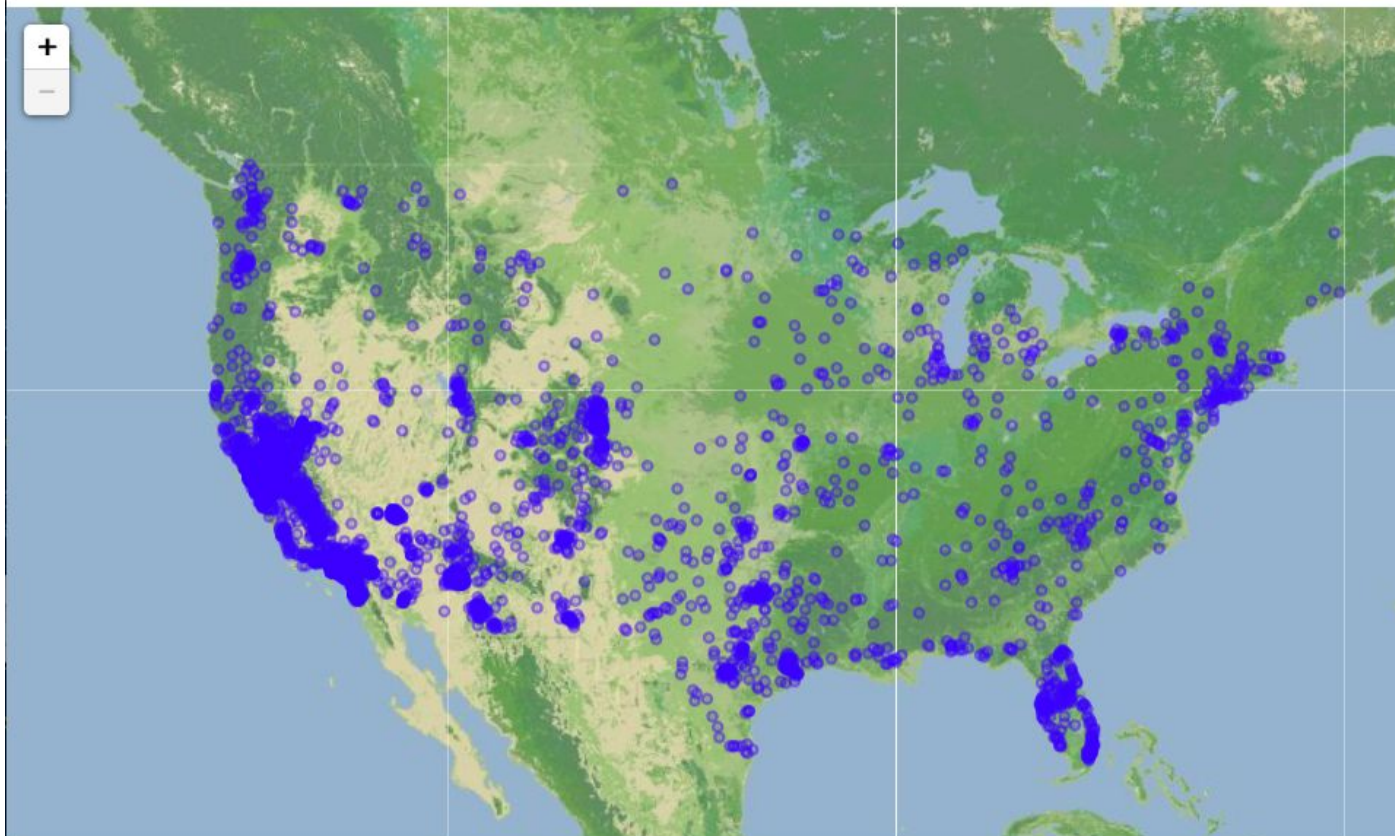
Output: dot (●) for every US household with solar in 2050



v 0.9

Picture This!

80% Renewable Energy Penetration



# Next Steps

- ❖ drive traffic to **PictureThis** to communicate the energy revolution
- ❖ document committed code in public git
- ❖ overlay household income data to communicate the need for solar equality
- ❖ track energy revolution progress
- ❖ extend to any country

goto: <https://berc-hackathon.shinyapps.io/bayAreaMap>

# Backup

# Visualize the Solution on a Human Scale

Data:



Languages:



Tools:

