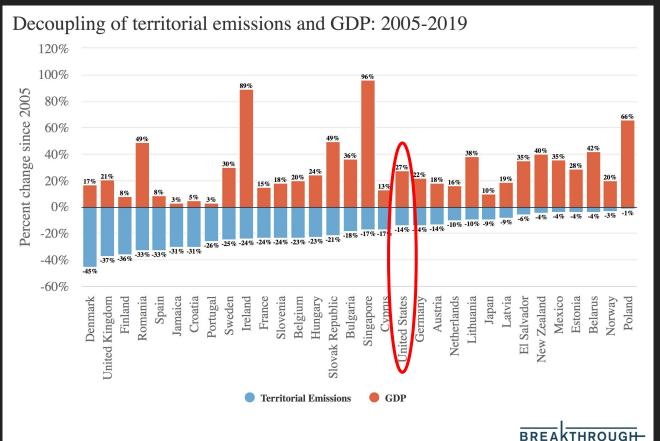


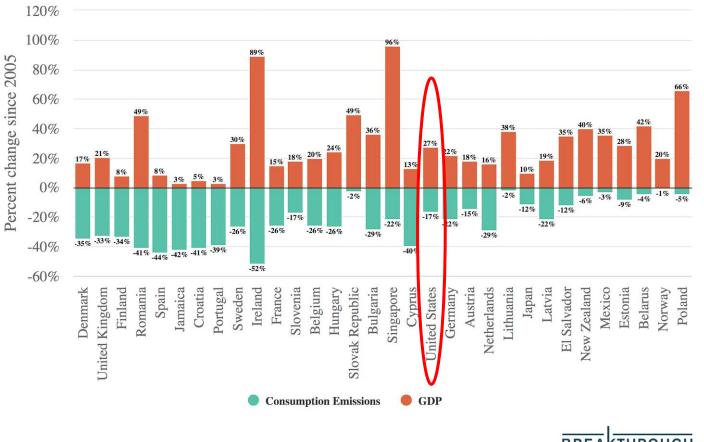
Enabling Deep Decarbonization in a Partisan Era Zeke Hausfather April 7<sup>th</sup>, 2021

## 1) Green Growth is Possible



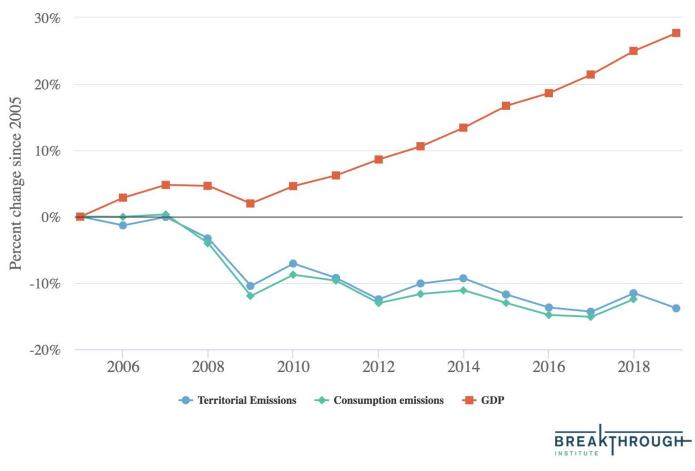
INSTITUTE

#### Decoupling of consumption emissions and GDP: 2005-2019



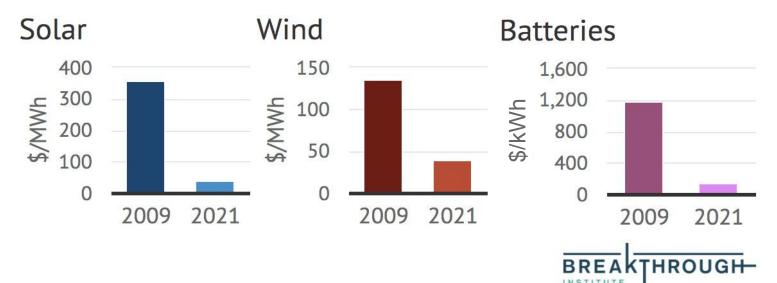
BREAKTHROUGH

#### Emissions and GDP: United States, 2005-2019



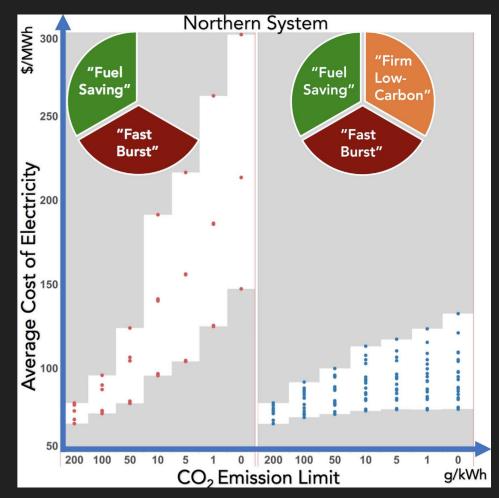
## 2) Technology Enables Policy – Importance of Innovation

# Clean energy has become cheap



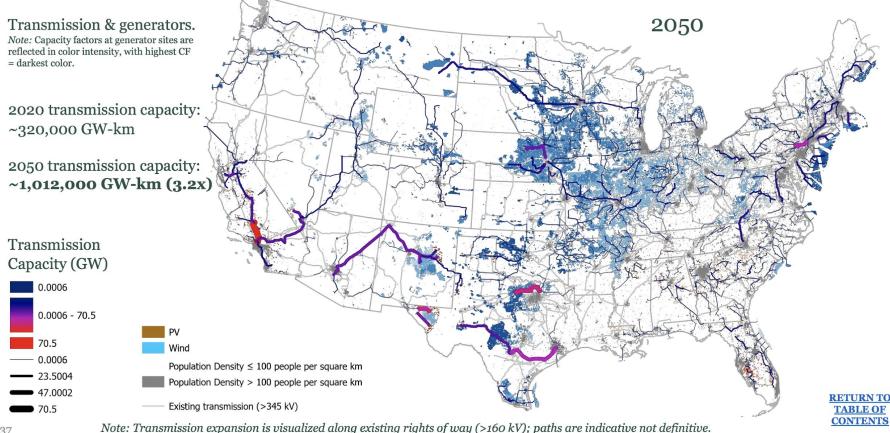
Deep decarbonization requires both speeding up the deployment of existing clean energy technologies and dramatic expansions of RD&D for clean firm generation and hard-to-decarbonize sectors.

> "The 2020s is the decade to invest in maturing and improving a range of technologies that improve options for the long term." - Princeton Net Zero America project

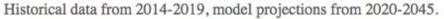


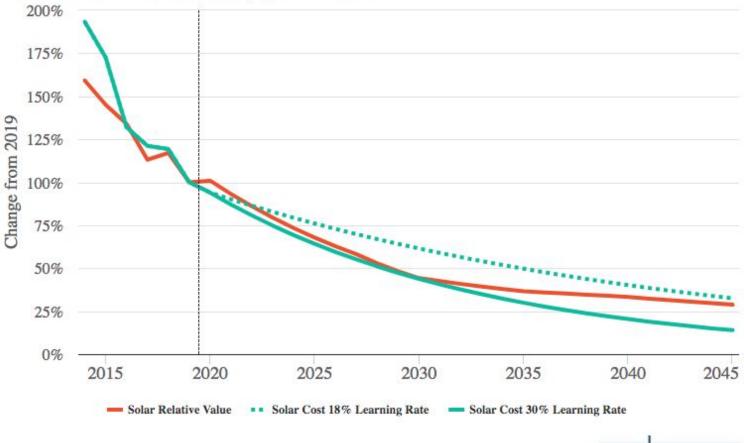
Sepulveda et al 2018. Joule.

## 3) Supporting Infrastructure Key to Deep Decarbonization



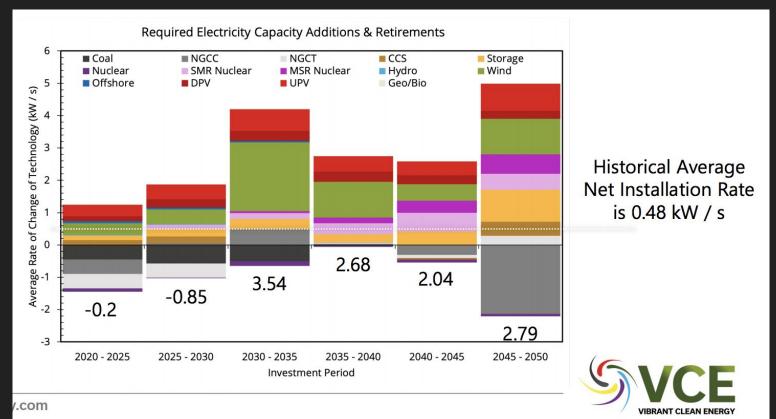
#### Race between value deflation and cost reductions in California







## 4) Importance of Cutting Red Tape

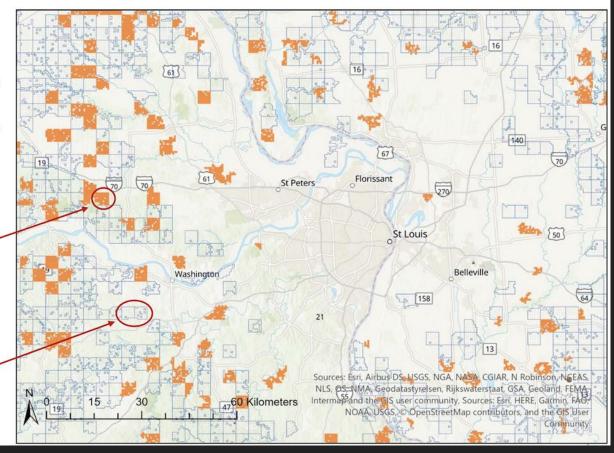


Vibrant Clean Energy. 2021. Insights from Modeling the Decarbonization of the United States Economy by 2050

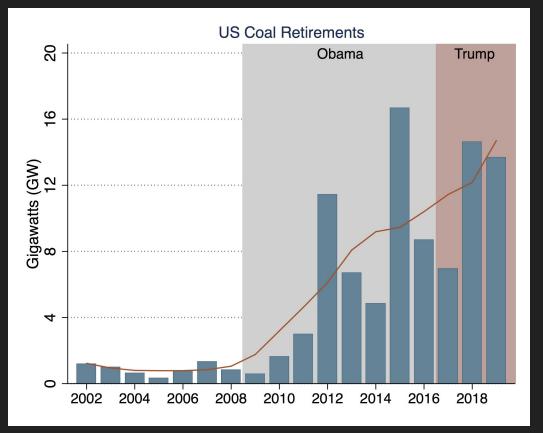
Solar, existing and planned Solar, additional selected sites 2050 E+ base Wind, existing and planned Wind, additional selected sites 2050 E+ base (dots indicate approximate turbine footprint)

> 500 MW solar facility (generic future facility)

80 MW wind facility (generic future facility)



### 5) Permanence in an age of Partisanship



# Thanks!

## Questions?

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