



U.S. Climate Mitigation and the Paris Agreement

Leon Clarke
October 24, 2020

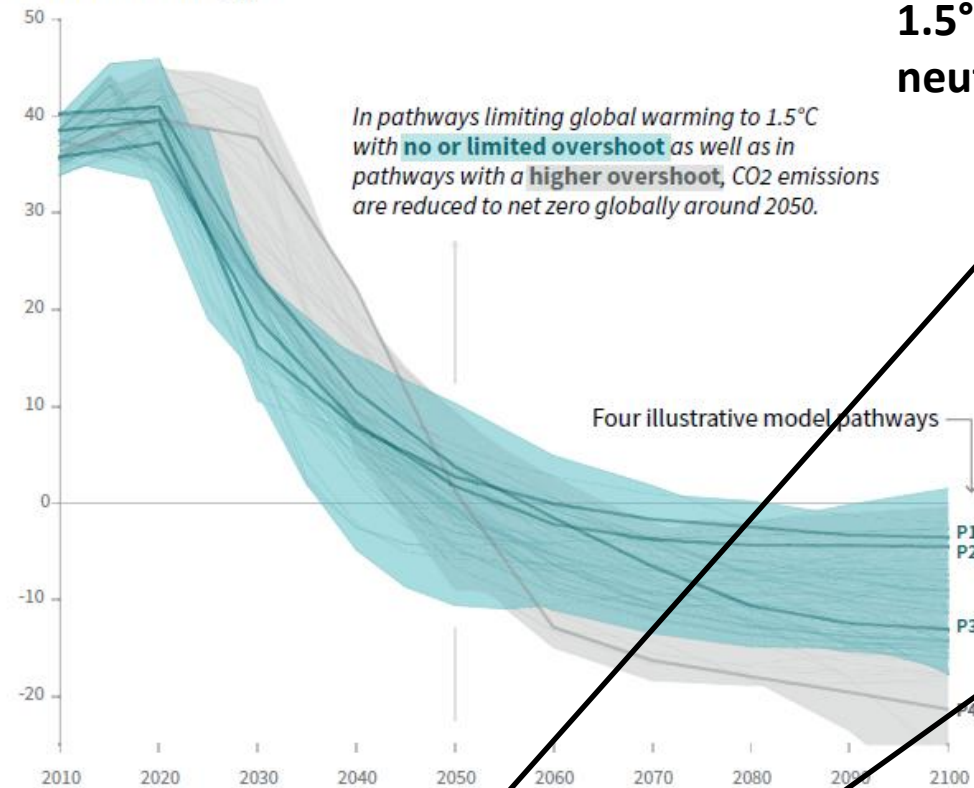
The Paris Agreement, December 2015



The Pathway to 1.5C and 2.0C

Global total net CO₂ emissions

Billion tonnes of CO₂/yr

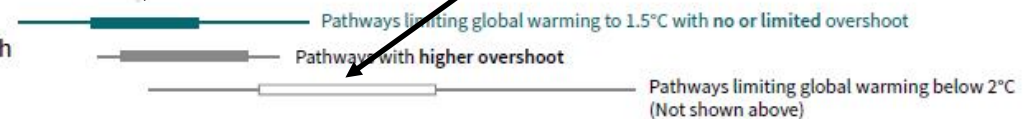


1.5°C Pathways: Carbon neutrality around 2050

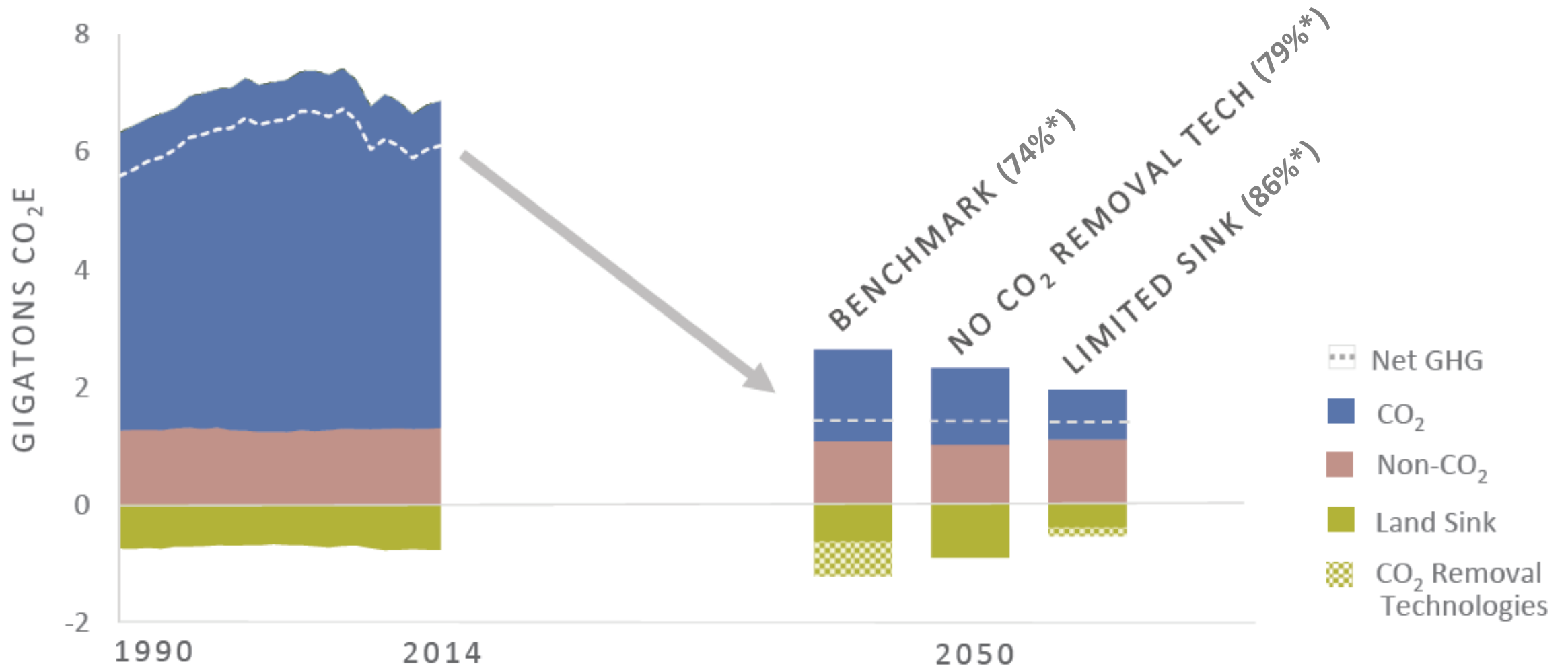
2.0°C Pathways: Carbon neutrality around 2070

Timing of net zero CO₂

Line widths depict the 5-95th percentile and the 25-75th percentile of scenarios



Energy emissions in context – U.S. Mid-Century Strategy

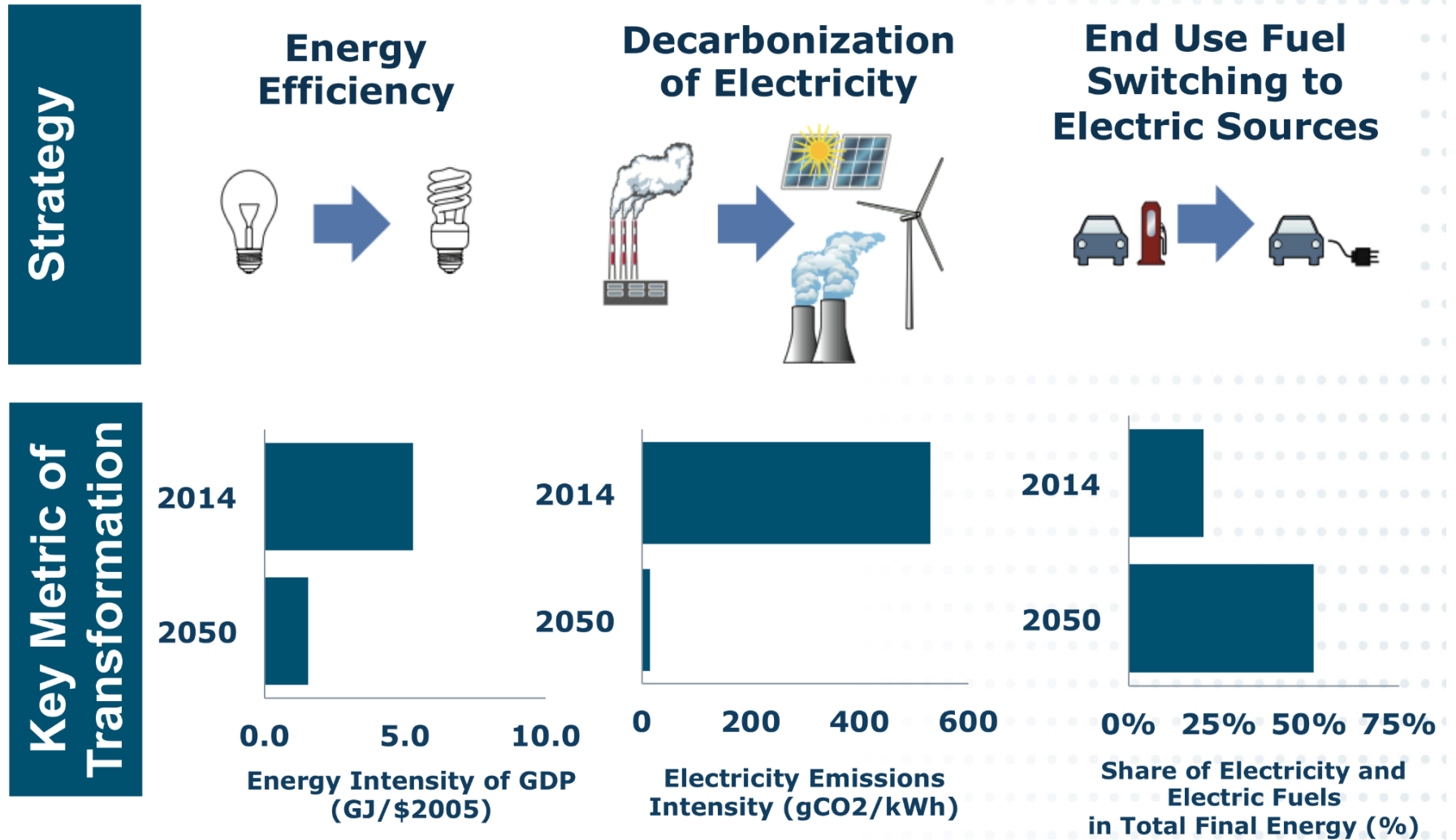


Source: United States Mid-Century Strategy, 2016

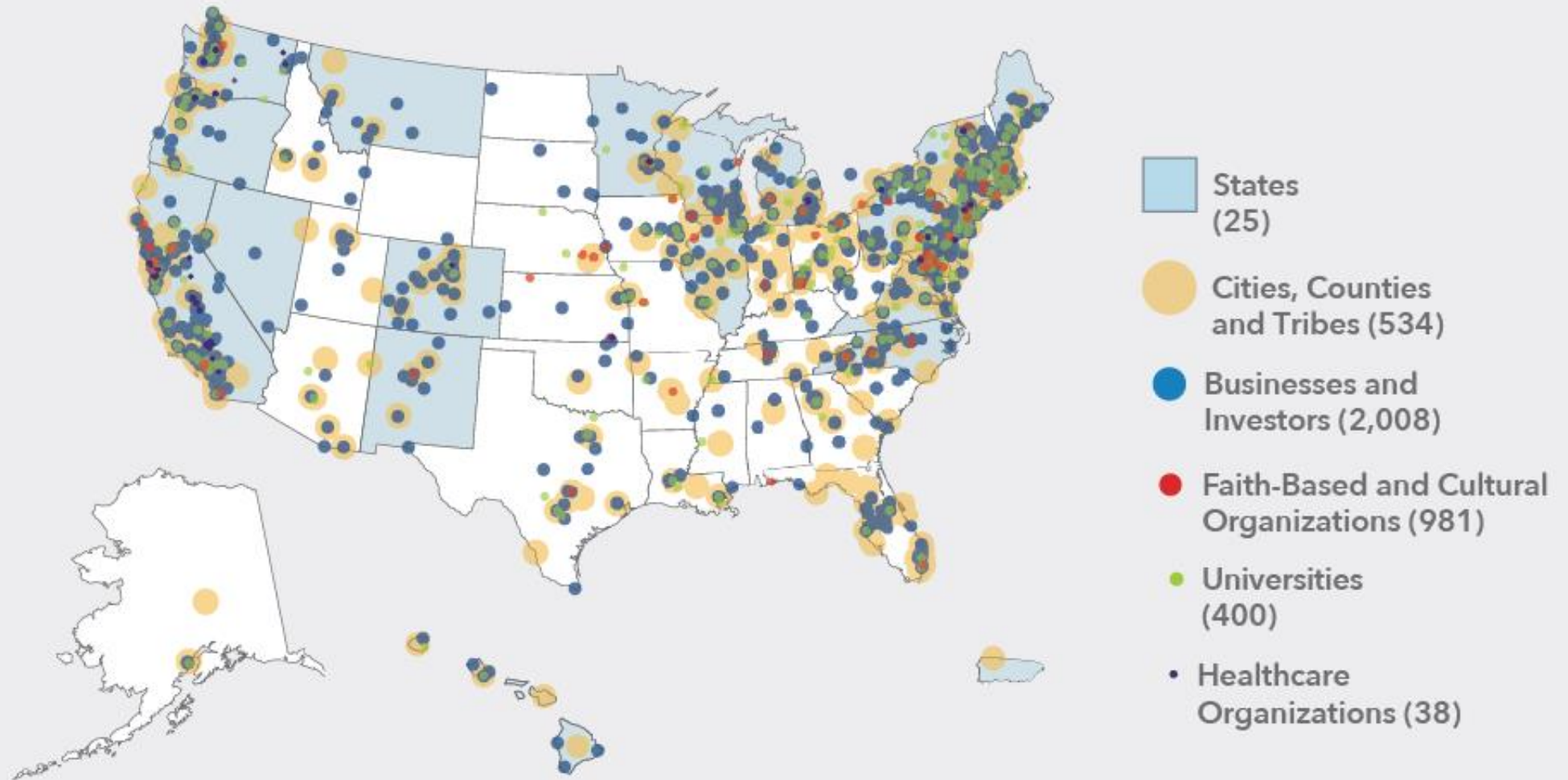
* (Percent reduction in direct fossil combustion relative to 2005. Does not account for CDR from energy)

Three Pillars of Deep Decarbonization

(Slide Courtesy of Jim Williams)

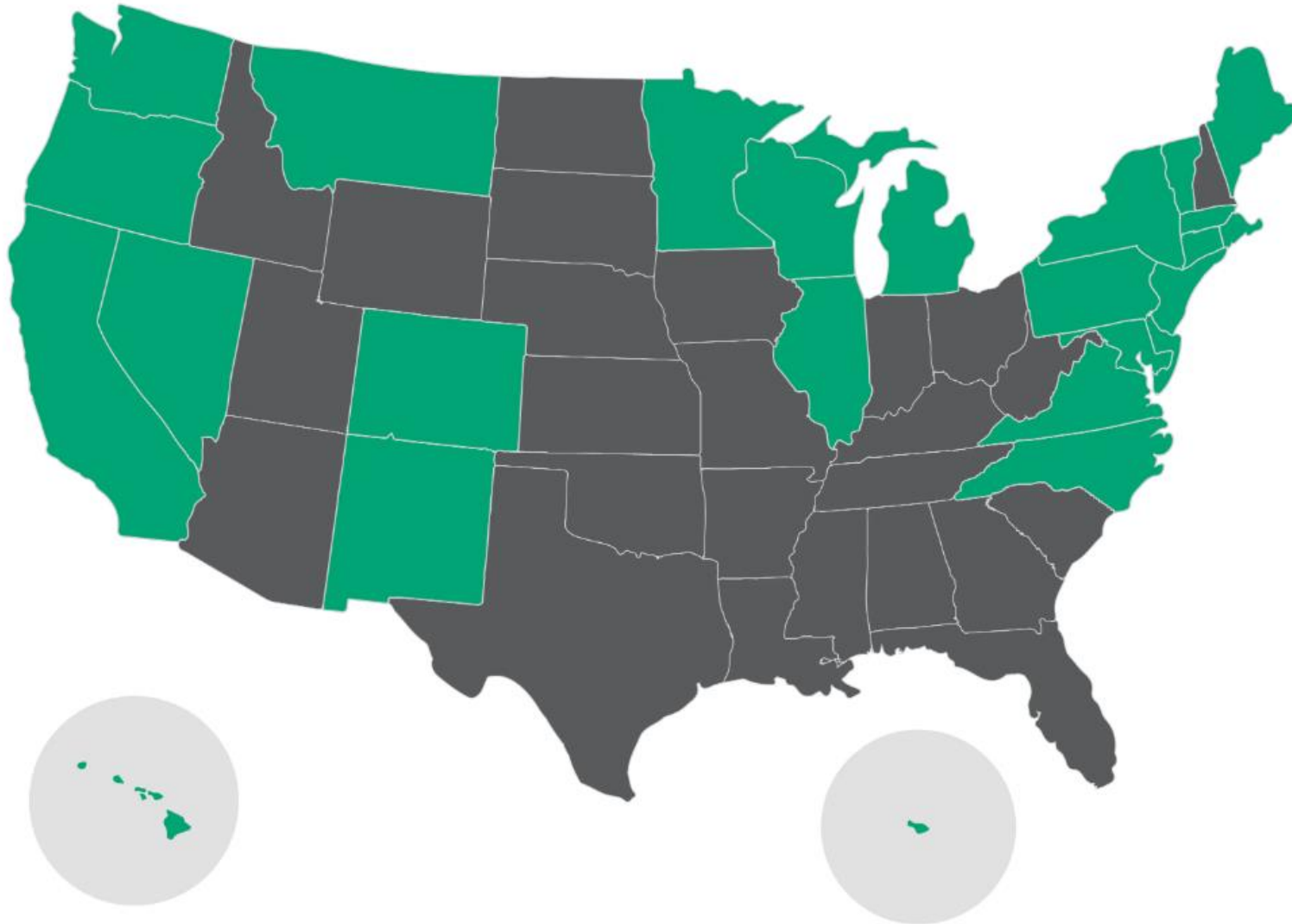


2019 U.S. coalition of climate actors



AMERICA'S PLEDGE

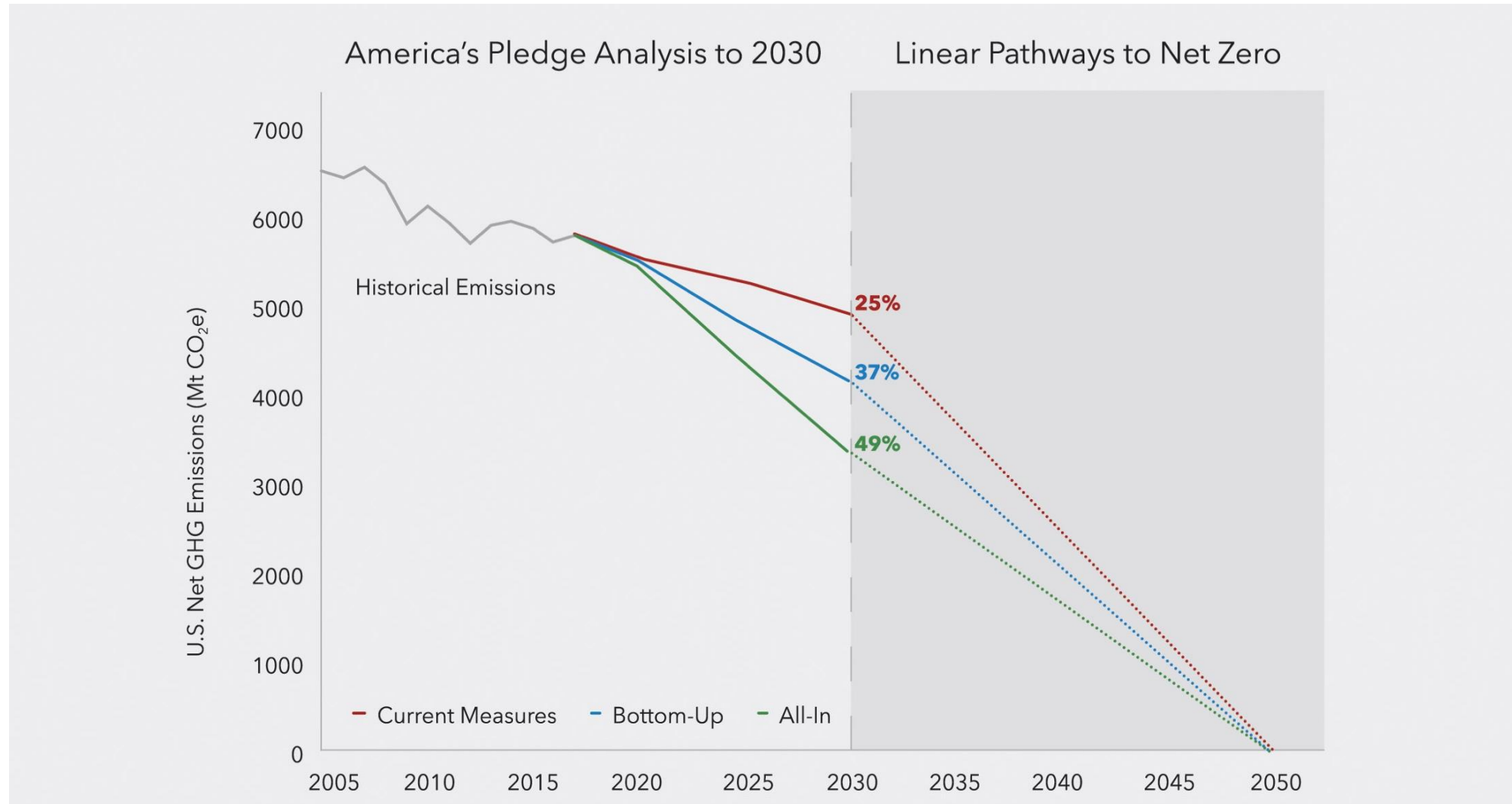
United States Climate Alliance States



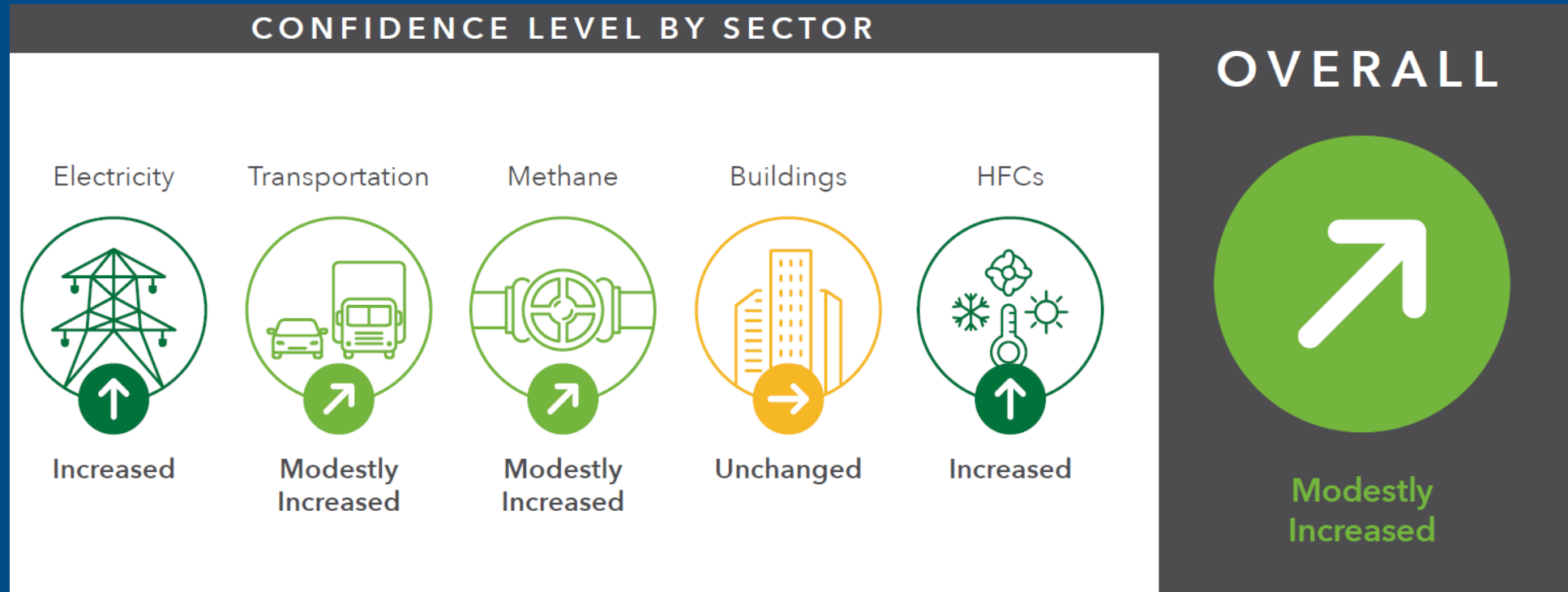
The United States Climate Alliance is a bipartisan coalition of 24 governors committed to reducing greenhouse gas emissions consistent with the goals of the Paris Agreement.



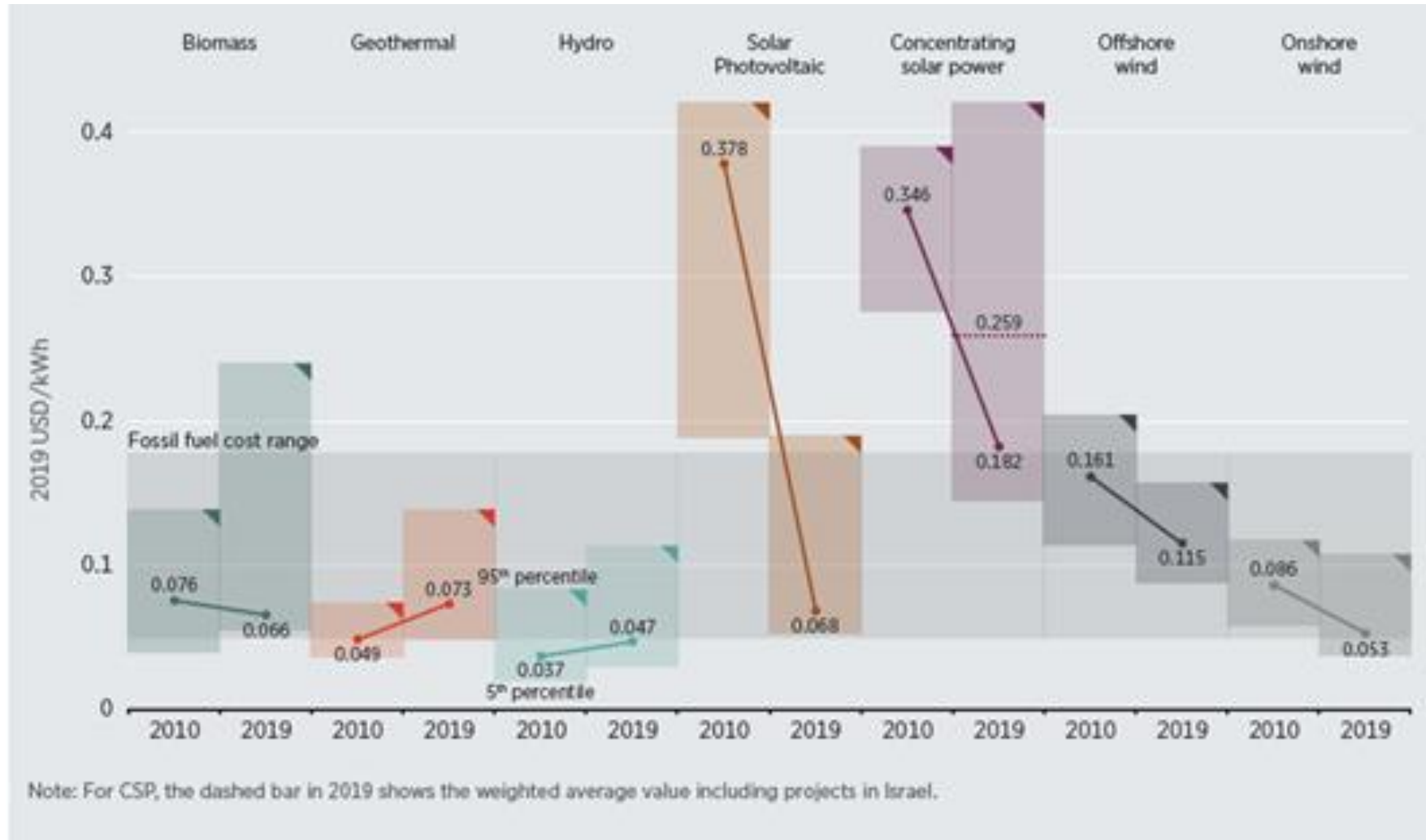
America's Pledge 2019: Assessing Subnational Action



Overall, our assessment modestly increases our confidence in the ability of states, cities, and businesses to deliver on the bottom-up action modeled in our 2019 analysis.



Technology is Rapidly Changing



Global weighted average levelized cost of electricity (LCOE) from utility-scale renewable power generation technologies, 2010 and 2019. (Source: IRENA, 2020, Renewable power generation costs in 2019)



Moving Forward