

SCHOOL OF GLOBAL POLICY AND STRATEGY



Mobilizing Investment for Decarbonization: the new business and policy environments

ALPS SYMPOSIUM

David G. Victor

March 2024

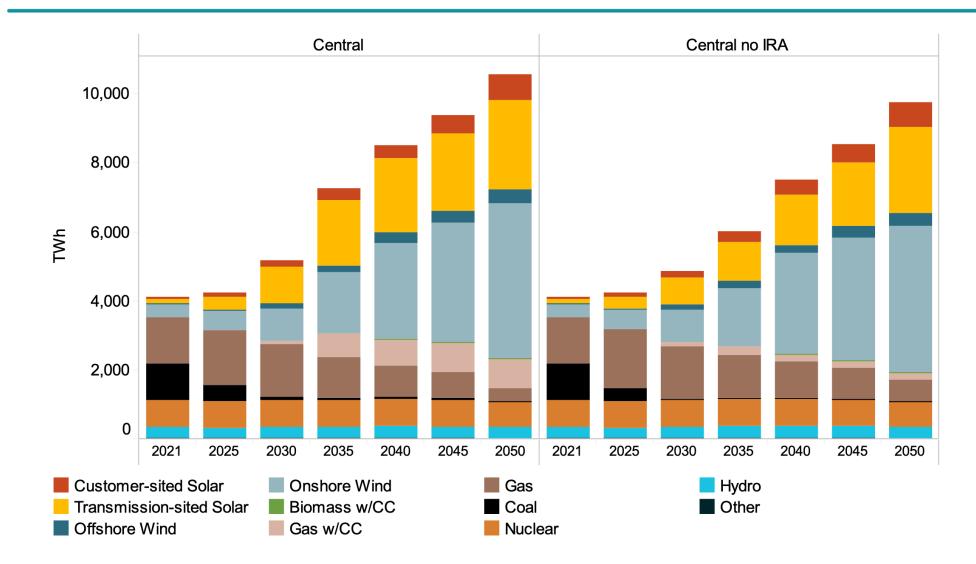




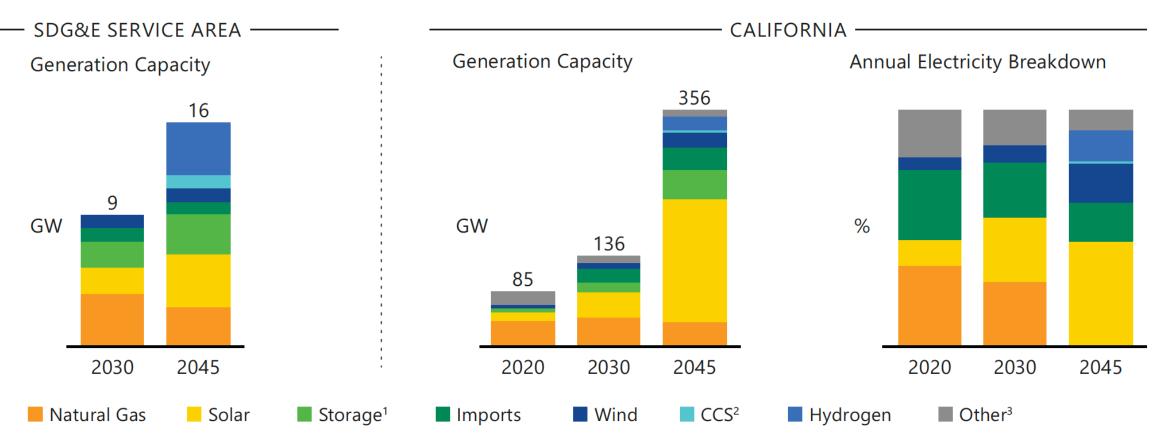
DEEP DECARBONIZATION INITIATIVE

Electricity generation comparison between Central and Central no IRA



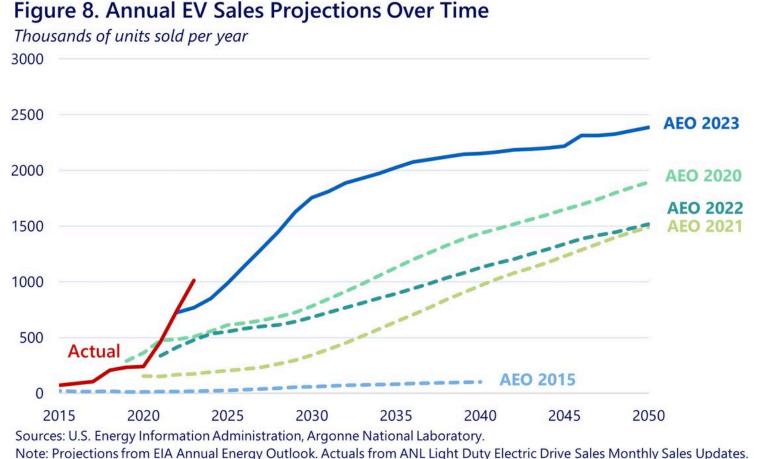


Eliminating Emissions in California



Source: SDG&E "Net Zero" (April '22)

Recent, sharp turn to clean energy in the US

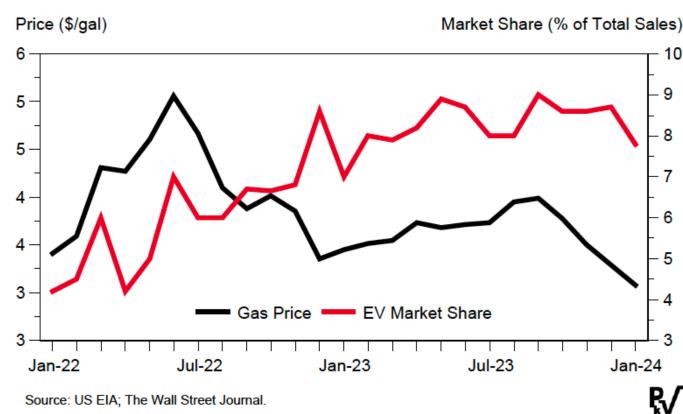


As of December 14, 2023.

Source: Boushey & Gallegos (Dec 19, 2023)

But Competition with Incumbents still matters...

Figure 10 US Market Share of EV Sales vs. Retail Gasoline Price, 2022 to 2024

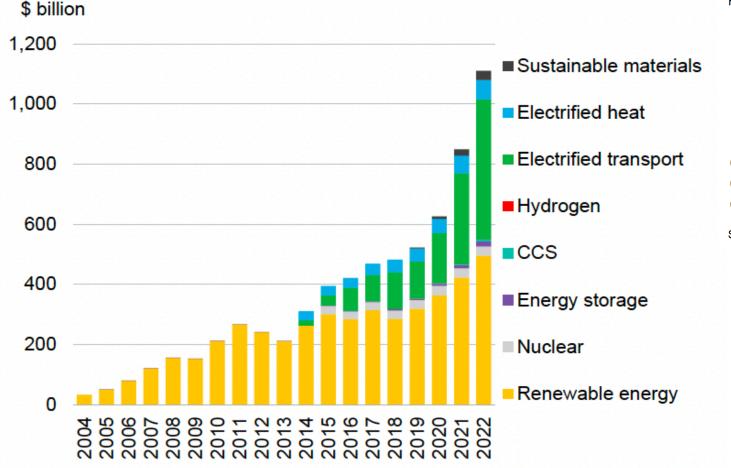


Source: US EIA; The Wall Street Journal.

Source: Verleger (last week)

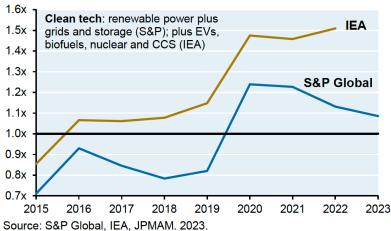
A Huge Boom in Clean Energy Spending

Global energy transition investment by sector



Clean tech spending outpacing fossil fuels

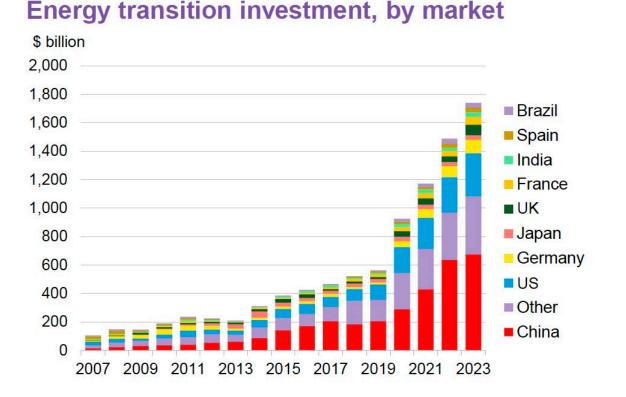
Ratio, clean tech / fossil fuel capital spending by year



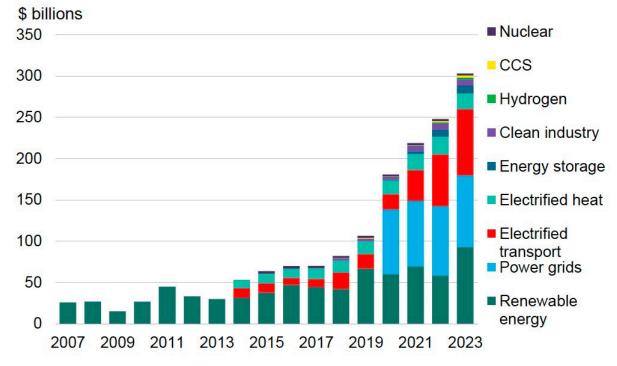
Source: BloombergNEF. Note: start-years differ by sector but all sectors are present from 2019 onward; see Appendix for more detail. Nuclear figures start in 2015.

BNEF Energy Transition Investment Needs 2030 (2023)

Through 2023: Global (left) and US (right) investment



US energy transition investment, by sector



Source: BNEF Sustainable Energy in America (2024)



FOREIGN AFFAIRS

Capitalism's Green Revolution How Private Finance Can Help Decarbonize the Economy

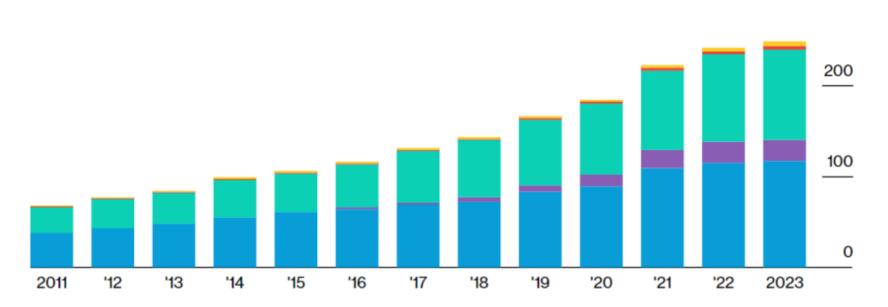
BY KASSIA YANOSEK AND DAVID G. VICTOR November 29, 2023

Are sustainable finance policies saturating?

Most Sustainable Finance Policies Are Voluntary and That's Problematic

Cumulative number of in-force G-20 sustainable finance policies

Mandates/regulations Roadmaps Voluntary standards Government-industry partnerships Other technical resources



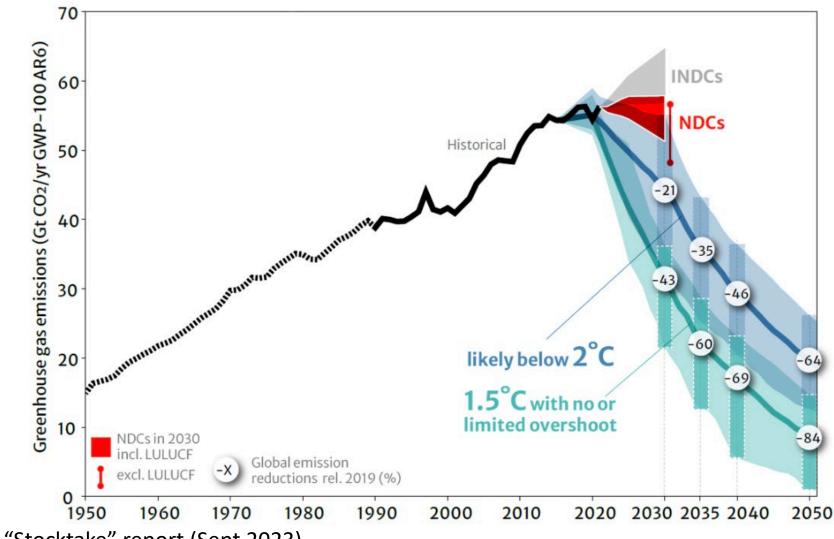
Source: BloombergNEF's Policy Navigator. Note: Figure comprises EU and national policies. 2023 data is up to 1H 2023.

BloombergNEF

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The World is Making Progress, but only if measured in the right ways

According to UN Metrics we are failing... ...to stop warming at 1.5°C or 2.0°C

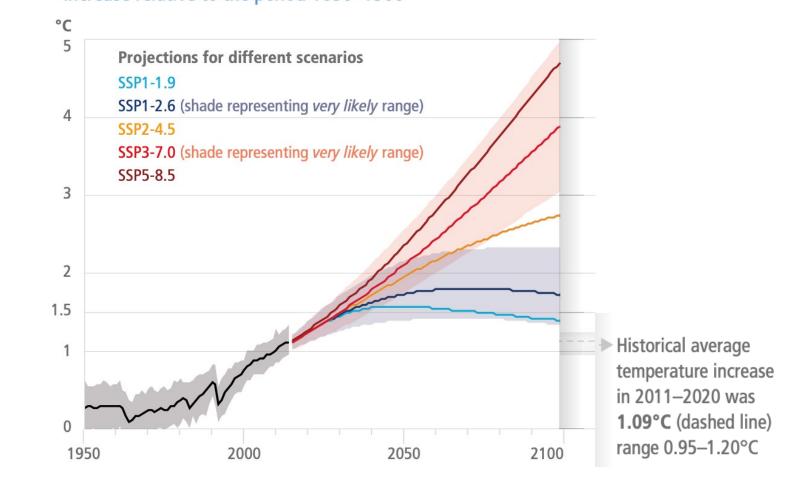


Source: UNFCCC "Stocktake" report (Sept 2023)

Progress: Our Warming Trajectory could be a lot

worse

(a) Global surface temperature change Increase relative to the period 1850–1900



Source: IPCC Sixth Assessment Report (2022)

Why Progress? A New Theory of Change

- Old, ineffective ideas for how to fix the climate are finally "dead"
- New Ideas: International cooperation emerges through collaboration
 - Central roles for business
 - "Experimentalist" strategies that take uncertainty seriously
- First movers in business and finance are creating new "facts on the ground"
- Also known as "pledge and review," which was a Japanese idea dating to the early 1990s

