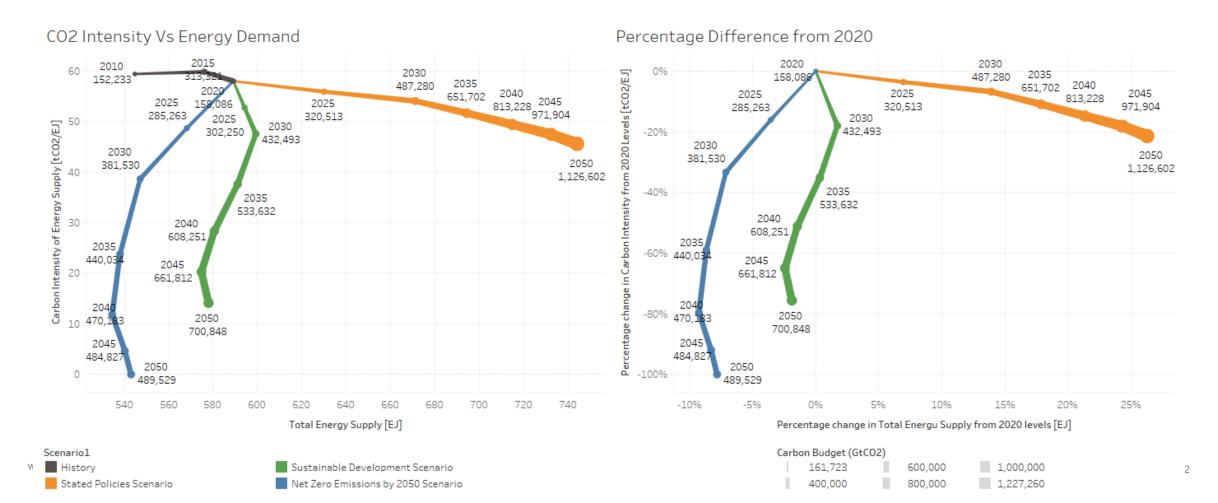


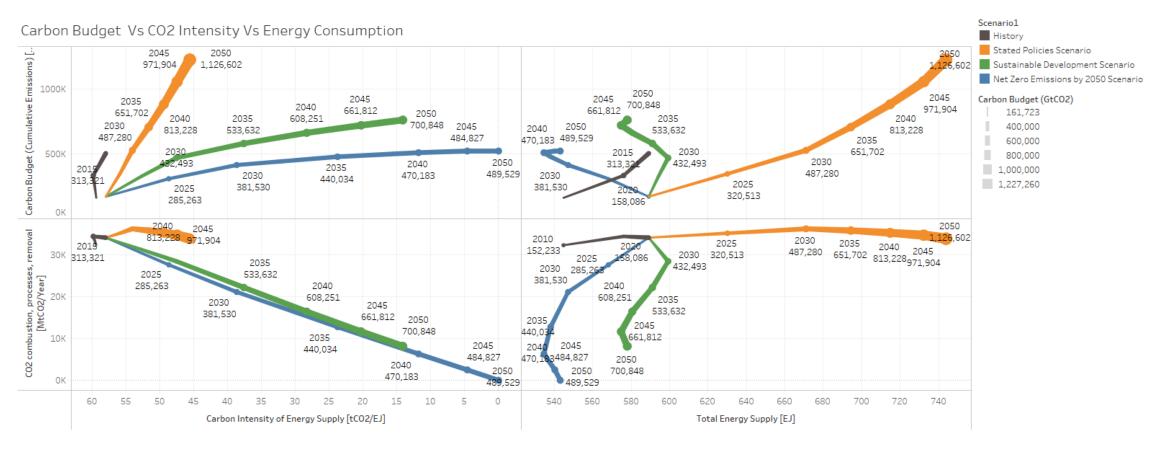
IEA drivers of scenario outcomes

It is important to understand drivers of model outcomes and emergent properties of energy system dynamics e.g.
Is Energy demand intensity to GDP an input or an output?



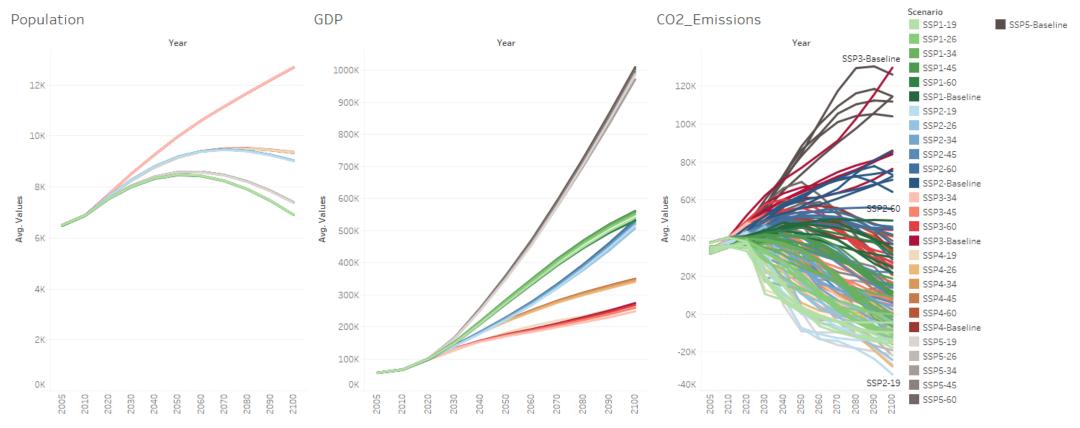
IEA drivers of scenario outcomes

It is important to understand drivers of model outcomes and emergent properties of energy system dynamics e.g. Energy demand intensity?



Shared-Socioeconomic Pathways

IPCC Working Group 1,2 & 3 coordinate their input assumptions by using the Shared Socio-economic Pathways (SSP) Narratives (SSPx-RCPx) Data Source: https://tntcat.iiasa.ac.at/SspDb/dsd?Action=htmlpage&page=10



IEA Data Sources - WBIG

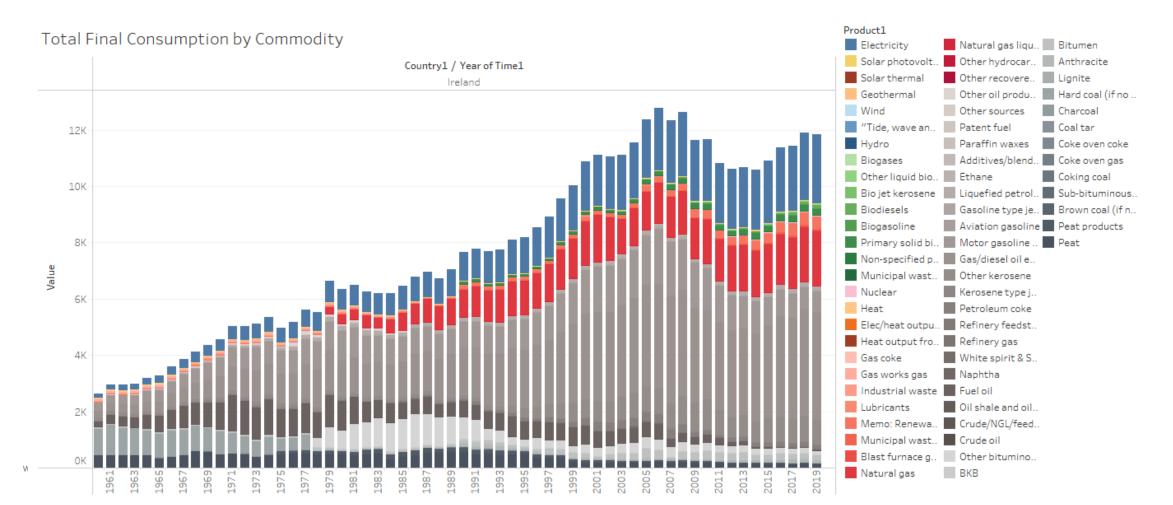
IEA publishes a comprehensive data base of global extended energy balances, that include all energy commodity flows within all NACE economic categories globally for ~147 countries – "WBIG" is the foundation of all global energy system models

IEA NATIVE



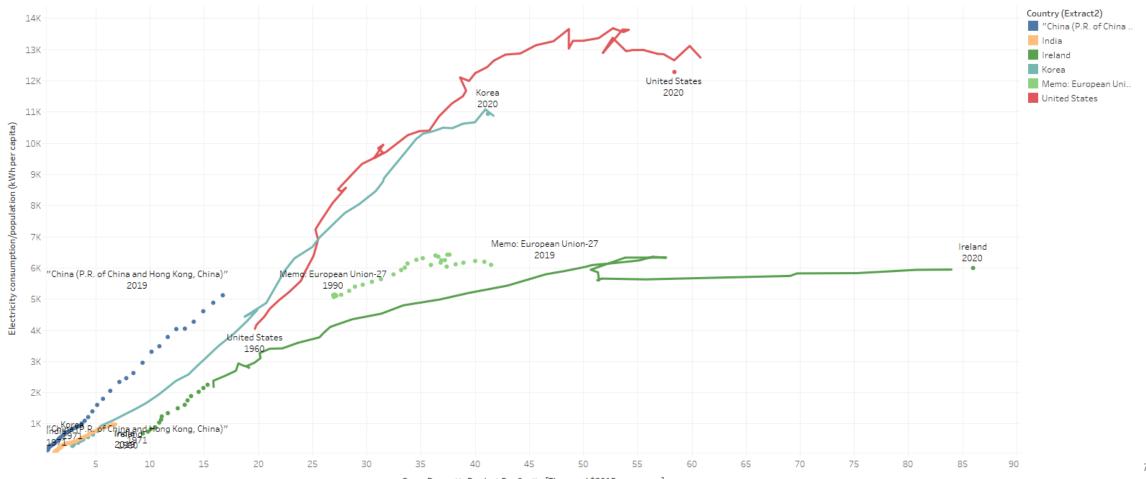
IEA Data Sources - WBIG

IEA publishes a comprehensive data base of global extended energy balances, that include all energy commodity flows within all NACE economic categories globally for ~147 countries – "WBIG" is the foundation of all global energy system models



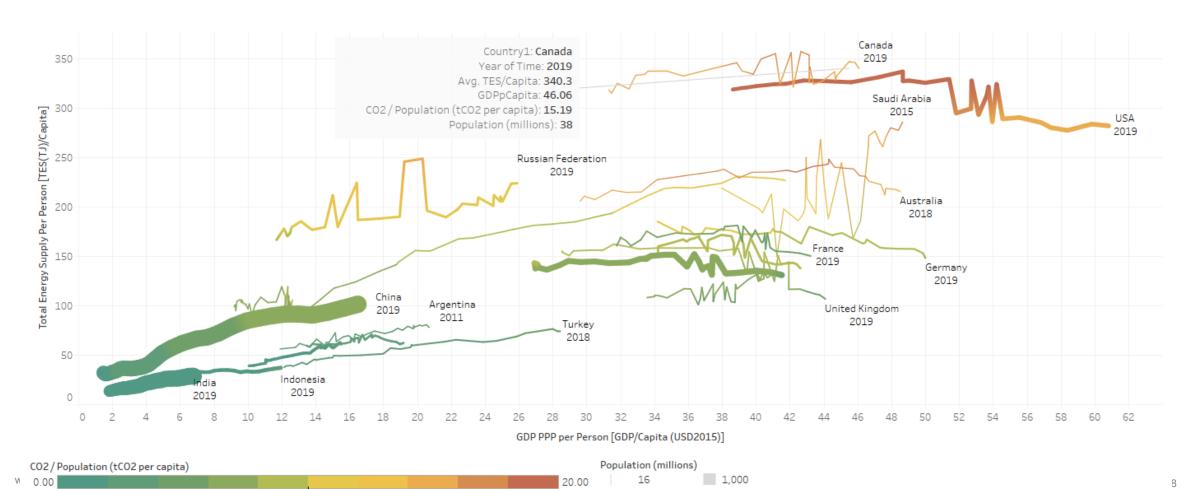
IEA Data Sources WBIG, WIND

More recently in the last 5 years or so IEA has put significant effort in also publishing harmonized macroeconomic, environmental and demographic data indicators for all regions on an annual basis



IEA Data Sources WBIG + WIND

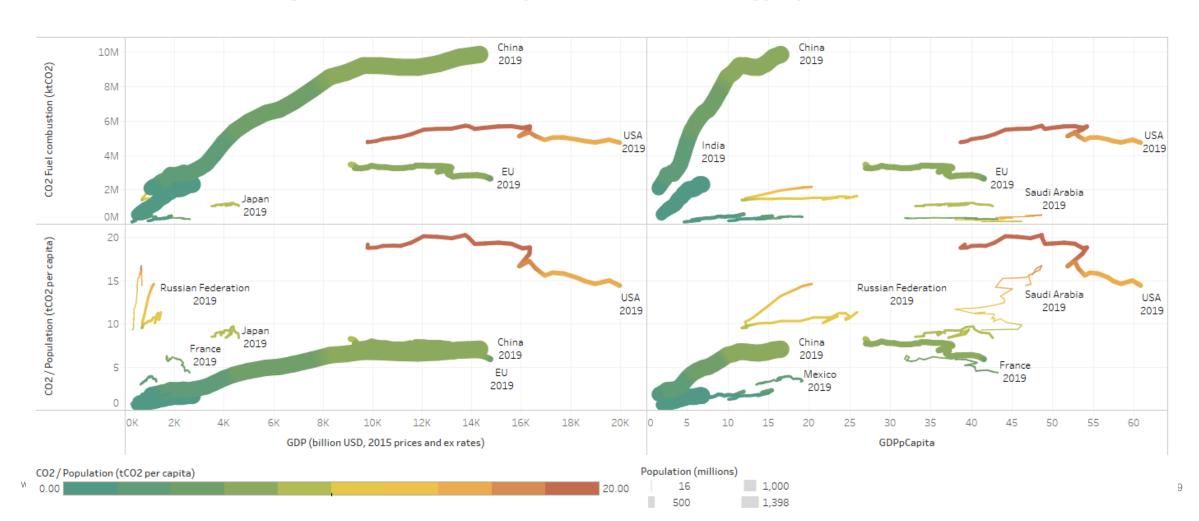
Linking the IEA WBIG and WIND databases by harmonized region names enables quick insights into historical dynamics of the energy system.



1,398

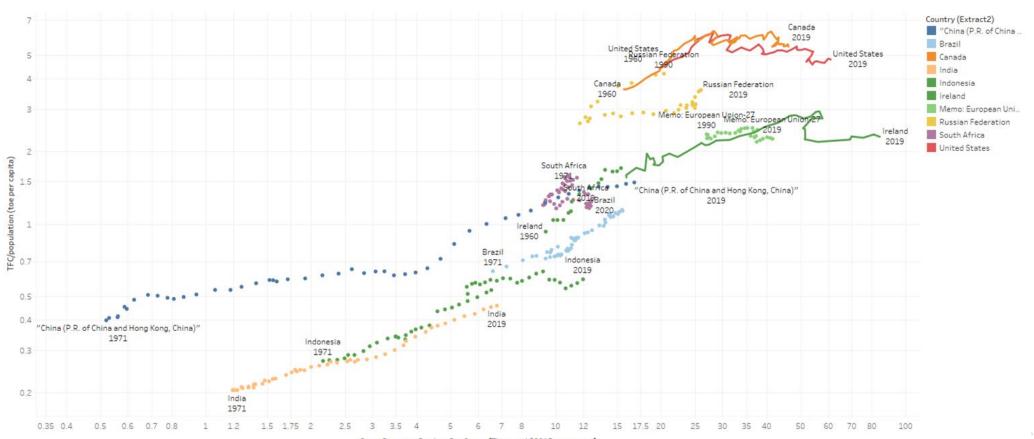
IEA Data Sources WBIG + WIND

Linking the IEA WBIG and WIND databases by harmonized region names enables quick insights into historical dynamics of the energy system.



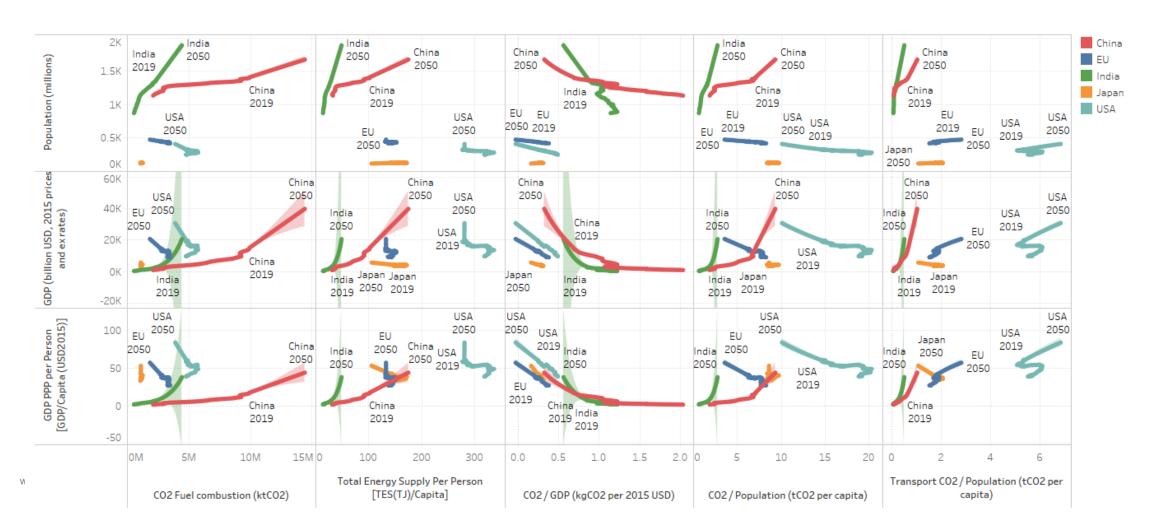
Reminder – Energy access, Income, and Wellbeing go hand in hand

Total final energy consumption per capita (toe/capita) vs GDP per capita, 1960-2000



ML Extrapolation of IEA drivers

It is important to understand drivers of model outcomes and emergent properties of energy system dynamics e.g. Energy demand intensity?

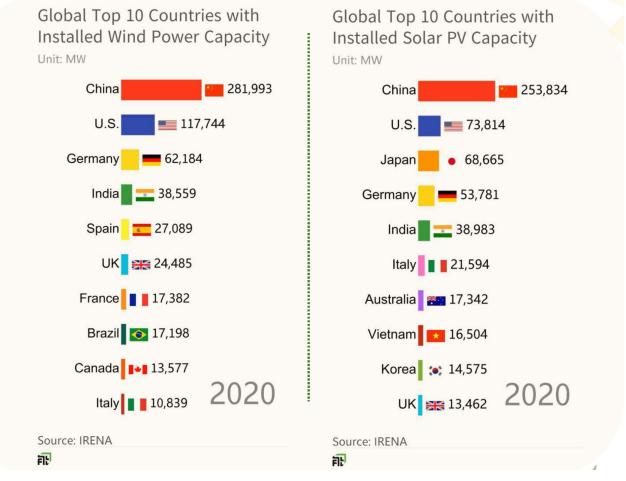


THANK YOU!



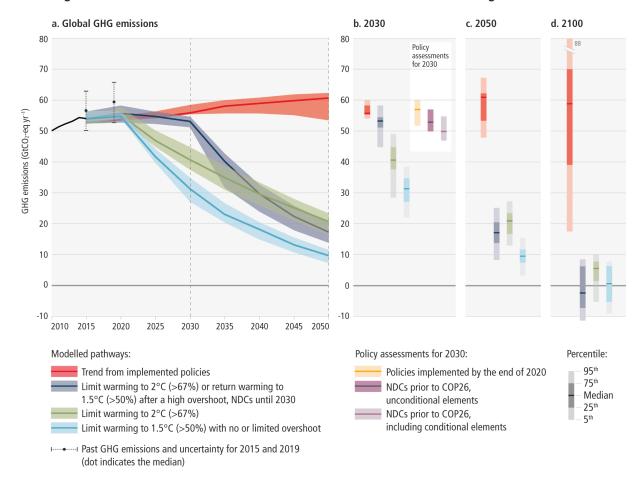
Wind and Solar Installed Capacity

China far out paces all other countries in cumulative installed capacity and recent rate of new capacity installation



IPCC 6th Assessment Report Decarbonisation Pathways

Projected global GHG emissions from NDCs announced prior to COP26 would make it likely that warming will exceed 1.5°C and also make it harder after 2030 to limit warming to below 2°C.



Thank You

