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- Member of the Chamber of Deputies (2015-2019)
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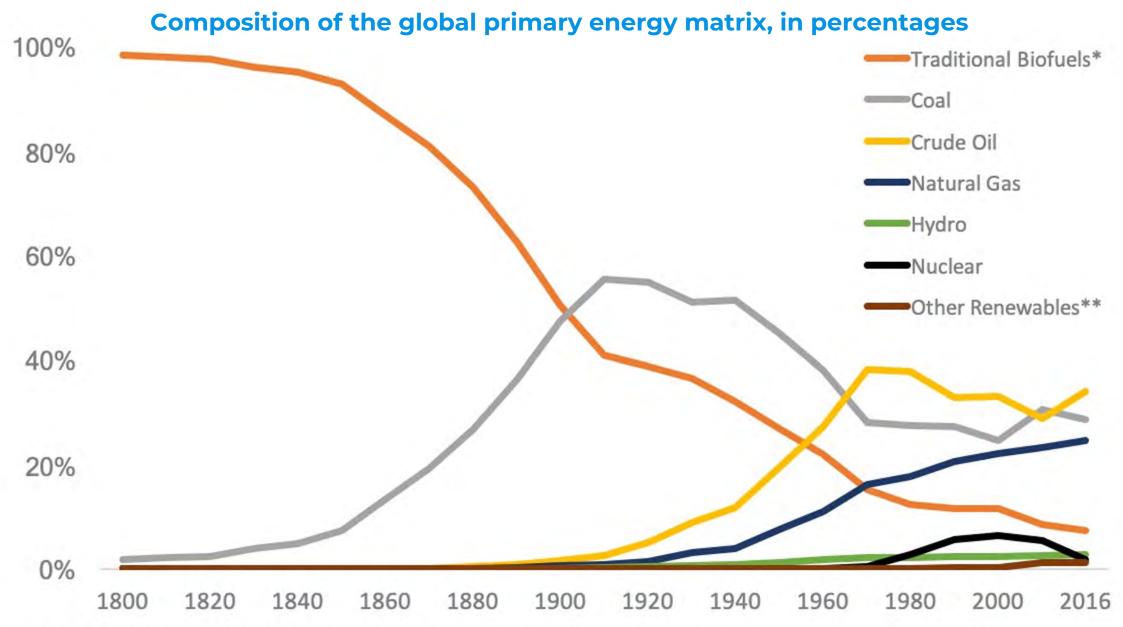
The transition - occurs, or is created?

You are here

What will the pattern be in the next few years?

Decarbonized economy

Fossil fuel economy

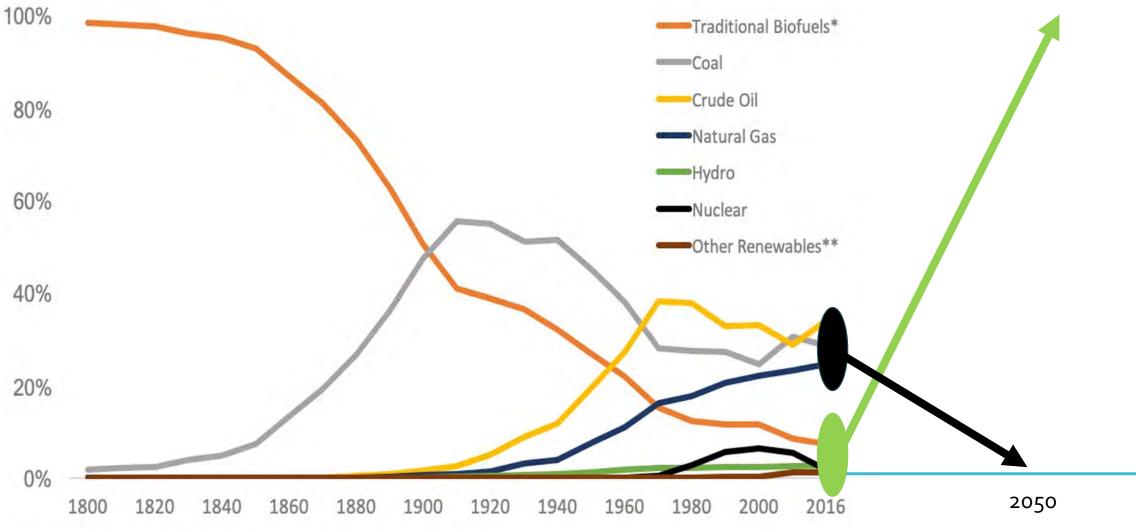


Data Source: Vaclav Smil (2017), Energy Transitions: Global and National Perspectives

Notes: *Burning wood and other organic matter

^{**}Wind, solar and modern biofuels

Composition of the global primary energy matrix, in percentages



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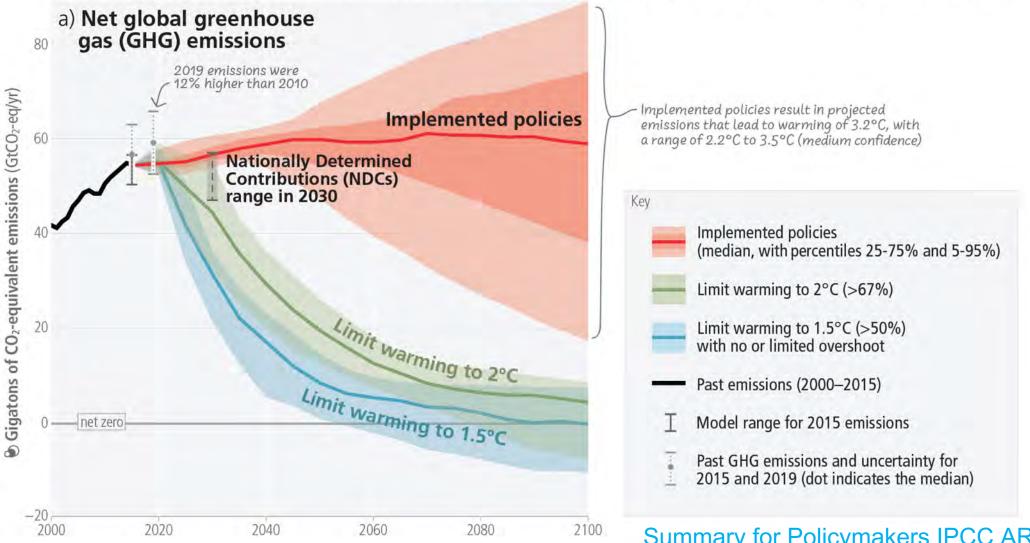
This transition should occur as a result of an environmental externality, climate change.

...stabilization of the concentration of greenhouse gases in the atmosphere at a level that prevents dangerous anthropogenic interference in the climate system... UNFCCC (1992)

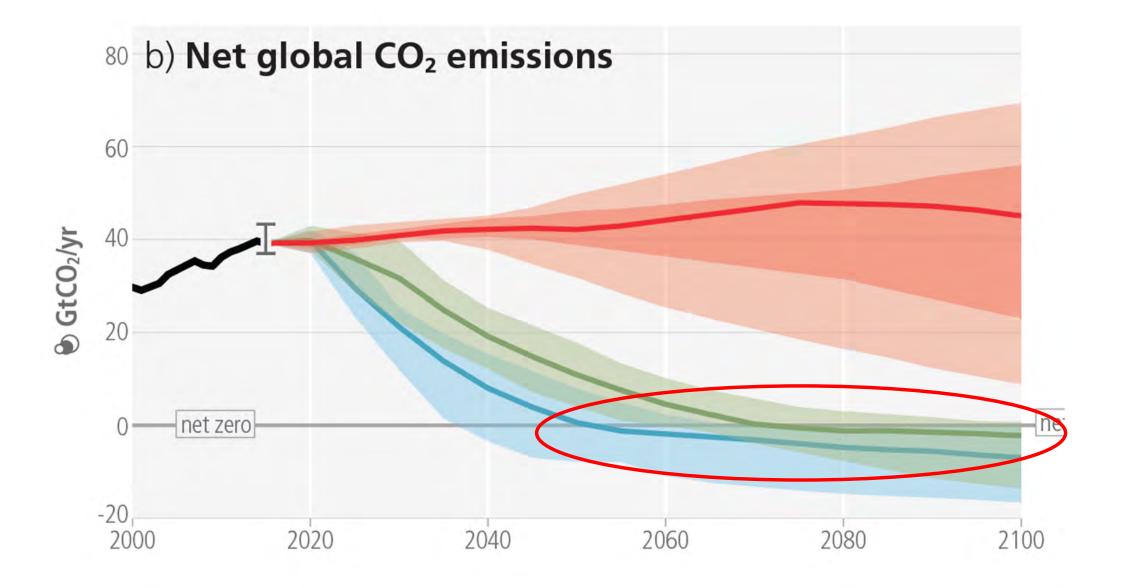


Limiting warming to 1.5°C and 2°C involves rapid, deep and in most cases immediate greenhouse gas emission reductions

Net zero CO₂ and net zero GHG emissions can be achieved through strong reductions across all sectors



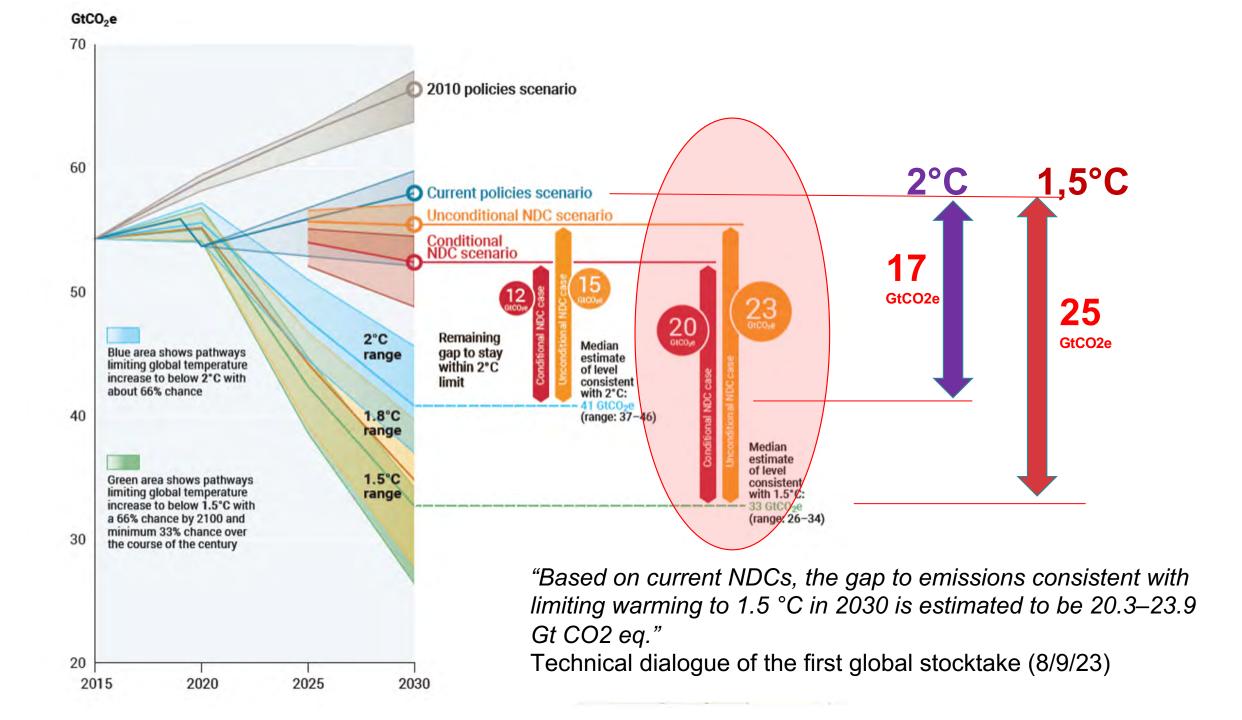
Summary for Policymakers IPCC AR6 SYR Marzo 2023



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We have *less than 30* years to end the "era of petroleum"





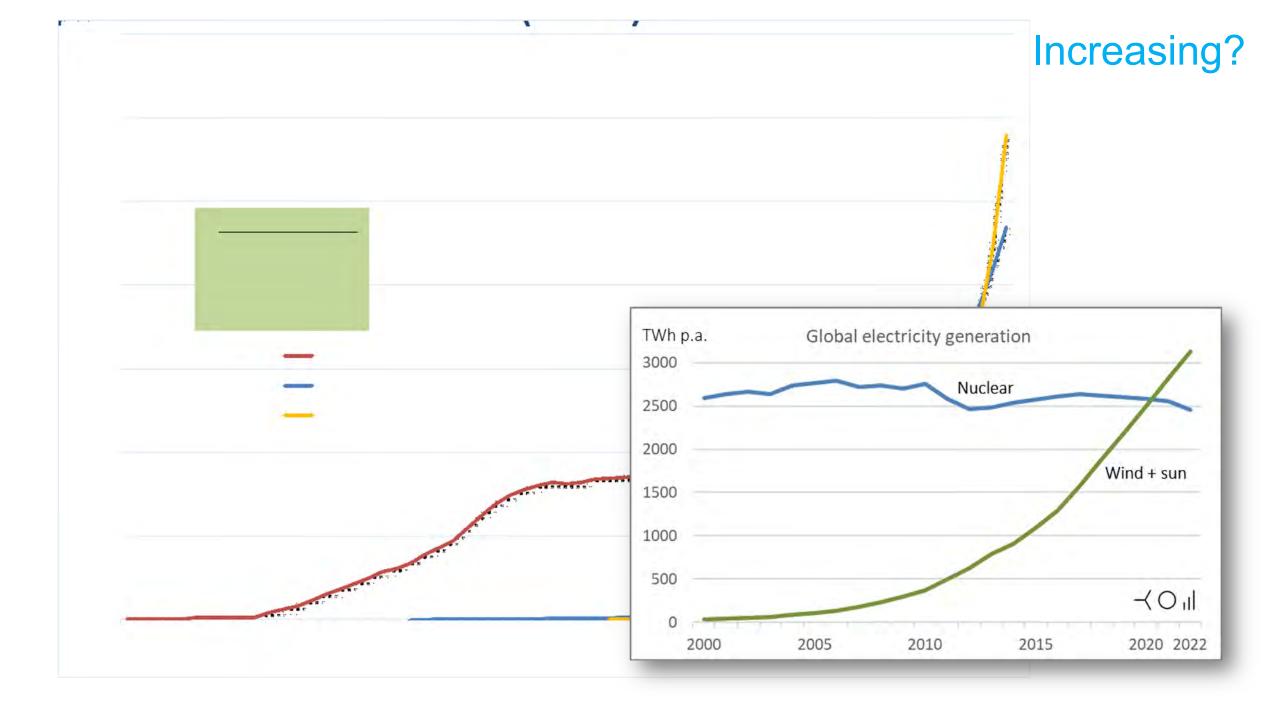
European Union (2020)	2.96 GtCO2e
United States (2020)	5.3 GtCO2e
China (2020)	12.3 GtCO2e
TOTAL	20.6 GtCO2e
Latin America and the Caribbean (2020)	3.88 GtCO2e

2°C "gap": 17 GtCO2e

1.5°C "gap": 25 GtCO2e

"Based on current NDCs, the gap to emissions consistent with limiting warming to 1.5 °C in 2030 is estimated to be 20.3–23.9 Gt CO2 eq." Technical dialogue of the first global stocktake (8/9/23)

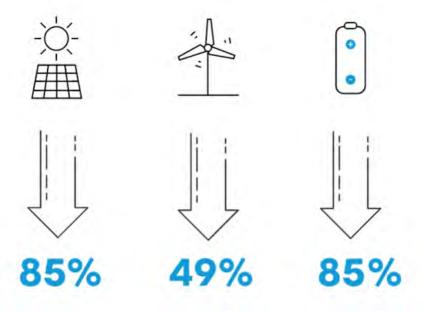
New technologies bring us good news.



"The costs of solar panels, wind turbines and batteries will continue to decline. By 2030, the energy generated and stored by these three technologies will take the place of electricity generated by coal and gas throughout most of the world."

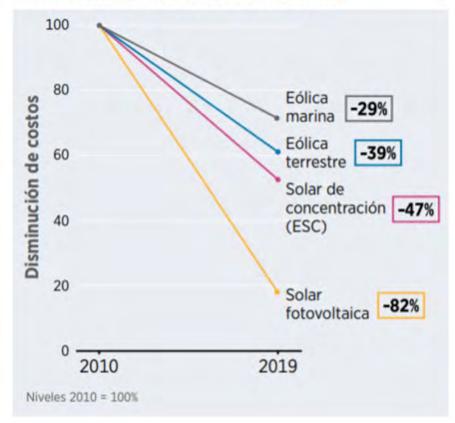
What about the costs?

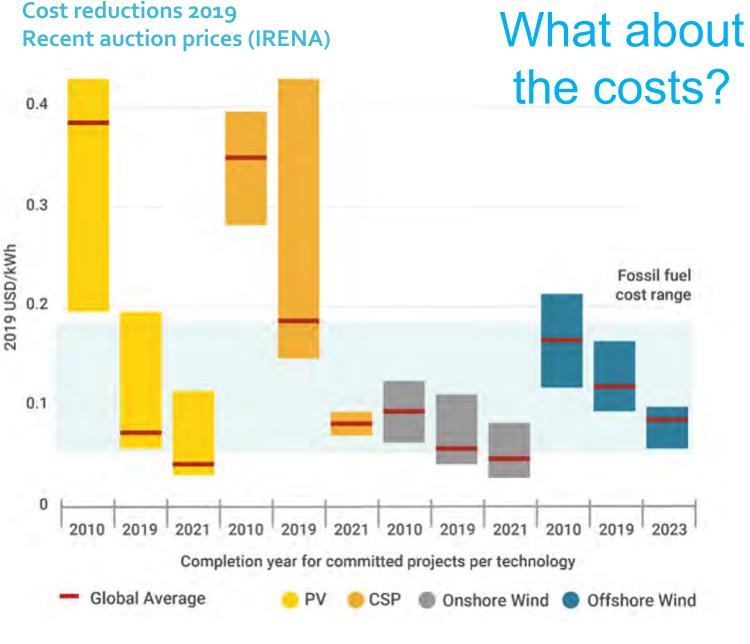
- Matthias Kimmel, NEO lead analyst, 2019

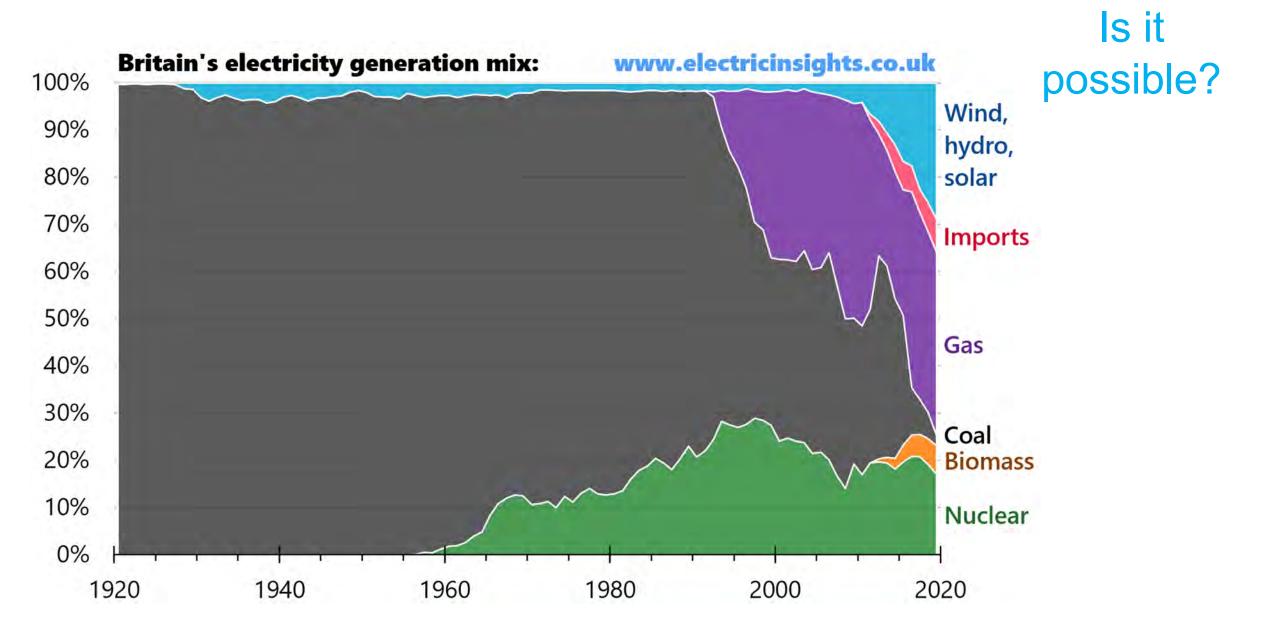


Technology costdeclines since 2010 (Source: BloombergNEF)

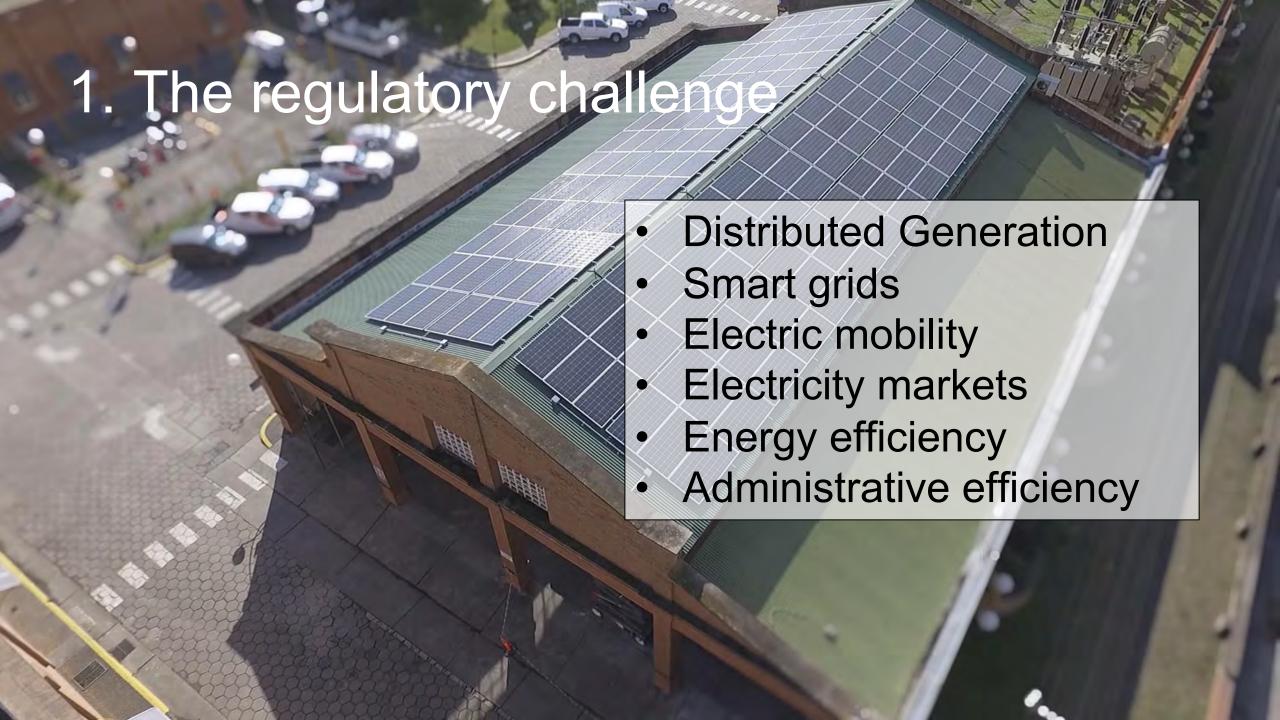
Tecnologías de energía renovable: reducción de los costos desde 2010

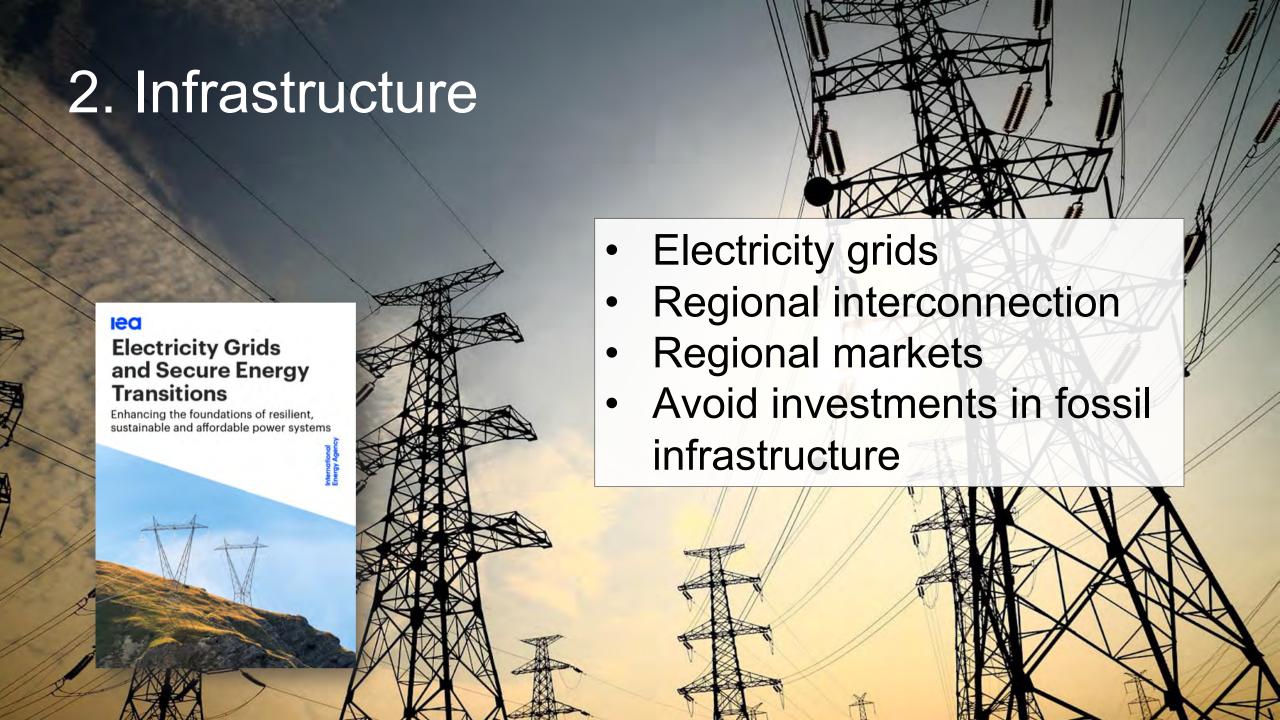


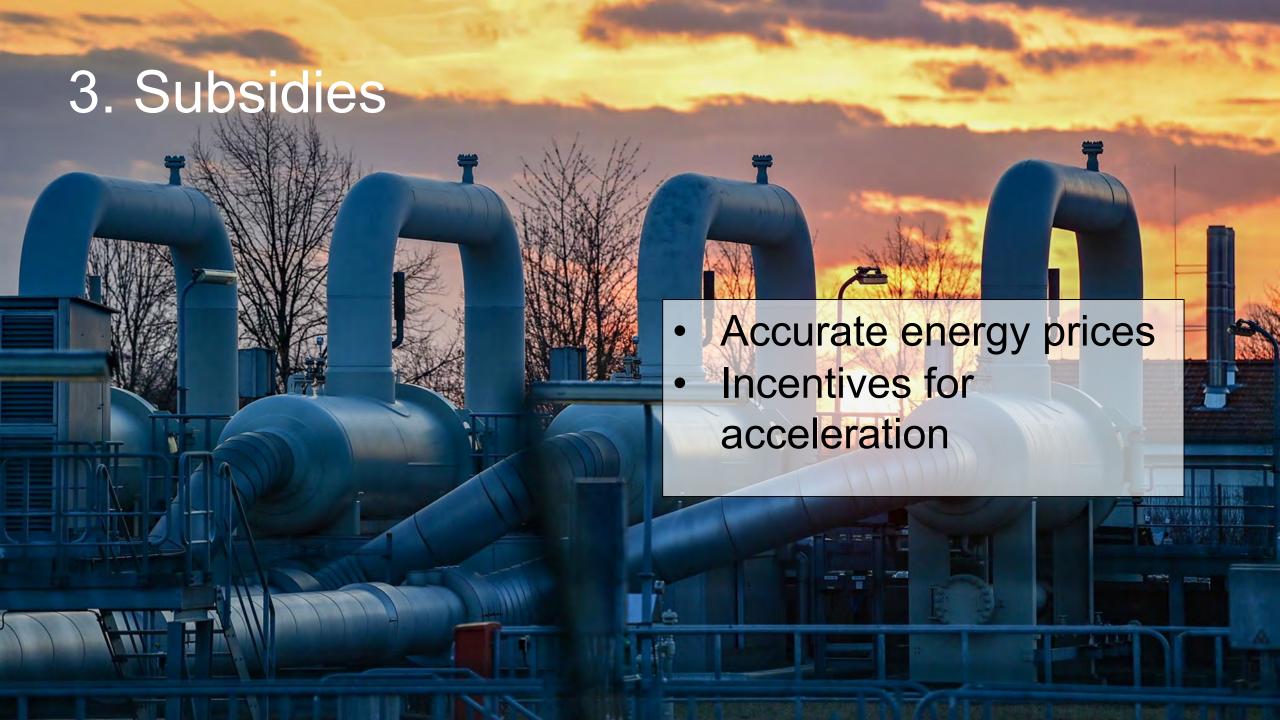




What is our job?







4. Internalize CO2 costs CO2 tax on fossil fuels Emissions markets (cap & trade) International markets that quantify emissions



