



The Israeli Natural Gas
Trade Association

UNECE

10th Session of the Group of Experts on Gas

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The Israeli Natural Gas Trade Association

2022: A Year of Records



Renewable
Energy Record



GHG Emissions
Record

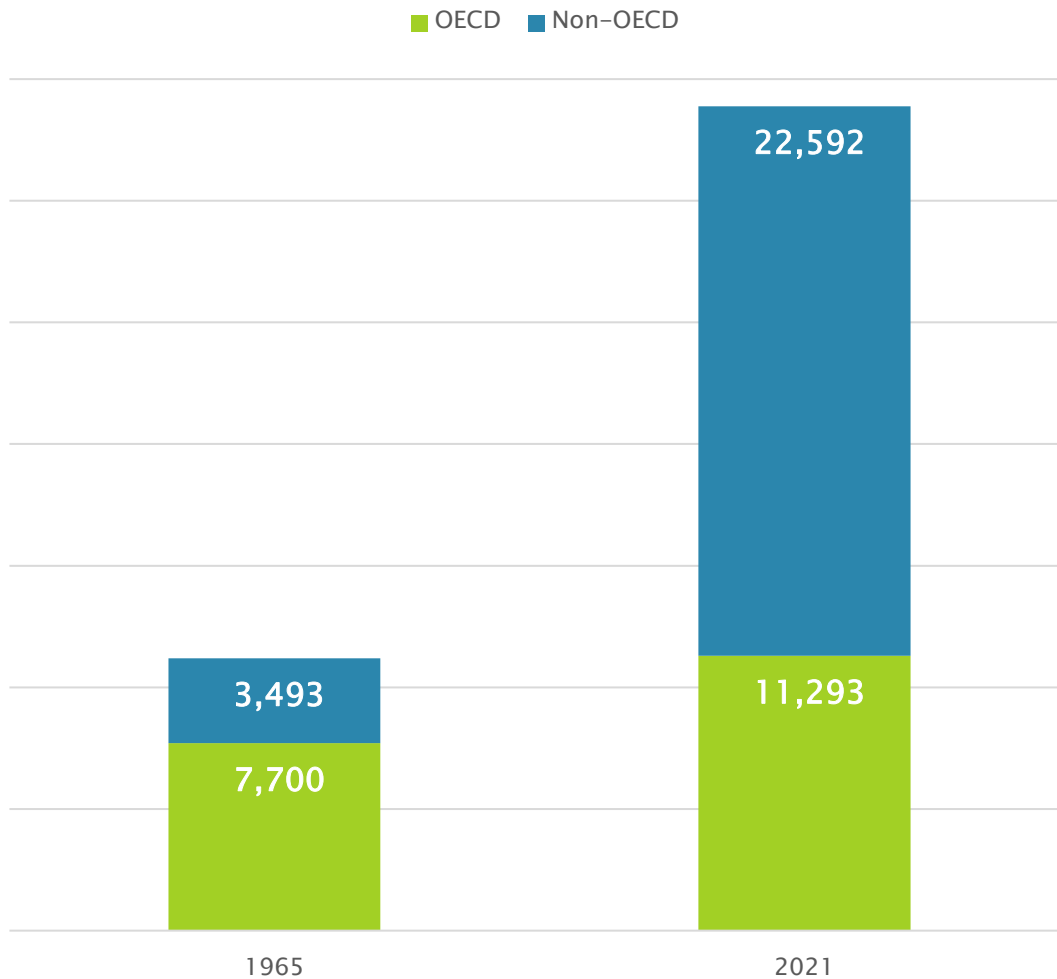


Global Coal Use
Record



Carbon Dioxide Emissions from Energy: OECD VS. Non-OECD

(Million tonnes of carbon dioxide)



1965

- OECD share: 71%

1965-2021

- OECD emissions growth – 50%
- Non-OECD emissions growth – 547%

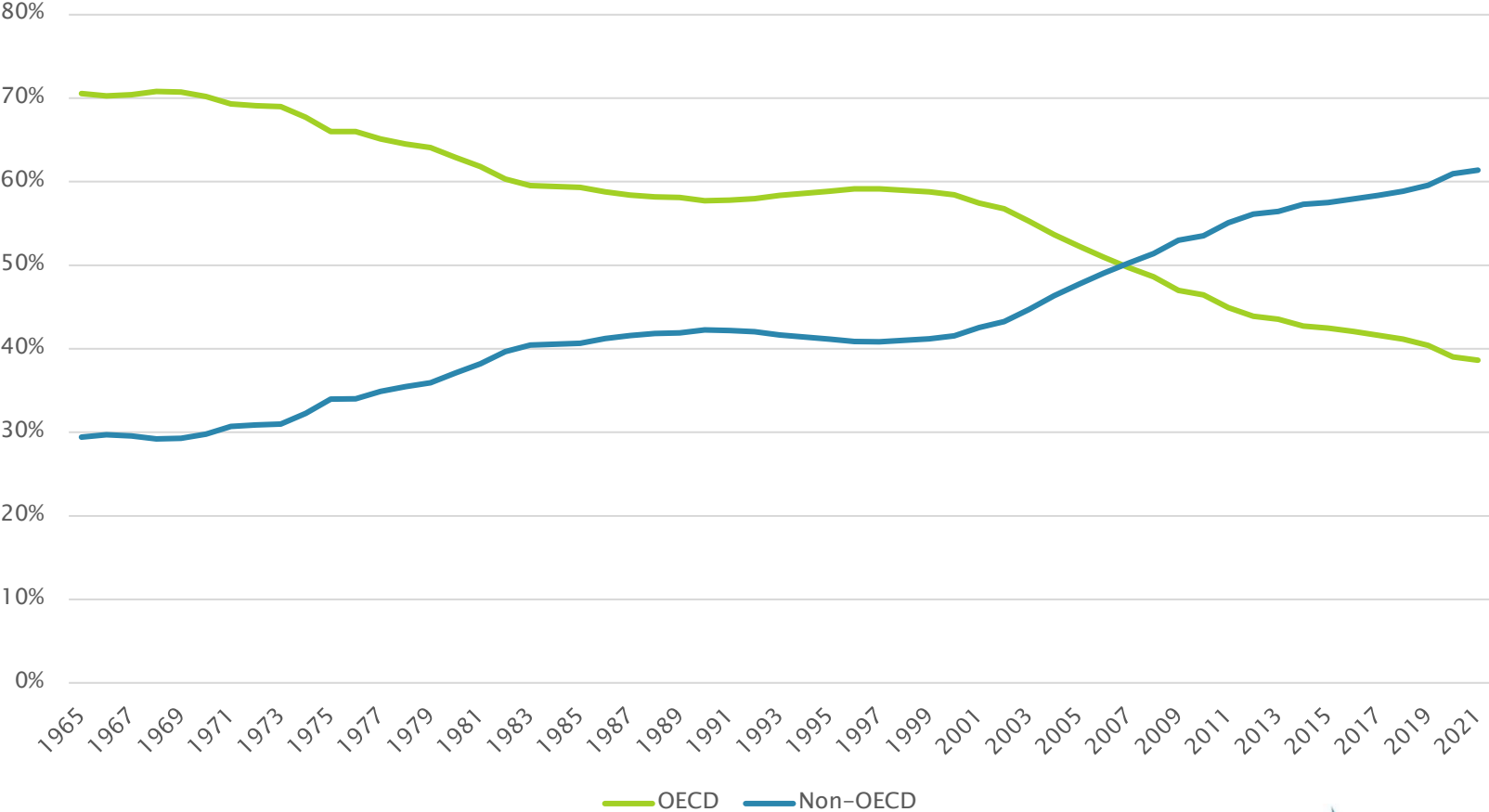
2021

- Non-OECD share – 67%

The picture has turned upside down in just over half a century.



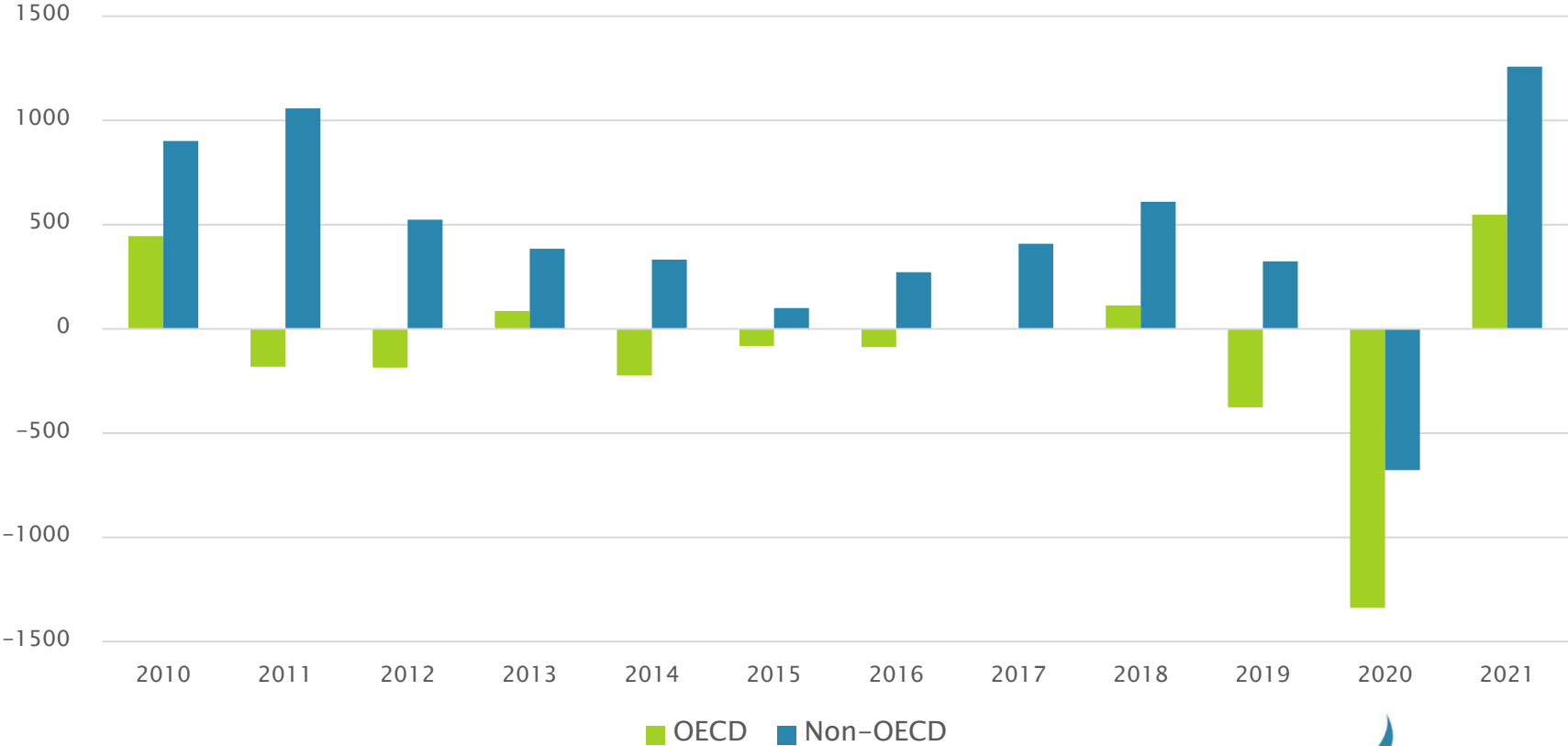
OECD VS Non-OECD: Share in World Energy Consumption



Source: BP

Carbon Dioxide Emissions from Energy: Comparison

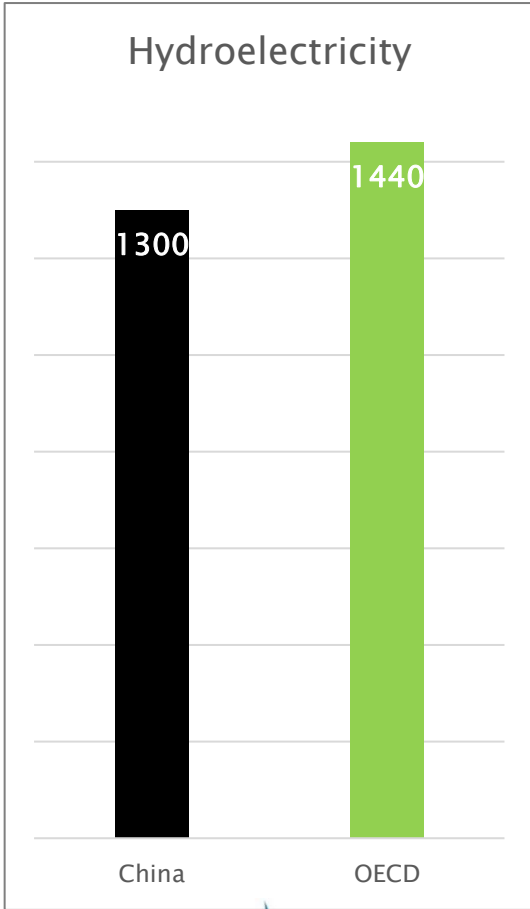
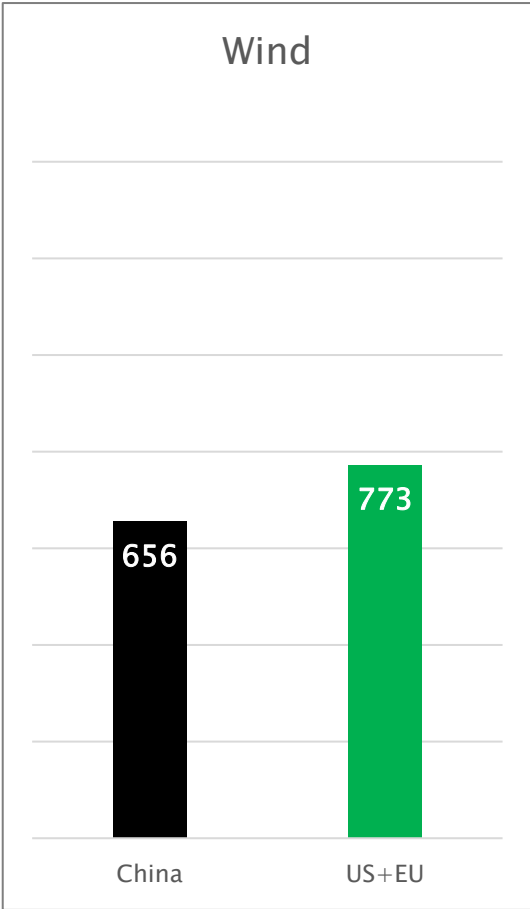
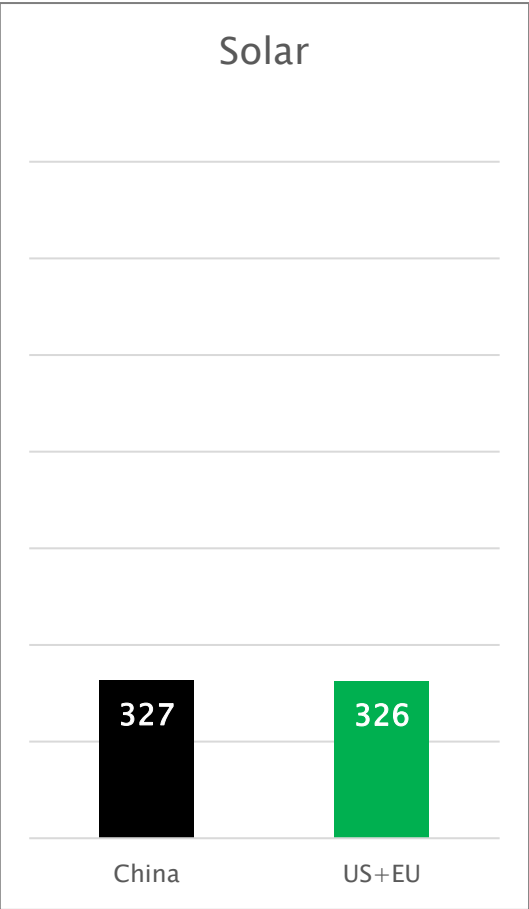
In the last decade, for every ton of CO2 saved in the OECD countries, an additional 4.3 tons of CO2 were emitted in non-OECD countries.



Source: BP

Use of renewables in 2021 - comparison

(THW)



Source: BP



FEDERAL REPUBLIC OF NIGERIA

Ministry of Petroleum Resources

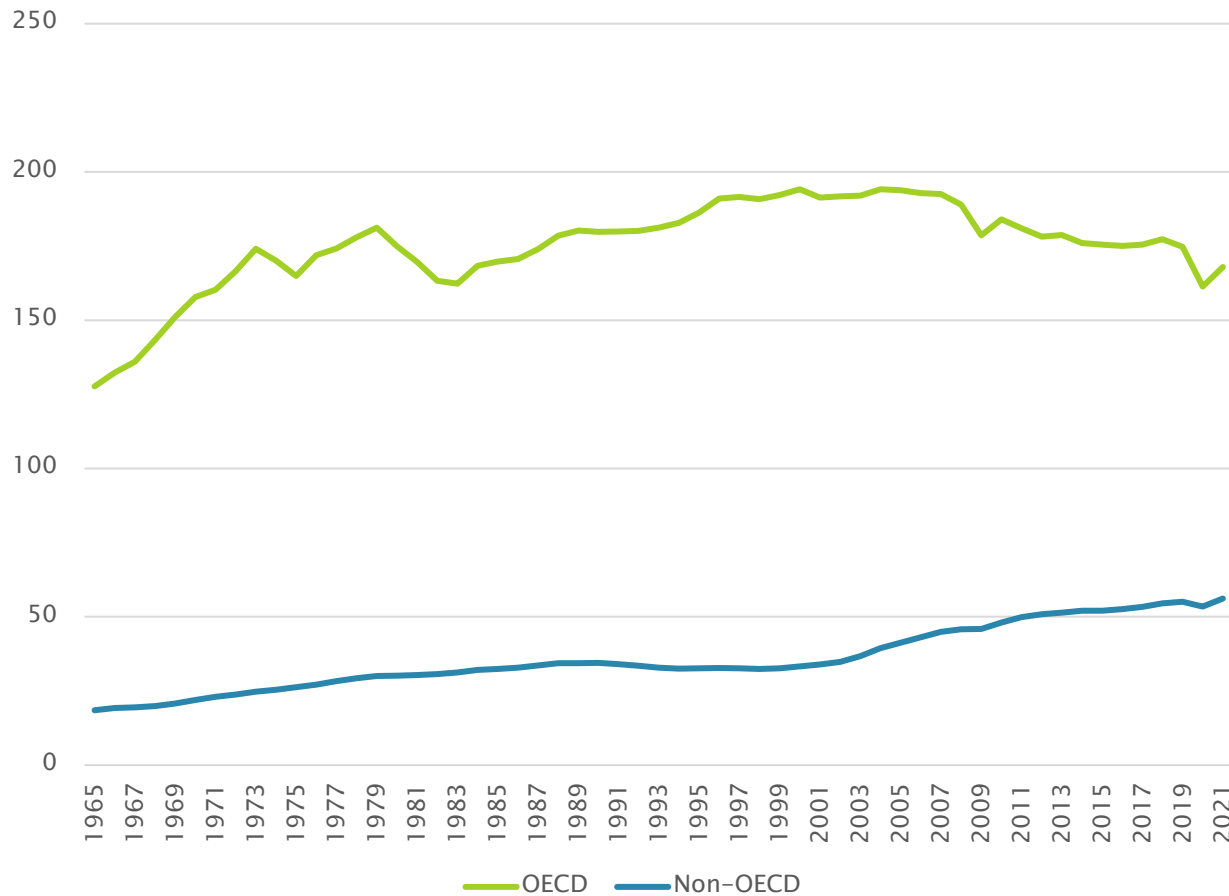
“Approximately 30 million households and more than 100 million Nigerians depend on wood as a source of energy for cooking but this has come with collateral damage to human health, environment and economy of the country. According to WHO, smoke from open fire is Nigeria’s third biggest killer with over 95,000 deaths annually behind Malaria and HIV/AIDS.”

(Ministry of Petroleum Resources, Nigeria)



Primary energy: Consumption per capita: OECD VS Non-OECD

(Gigajoule per capita)



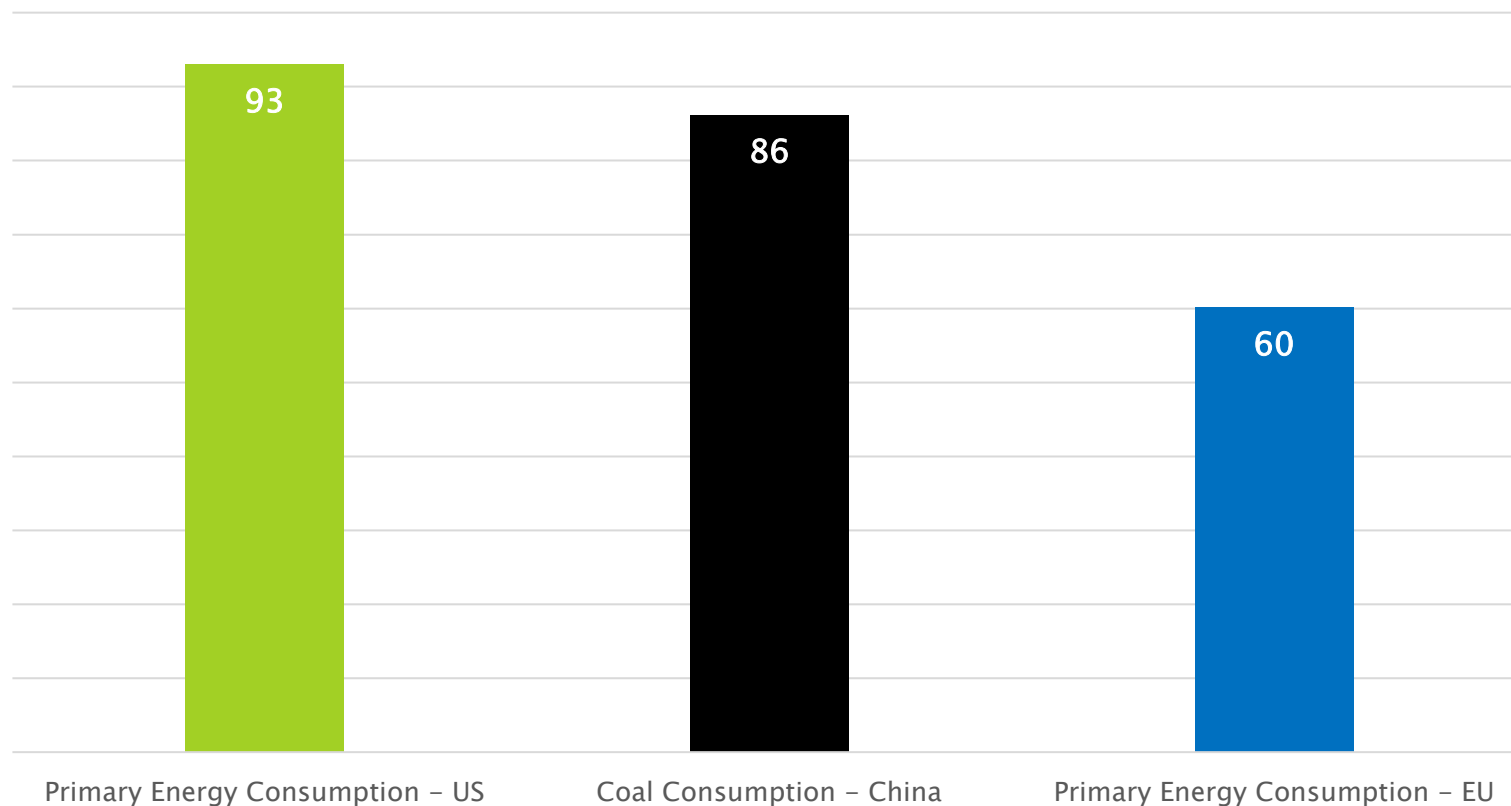
- Energy consumption per capita in OECD countries is three times higher (!) compared to non-OECD countries
- Energy consumption per capita in Germany is 6 times higher (!) than in India

A fundamental energy inequality that is not taken into account among the decision-makers

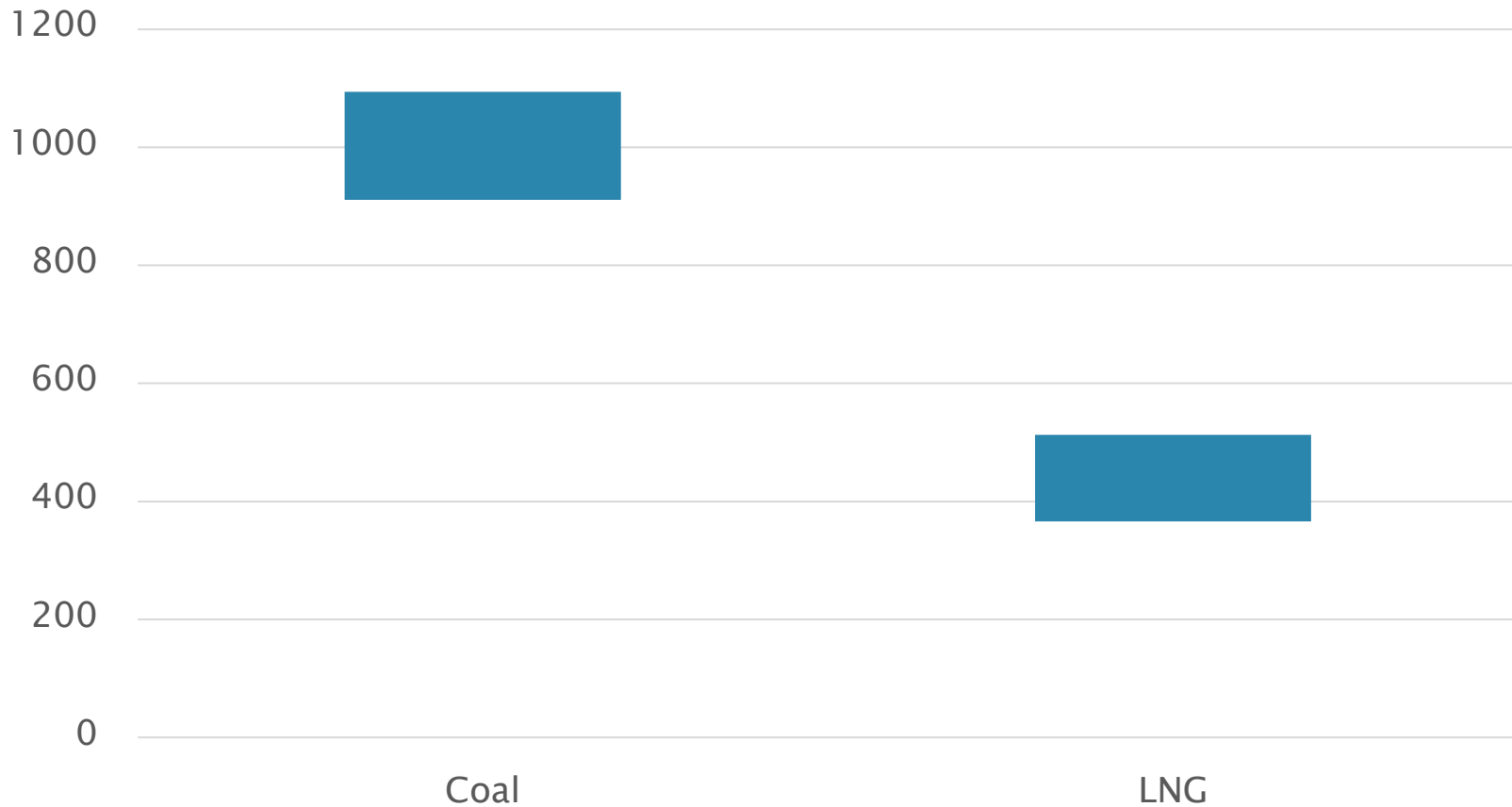


Coal consumption in China is roughly equivalent to the total primary energy consumption of the US

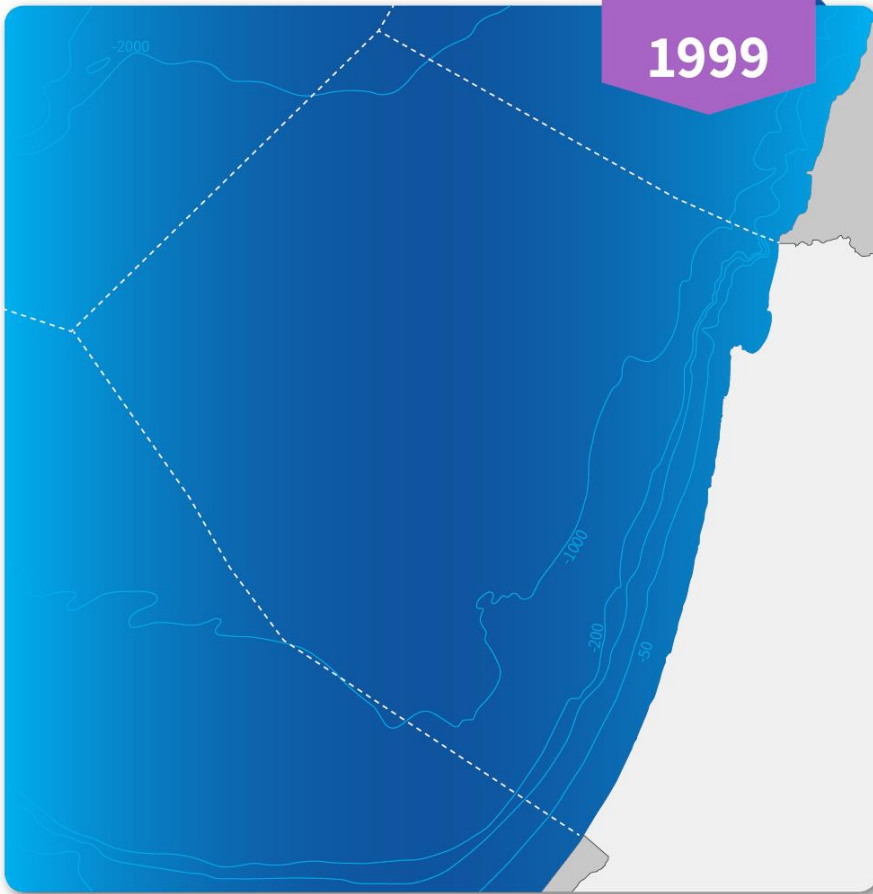
(Exajoules)



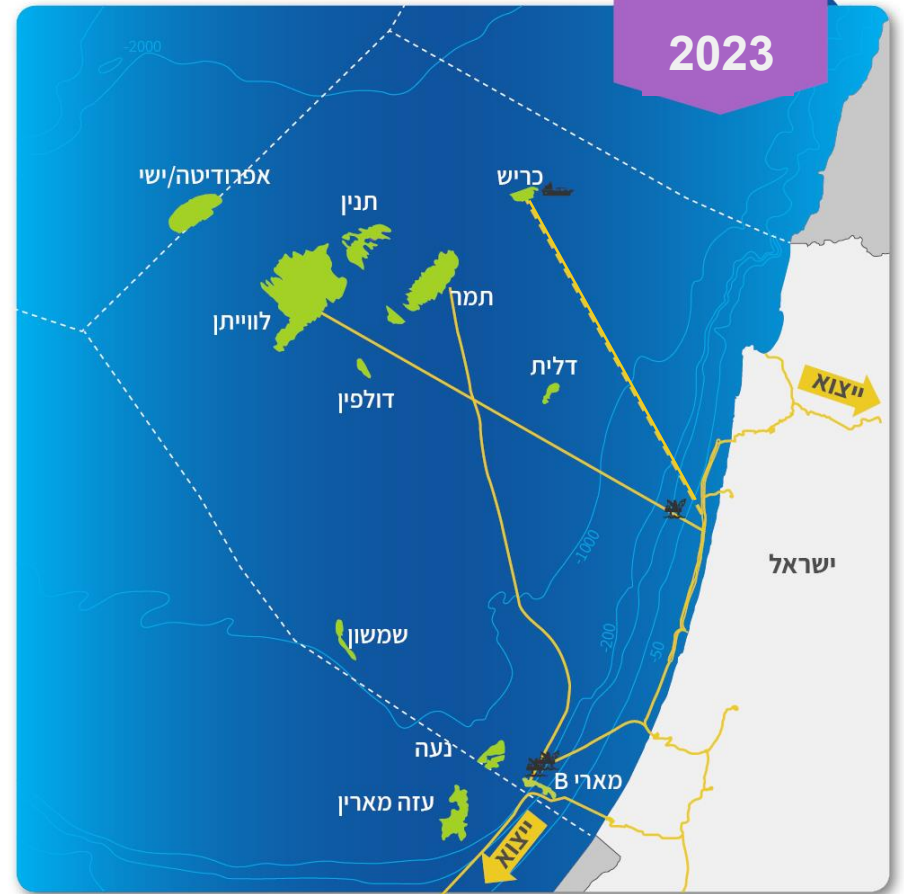
Lifecycle GHG emissions from electricity generation (g CO₂eq/KWh)



1999



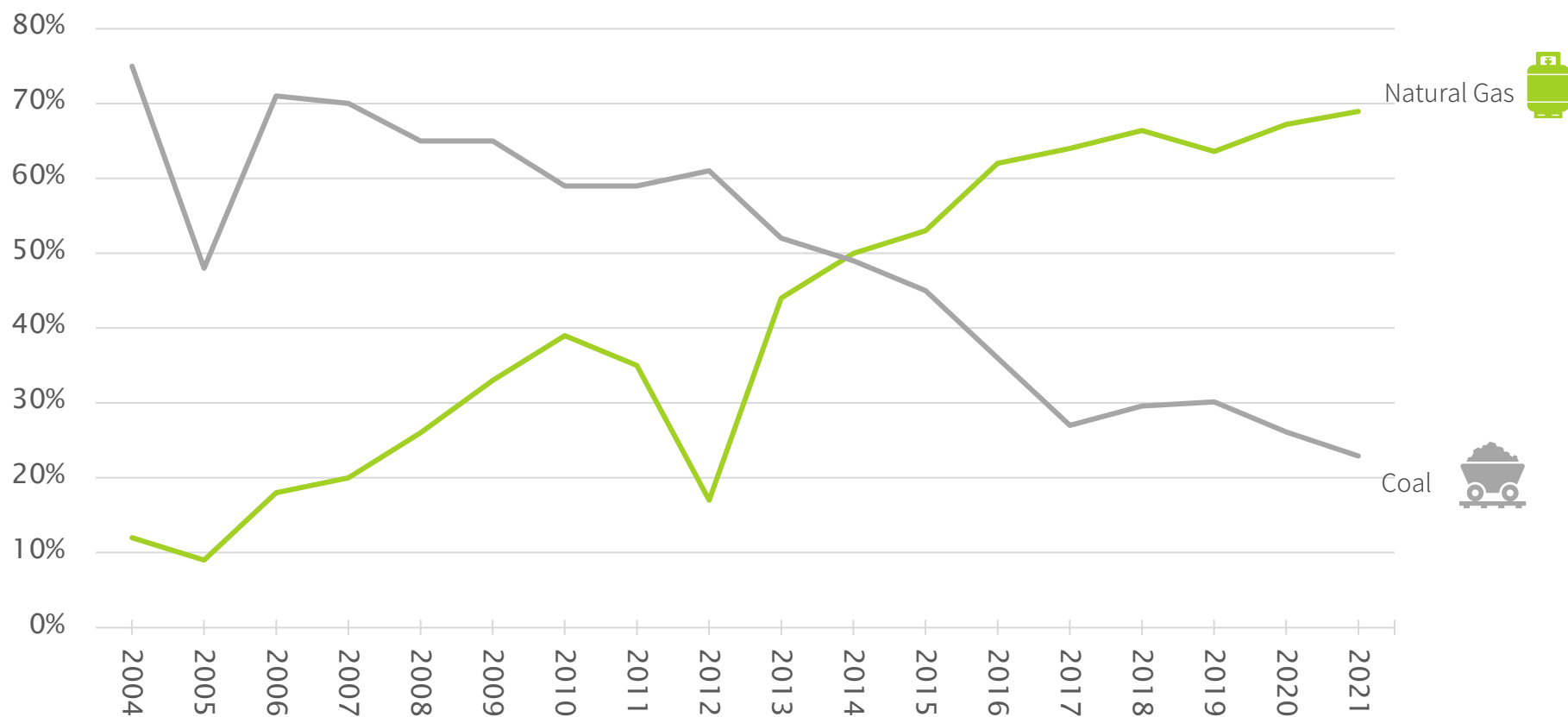
2023



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Natural Gas Share of Power Generation

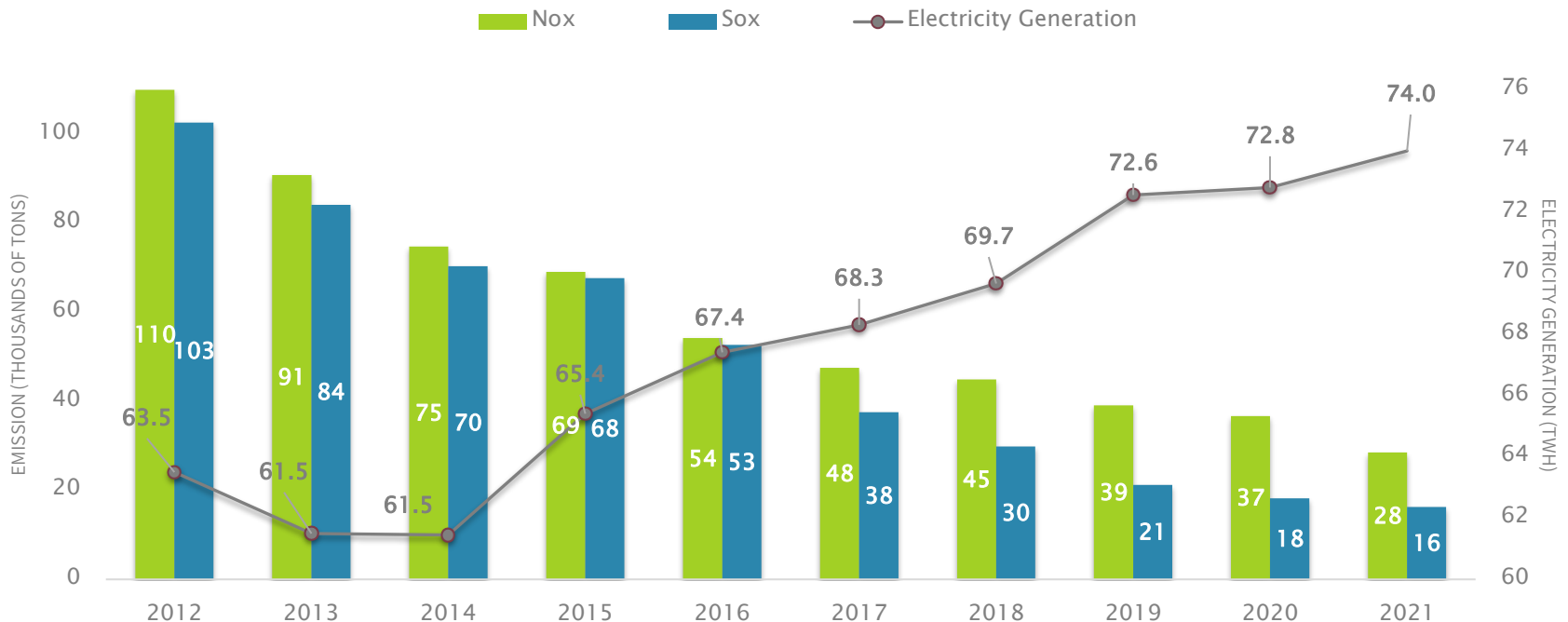
2021: 69%



Source: The Electricity Authority, BDO

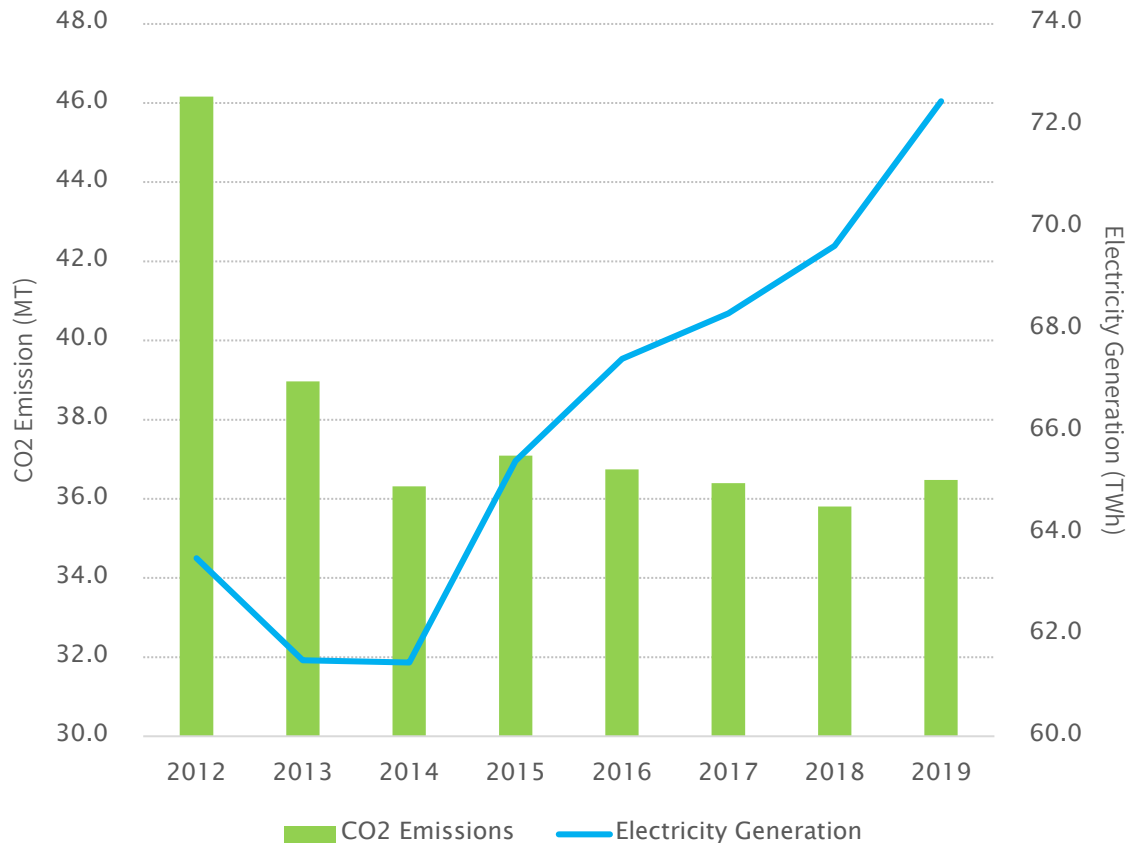
A Dramatic Drop in Pollutant Emissions with the Production of NG From Tamar Field in 2013

SOx emissions fell by 84%, while NOx emissions dropped by 74%



CO2 Emissions from Power Generation

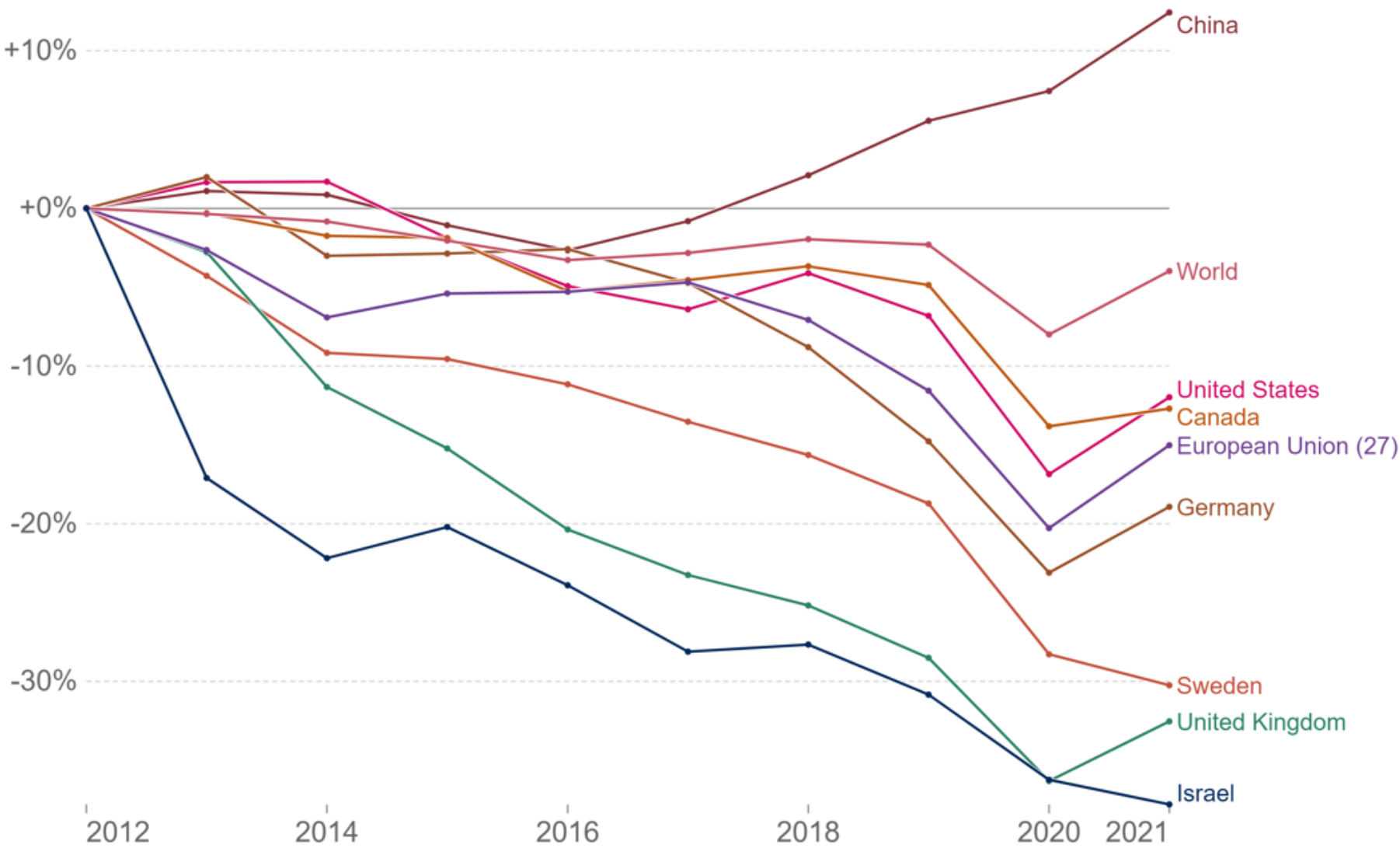
27% reduction in CO2 emissions while power generation increase by 17%



- CO2 emission reduction in Israel is one of the steepest in the OECD
- Israeli government has decided that the use of coal will completely stop by 2025

Change in per capita CO₂ emissions

Carbon dioxide (CO₂) emissions from fossil fuels and industry¹. Land use change is not included.



Source: Our World in Data based on the Global Carbon Project (2022) OurWorldInData.org/co2-and-other-greenhouse-gas-emissions/ • CC BY

Thank You!

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