



THE OXFORD
INSTITUTE
FOR ENERGY
STUDIES

GUIDE TO CHINESE CLIMATE POLICY

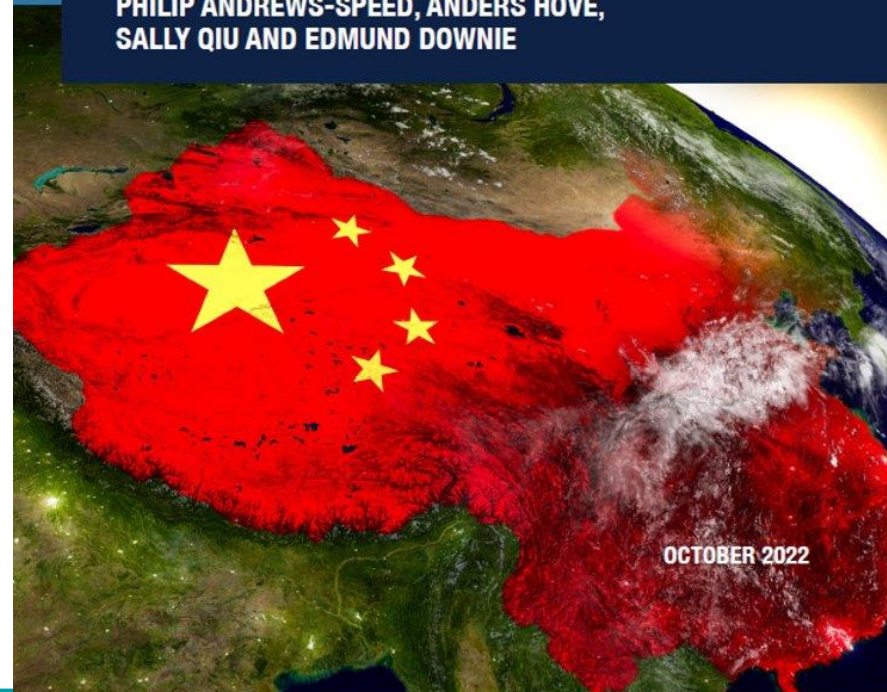
DAVID SANDALOW, MICHAL MEIDAN, PHILIP ANDREWS-SPEED, ANDERS HOVE,
SALLY YUE QIU AND EDMUND DOWNIE



March 30, 2023: Data update

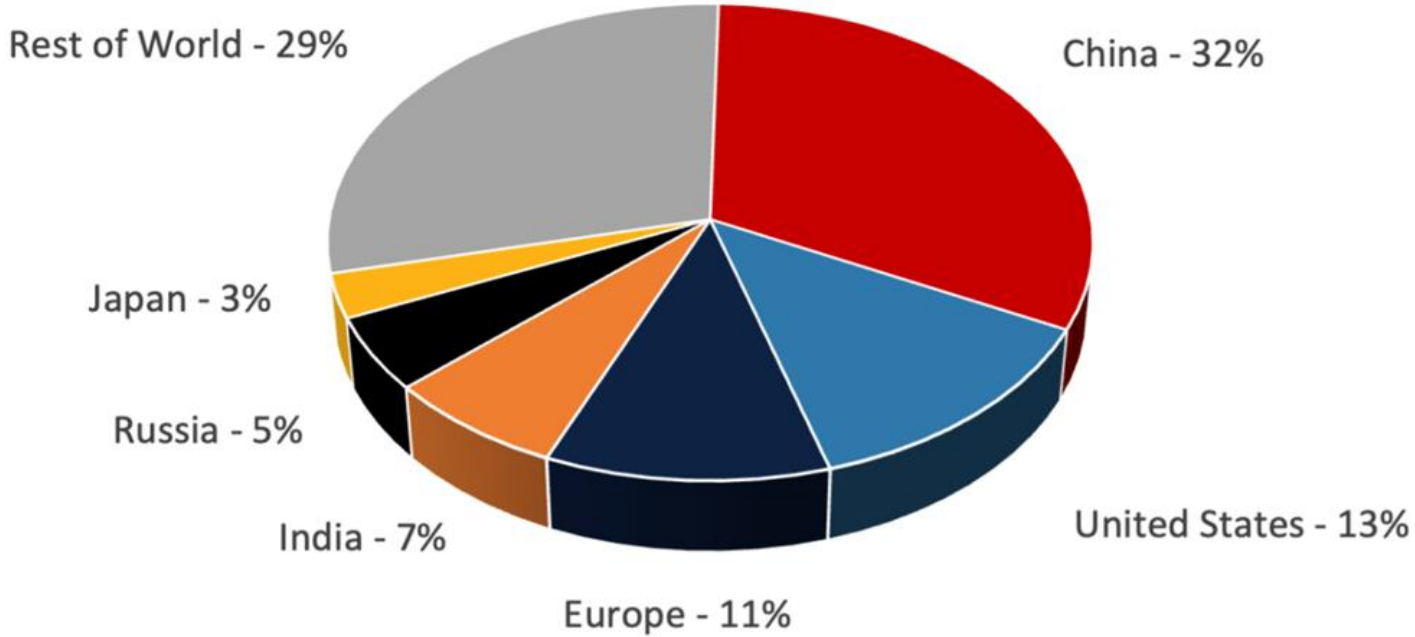
GUIDE TO CHINESE CLIMATE POLICY 2022

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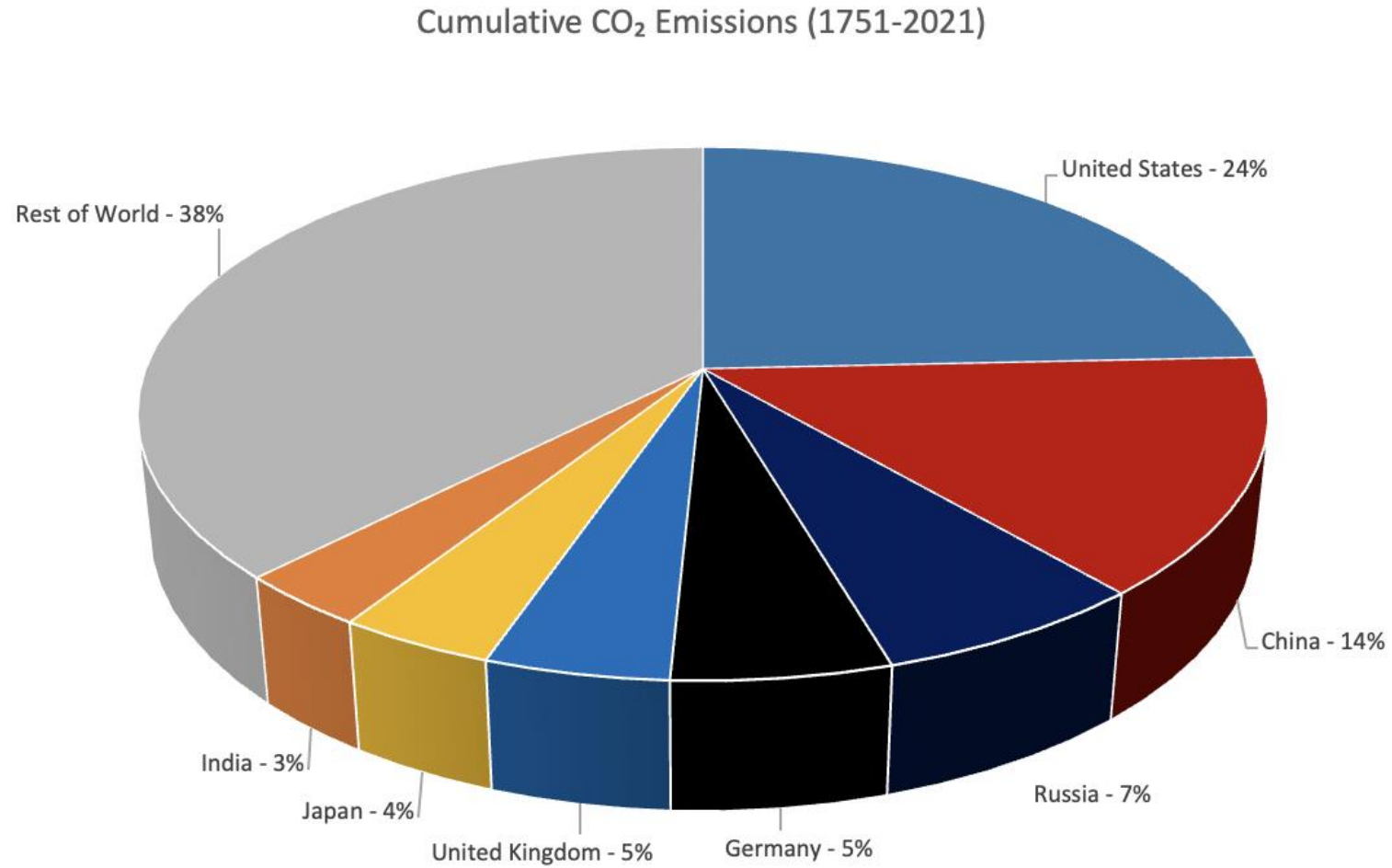
In 2022, more CO₂ emissions from China than the US, Europe and India combined.

Figure 1-1: CO₂ Emissions from Fossil Fuels 2022



Source: IEA (2023), CO₂ Emissions in 2022

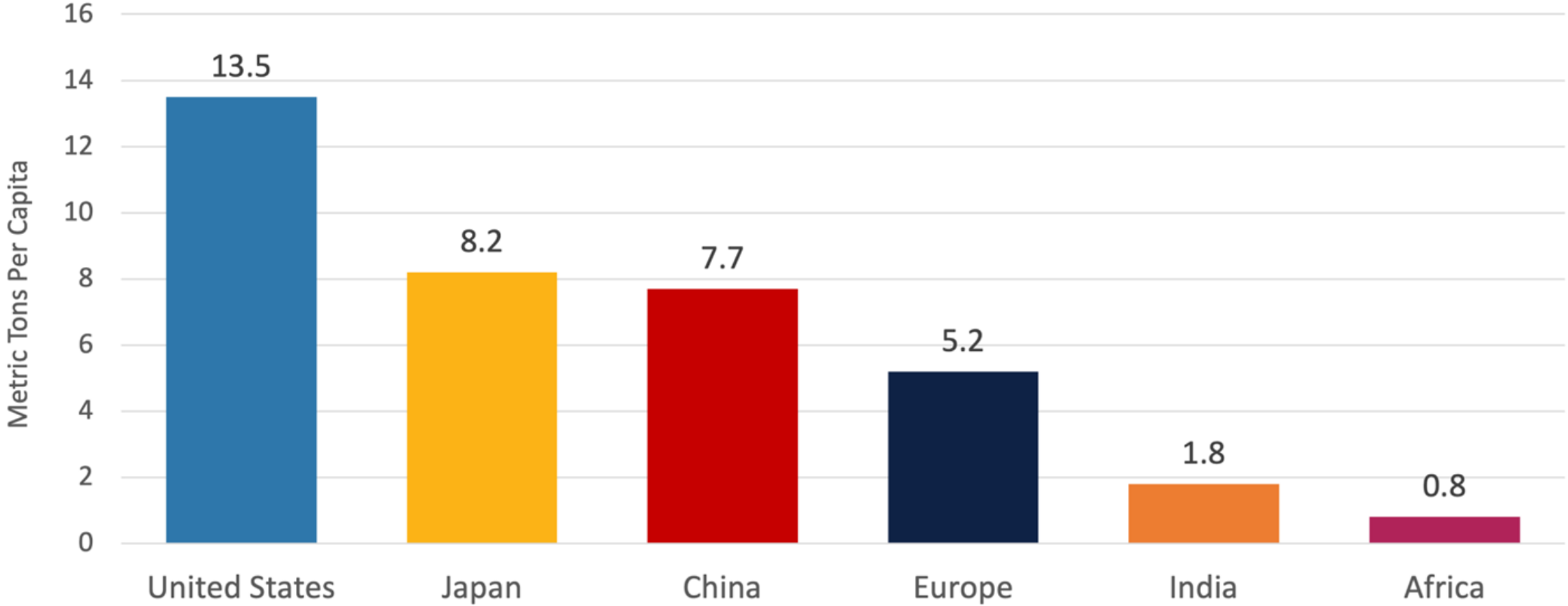
More cumulative CO₂ emissions from China than all countries except the US



Source: Our World in Data based on CDIAC and Global Carbon Project

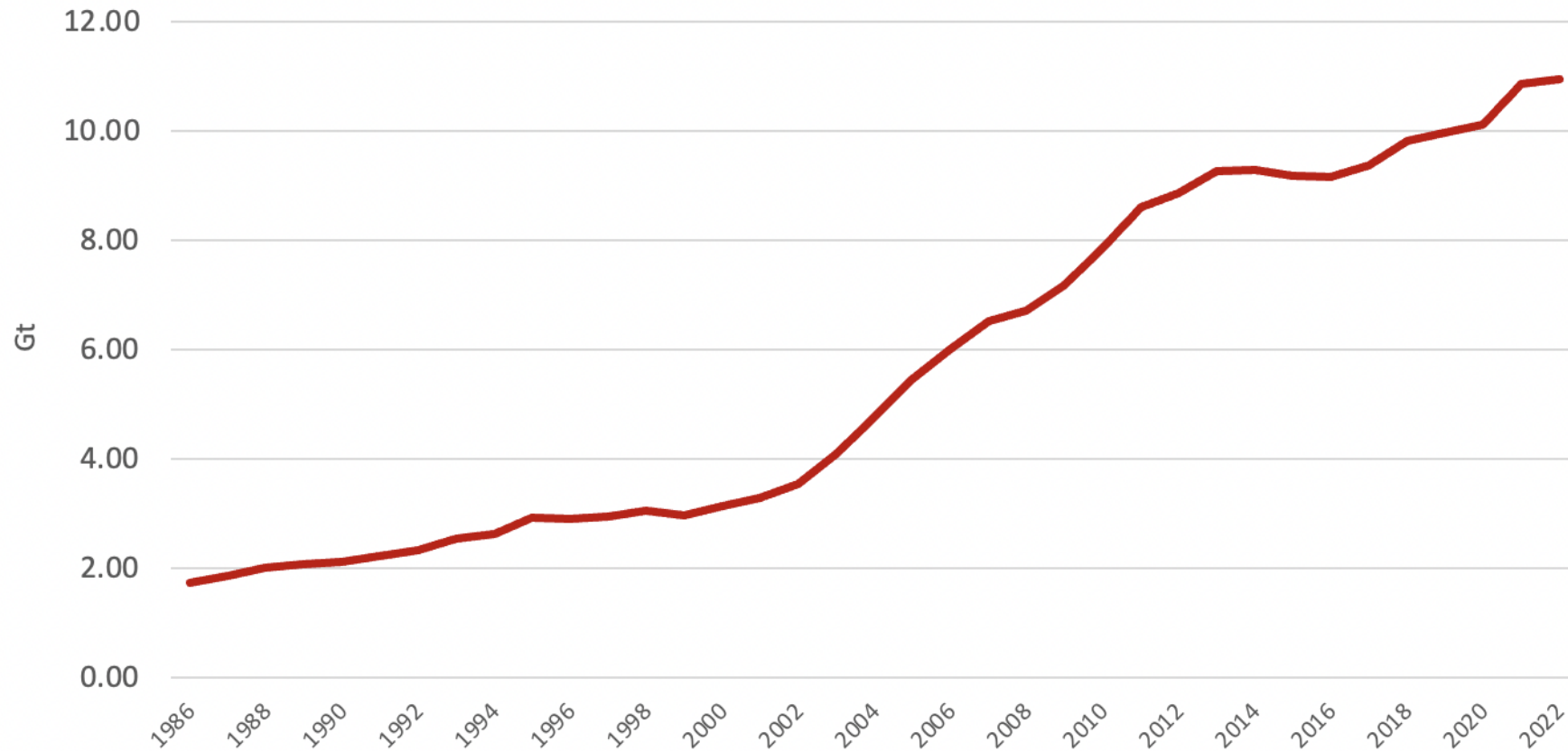
In 2022, China's per capita CO2 emissions were more than those from Europe.

Figure 1-3: Per Capita CO₂ Emissions from Fossil Fuels(2022)



Source: IEA (2023), CO₂ Emissions in 2022

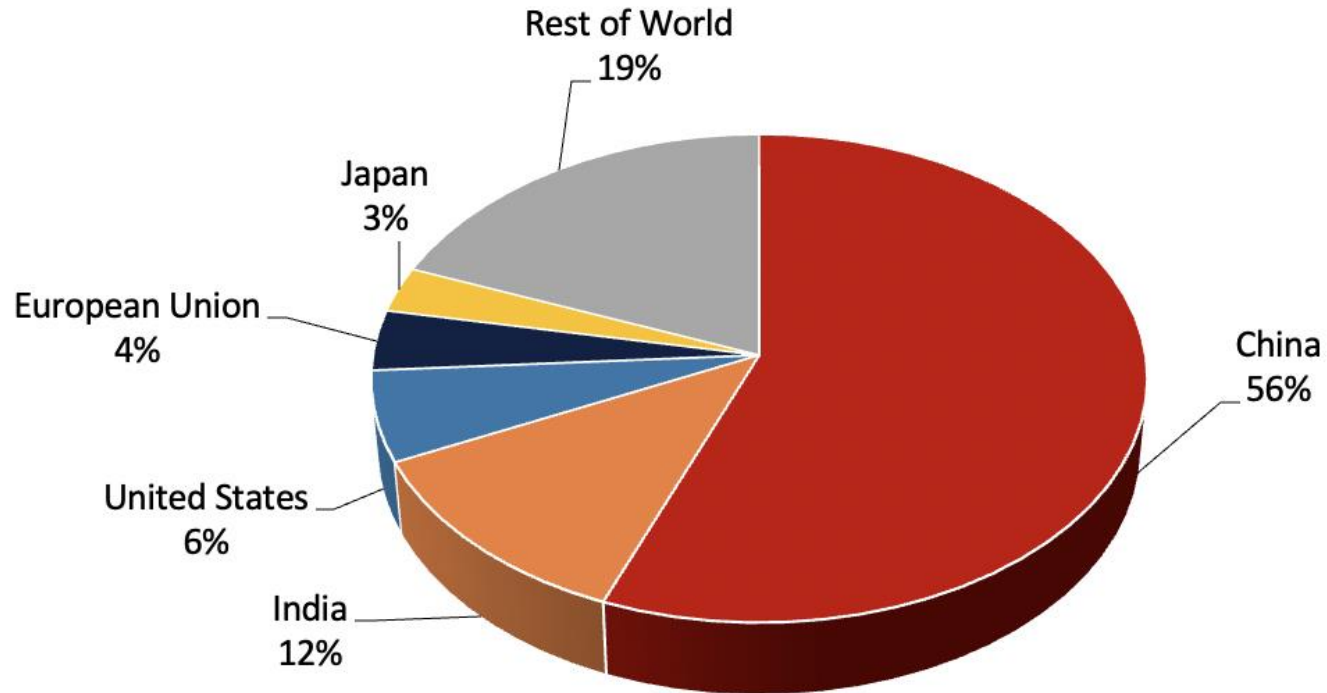
Figure 1-6: China's CO₂ Emissions from Fossil Fuels (Gt) (1985-2022)



Source: IEA (2023), CO₂ Emissions in 2022

China uses more coal than the rest of the world combined.

Figure 5-1: World Coal Consumption (2022)



Source: IEA (2023), CO2 Emissions in 2022

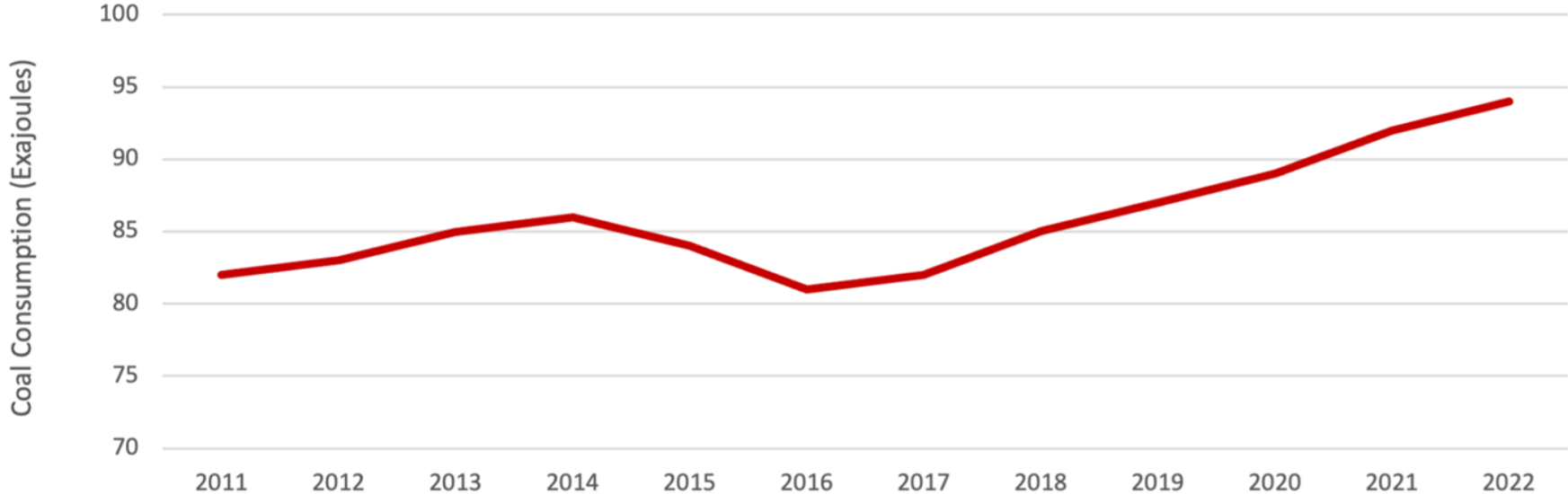


Coal consumption in China is rising

In 2022:

- 4.3% increase from 2021
- 56.2% of total energy consumption

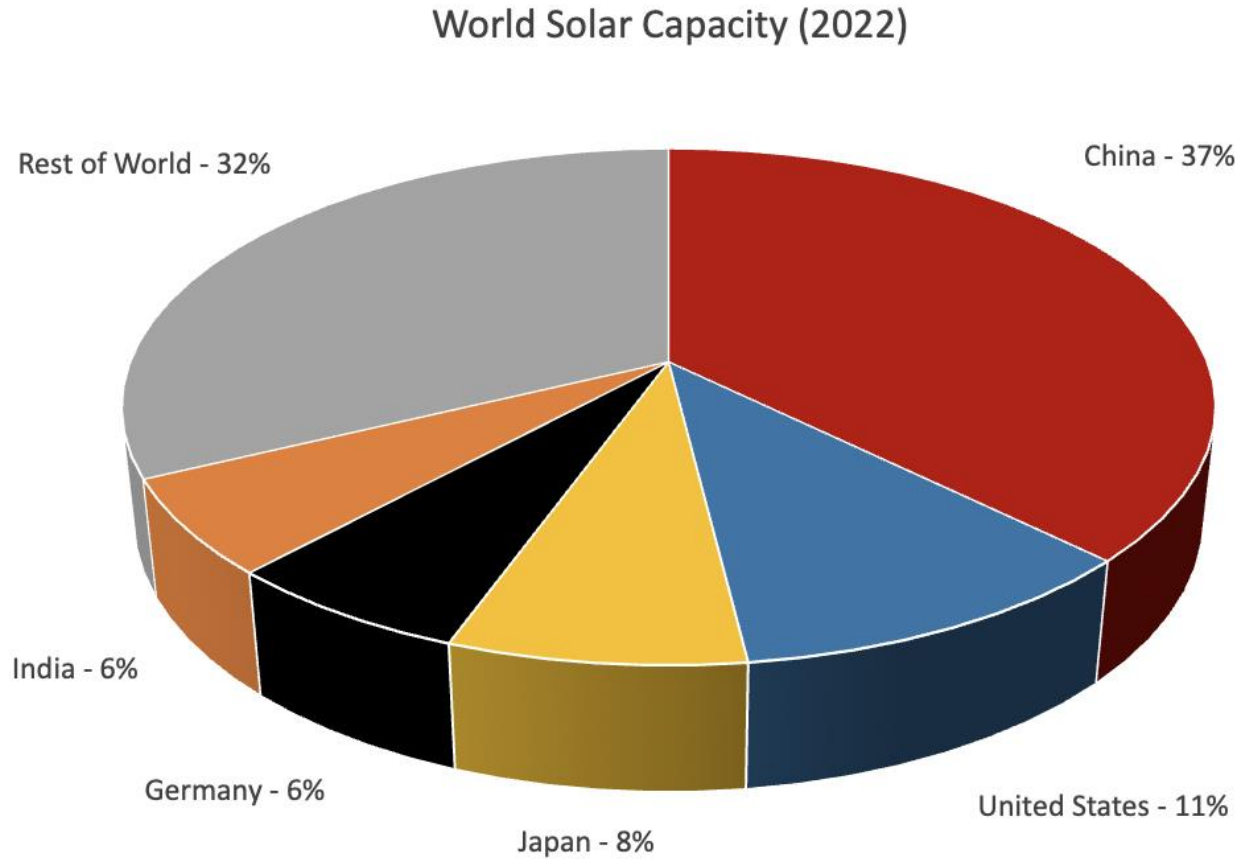
Figure 5-2: Chinses Coal Consumption (2011-2022)



Source: IEA (2023), CO2 Emissions in 2022



China leads the world in solar power capacity, by far.

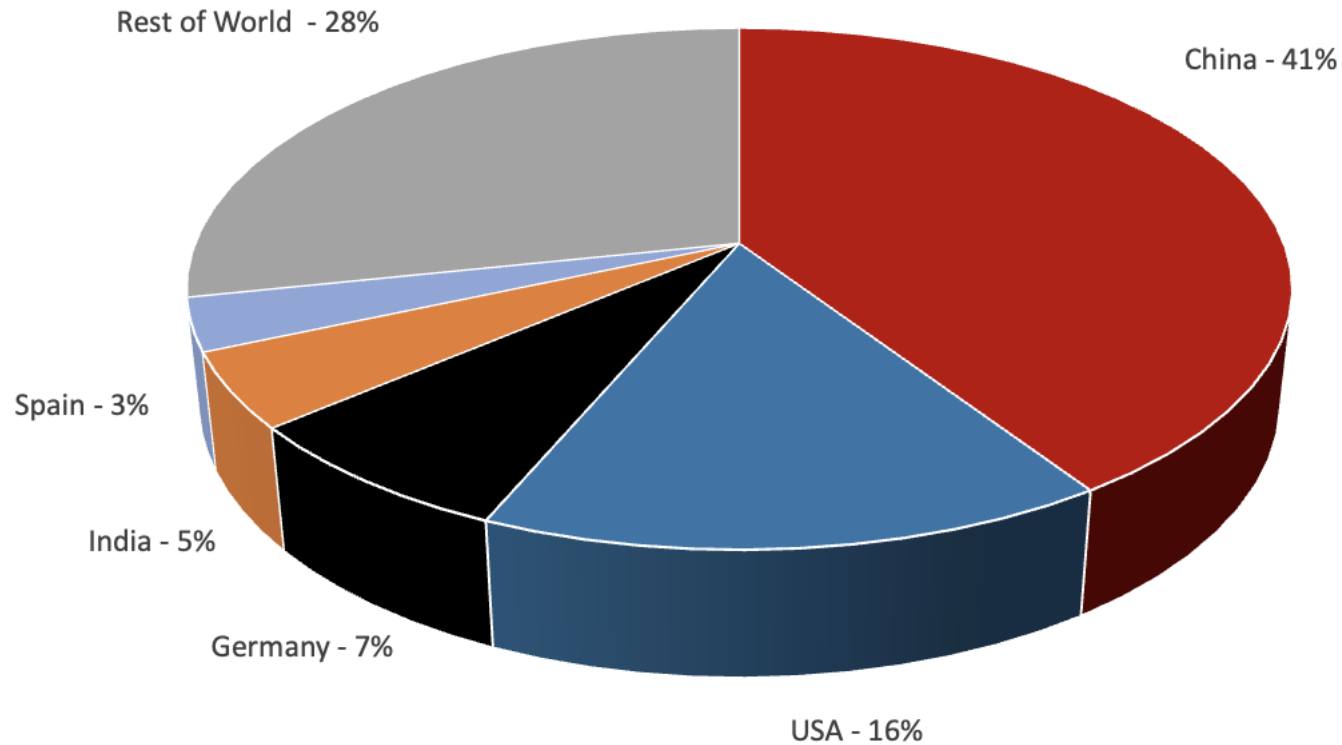


Source: IRENA Renewable Energy Capacity Statistics 2023



China leads the world in wind power capacity, by far.

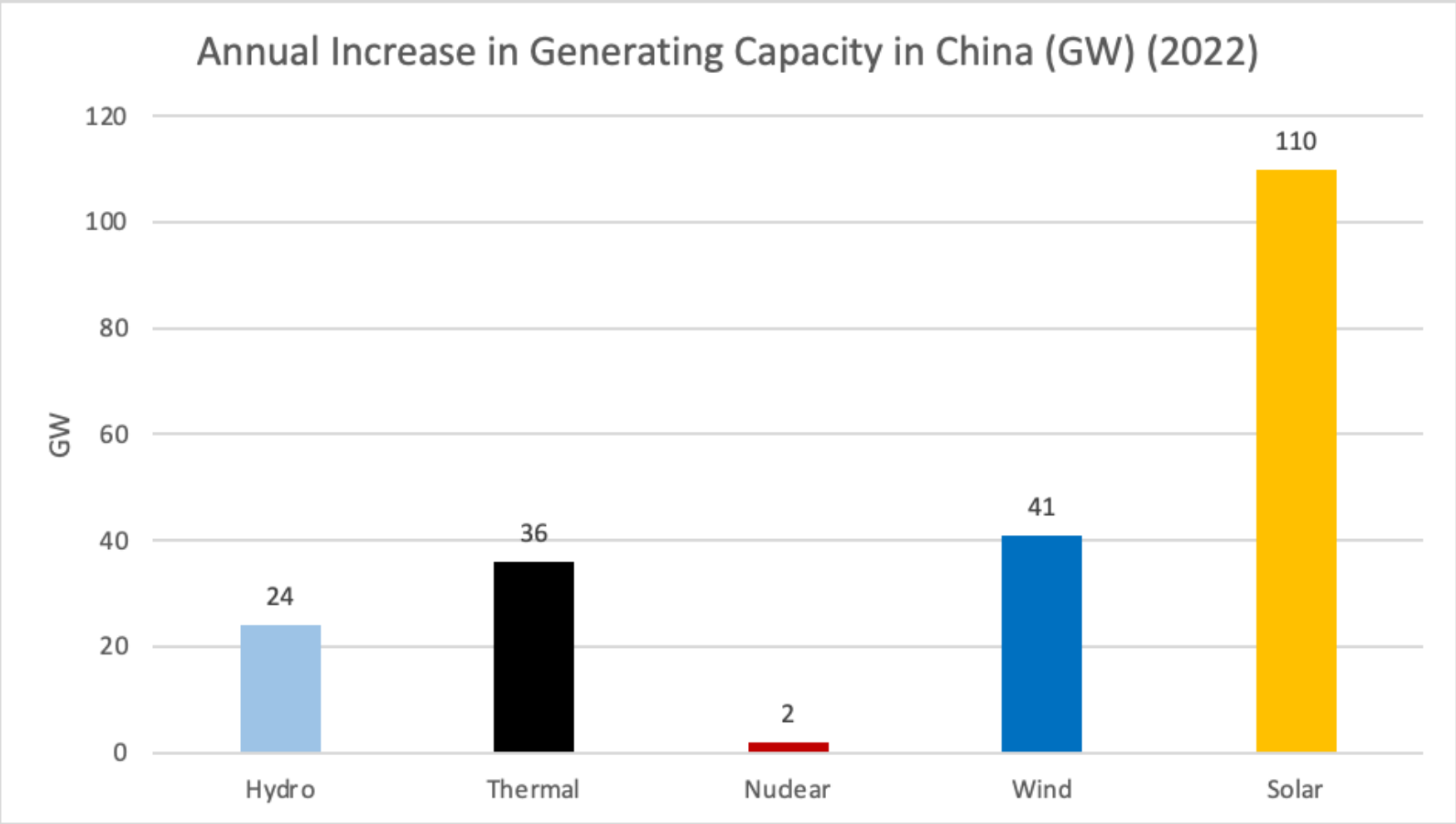
World Wind Capacity (2022)



Source: IRENA Renewable Energy Capacity Statistics 2023



Both solar and wind power capacity are increasing rapidly in China

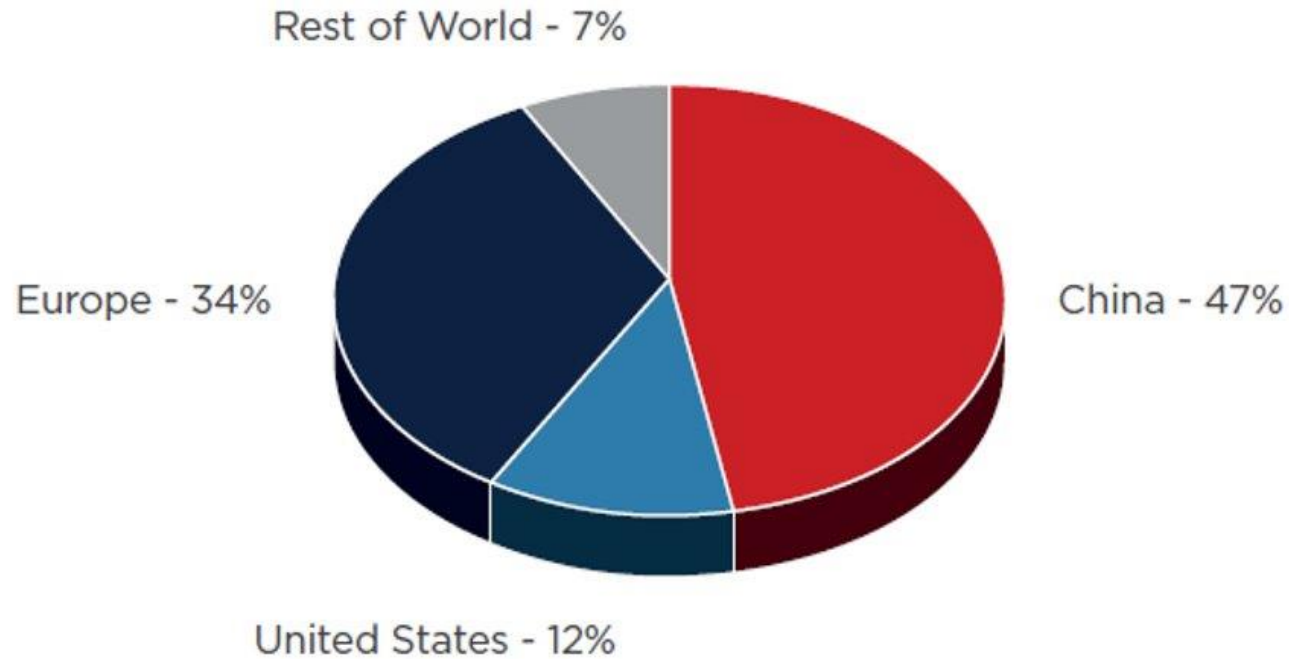


Source: China Electricity Council



Almost half the electric cars in the world are in China.

Figure 16-1: World Electric Car Stock



Source: IEA, *Global EV Outlook 2022* at p.16²³

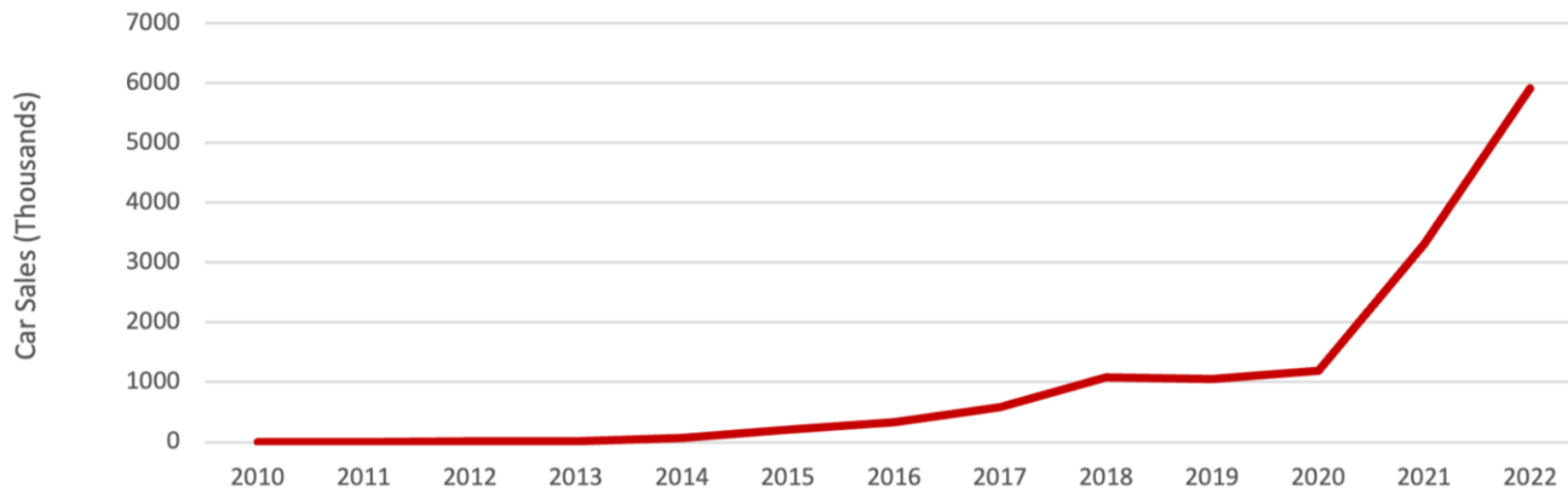


Electric car sales in China are growing fast.

In 2022, over 5.92 million new passenger plug-in electric cars were registered in China.
(83 percent more than in 2021)

Source: InsideEVs

Figure 16-2: Electric Cars Sales in China (2010-2022)



Sources: IEA Global EV Outlook 22 and Inside EVs





Thank you

For more information about the Guide to Chinese Climate Policy 2022, please visit <https://chineseclimatepolicy.oxfordenergy.org/> or contact us at chineseclimatepolicy@oxfordenergy.org

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