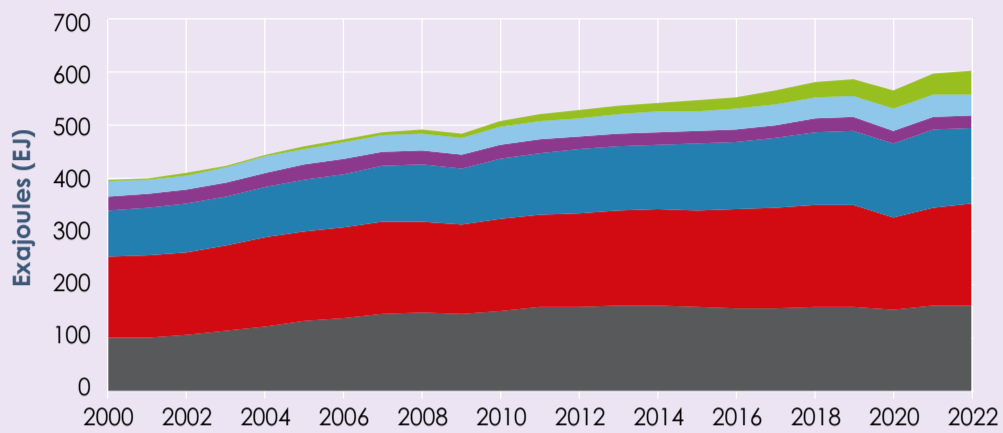




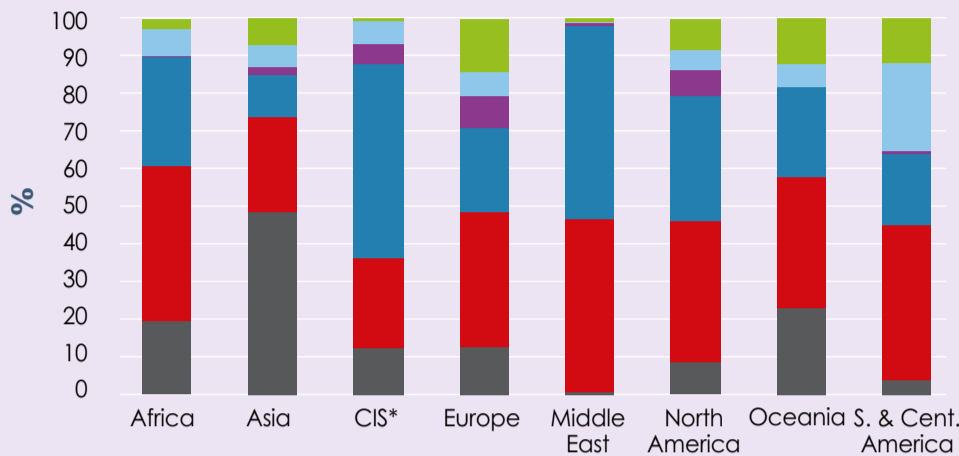
GLOBAL PRIMARY ENERGY CONSUMPTION



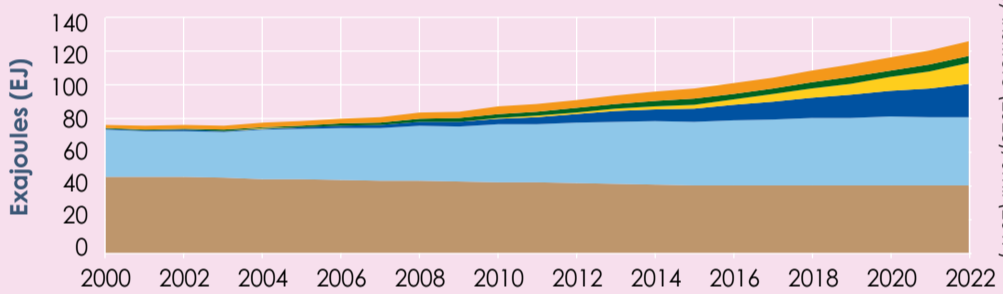
■ Coal ■ Oil ■ Natural gas ■ Nuclear ■ Hydropower ■ Wind, solar, modern bioenergy and other renewables



PRIMARY ENERGY MIX PER CONTINENT



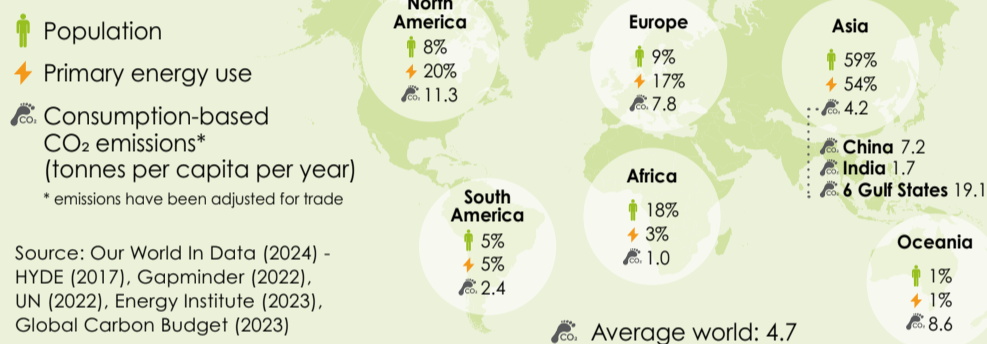
RENEWABLE PRIMARY ENERGY CONSUMPTION



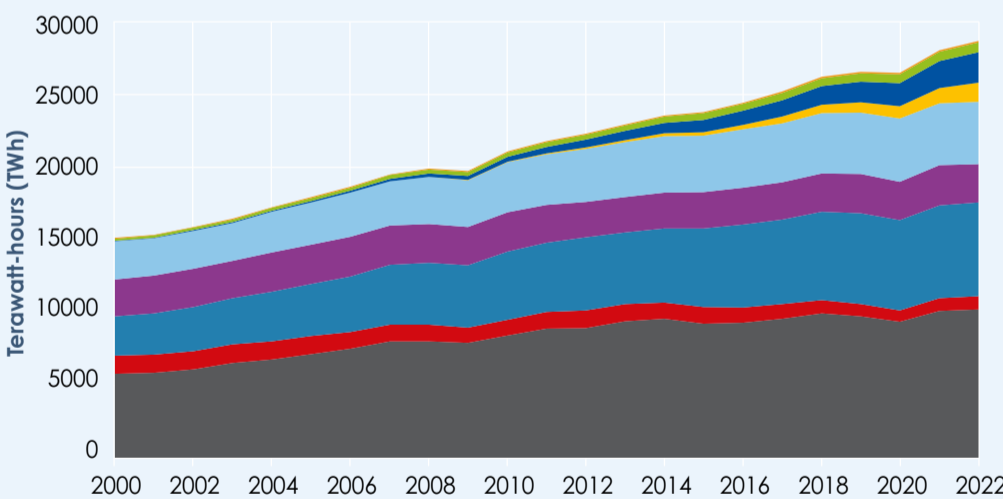
■ Traditional biomass ■ Hydropower ■ Wind ■ Solar ■ Modern biofuels ■ Other renewables



DISTRIBUTION OF ENERGY USE AND EMISSIONS



GLOBAL ELECTRICITY PRODUCTION



■ Coal ■ Oil ■ Natural gas ■ Nuclear ■ Hydropower ■ Solar ■ Wind ■ Bioenergy ■ Other renewables

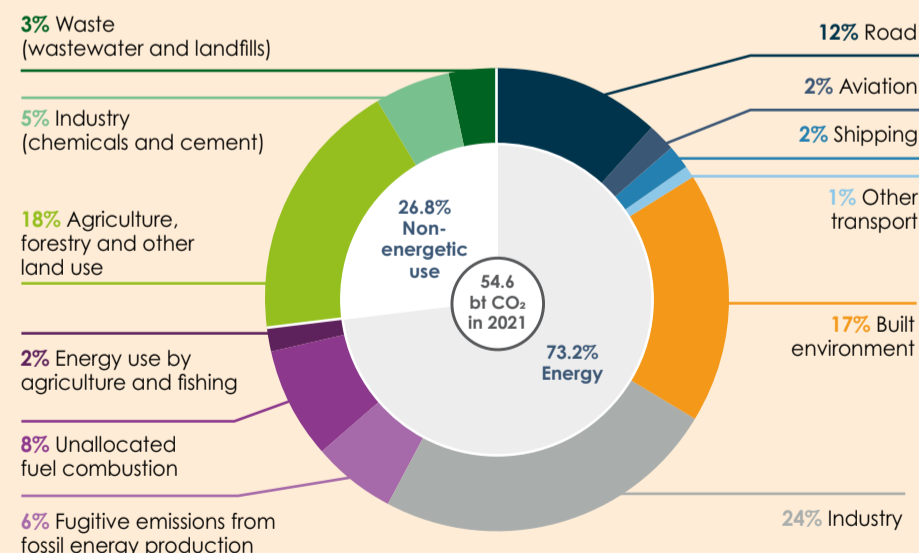


DID YOU KNOW?

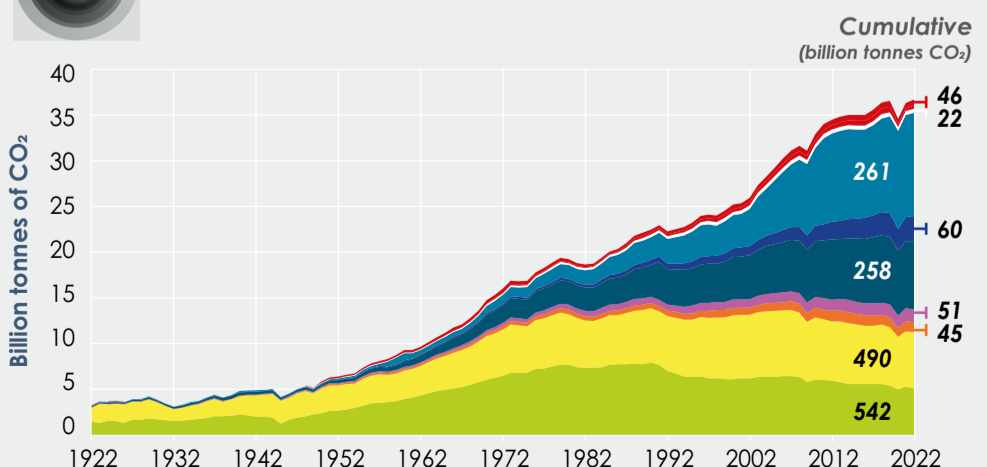
Electricity accounted for **20%** in the global final energy consumption in 2023 (IEA)



SHARE OF GLOBAL GREENHOUSE GAS EMISSIONS PER SECTOR



ANNUAL CO₂ EMISSIONS

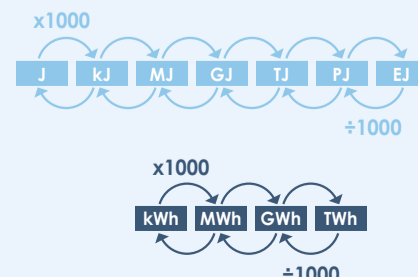


■ Europe (incl. Russia) ■ North America ■ South America ■ Africa ■ Asia (excl. India and China) ■ India ■ China ■ Oceania ■ International transport



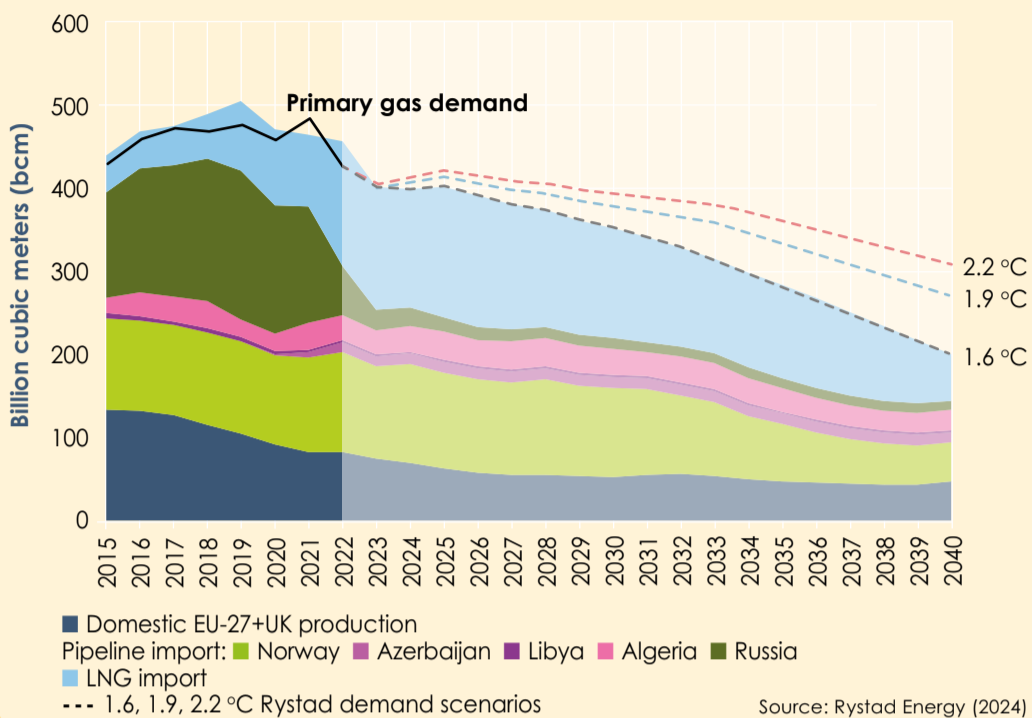
ENERGY UNIT CONVERSION

1 bcm natural gas (bcm = billion m ³ , 1 bcm = 35.3 bcf)	40 PJ
1 TWh (Terawatt-hour)	3.6 PJ
1 Mton hydrogen	120 PJ
1 MBoe (million barrels of oil equivalent)	6.12 PJ

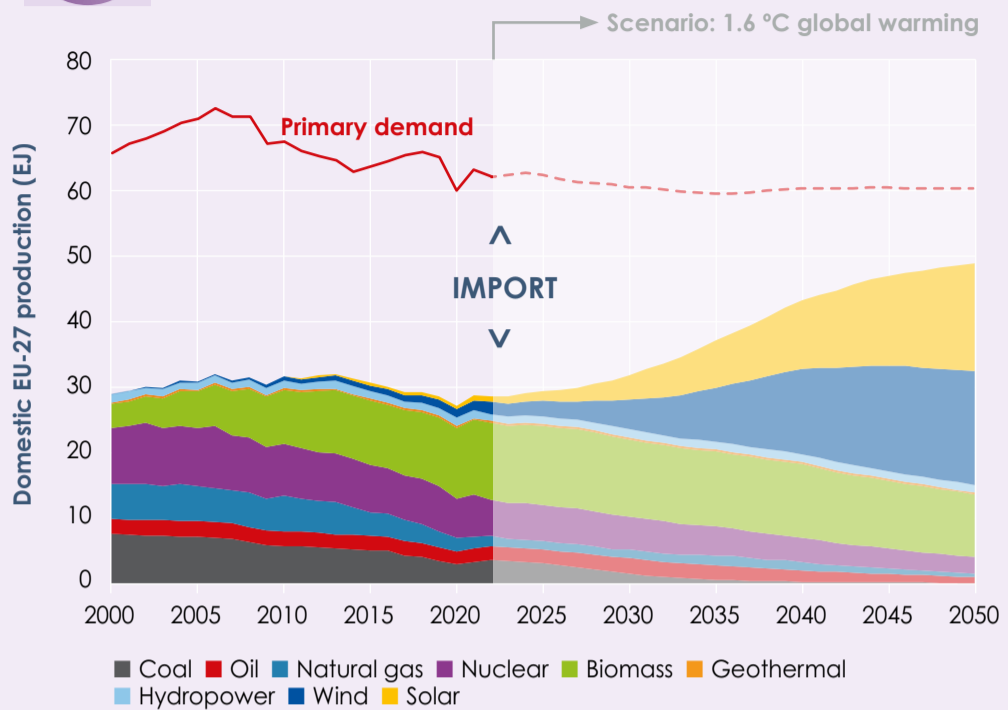




EUROPEAN GAS SUPPLY

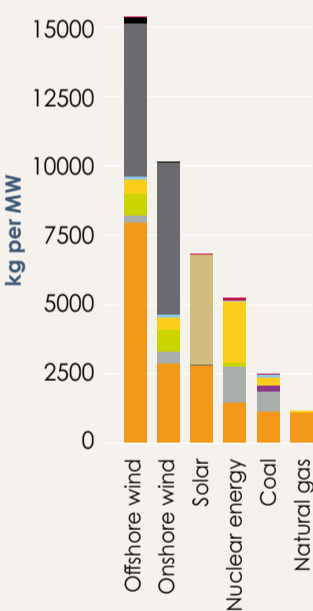


EUROPEAN IMPORT DEPENDENCY

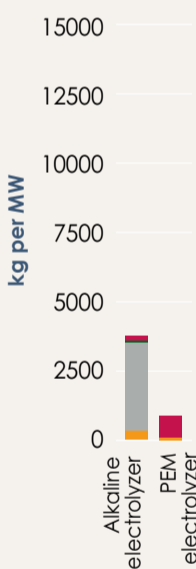


CRITICAL RAW MATERIALS

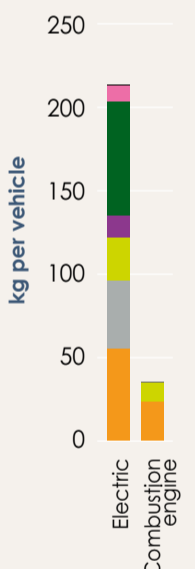
PRODUCTION OF: ELECTRICITY



HYDROGEN



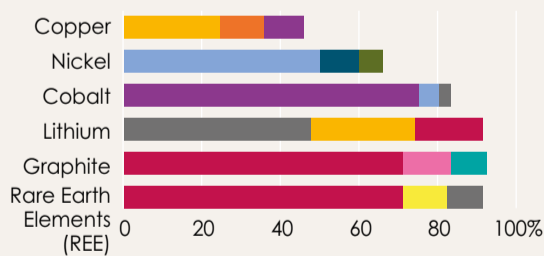
CARS



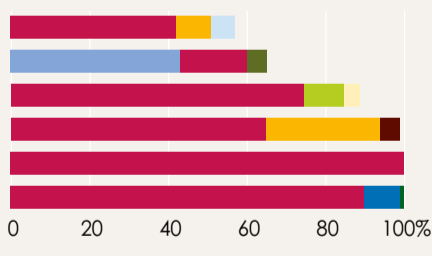
- Copper
- Nickel
- Manganese
- Cobalt
- Chromium
- Molybdenum
- Zinc
- Rare Earth Elements (REE)
- Silicon
- Graphite
- Lithium
- Other

Source: IEA (2022), Ramboll (2023)

EXTRACTION (TOP 3 COUNTRIES)



PROCESSING (TOP 3 COUNTRIES)



- Finland ■ Canada ■ Malaysia ■ Madagascar ■ Russia ■ Philippines ■ Japan
- Argentina ■ Estonia



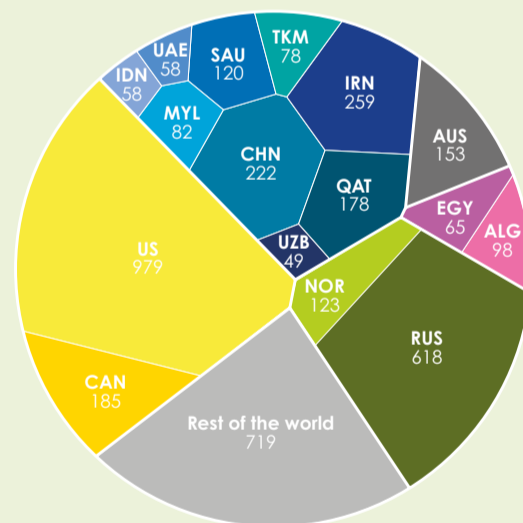
DID YOU KNOW?

Global demand for critical raw materials will increase **4-6 times by 2040** (IEA, 2022)



LARGEST PRODUCERS OF NATURAL GAS

BILLION M³ PER YEAR (2022)

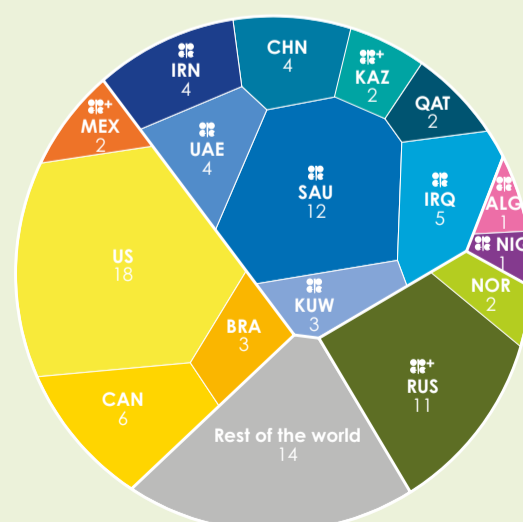


Global natural gas production:
4044 bcm per year
(=161,752 PJ per year)



LARGEST PRODUCERS OF OIL

MILLION BARRELS OF OIL PER DAY (AVERAGE 2022)



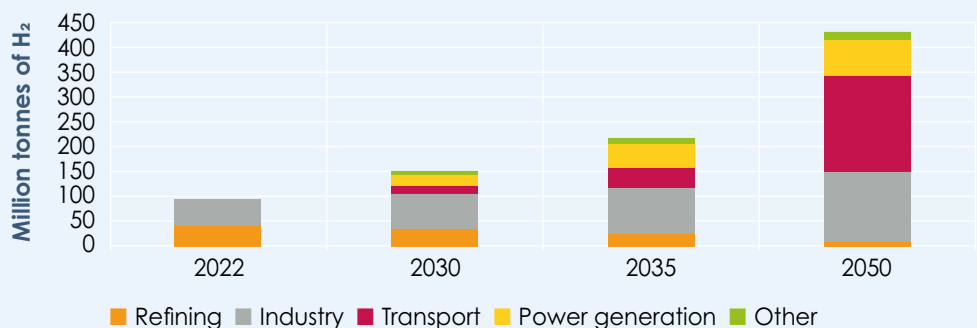
Global oil production:
94 Mboe per day
(=209,638 PJ per year)

■ OPEC
■+ OPEC+

Source: Energy Institute (2023)



GLOBAL HYDROGEN USE



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