

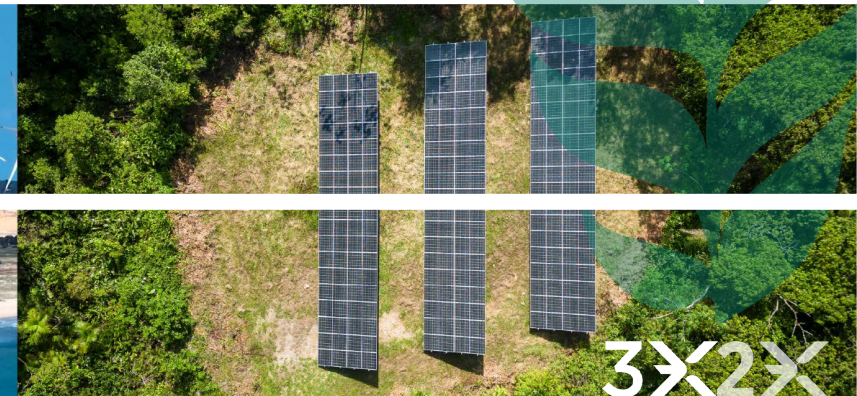
Delivering on the UAE Consensus: Tracking Progress Toward Tripling Renewable Power Capacity and Doubling Energy Efficiency by 2030

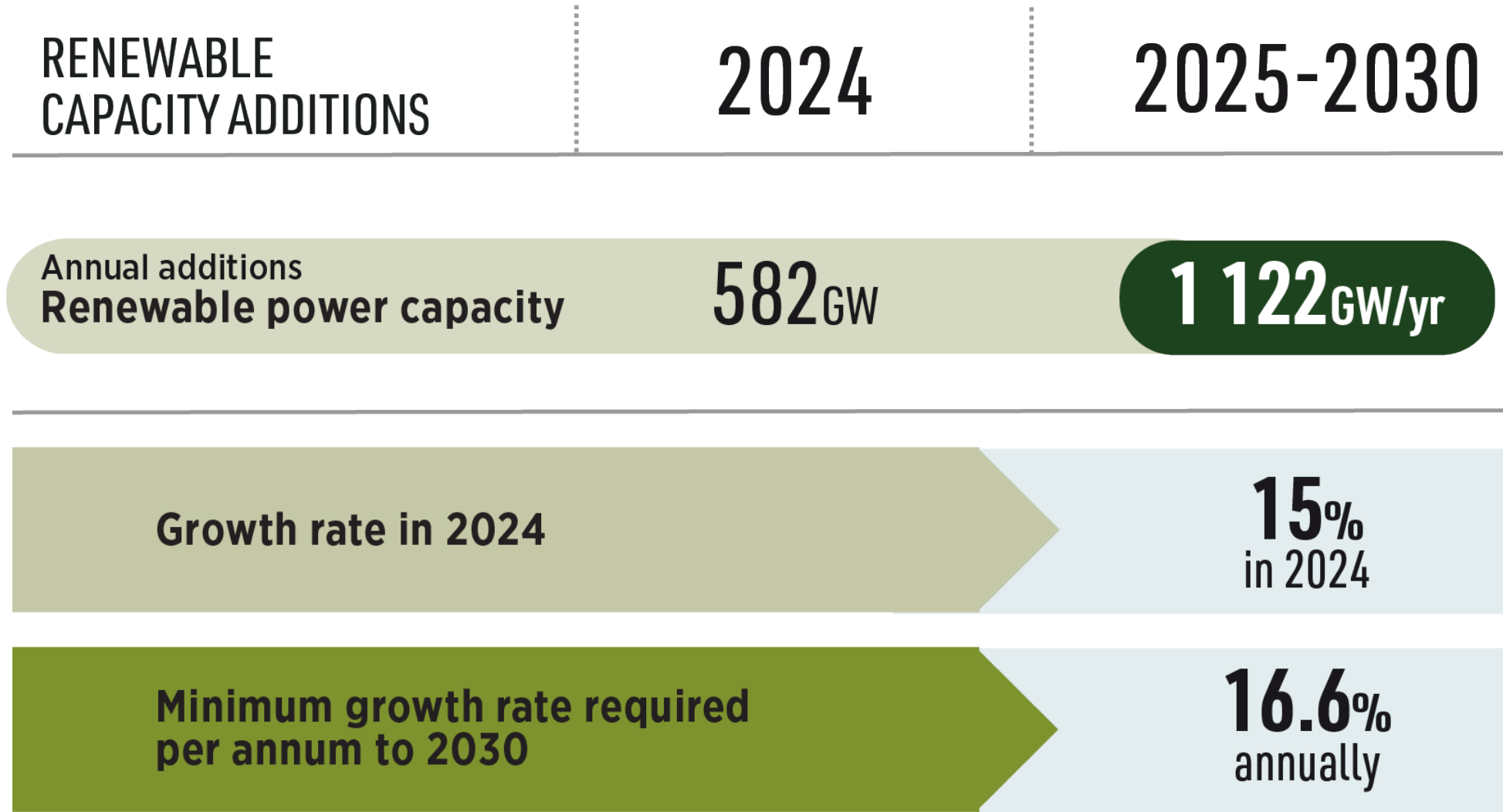
9th AIEE Energy Symposium 2025

Francesco La Camera
IRENA Director-General

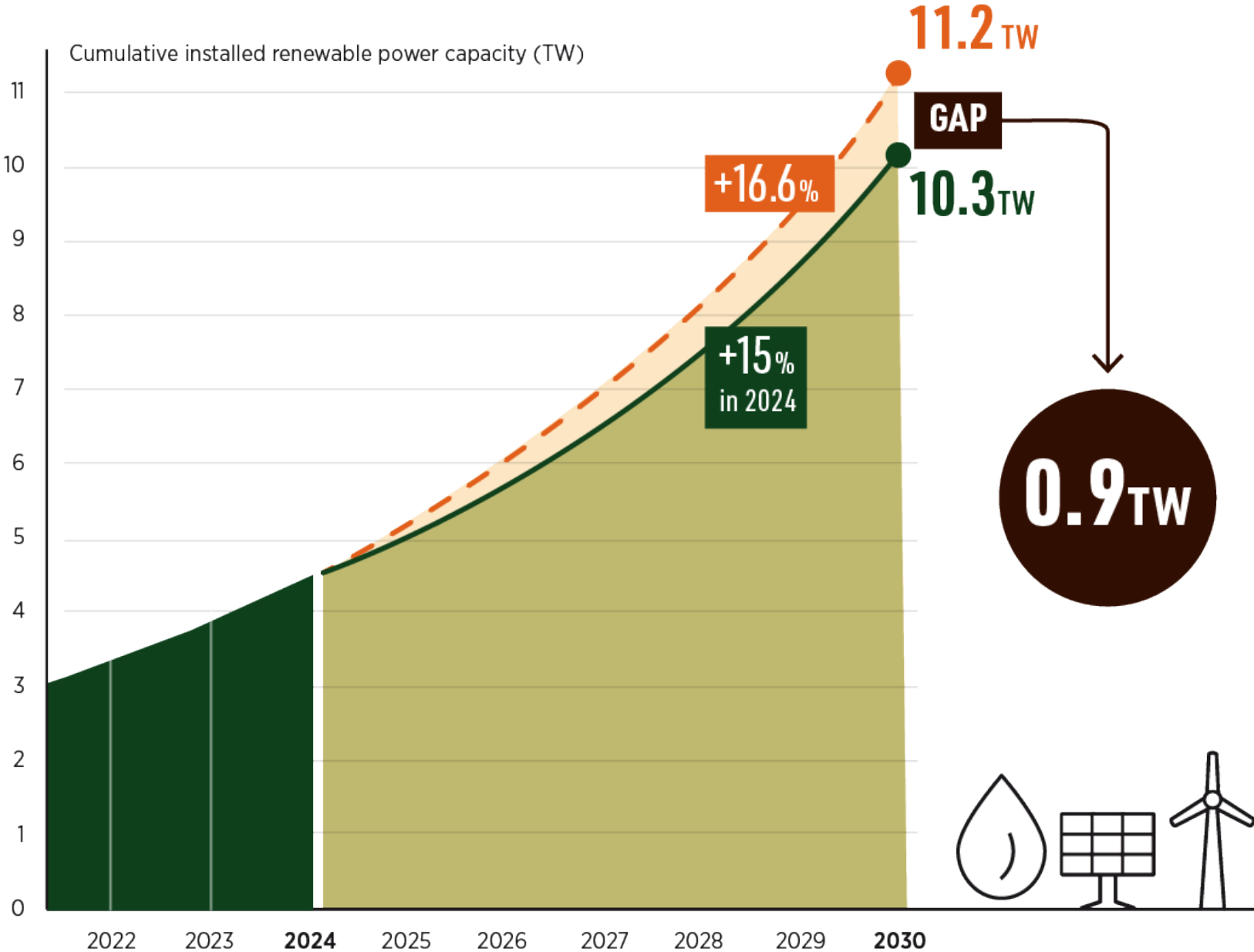


2030

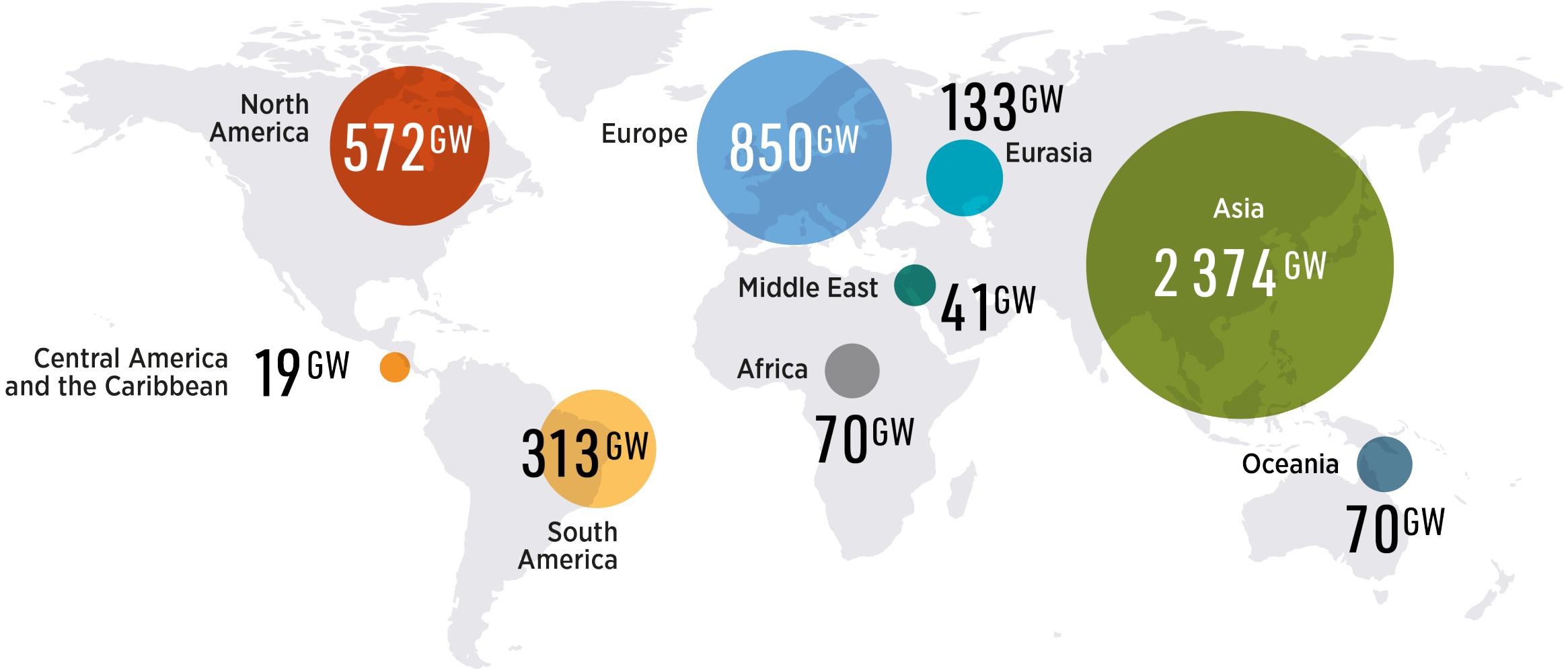




Closing the Gap to Triple Renewable Power by 2030

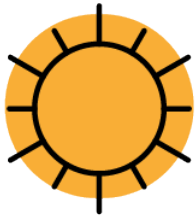


Renewable Power Capacity by Region in 2024



+582_{GW} in 2024

Solar PV



+452_{GW}

in 2024
(27% higher than
in 2023)

Wind energy



+114_{GW}

in 2024
(105.7 GW
onshore)

Hydropower



+9_{GW}

in 2024
(excluding
pumped hydro)

Bioenergy



+5_{GW}

in 2024

Geothermal, CSP and Marine



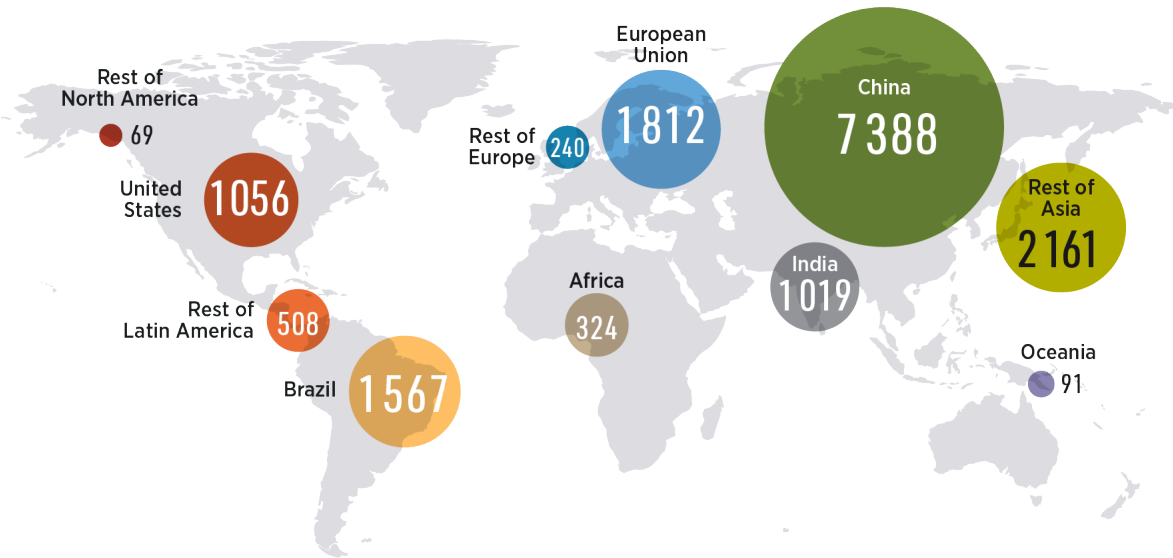
+1_{GW}

combined
added in 2024

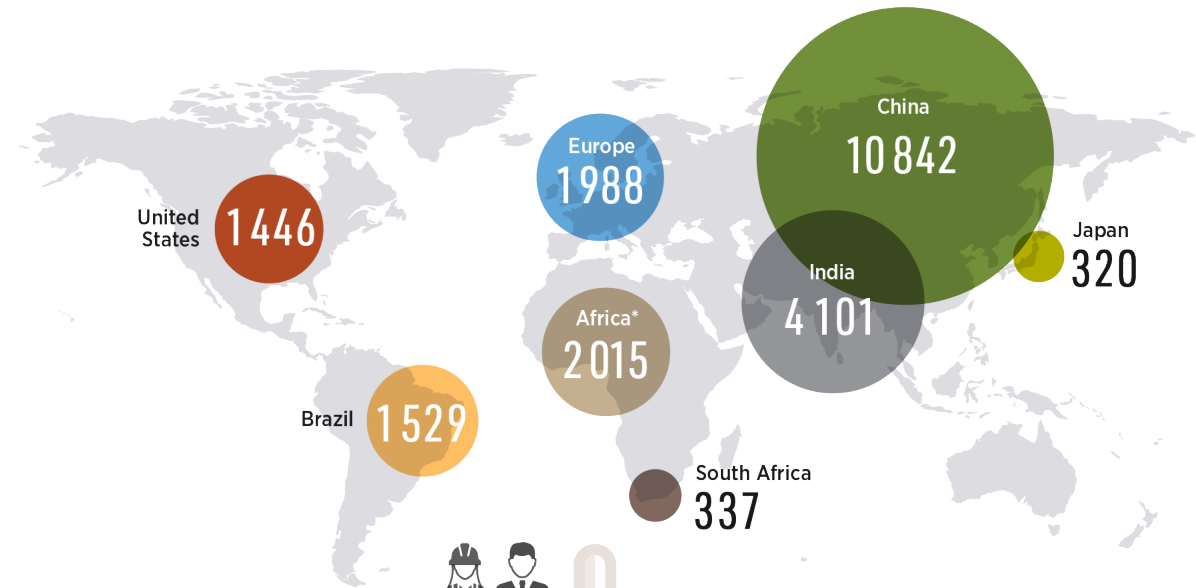
Benefits of Tripling on Job Creation



Jobs in 2023 (in thousands)

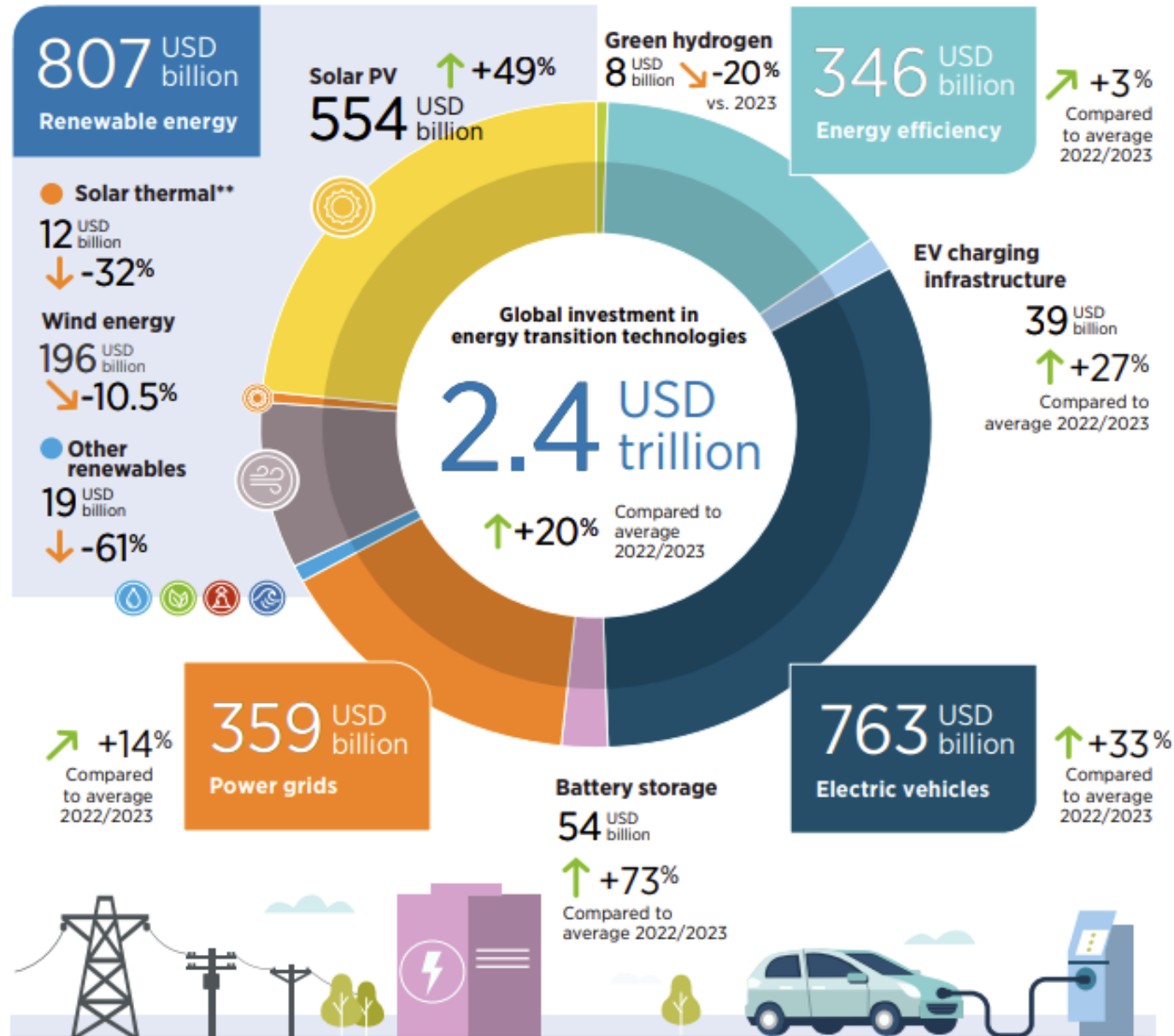


Expected jobs under the 1.5°C scenario in 2030 (in thousands)

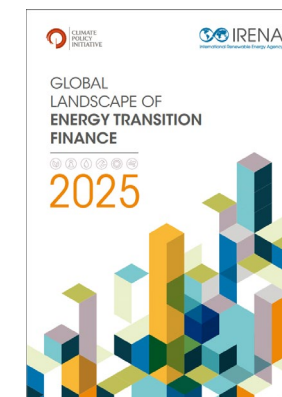


16.2 million jobs in 2023
2x
→
30 million jobs by 2030

PATHWAY TO 1.5°



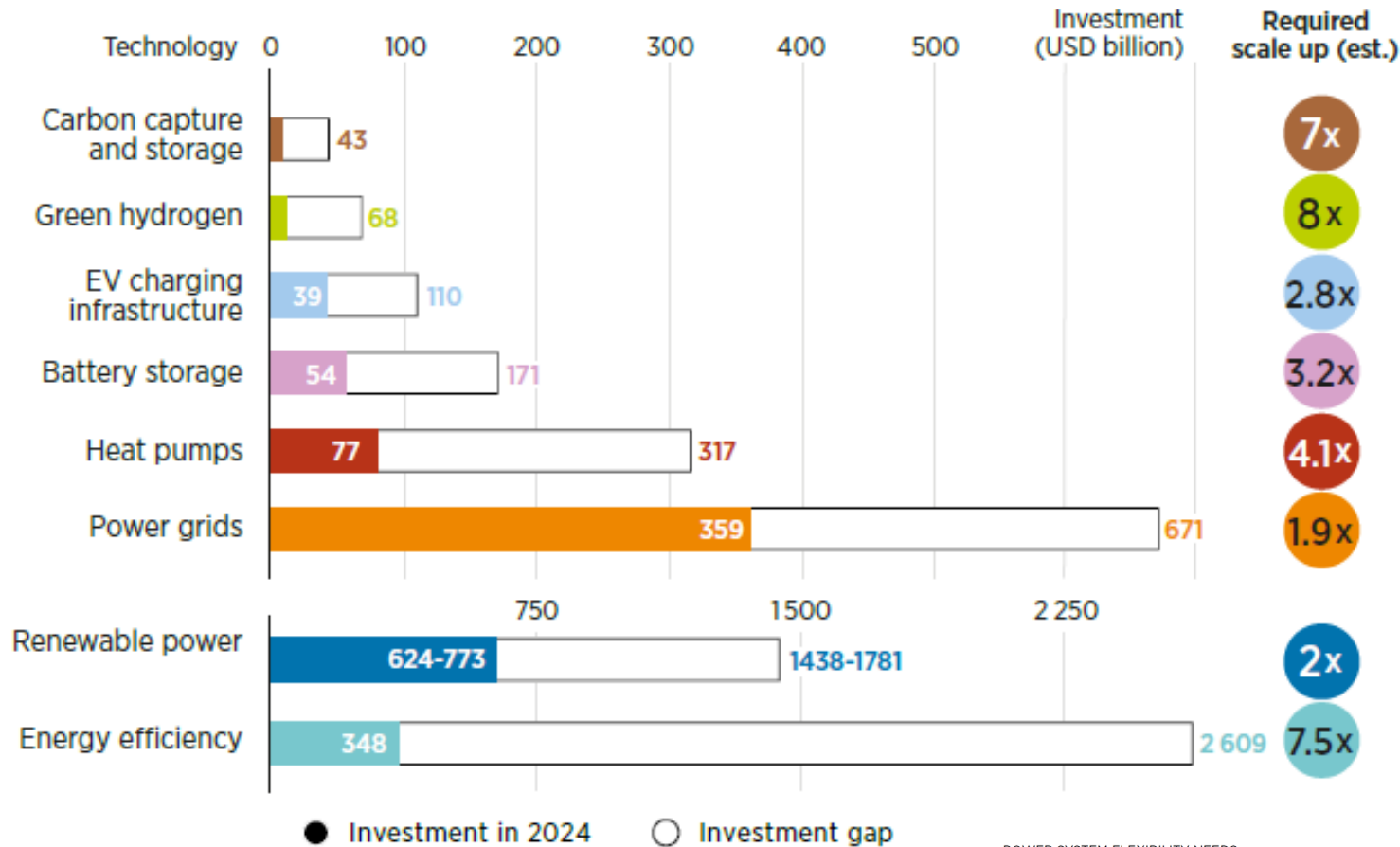
- In **2024**, global investments in the energy transition reached a record-high of **USD 2.4 trillion** (more than double compared to 2019)
- Annual investments **more than doubled** between 2019-2024



Global Investments Gaps to achieve the UAE Consensus and IRENA's 1.5°C Scenario



Energy transition investments gaps by 2030 for 1.5°C scenario, by technology

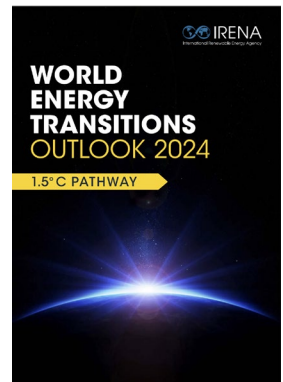
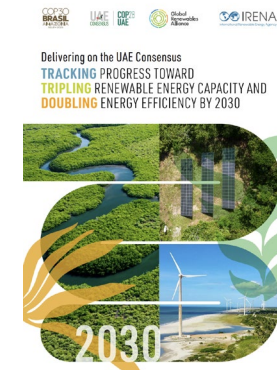


Based on: (CPI, 2025a), (IRENA, 2024a; IRENA et al., 2024), (BNEF, 2025a), (IRENA et al., 2025a).

POWER SYSTEM FLEXIBILITY NEEDS BY 2030 COMPARED TO 2019:



- **Investments in renewable power must nearly double** from current levels to more than USD 1.4 trillion per year between 2025 and 2030
- **Investments in energy efficiency need to grow by 7.5-fold** to reach nearly USD 2.6 trillion annually



Concentration of Energy transition Investments

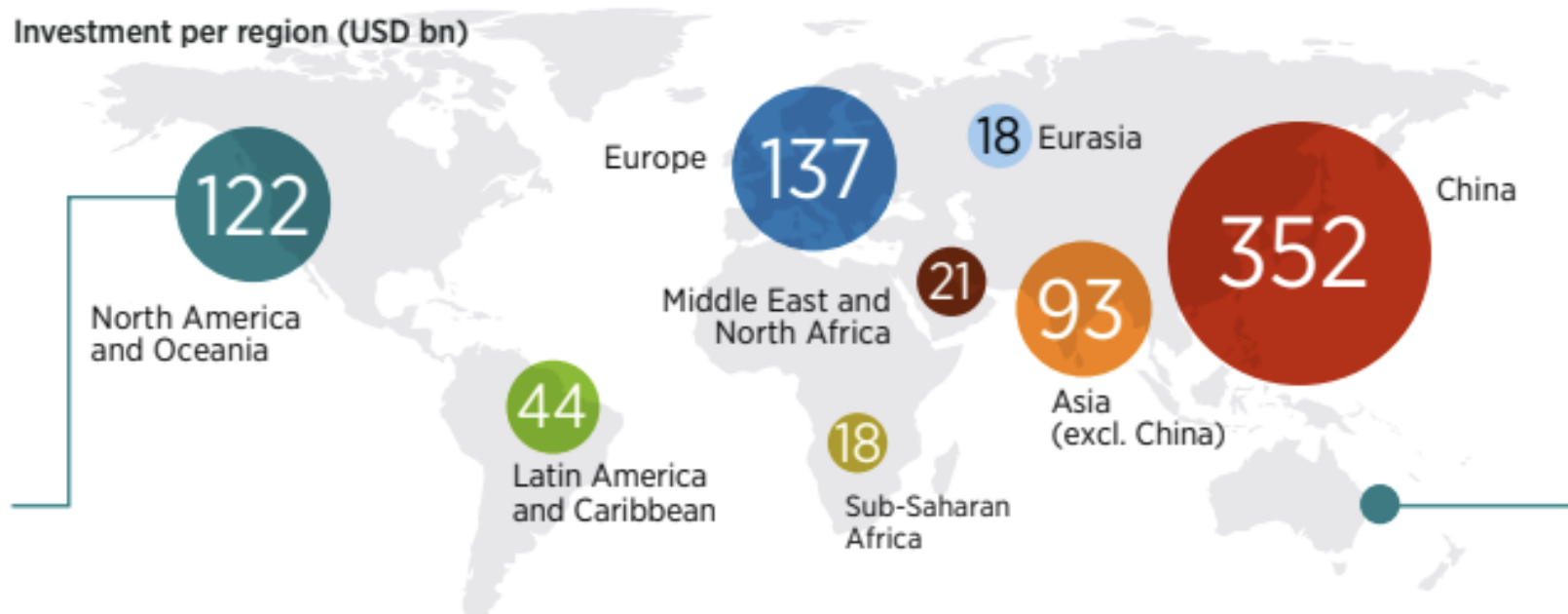


Renewable energy investment in 2024

807 USD billion $\uparrow +22\%$

VS. 662 USD billion
2022/2023

Investment per region (USD bn)

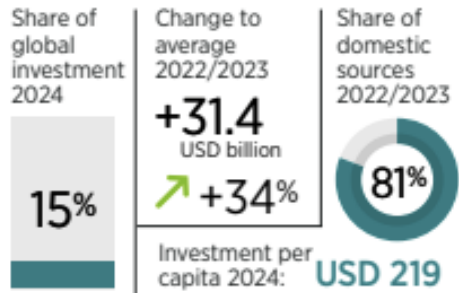


- More than **90%** goes to **China** and **developed economies** in **EU** and **North America & Oceania**
- **Other EMDEs** make up **less than 10%**, mostly going to **G20**
- **LDCs** make up **less than 0.5%**

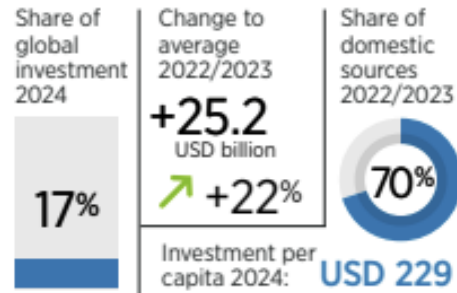
Regional Renewable Energy Investments in 2024



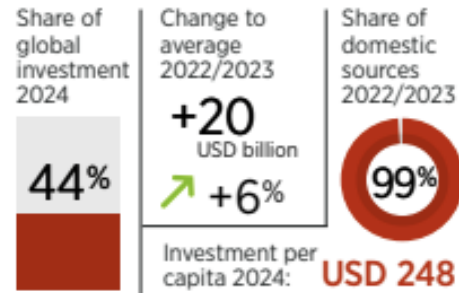
North America and Oceania



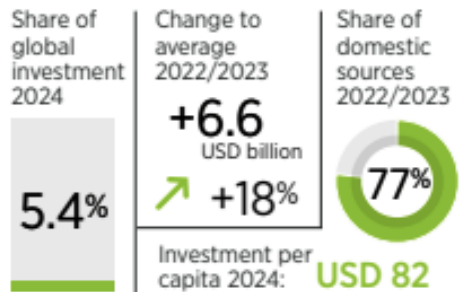
Europe



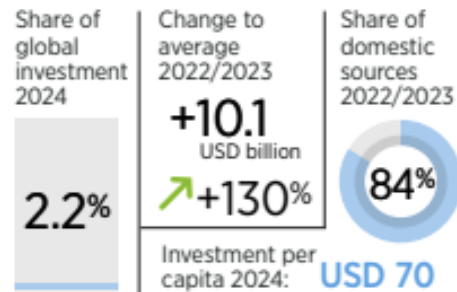
China



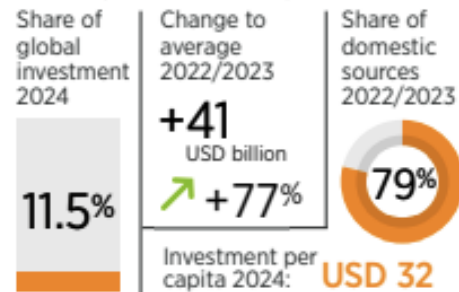
Latin America and Caribbean



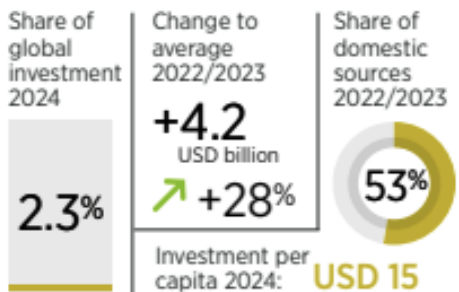
Eurasia



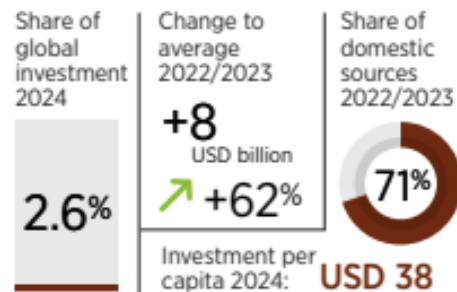
Asia (excl. China)



Sub-Saharan Africa



Middle East and North Africa

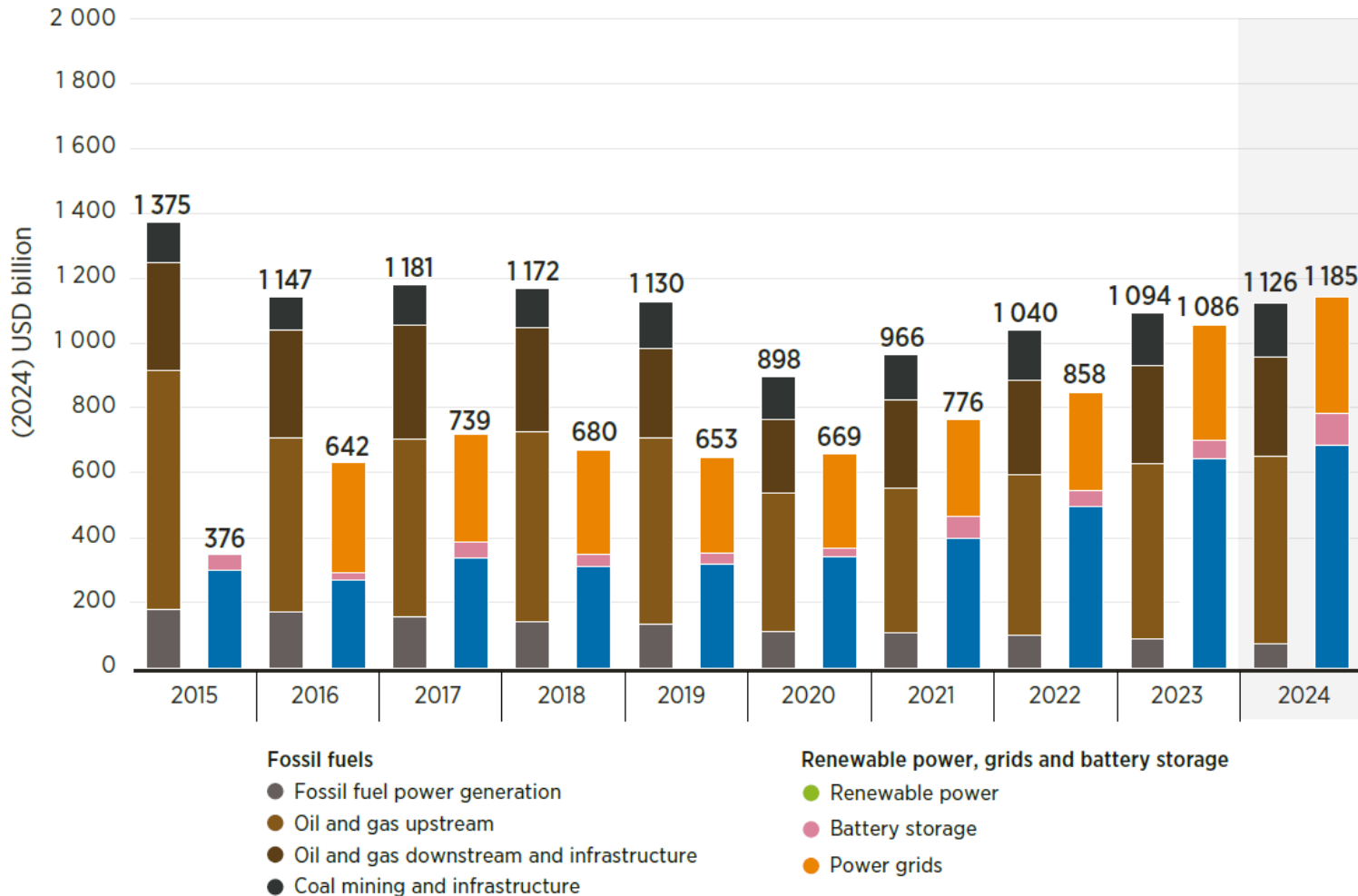


- **Strongest momentum in emerging regions:** Eurasia (+130%), Rest of Asia (+77%), MENA (+62%)
- **Europe and North America/Oceania** show steady gains, keeping one-third of global investment
- **China remains the largest market**, though its investment growth slowed (+6%)

Fossil fuel investments versus pledge to triple renewables

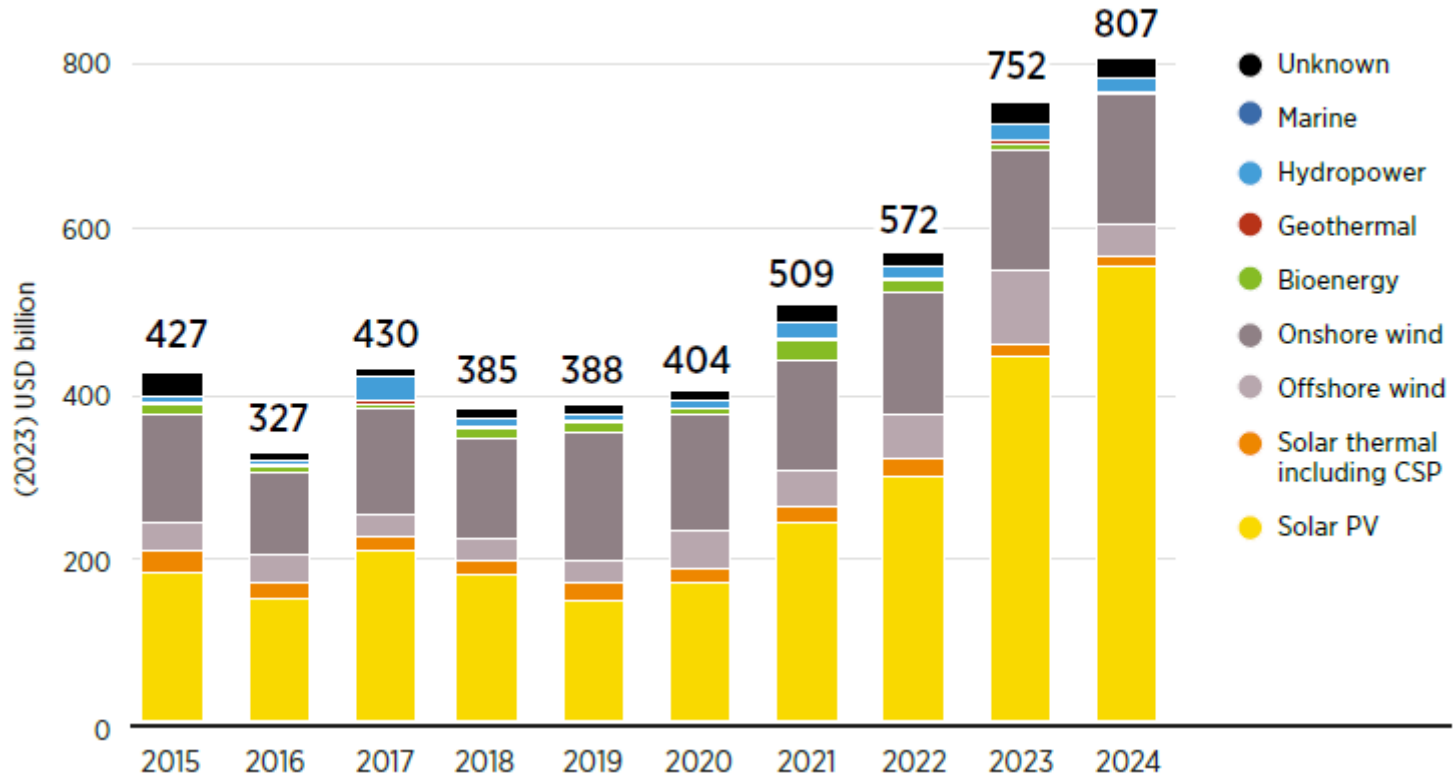


Annual investment in renewables, grids, and storage vs. fossil fuels, 2015-2024



- However, **fossil fuel investments have been increasing** since hitting a low in 2020
- **Public resources – esp. subsidies** - continue to drive these investments and urgently need to be redirected to renewable energy
- For the first time, in 2024, investments in **renewable power, grids and storage exceeded fossil fuels**

Global renewable energy investments by technology, 2015-2024



- In **2024**, renewable energy investments reached **USD 807 billion**, adding a record-high of **582 GW**
- **USD 24b+** invested in **Brazil with household-led** funding for decentralised solar driving investments

Source: IRENA, and CPI, 2025

SUPPLY CHAINS

POLICY, REGULATION AND NDCs

WORKFORCE SKILLS AND DIVERSITY

INFRASTRUCTURE AND SYSTEM OPERATION

INTERNATIONAL COLLABORATION: FINANCE



International Renewable Energy Agency



شكرا لكم

谢谢

Thank you

Grazie

Merci

Спасибо

Gracias