



APEC Expert Groups joint meeting

Julian Prime, Head of Statistics
9 April 2025

PRESENTATION OUTLINE

1. IRENA overview
2. Monitoring of COP28 consensus:
tripling renewable capacity

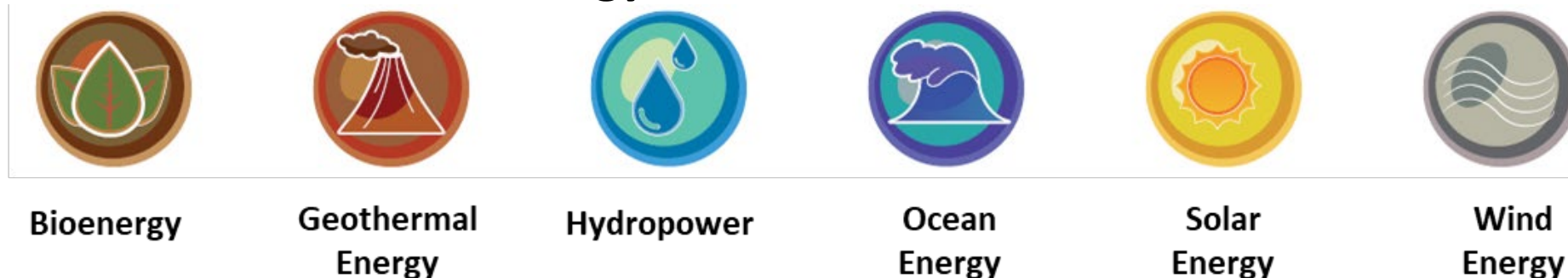
1. IRENA overview

2. Monitoring of COP28 consensus:
tripling renewable capacity

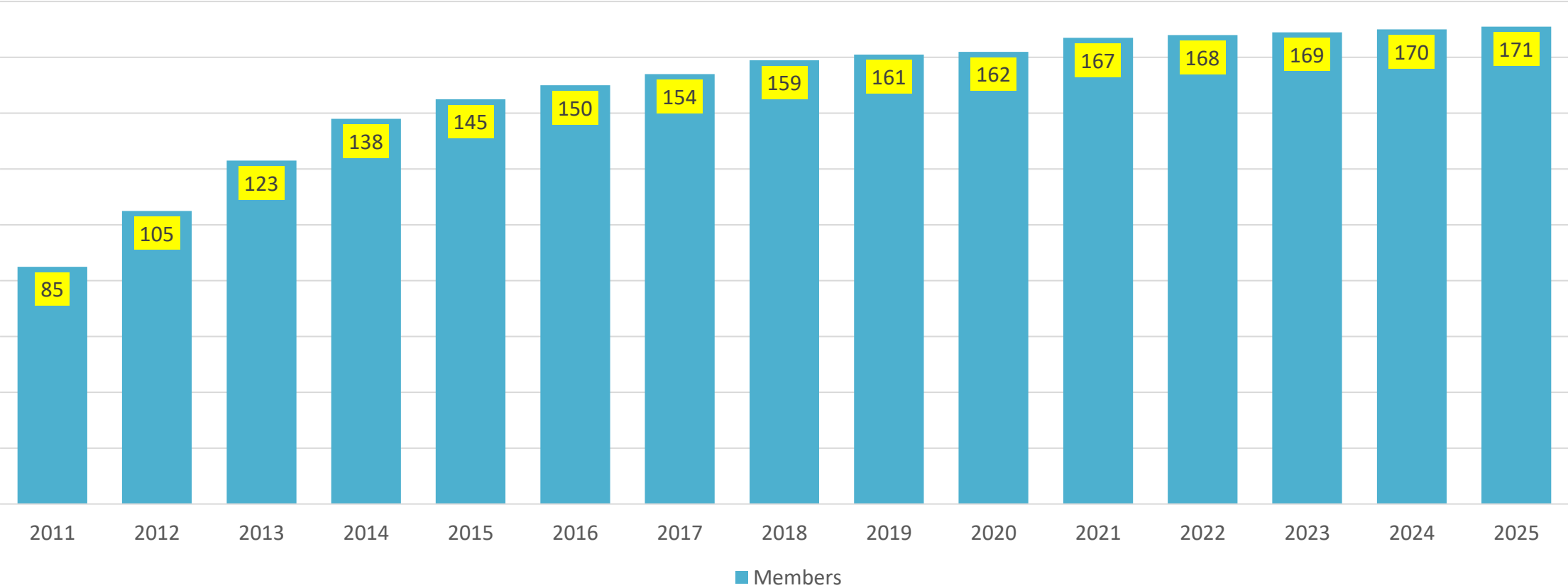
- » Established in 2011
- » Headquarters in Masdar City, Abu Dhabi, UAE
- » IRENA Innovation and Technology Centre – Bonn, Germany
- » Permanent Observer to the United Nations – New York, USA
- » International Liaison Office – Vienna (soon)

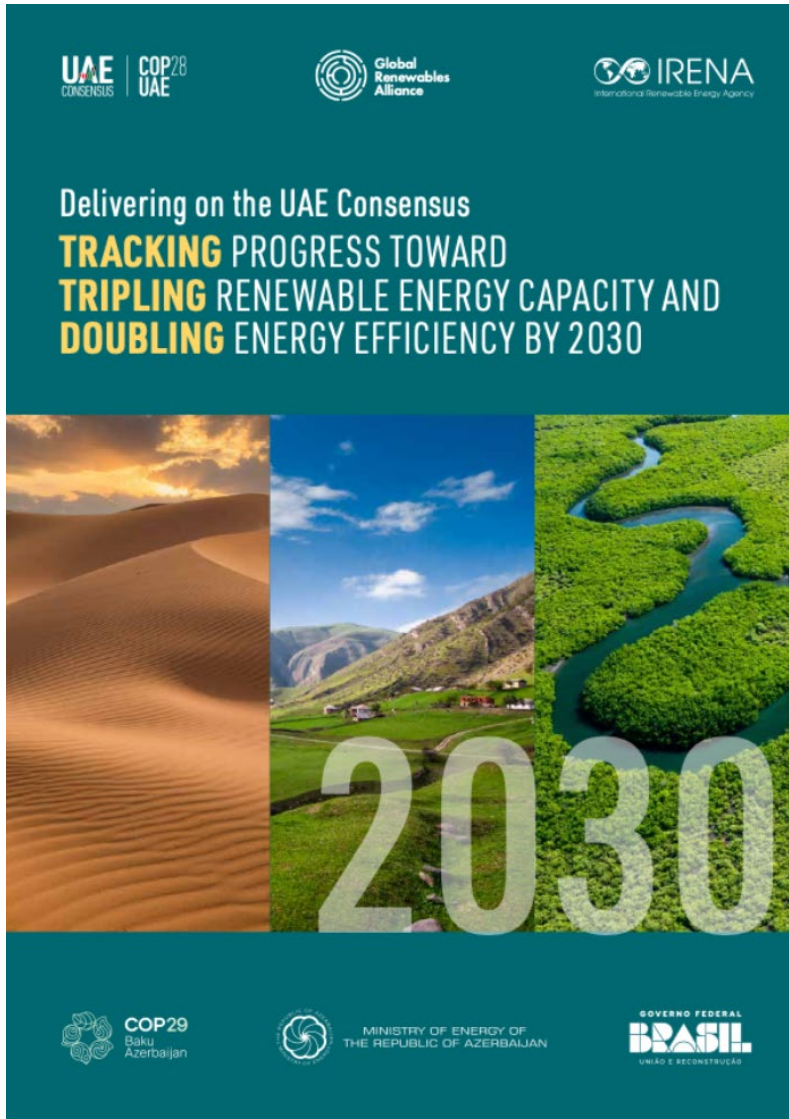
Mandate

To promote the widespread adoption and sustainable use of **all forms of renewable energy** worldwide



171 Members and 13 States in Accession





READ THE REPORT



1. IRENA overview

2. Monitoring of COP28 consensus:
tripling renewable capacity

IRENA data and analysis

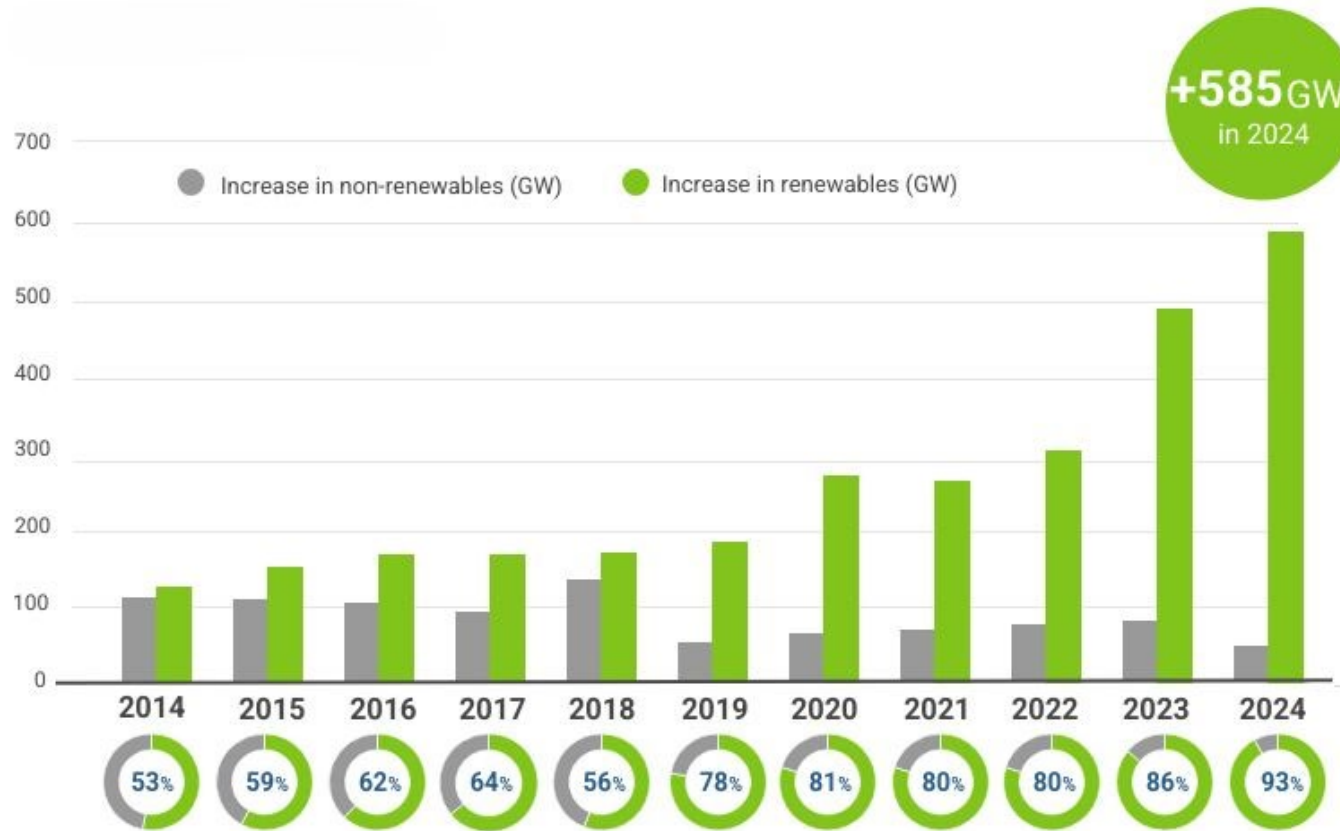


28. Further recognizes the need for deep, rapid and sustained reductions in greenhouse gas emissions in line with 1.5 °C pathways and calls on Parties to contribute to the following global efforts, in a nationally determined manner, taking into account the Paris Agreement and their different national circumstances, pathways and approaches:

(a) Tripling renewable energy capacity globally and doubling the global average annual rate of energy efficiency improvements by 2030;

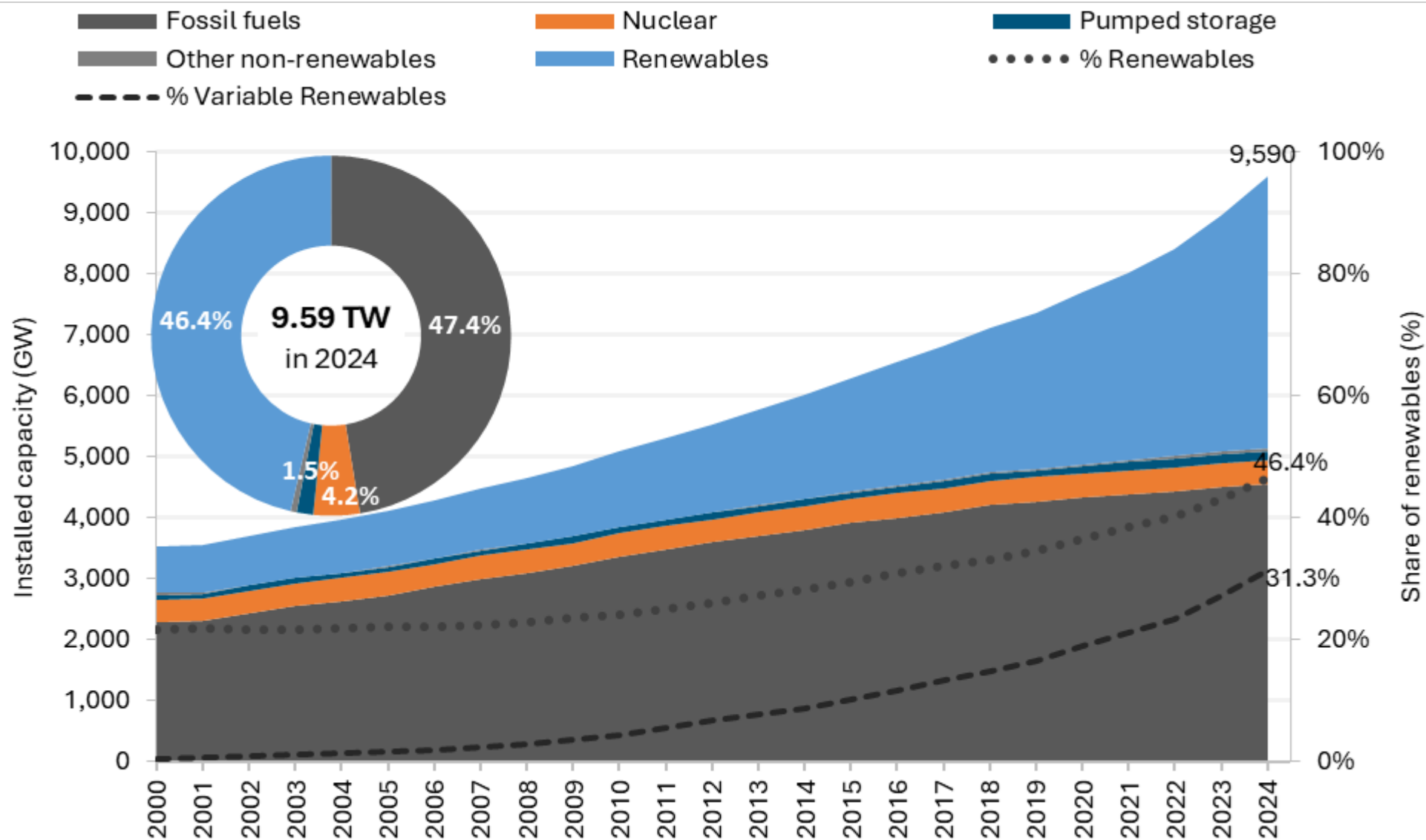
Unprecedented renewable growth in 2023 and 2024

Annual installed power capacity additions, 2014-2024.

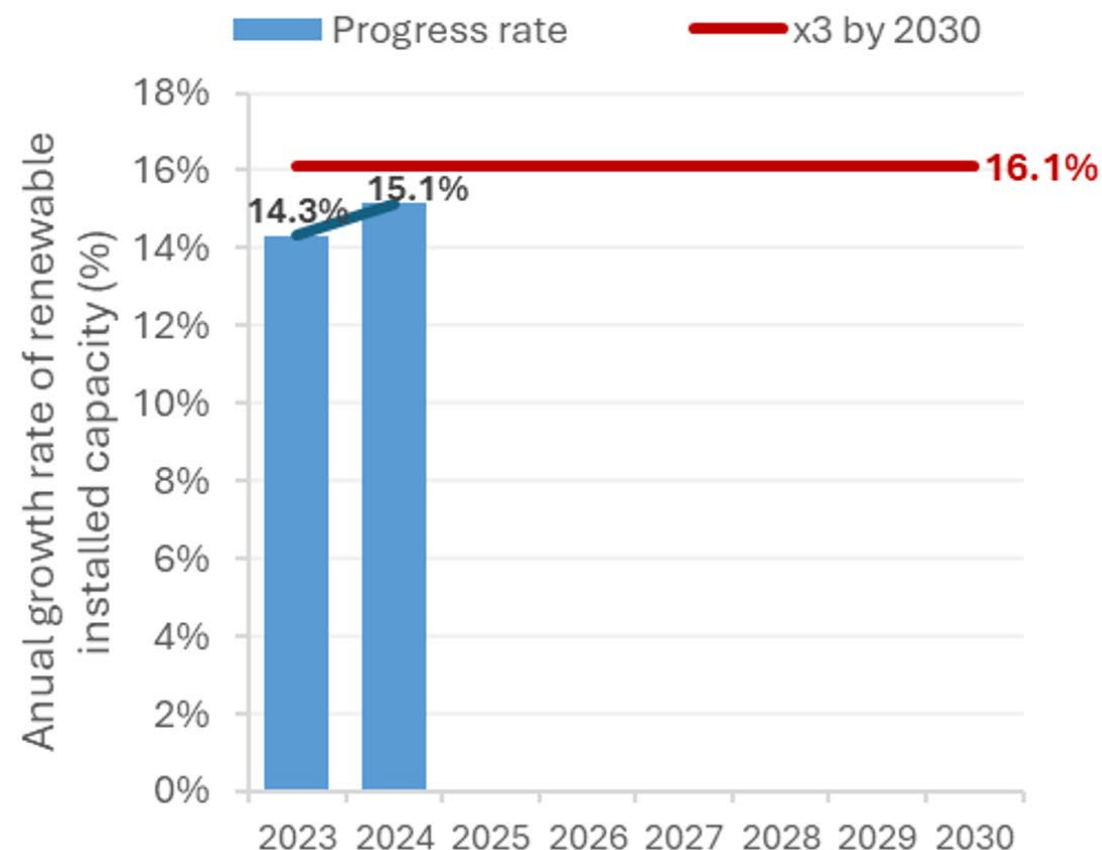
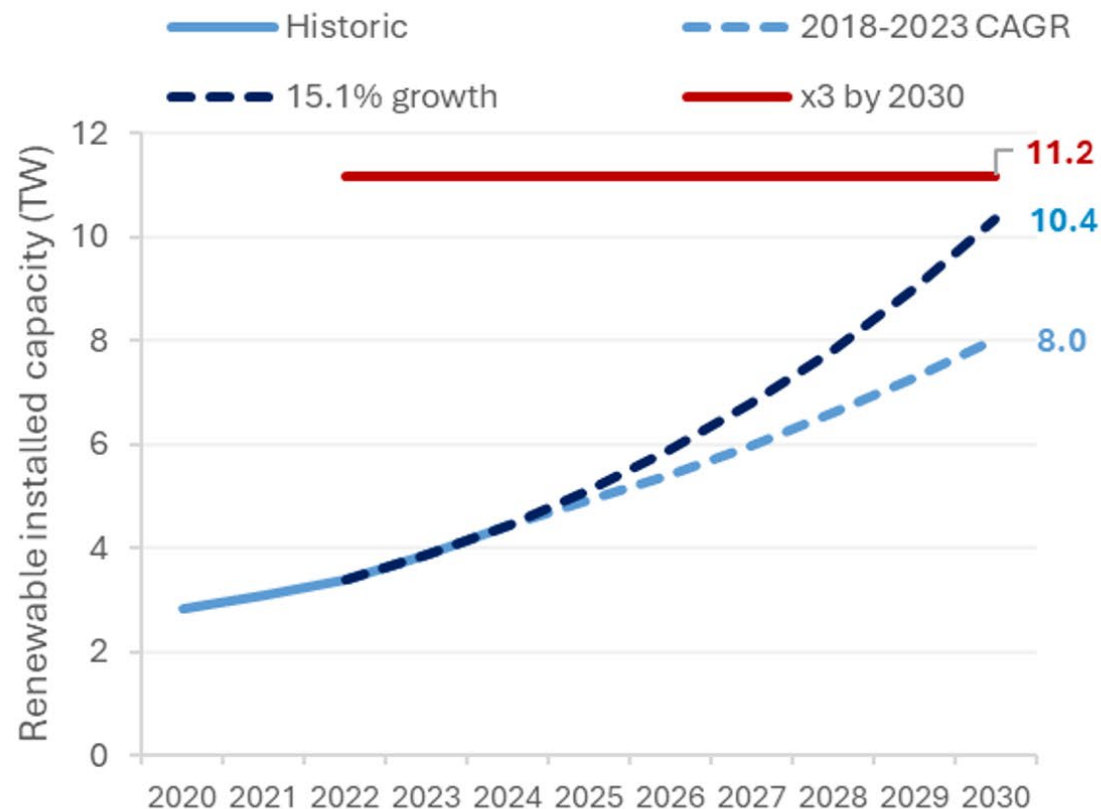


- Conducive **policies, geopolitical developments and falling costs**, have driven **renewable energy growth**.
- **Renewable capacity of 484 GW** added in **2023**, and a further **585 GW** in **2024** accounting for **86%** and **93%** of newly installed capacity.
- **Solar** energy accounted for **three-quarters** of this **growth**.
- New capacity was concentrated in **China, the EU and the US**, which collectively accounted for **82%** of additions in 2023 and **84%** in 2024.

Renewable capacity now 4.45TW growing 15.1% in 2024

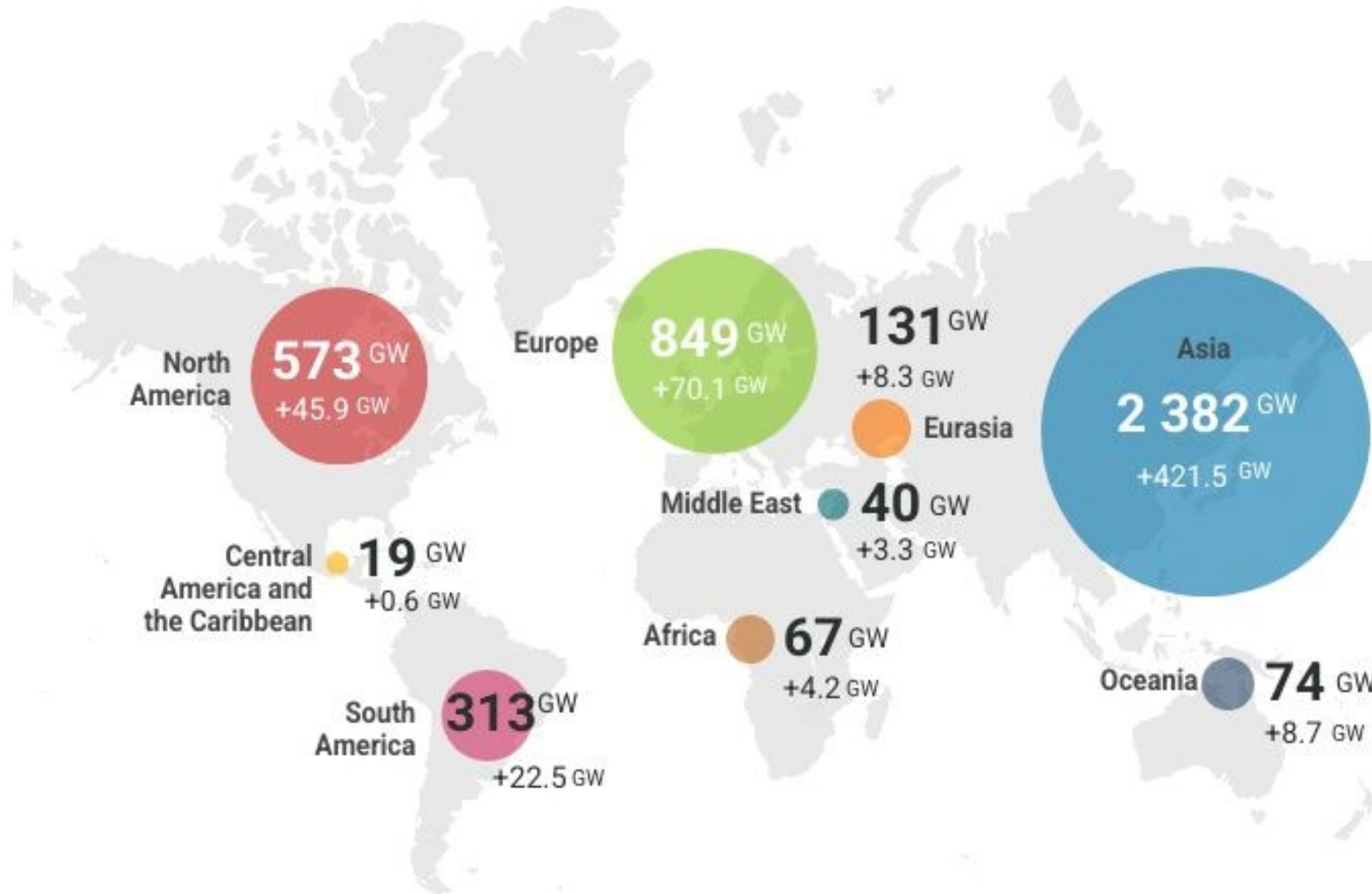


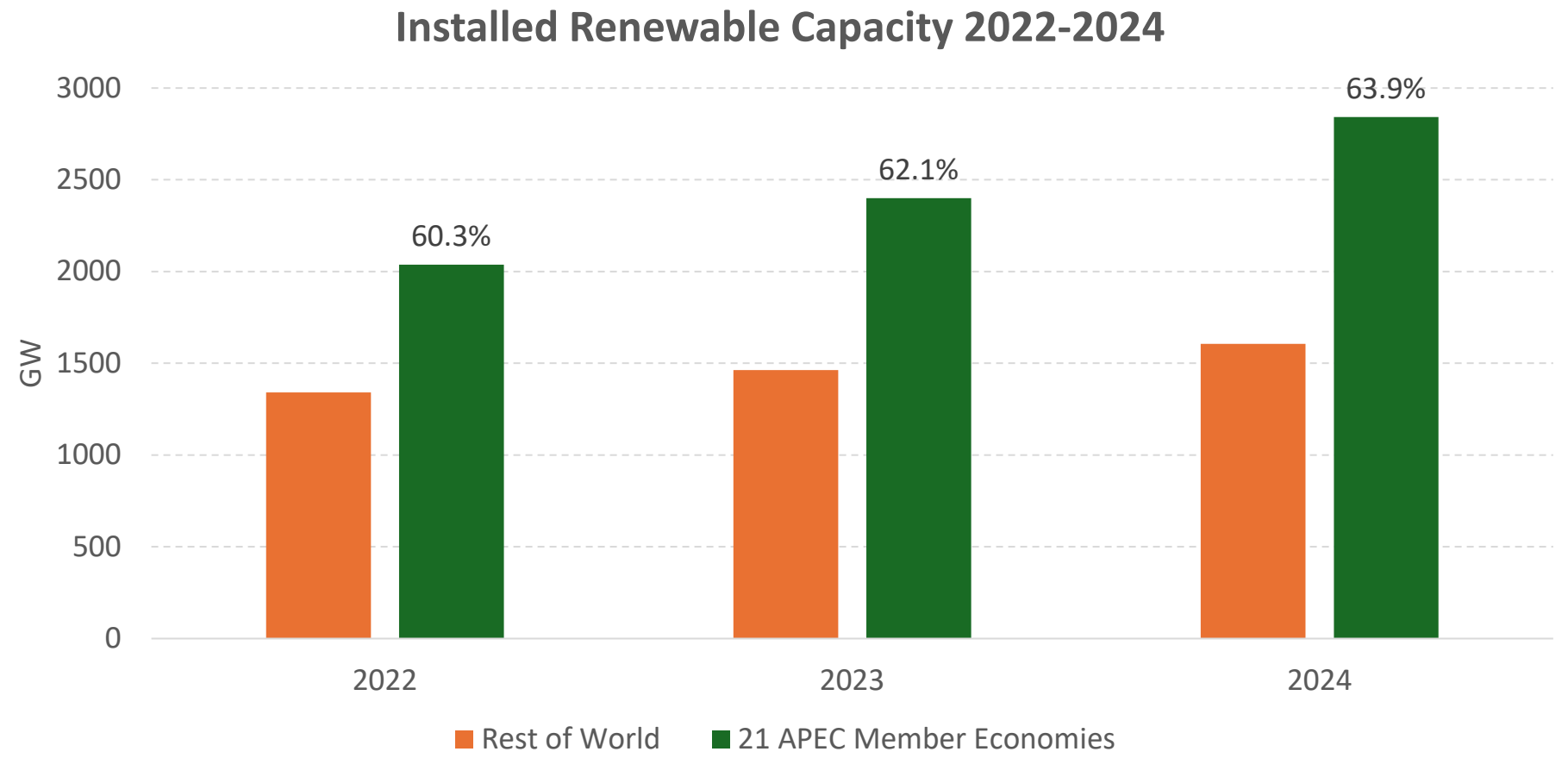
But more is needed to achieve the UAE consensus goal

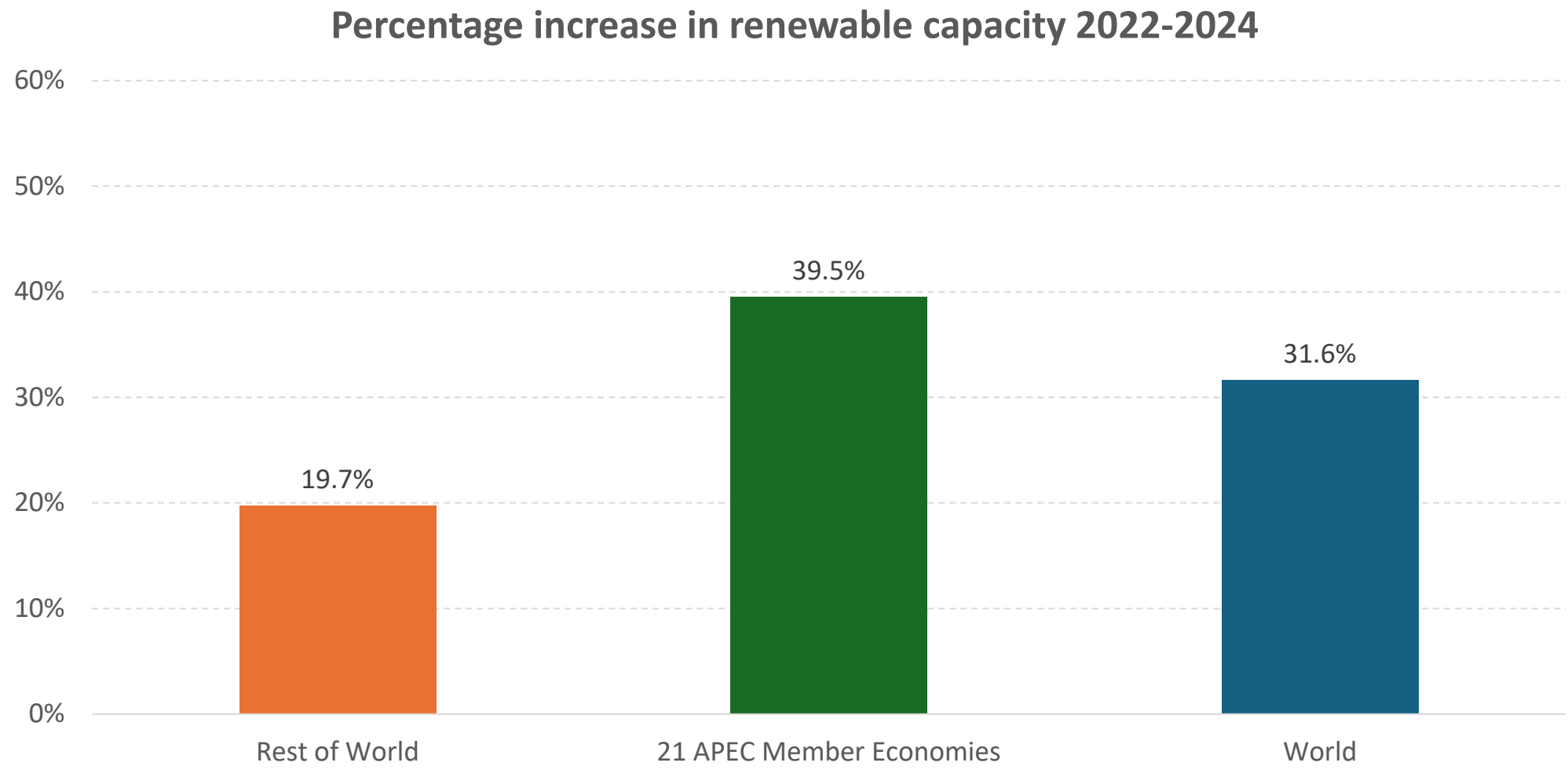


Uneven geographical deployment

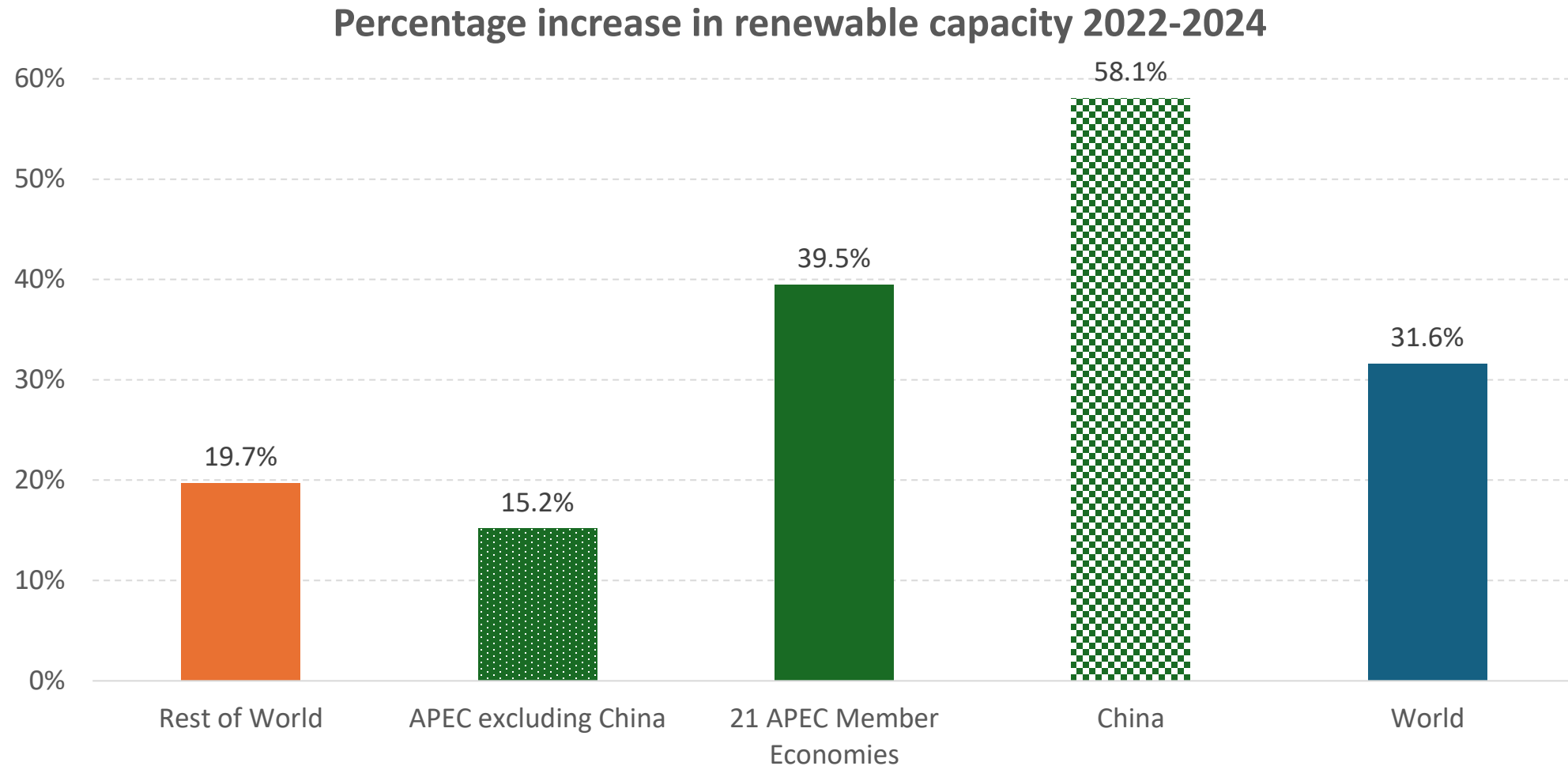
Renewable power capacity by region and additions in 2024.














How are APEC economies contributing to tripling capacity?



Accelerate energy efficiency and electrification

 ENERGY EFFICIENCY	RECENT YEARS	
Energy intensity improvement rate (%)	2% 	4% 
 ELECTRIFICATION OF END-USE CONSUMPTION	RECENT YEARS	2030
Electrification rate in TFEC (%)	23% 	30% 

Thank you

Contact

jprime@irena.org

statistics@irena.org