



# **APEC Expert Groups joint meeting**

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**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



Bioenergy



Geothermal  
Energy



Hydropower



Ocean  
Energy

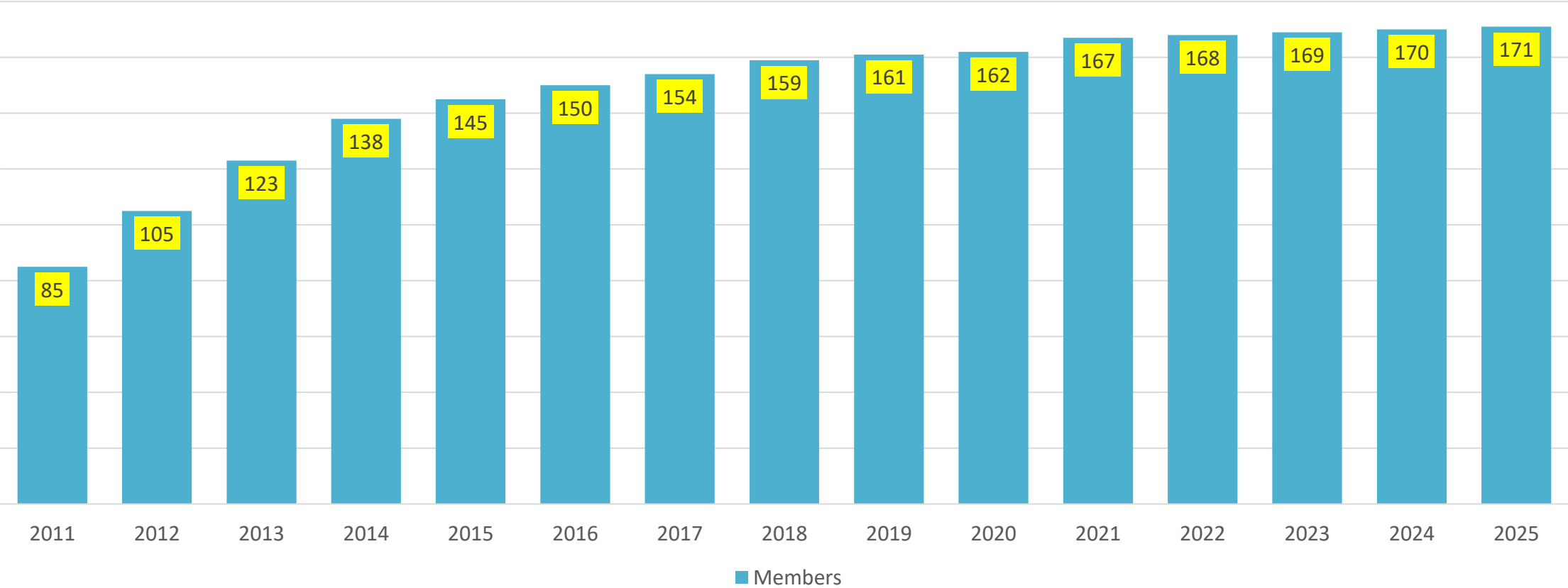


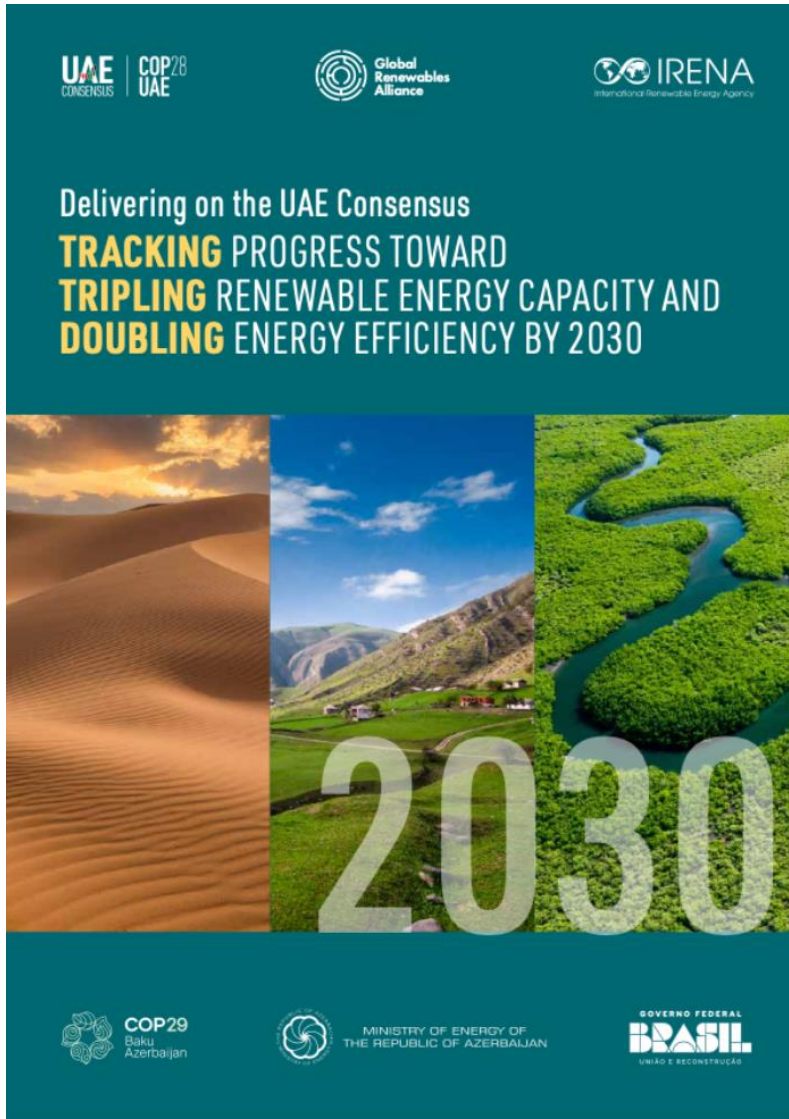
Solar  
Energy



Wind  
Energy

## 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



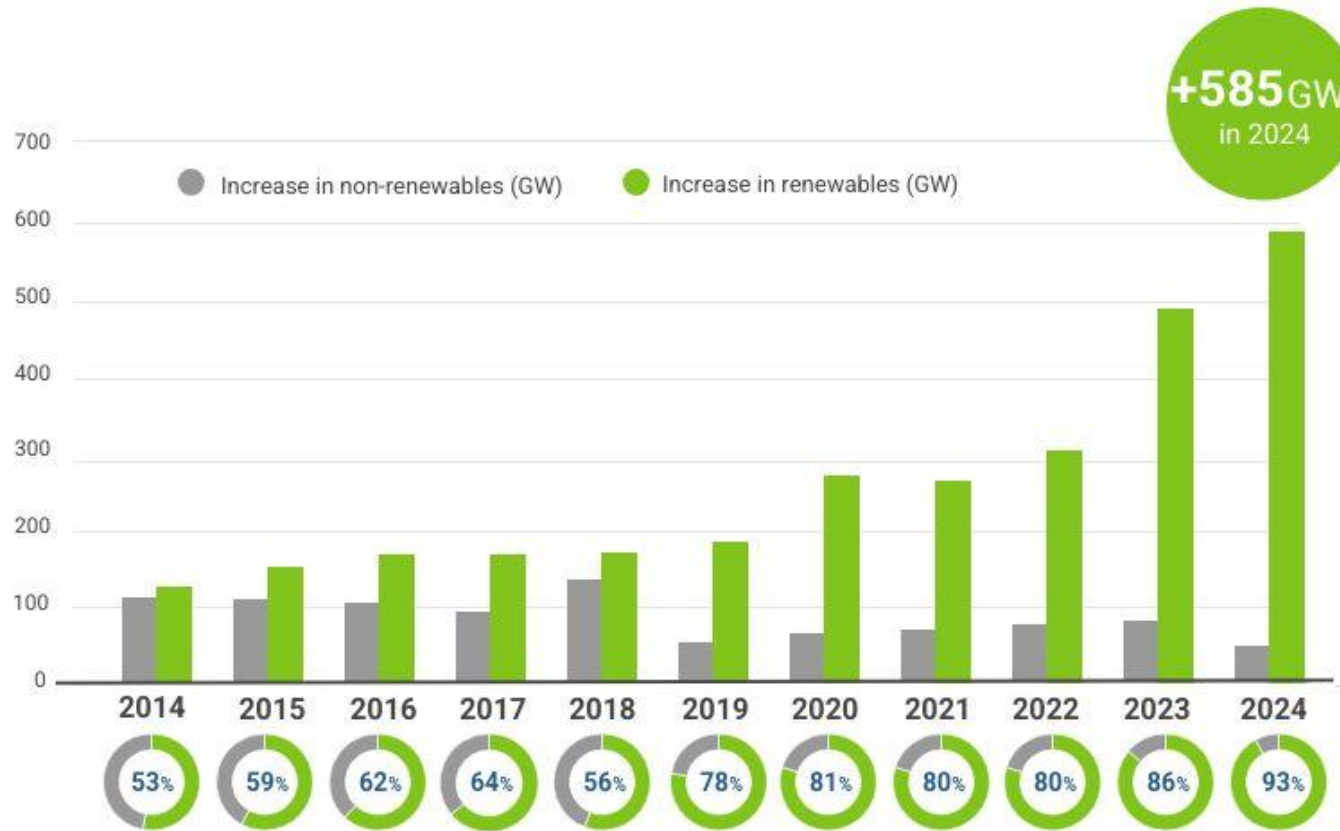
28. Further recognizes the need for deep, rapid and sustained reductions in greenhouse gas emissions in line with 1.5 °C pathways and calls on Parties to contribute to the following global efforts, in a nationally determined manner, taking into account the Paris Agreement and their different national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

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



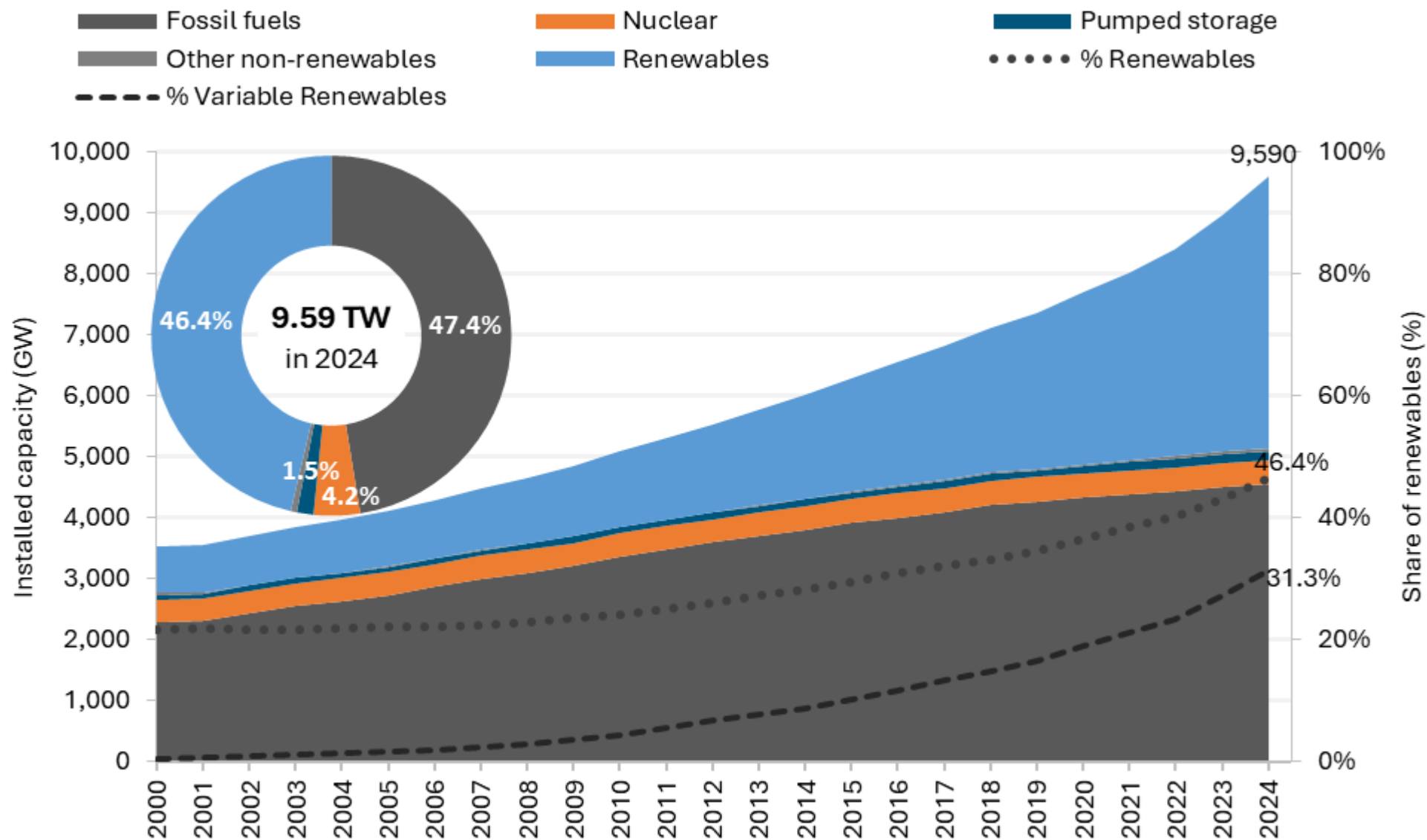
# Unprecedented renewable growth in 2023 and 2024

## Annual installed power capacity additions, 2014-2024.

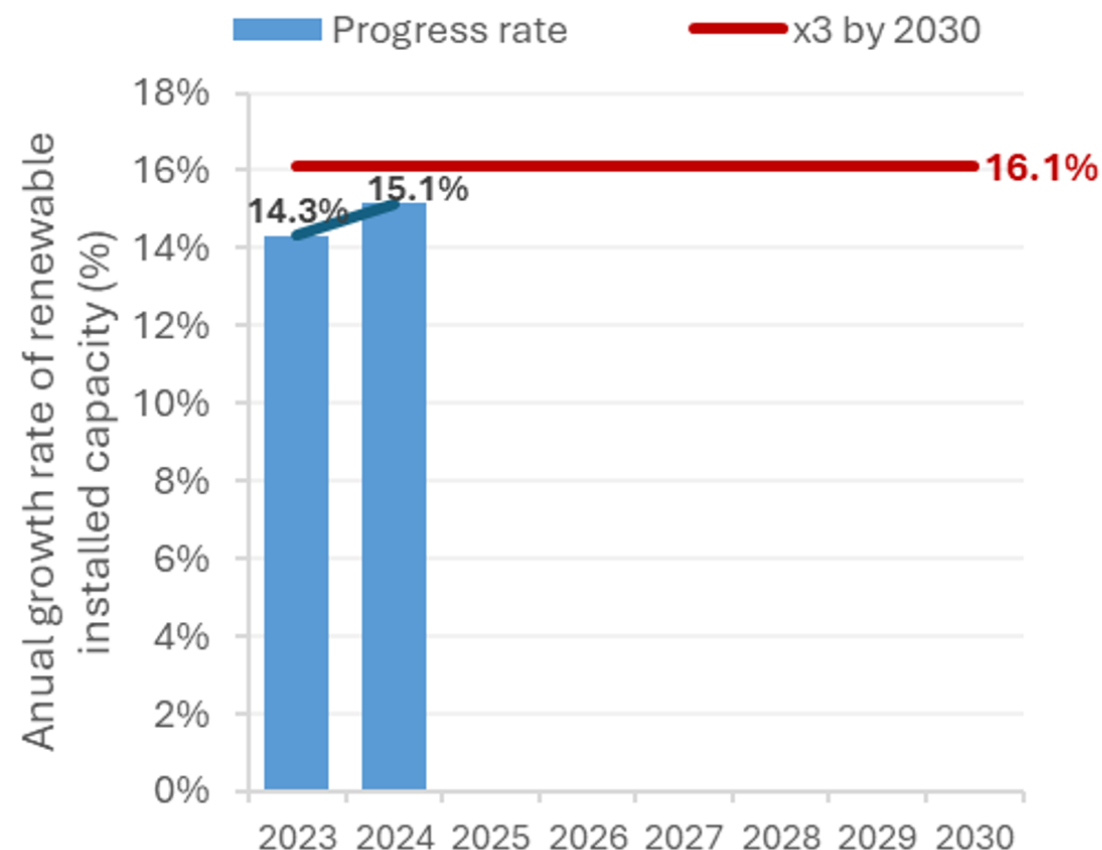
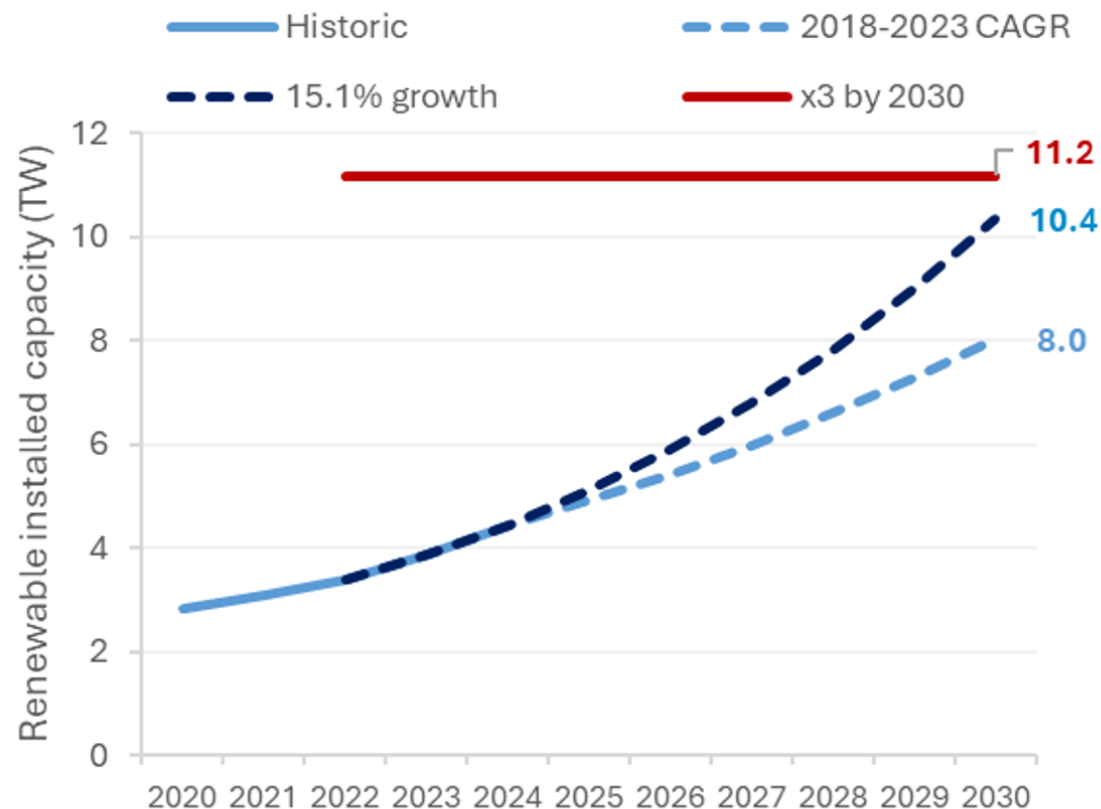


- Conducive **policies, geopolitical developments and falling costs**, have driven **renewable energy growth**.
- **Renewable capacity of 484 GW** added in **2023**, and a further **585 GW** in **2024** accounting for **86%** and **93%** of newly installed capacity.
- **Solar** energy accounted for **three-quarters** 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

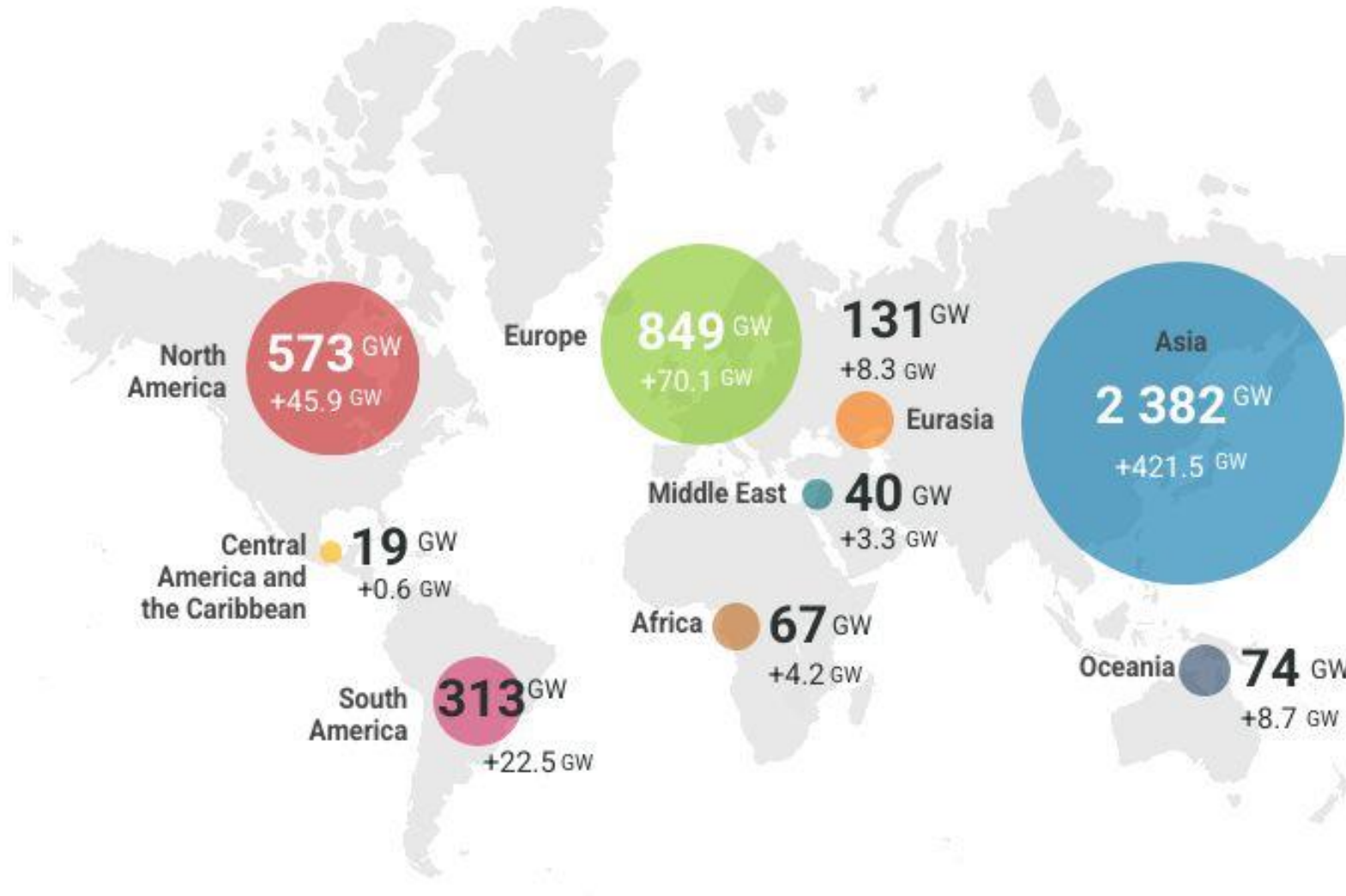


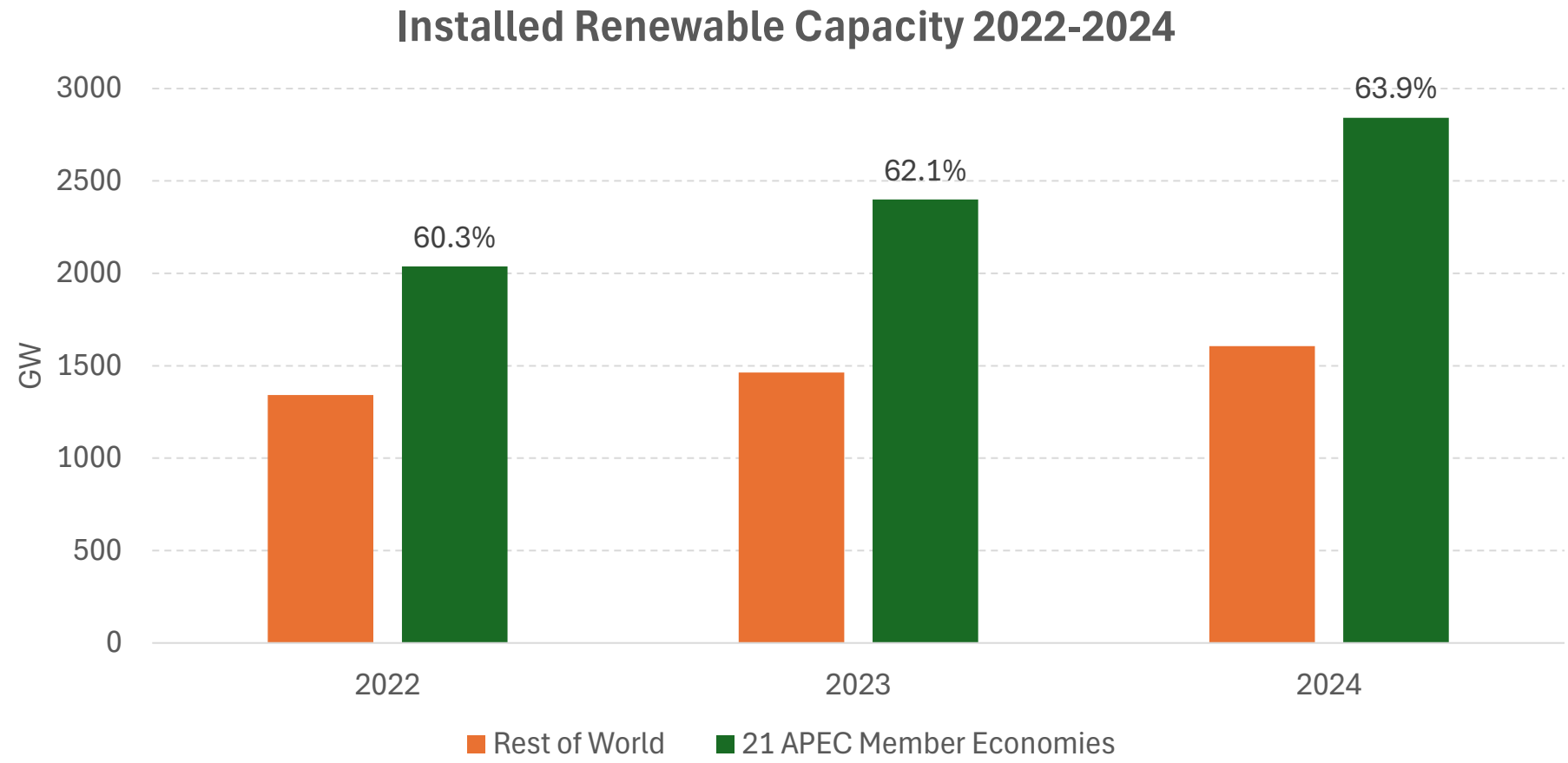
# But more is needed to achieve the UAE consensus goal



# Uneven geographical deployment

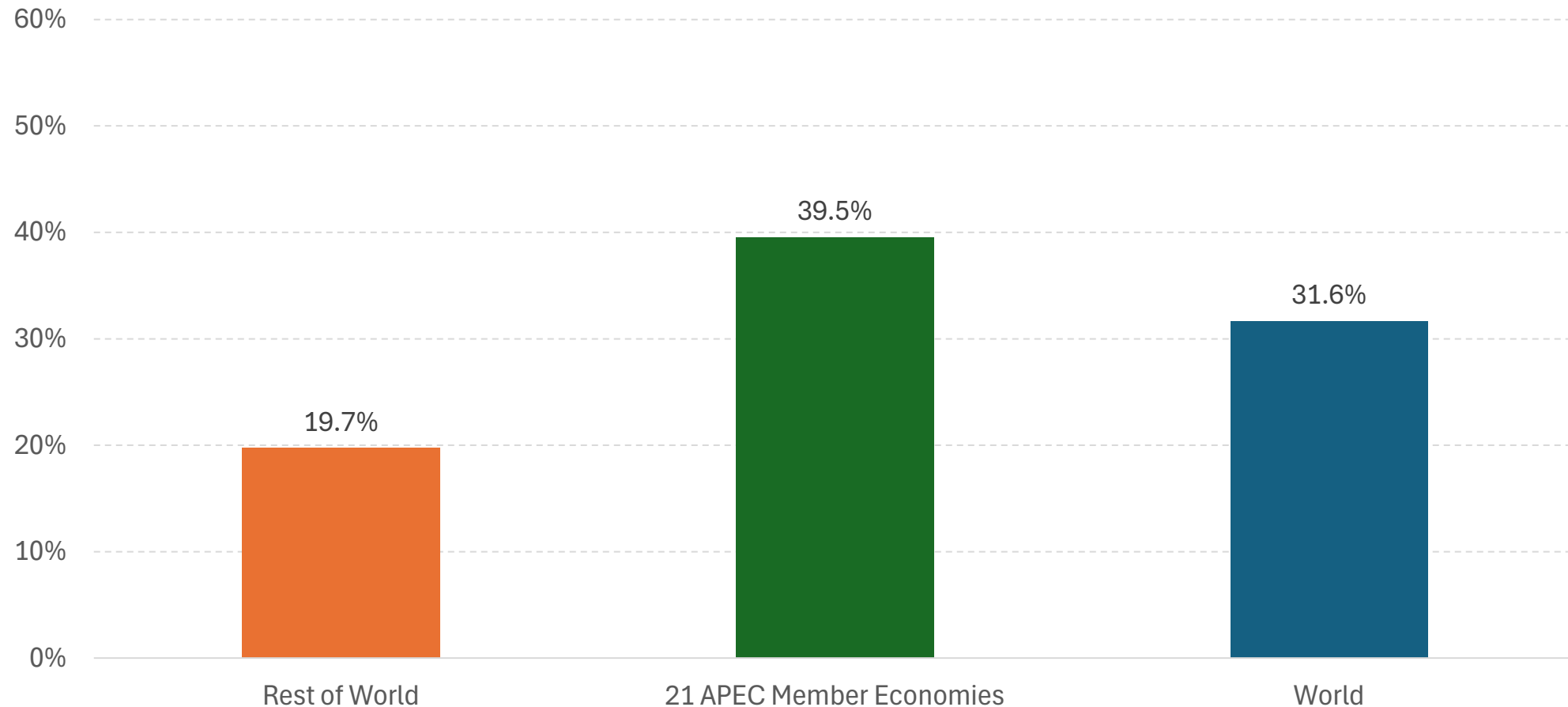
Renewable power capacity by region and additions in 2024.





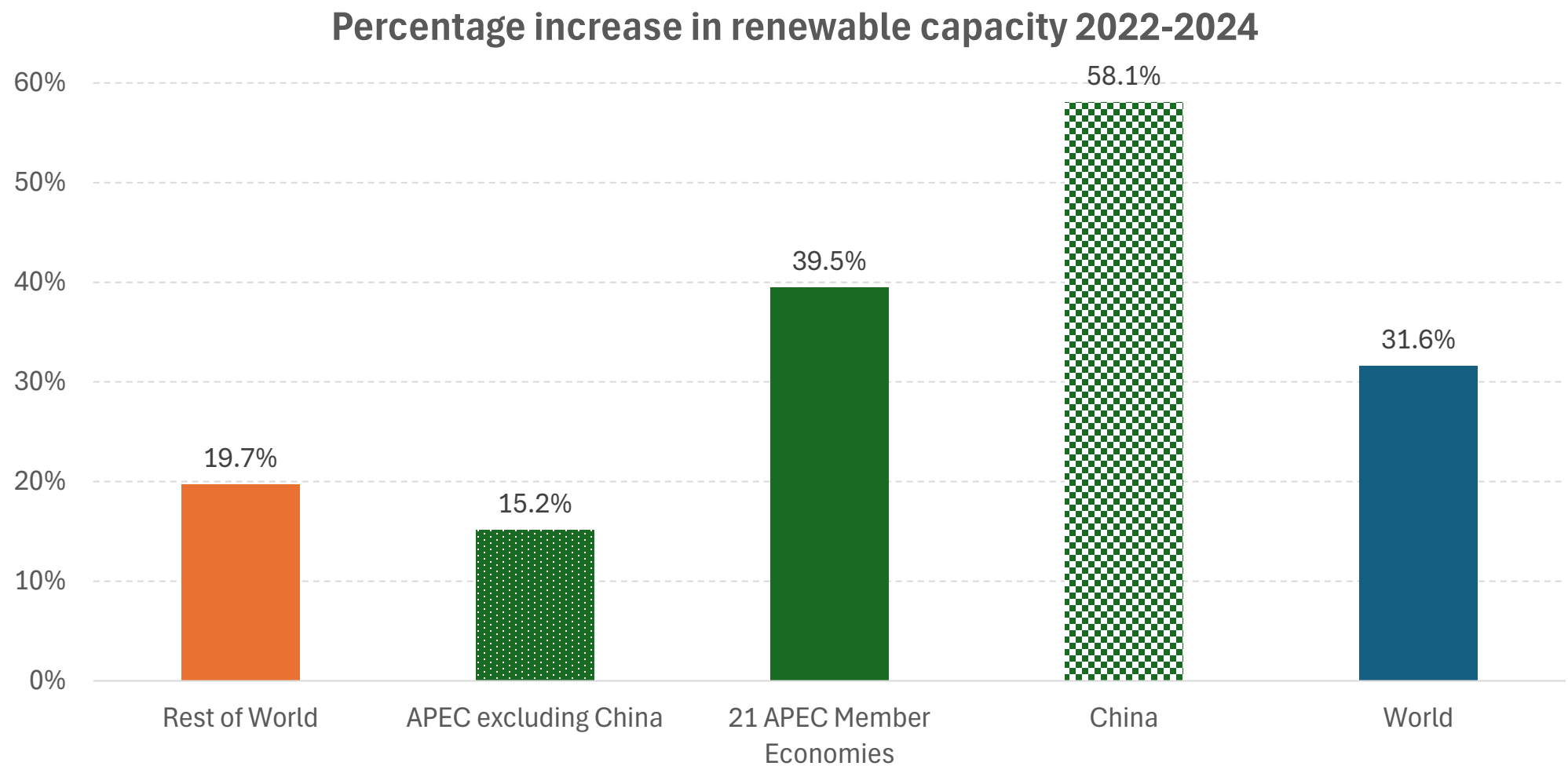
# How are APEC economies contributing to tripling capacity?

## Percentage increase in renewable capacity 2022-2024












# 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

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