



UNITED ARAB EMIRATES
MINISTRY OF ENERGY & INFRASTRUCTURE

UAE's Energy Transition

August 2025

The UAE Journey of Energy Transition

An ambitious journey

The climate action journey in the energy sector to reach net zero by 2050





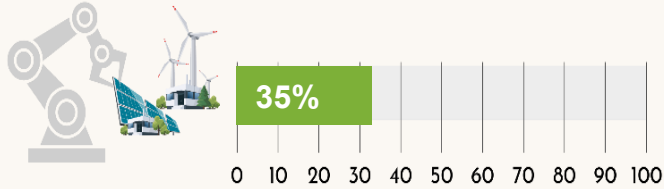
COP28
UAE

We will continue to solidify [the UAE's] **position as a reliable energy provider and supporter of global energy security** which is a backbone for **global economic growth and development**”

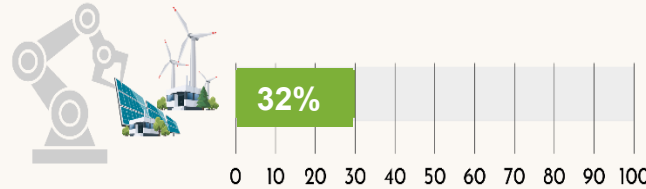
His Highness Sheikh Mohamed bin Zayed Al Nahyan
President of the United Arab Emirates Arabic



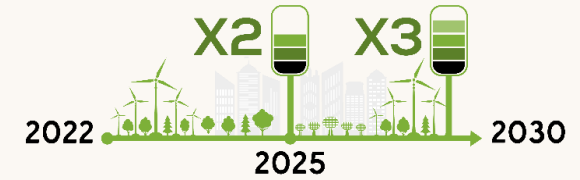
UAE's Energy Transition Targets



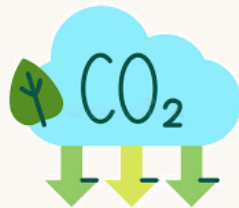
Share of clean energy
**generation 35% by
2030**



Share of **installed** clean
energy **capacity to 32%
by 2030**



Triple the capacity
of renewable energy
by 2030



Achieving **Grid emission
factor of 0.27 kg Co₂/kWh
by 2030**



Remove the share from the
clean coal in the current
and future energy mix to be
0%.



Increase individual and
institutional energy
consumption efficiency by up to
45 % by 2050

UAE's Grid Emission Factor Compared to Global Average



Cleanest electricity produced compared to the Middle East and Asia



Maintaining this rank until 2030

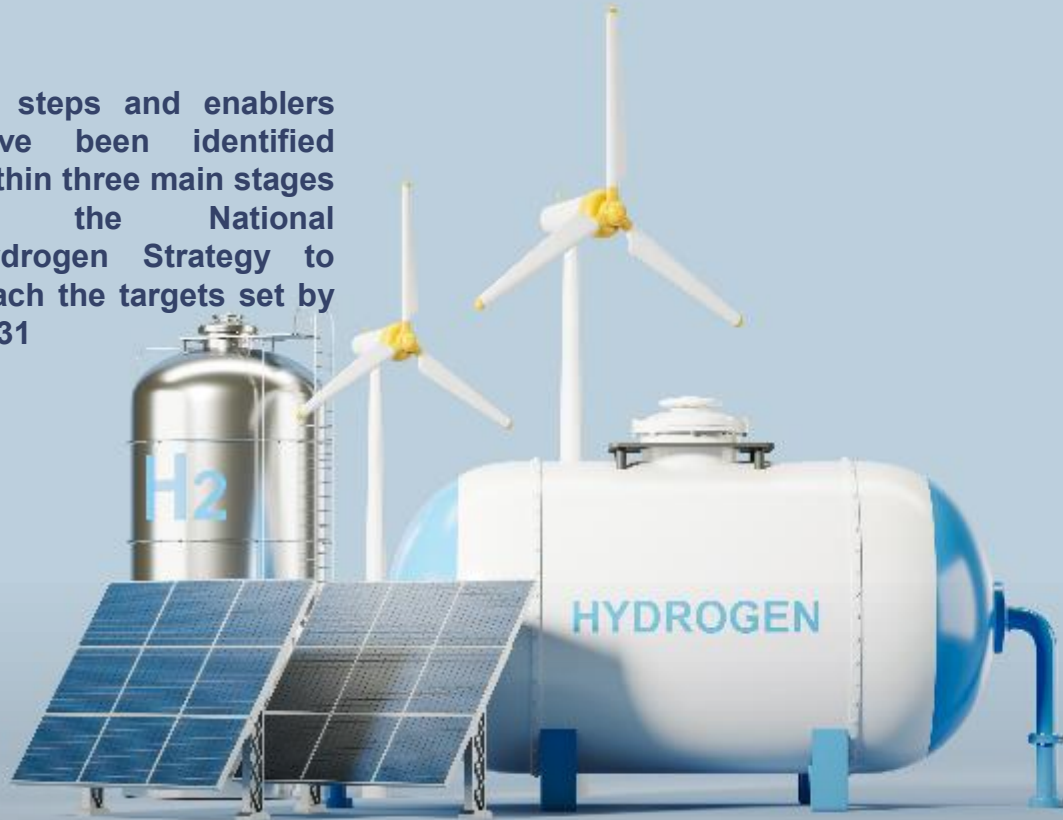
2030

The National Hydrogen Strategy 2050

We aspire for the UAE to become among the **top 10** leading countries
for hydrogen production by **2031**

In line with the 'We the UAE 2031' vision

10 steps and enablers have been identified within three main stages in the National Hydrogen Strategy to reach the targets set by 2031



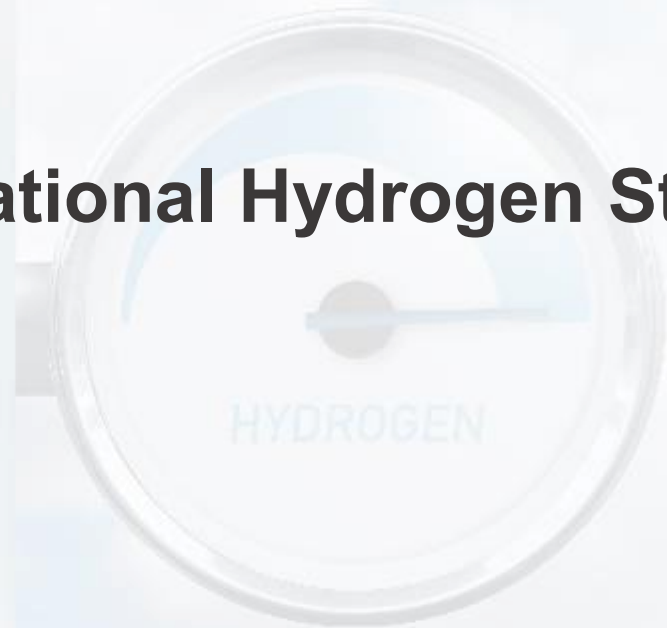
Develop a resilient hydrogen supply chain to support the growth of the local industry

Consolidate the UAE's role as a leading global producer and supplier of low-carbon hydrogen

Promote innovation in industrial zones in the UAE

Establish a robust hydrogen economy that can support the country's nationwide decarbonization efforts

The National Hydrogen Strategy 2050



2031 Targets

2050 Targets

25%

Reduce emissions in hard-to-abate sectors by

100%

1.4 MTPA

Hydrogen production per year

15 MTPA

Establishing a hydrogen R&D center

Hydrogen center

A globally recognized innovation center for hydrogen

2 hydrogen oases

Establishing several hydrogen oases in the UAE

5 hydrogen oases