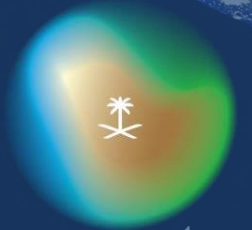


# 43rd JCCP International Symposium

## Global Energy Collaboration Powering a Sustainable Future

للطاقة وطن  
ENERGY HAS ITS HOME

وزارة الطاقة  
MINISTRY OF ENERGY



# The Kingdom of Saudi Arabia and Japan Strengthening Ties for a Sustainable Future



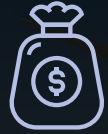
70 Years of Close Cooperation

في هذا العام 2025 ، تحتفل اليابان والمملكة العربية السعودية بالذكرى السبعين لتأسيس العلاقات الدبلوماسية بينهما

今年、2025年、日本とサウジアラビア王国は国交樹立70周年を迎えます。

This year 2025, Japan and the Kingdom of Saudi Arabia celebrate the 70th anniversary of the establishment of diplomatic relations

# The Kingdom of Saudi Arabia is a global Energy leader



17th Economy Worldwide

**\$ 1067B**  
GDP in 2023



Young and  
fast growing population

**32.2 M**  
~70% below 40 years old  
Population 2022 +1.0% p.a. 2020-2040

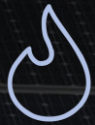


Ambitious  
Transformation Program



Crude Oil Producer  
Crude Oil Reserves

~ **8.9 MMBD** Production in 2024  
**267 BB** Proven reserves



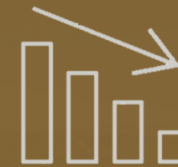
Natural Gas Producer  
Raw Gas Reserves

~ **9.9 BSCFD** Produced in 2024  
**341 TCF** Proven reserves

## Key Energy Transition Pillars



Energy Efficiency  
Enhancement



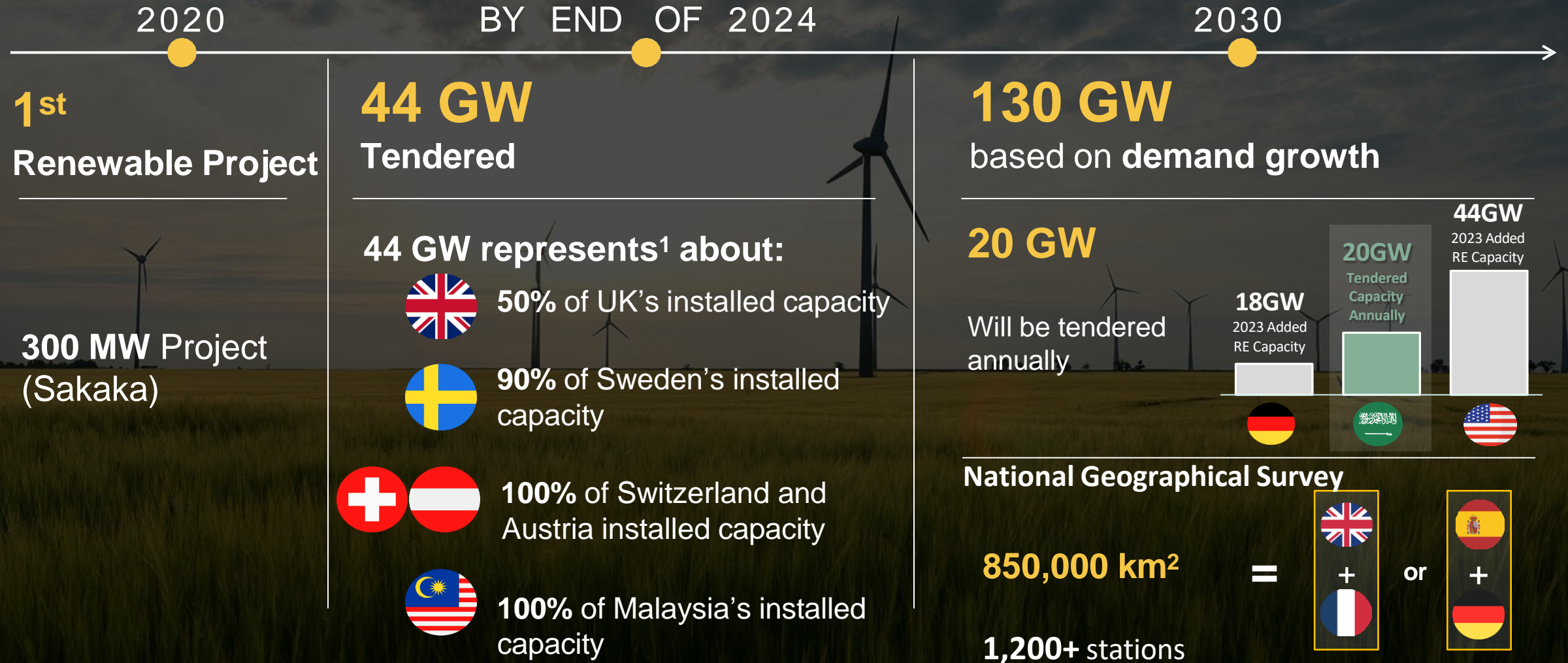
Emissions  
Management



Energy Mix  
Transformation

**Strong track record of supply reliability, with 99.8% of  
delivery obligations fulfilled within 24 hours**

# We are deploying **renewables** rapidly and at scale



# Power export driving global partnerships for a sustainable energy future

## KEY BENEFITS

To import cost-competitive renewable power

To achieve net-zero emission targets

To optimize electricity supply via capitalizing on renewable energy considering time zone differences

## KSA EXISTING AND UNDER CONSTRUCTION AGREEMENTS

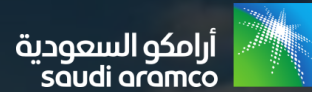


# KSA has made major strides in **clean hydrogen** and has greater ambitions looking forward

## CURRENT

## PROGRESS

## OUR AMBITION



- World's 1<sup>st</sup> cross-continental shipment of Clean H<sub>2</sub> to Japan
- 8+ commercial shipments of Clean Ammonia to Europe & Asia

- 
- 10% of the world's committed Clean H<sub>2</sub> capacity
  - World's largest Clean H<sub>2</sub> plants

- 
- KSA joins the International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE)

Export green energy in the form of renewable power and clean hydrogen

Domestically utilize and export clean products to decarbonize hard-to-abate sectors (e.g., green steel, green aluminum, e-fuels, clean chemicals, heavy duty vehicles, and shipping)

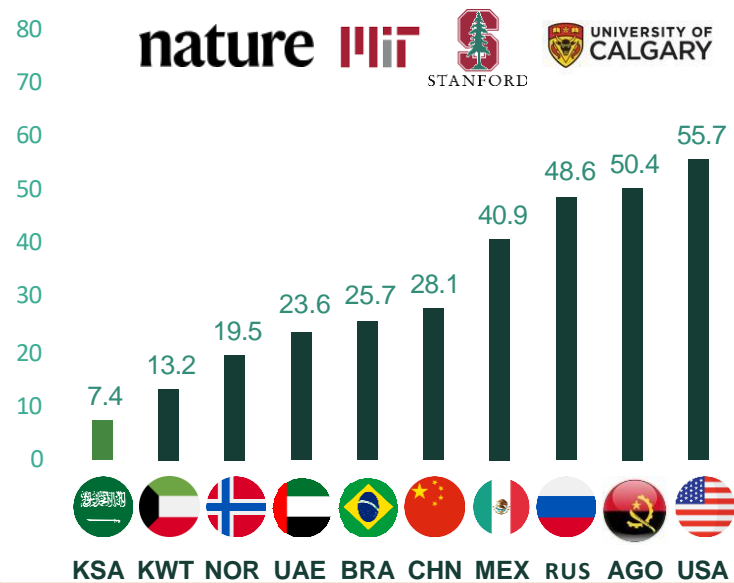
Supporting global efforts to develop the clean hydrogen economy and achieve net-zero emissions by 2060 or before under the Circular Carbon Economy framework.

# We are **leading in emissions** management

## Lowest upstream carbon intensity among major crude oil producers

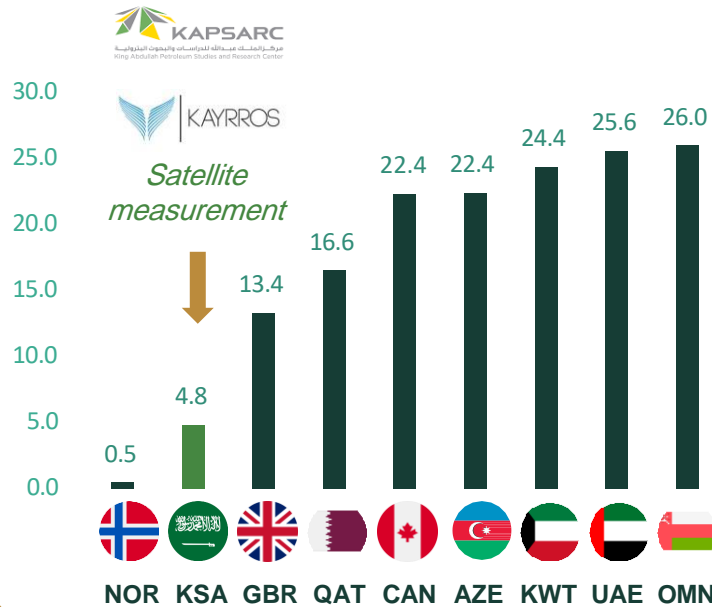
Average crude upstream carbon intensities for major producers, 2023 (kg CO<sub>2</sub>eq/bbl)

Journal and institutions of main contributors



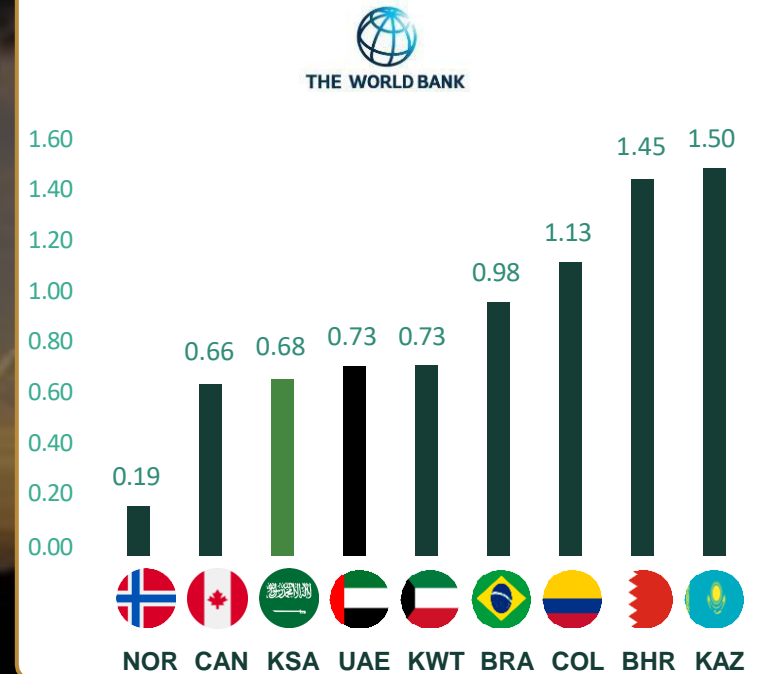
## 2<sup>nd</sup> lowest methane intensity from O&G amongst major O&G producing countries

Methane intensity ranking based on IEA data 2023 (kgCO<sub>2</sub> eq/boe)



## 3<sup>rd</sup> lowest flaring intensity among top 40 producers, after Norway and Canada

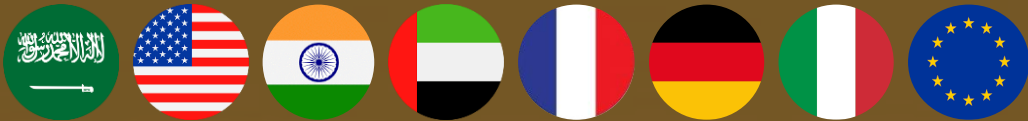
Flaring intensity for top 9 countries, 2023 (m<sup>3</sup>/bbl)



Notes and sources: Methane intensity (leftmost figure): [1] Nations with >1M boepd production ; [2] Annual oil and gas production data taken from Saudi Aramco, Global Data, and Rystad. KAPSARC study based on Kayrros data on satellite emissions; Flaring intensity (middle figure): Initially, the World Bank wrongly allocated flaring in the Saudi/Kuwait neutral zone to Saudi Arabia, however, they will redistribute the volume among Saudi and Kuwait based on the actual flaring locations in the future. The ranking shown above is after adjustment to take this into consideration. Carbon intensity (rightest chart): based on Dixit, Y., El-Houjeiri, H., Monfort, J.C. et al. Carbon intensity of global crude oil trading and market policy implications. Nat Commun 14, 5975 (2023); Data shown in the chart was supplemented with data from Masnadi et al (2018) which was used in this study to estimate the oil production carbon intensities using the latest version of the Oil Production Greenhouse Gas Emissions Estimator (OPGEE)

# Economic Corridor Connecting India, Middle East and Europe

A new economic corridor connecting India, the Middle East, and Europe to strengthen global trade and energy integration



Development of critical infrastructure railways, ports, and pipelines

Reduced transport distances, leading to lower emissions and greater efficiency

Enabling the transfer of clean hydrogen and electricity to support energy security

Creating sustainable economic opportunities and jobs



# We are engaged with the **global community** to **deliver on our joint aspirations**

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**Saudi Arabia is actively collaborating with the global community to achieve shared aspirations for a sustainable and energy-secure future**

**> Net zero producers forum member**

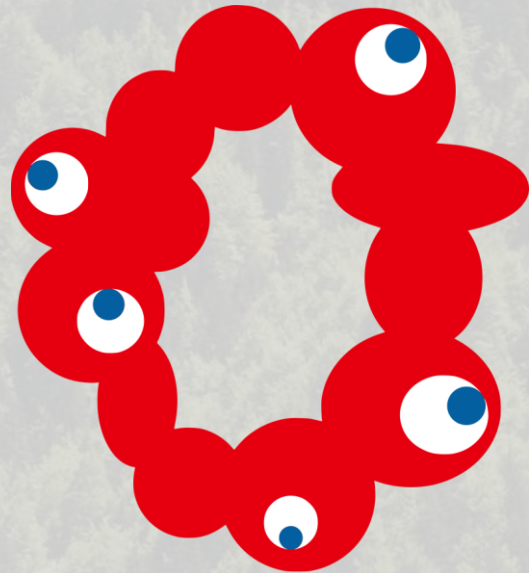
**> Global methane pledge participant**

**> World bank's zero routine flaring by 2030 initiative**

**> Saudi / Middle East green initiatives targets**

# World Expos global gathering of nations

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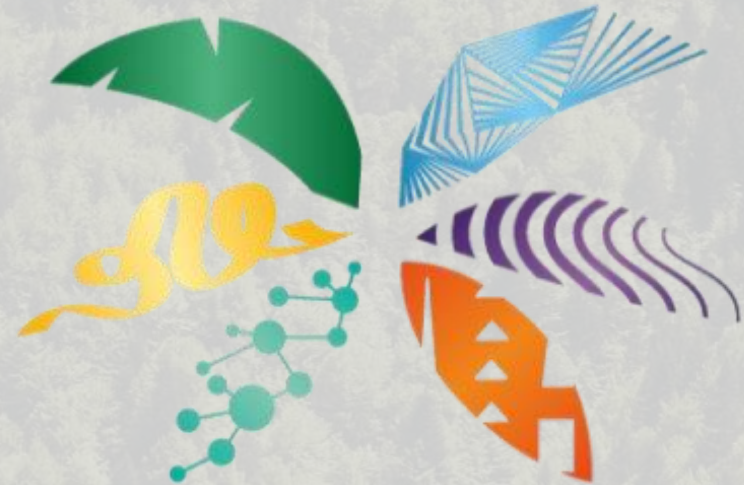


OSAKA, KANSAI, JAPAN

**EXPO**  
**2025**

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**Designing Future Society for Our Lives**



**RIYADH**  
KINGDOM OF SAUDI ARABIA  
**EXPO 2030**

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**Foresight for Tomorrow**