



# CCUS in the Middle East

## View from Saudi Arabia

Delivering on COP26: CCUS across the world  
September 08, 2021

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Saudi Aramco

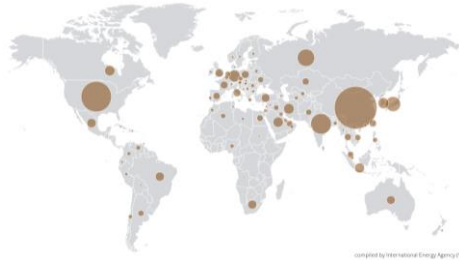
# Saudi Arabia

## energy & environmental challenges and opportunities

- **Energy Abundance**



- **Emissions**



- **Harsh and hot environment**



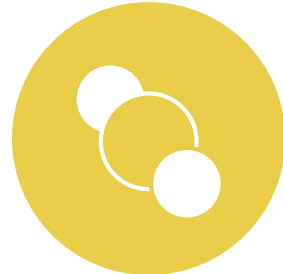
- CCUS aligns economic development aspirations and environmental imperatives
- Emissions management requires a holistic approach that integrate natural resources and environmental challenges

# Circular Carbon Economy

offers a holistic and pragmatic approach to climate & energy



Reduce



Reuse



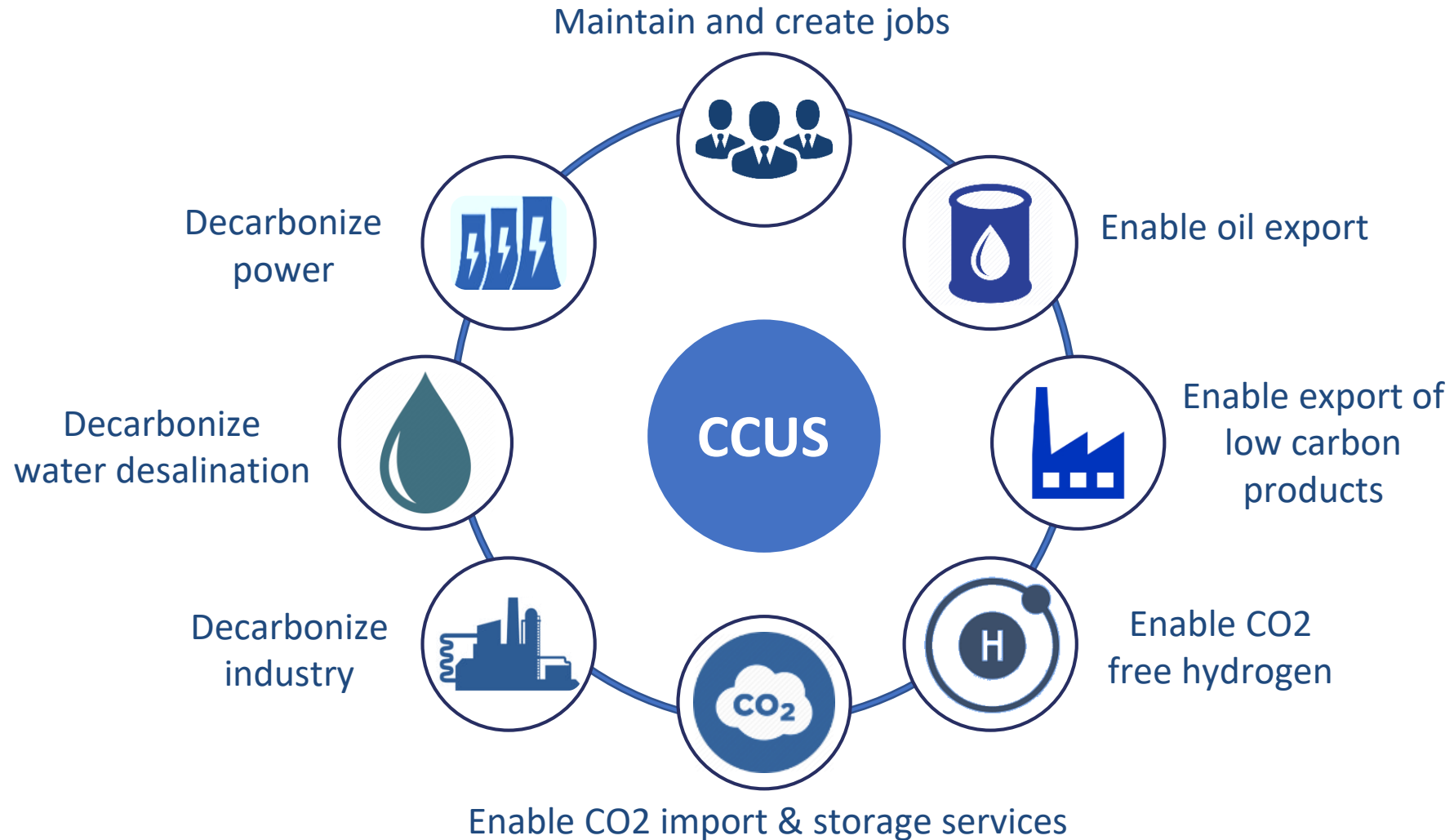
Recycle



Remove



# CCUS can unlock significant values for Saudi Arabia, spanning: Climate, economic diversification and clean oil export



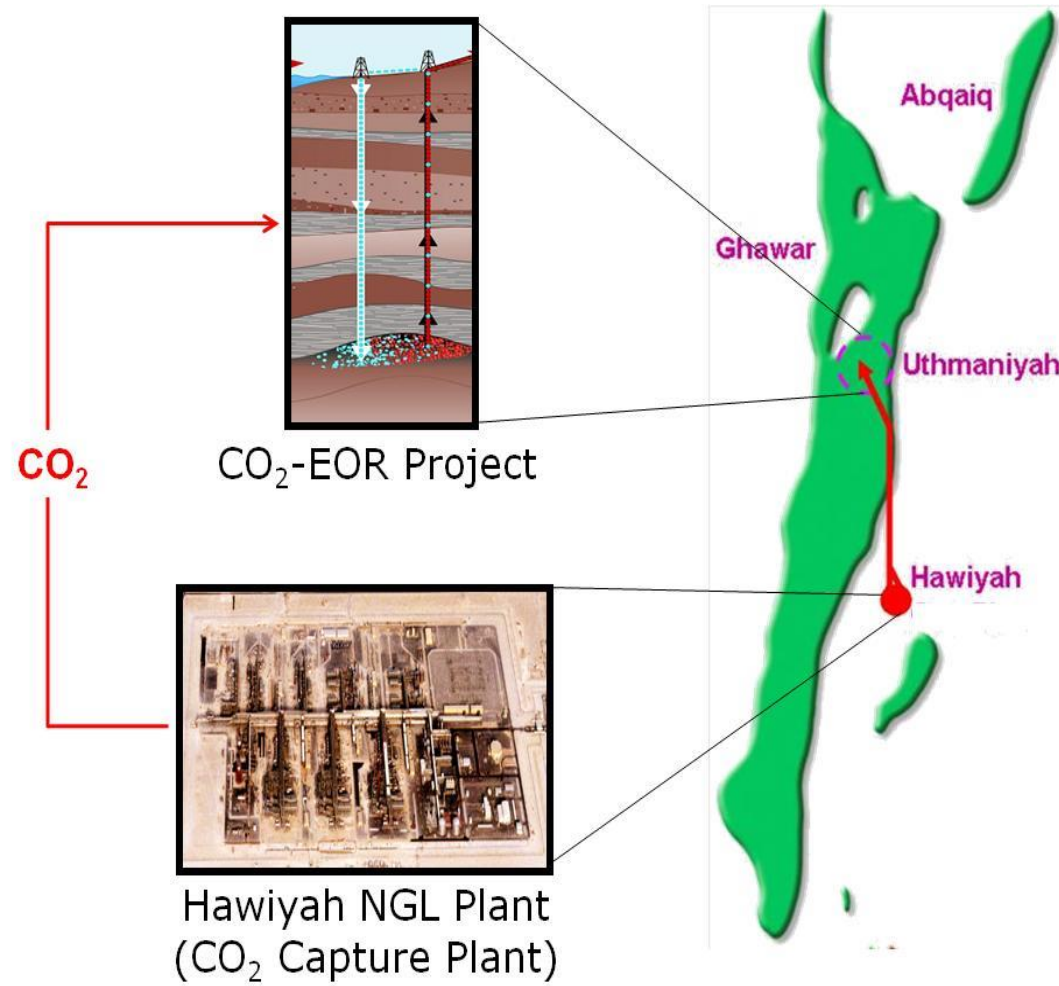
# Saudi Arabia CCUS capabilities

## Research, Technology, Policy Studies, Demonstration Plants



# Large scale CCUS plants in operation in Saudi Arabia

## Uthmaniyah CO<sub>2</sub>-EOR by Saudi Aramco



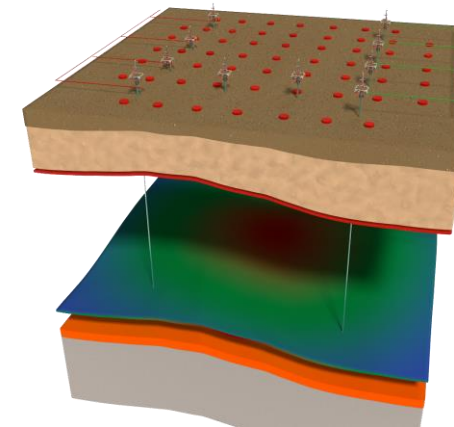
**0.8** MMtCO<sub>2</sub>/yr

Injected since 2015

**85** km

pipeline CO<sub>2</sub> transport

**Monitoring & Surveillance**





# Large scale CCUS plants in operation in Saudi Arabia

## CO2 to Chemicals by Sabic



**0.5** MMtCO<sub>2</sub>/yr  
Since 2015



- Methanol
- Urea
- CO<sub>2</sub> for F&B

Thank you