



UNITED ARAB EMIRATES
MINISTRY OF ENERGY & INDUSTRY

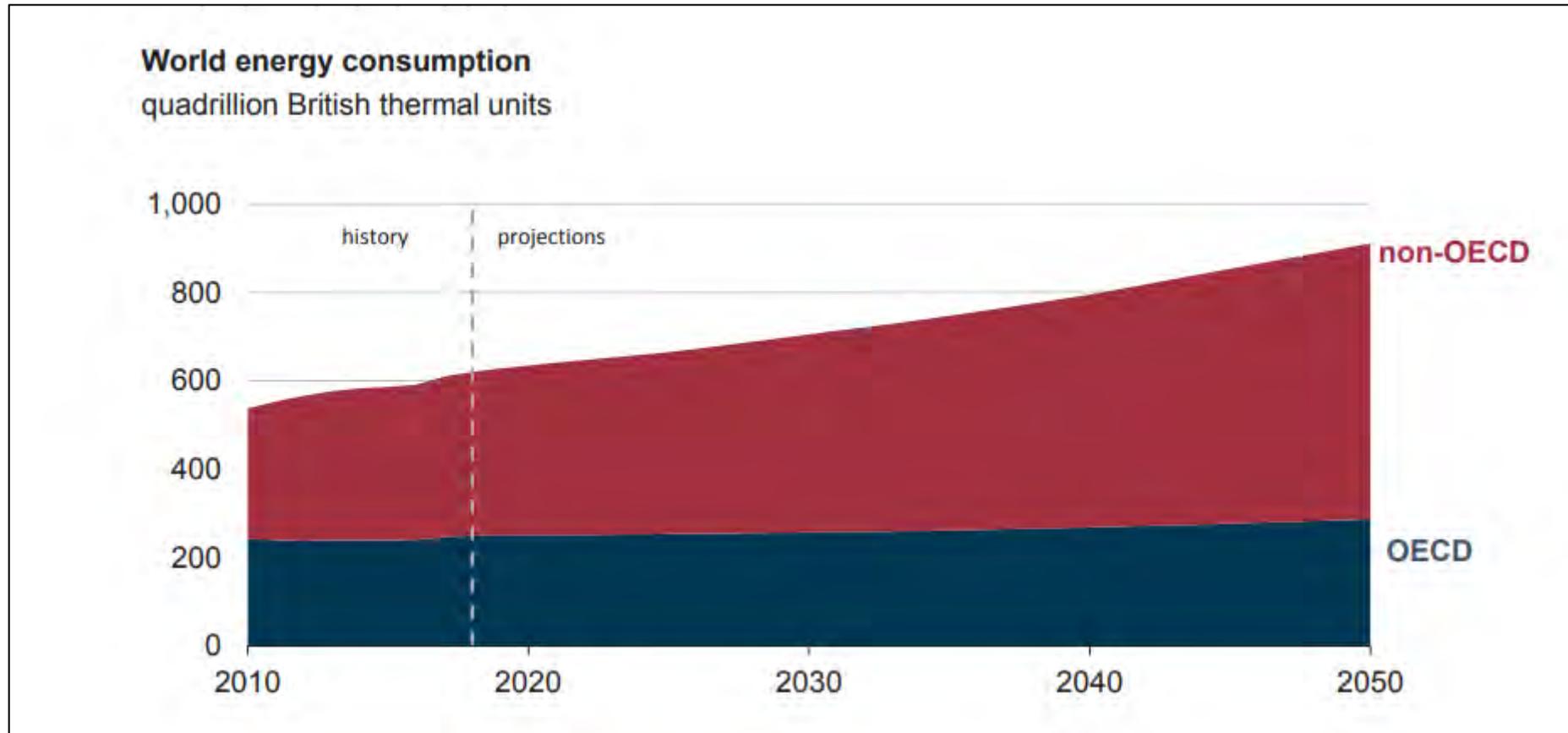
Clean Energy: A Balanced Outlook

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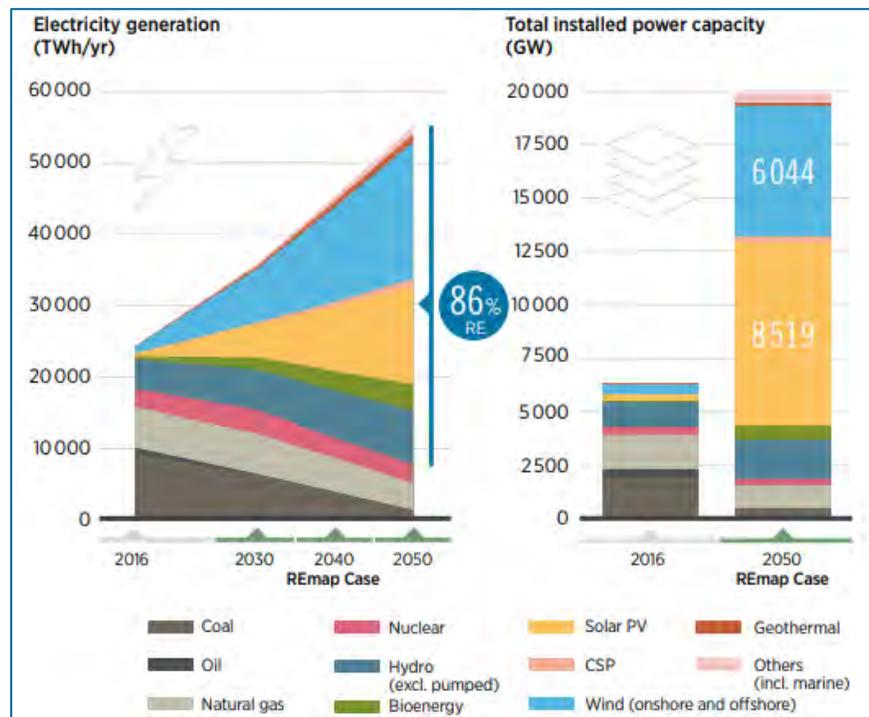


Energy Demand Continues to Grow



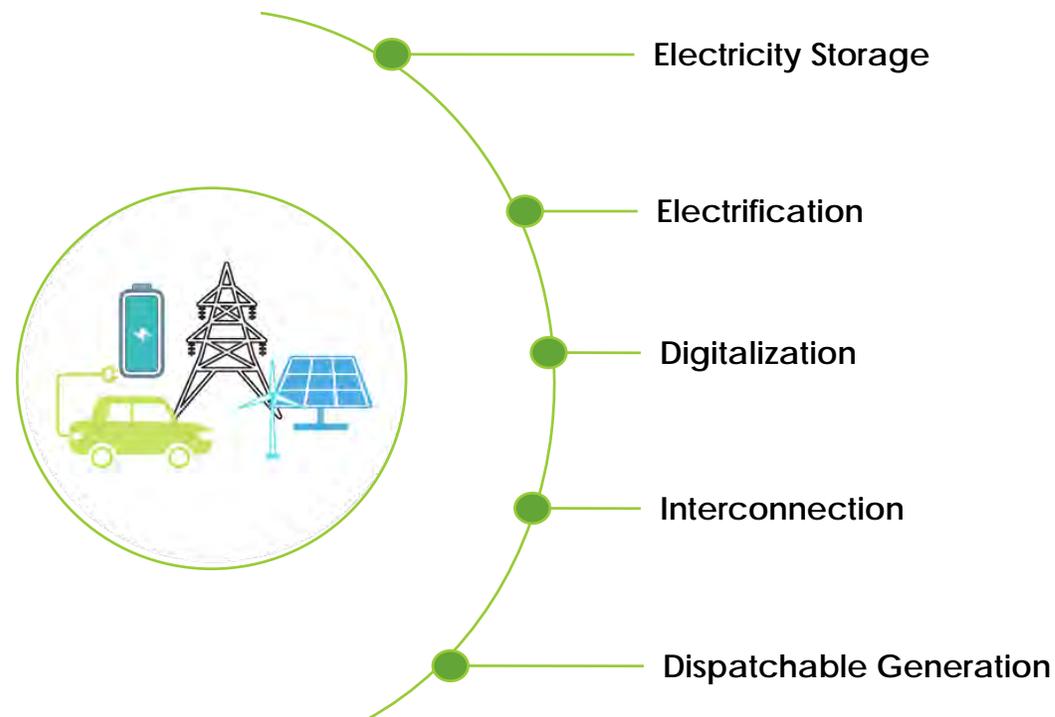


Rise of Renewables and Challenges



Source: IRENA Global Energy Transformation; A Roadmap to 2050

The IRENA Remap scenario projections show up to 86% of Renewable energy in the electricity generation by 2050

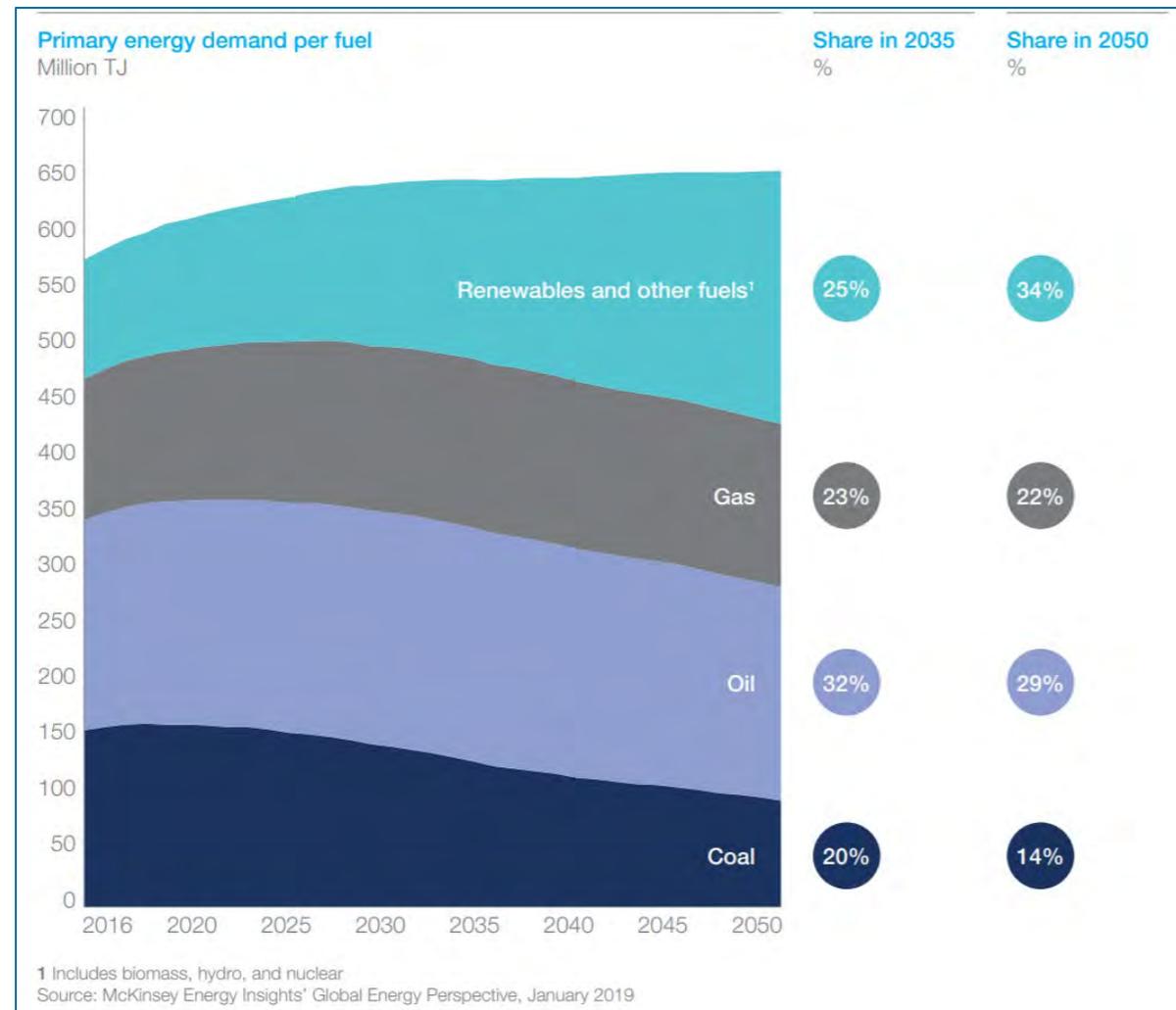


System integration cost should be considered. Several innovations are needed for maintaining flexibility. Electricity Storage can be a game changer.



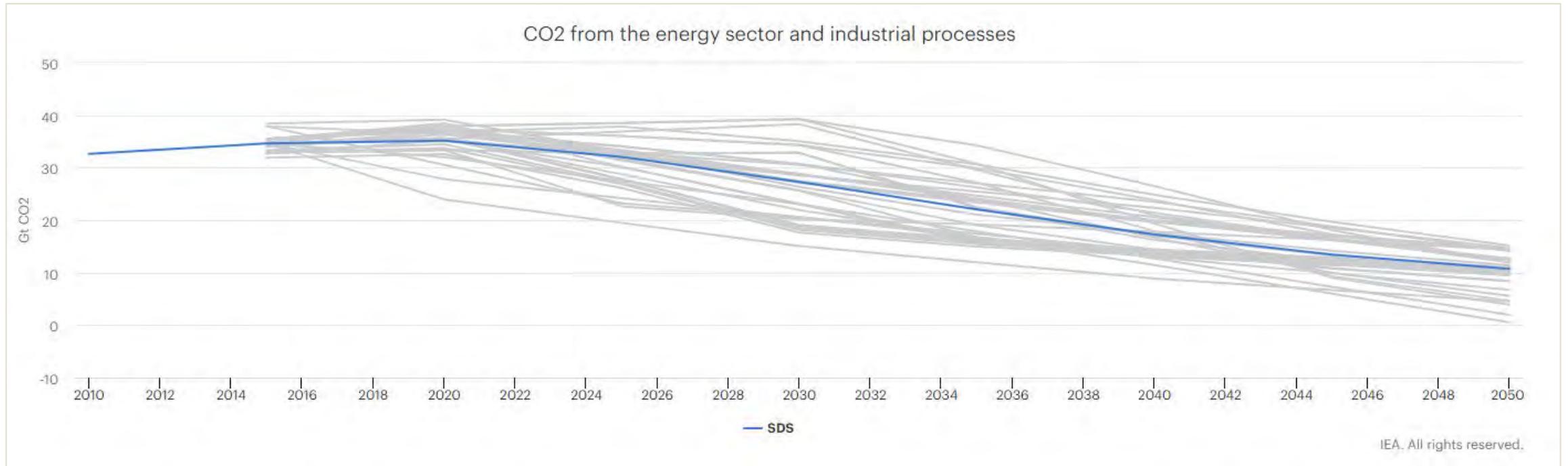
Hydrocarbons will Remain

Most outlooks, including scenarios with sustainable development continue to show the presence of Hydrocarbons in the total primary energy demand.





Deep Decarbonization Scenarios

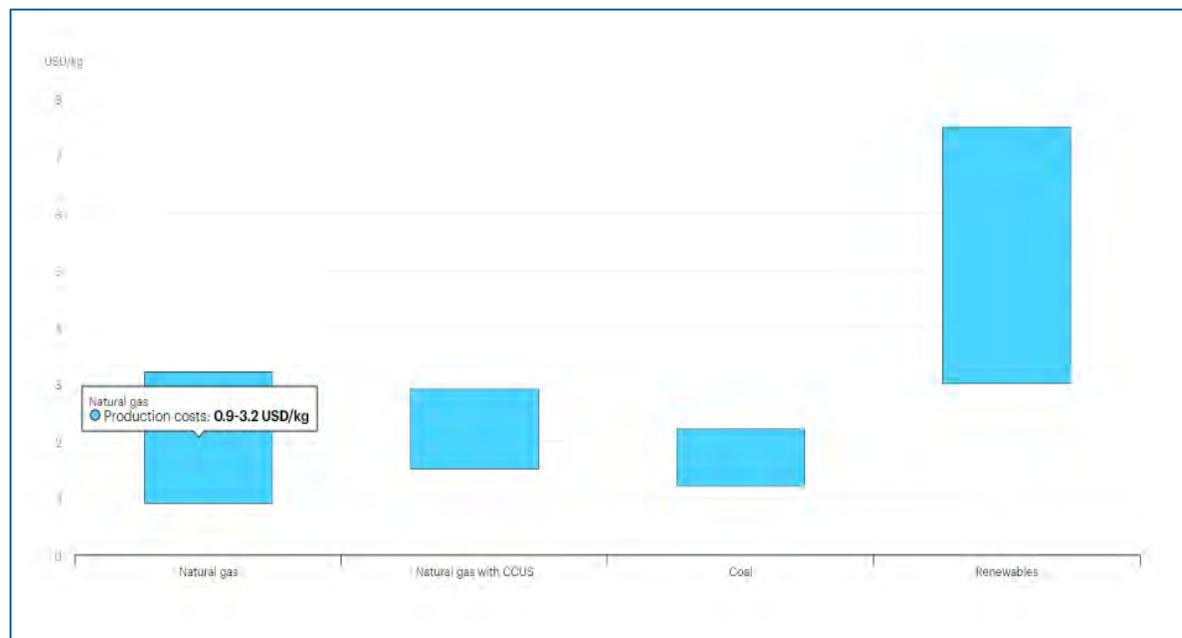


The latest IEA World Energy Outlook shows the pathway for their Sustainable Development Scenario where there is considerable reduction in CO2 to achieve the Paris Agreement. This scenario includes a wide array of technologies including CCUS as oil and gas continues to remain in the energy mix.



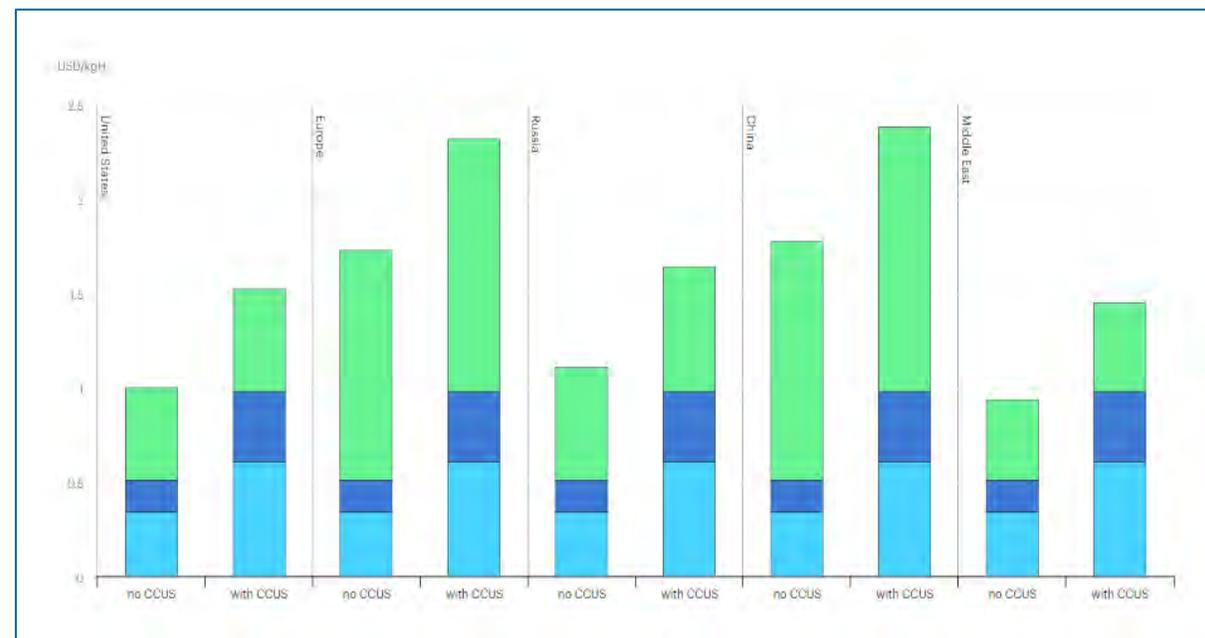
New Entrants in the Clean Energy Mix

Hydrogen production Cost by Production Source



Source: IEA

Hydrogen Production Cost by Region



Source: IEA



Fossil Fuels can become Cleaner



Abu Dhabi National Oil Company pledges to reduce emission intensity by 25%

Aims to expand their CCUS Facilities to achieve this goal

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