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IPA Board

25 July 2023

The Role of the Oil & Gas Sector in the Energy Transition

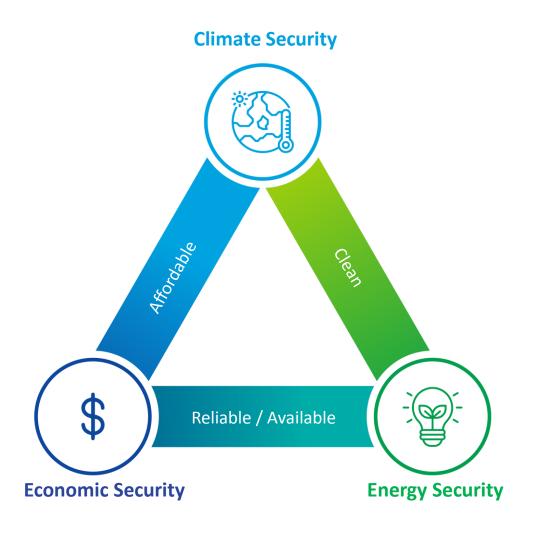
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ENERGY TRANSITION - FIVE KEY FACTS

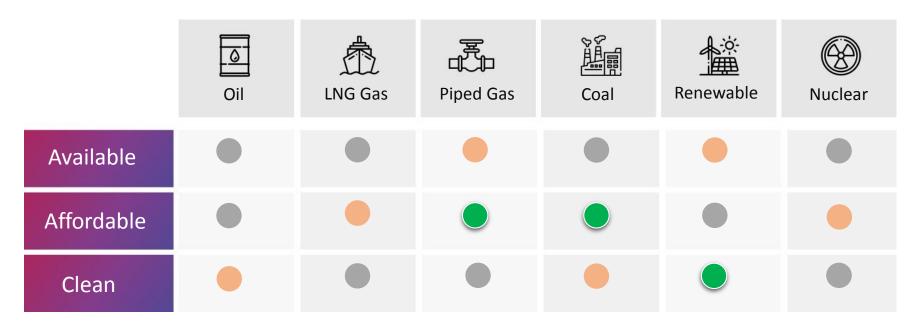
- Society needs energy to thrive
- The energy needs to be reliable & affordable
- Energy demand continues to grow worldwide
- Emissions have to come down; there is urgency in tackling climate change
- This is a global challenge; no country can do it alone

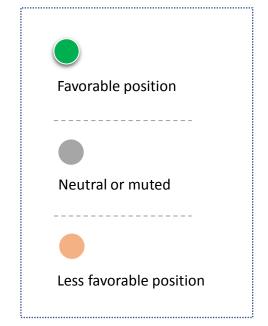


ENERGY TRANSITION – A KNOWN DESTINATION, AN UNCERTAIN JOURNEY

No energy source today provides a perfect solution

Carbon Capture (CCS, CCUS) may provide a solution for hard-to-carbonize industries





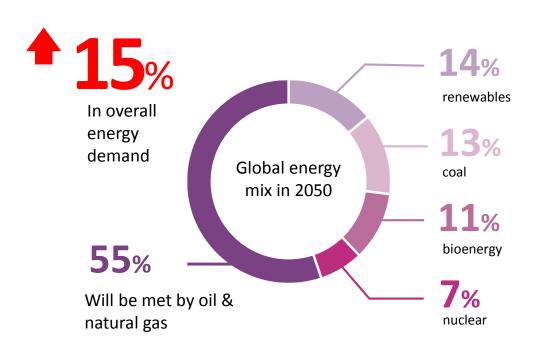
According to RystadEnergy, Asian Energy Study, ANGEA Study, Feb 2023



OIL & GAS SECTOR NEEDED TO MEET FUTURE ENERGY NEEDS

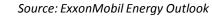
Forecasts converge on the important role of oil & gas in the energy mix until at least 2050 Oil & gas remain critical in 2050 for industrial, transportation & residential uses as well as electricity

Global supply by source in 2050



Energy usage by sector (Quadrillion BTU)





OIL & GAS SECTOR PART OF THE SOLUTION FOR THE TRANSITION

The Oil & Gas sector has the skills, the expertise, the global experience to develop innovative energy transition solutions

Our unique combination of skills:

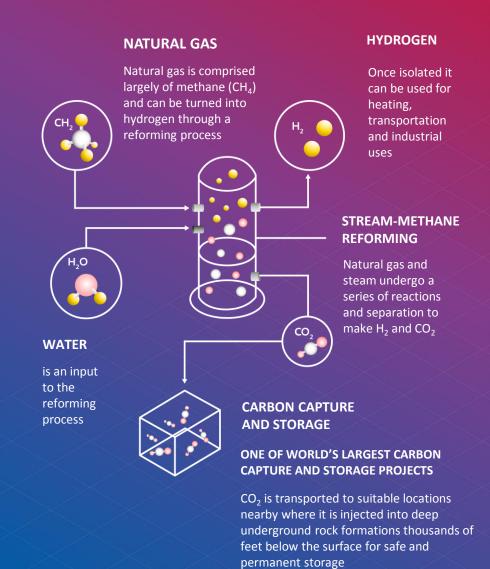
Engineering	Project Design &
	Execution

Geoscience Operations & Maintenance

Commercial Innovation

Ideally suited for:

- Development of new energies H2, Ammonia
- Carbon capture solutions CCS, CCUS
- Upgrading facilities to reduce emissions



EXXONMOBIL PLAYING ITS PART IN INDONESIA

Banyu Urip Drilling Program



Oil & Gas Exploration in Indonesia



Evaluation of a CCS Hub in Indonesia



The 'AND' equation:

ExxonMobil is committed to supporting Indonesia's energy needs and supporting Indonesia's net zero ambitions

IN SUMMARY

- Society needs energy to thrive
- The energy needs to be **reliable & affordable**
- Energy demand is growing but emissions need to come down
- Net zero ambitions are clear; the path to achieving the ambitions is uncertain
- Forecasts converge on the important role of oil & gas in the energy mix until at least 2050
- The oil & gas sector is also ideally positioned to be part of the solution for energy transition
- Collaboration is key to success



