



Opportunities to Decarbonize Offshore Platforms

Reality vs. Rhetoric



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Analyst

Is it only decarbonization — or differentiation?



“ ”

The costs of electrifying Snorre and the Halten area have become so high that the projects are no longer sufficiently profitable, and we therefore recommend discontinuing them. Electrification of Grane and Balder is progressing but remains ‘challenging.’

Equinor on its platform electrification plans,
October 2025



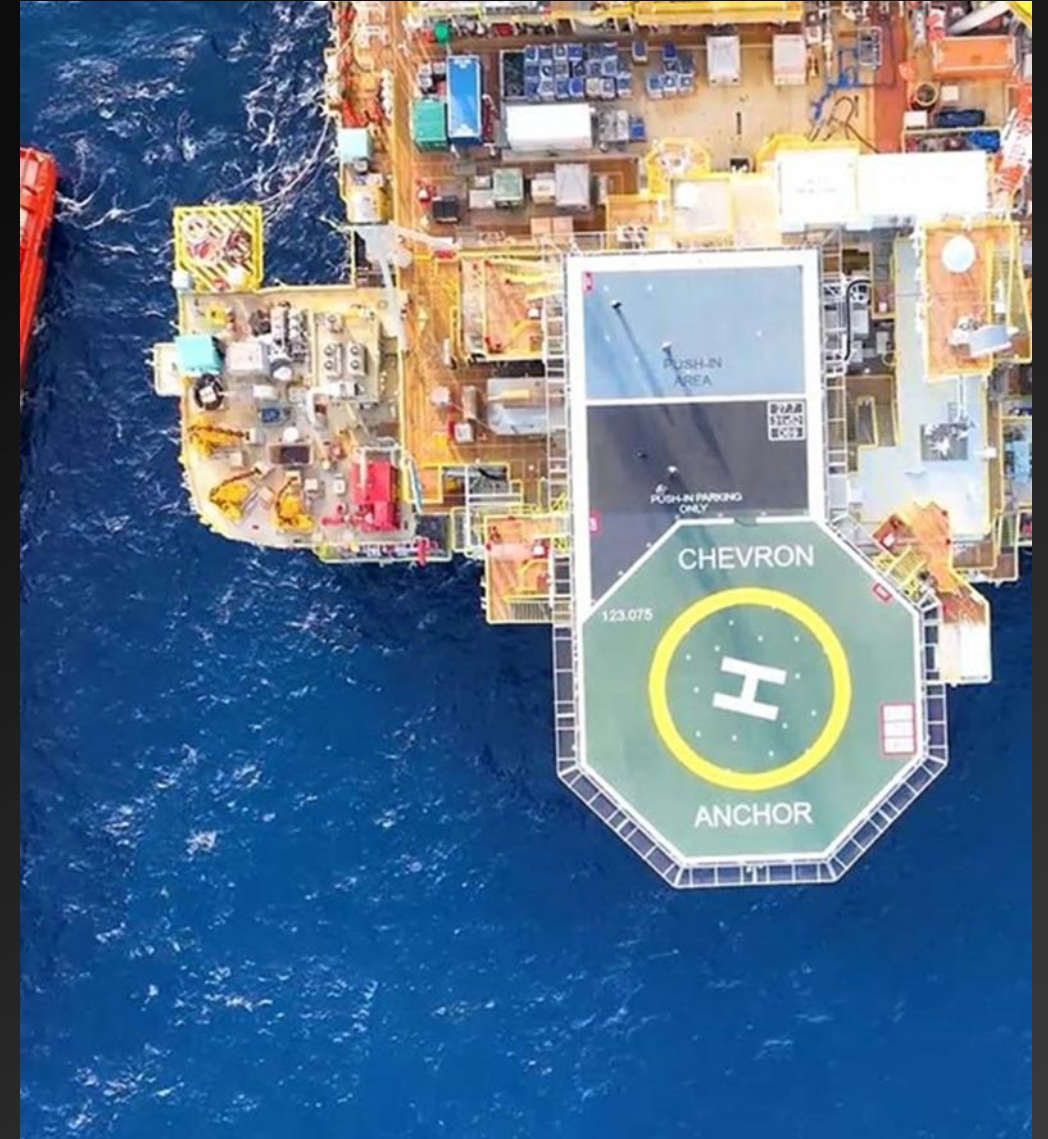


The Anchor project provides affordable, reliable, lower carbon intensity oil and natural gas to help meet energy demand...

...To reduce carbon emissions, the Anchor FPU* was designed as an all-electric facility with electric motors and electronic controls.

Additionally, the FPU utilizes waste heat and vapor recovery units...

Chevron on its Anchor project, 2024



What to expect

01 | **Potential low-carbon power solutions**

02 | Case study and analysis

03 | Outlook

Potential low-carbon solutions

Offshore wind power (fixed bottom and floating)

Wave energy

Offshore solar power

Shore power

Offshore nuclear power



Potential low-carbon solutions

Combined-cycle gas turbine retrofits

Point-source carbon capture retrofits

**Low-carbon fuel combustion in turbines,
including combined-cycle systems**

Organic Rankine cycles (ORCs)

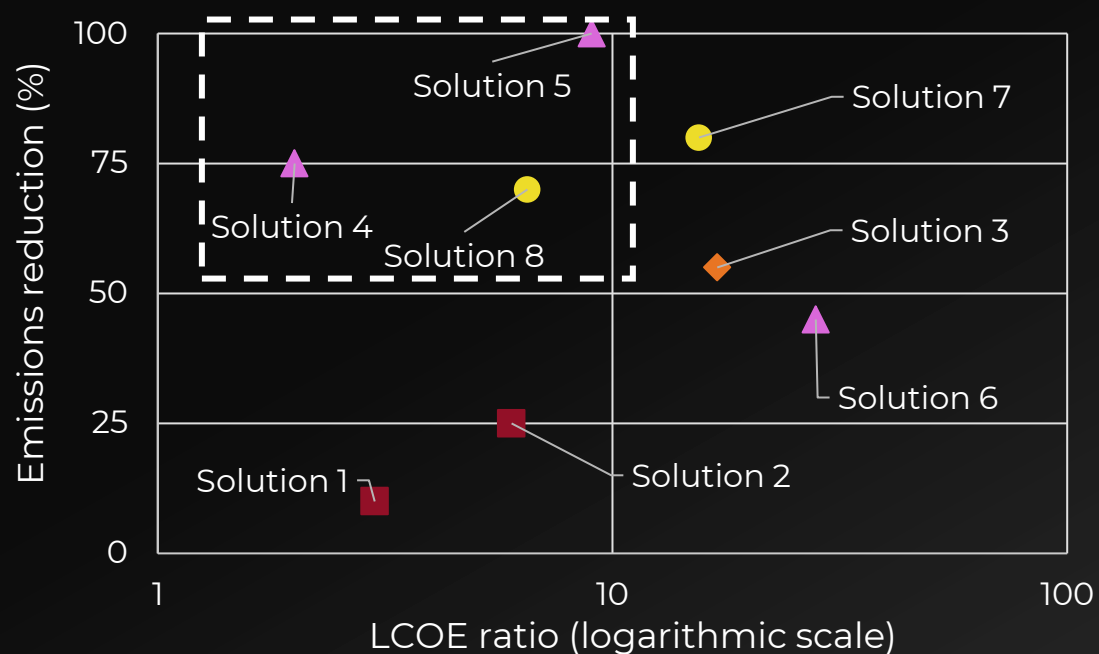
Low-carbon fuel combustion in engines

Fuel cells running on low-carbon fuels



Impact on emissions profile

LCOE Ratio vs. Emissions Reduction

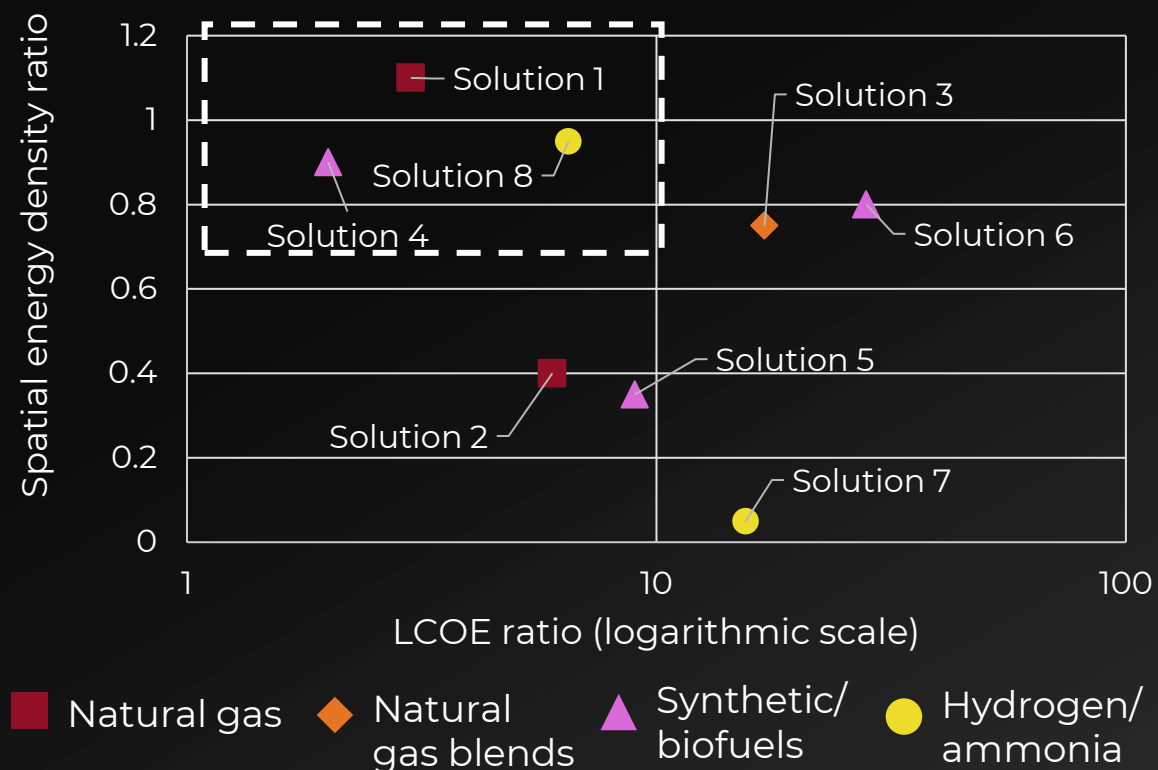


■ Natural gas ◆ Natural gas blends ▲ Synthetic/biofuels ● Hydrogen/ammonia



Considering space on the deck

LCOE Ratio vs. Spatial Energy Density Ratio



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The Petronius field

208 km

Southeast of New Orleans

~5 MW

Power demand

**70,000
bbl/day**

Peak production in 2003

**6,000
bbl/day**

Production in 2017

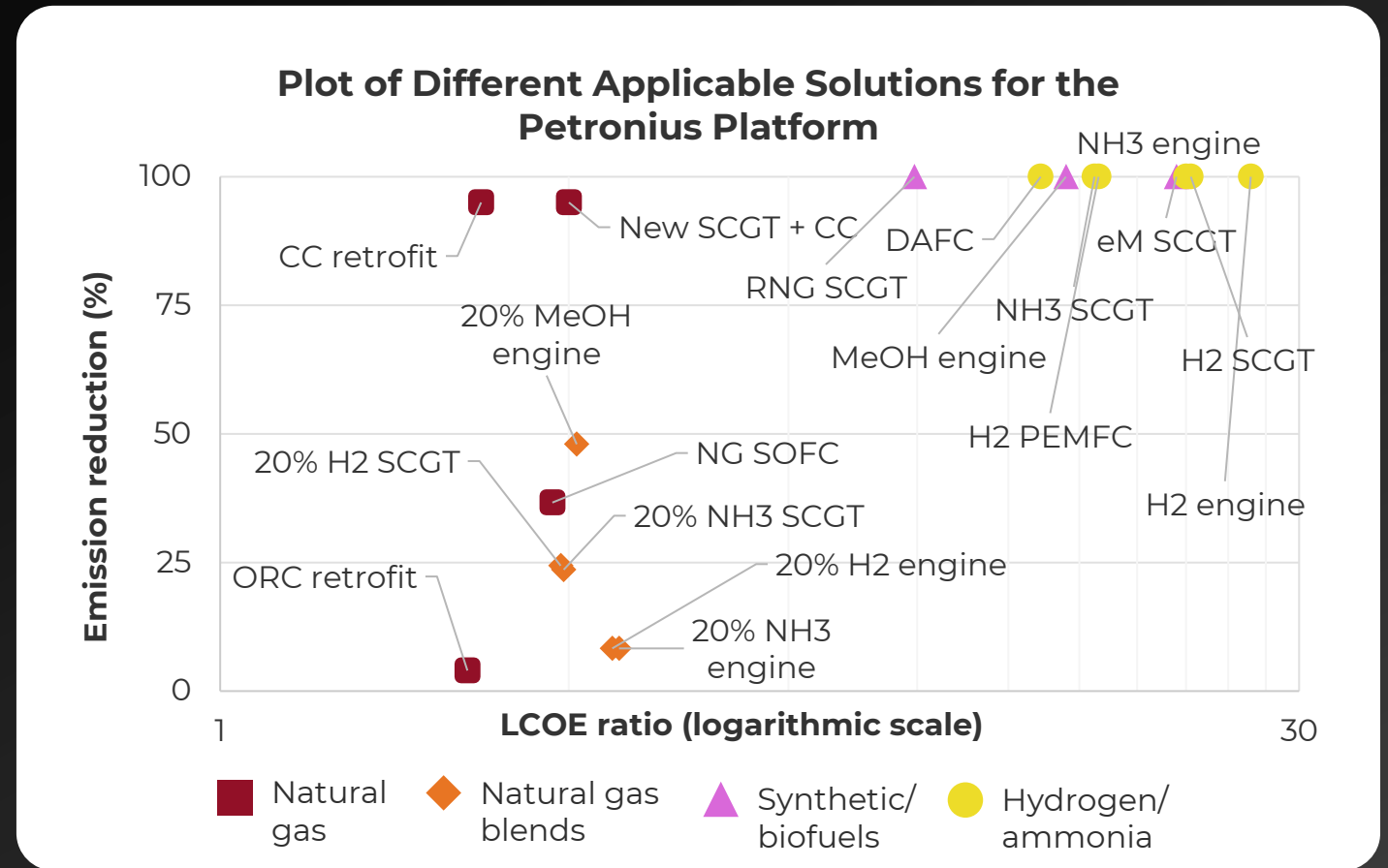
Potential **CO₂ –
EOR***
Candidate



Petronius field (USA)

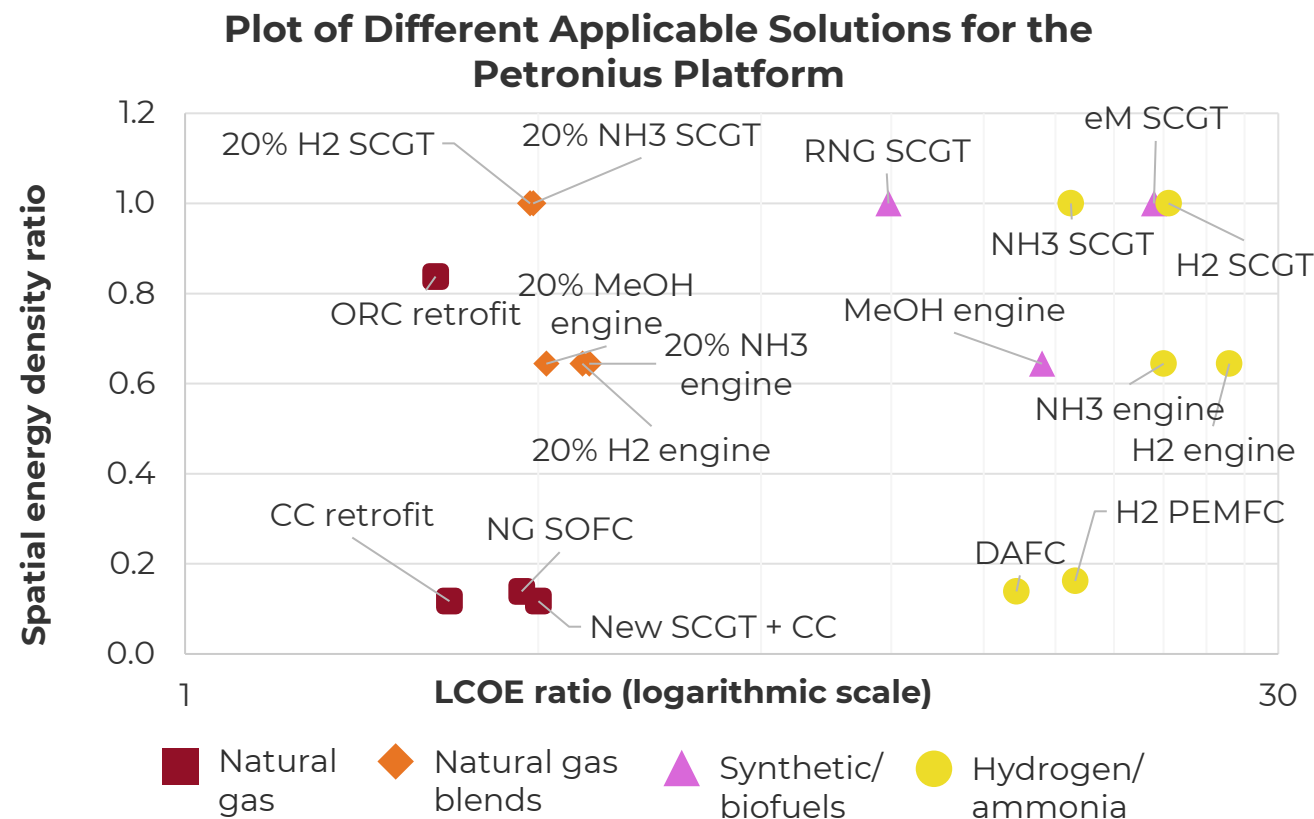
Postcombustion capture works best

- Carbon capture is the front-runner from an emissions standpoint.
- Retrofits and fuel switching are also applicable here.

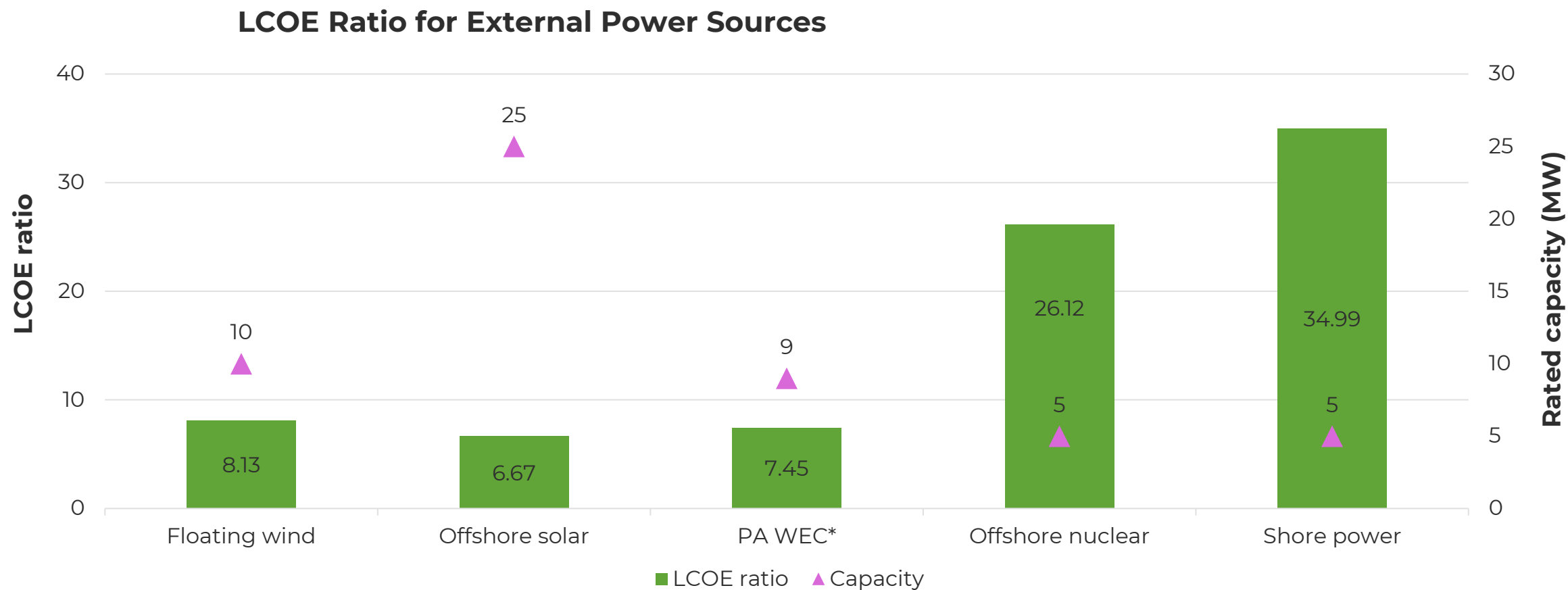


Making the best use of existing infrastructure

- Fuel switching works best.
- System efficiency can improve with retrofits.
- Carbon capture might work, but space challenges remain.



Offshore solar or wave power?



Other considerations

Energy storage



Power barges



Piping fuels?



Storing fuels?



Space for postcombustion emissions reduction

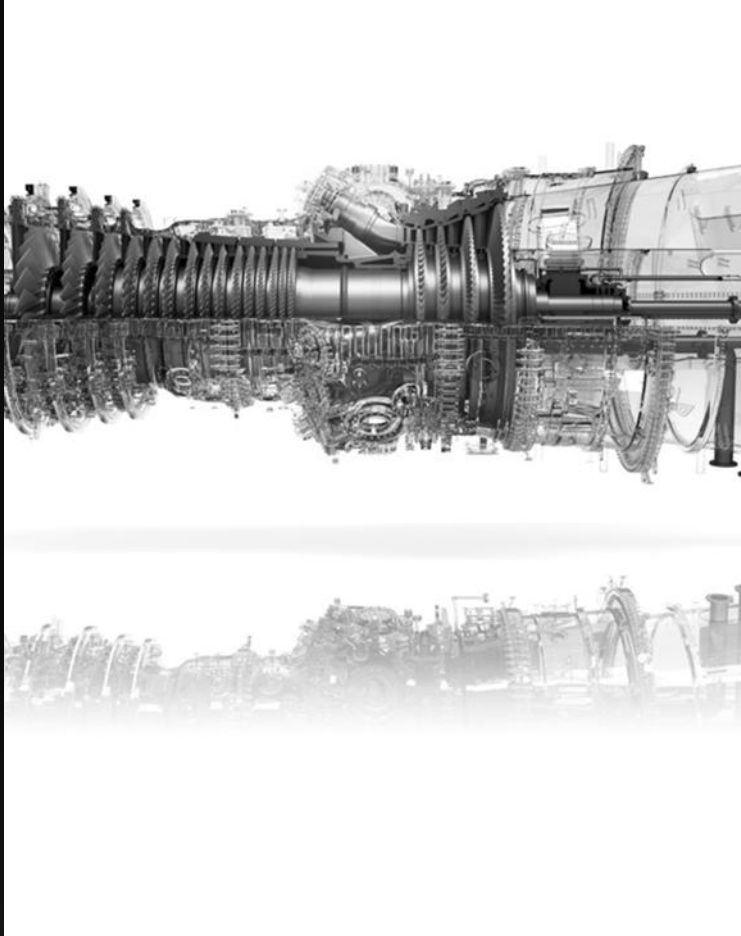
What to expect

01 | Potential low-carbon power solutions

02 | Case study and analysis

03 | **Outlook**

Blend or retrofit



Go to shore (power)



Wave energy a wildcard?



Key Takeaways

1

Offshore electrification is not just about decarbonization — it is also about optimizing operations and maximizing revenues.

2

Offshore electrification should focus on step-wise improvements rather than wholesale system changes at this point, unless warranted.

3

Low-carbon power strategies help companies stay ahead of potential future regulations — and must be built on a 10+-year horizon.



Thank You



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