

MODEC and Eld Energy Sign Memorandum of Understanding to Develop a 1.2 MW Power System Integrated with Carbon Capture for Future Zero-Emission FPSOs

Tokyo, June 4, 2026 – MODEC, Inc. (“MODEC”) and Eld Energy AS (“Eld Energy”) announced the signing of a Memorandum of Understanding (MOU) to develop a highly efficient 1.2MW power system integrated with carbon capture for application on Floating Production, Storage and Offloading systems (FPSOs).

Under the MOU, the parties intend that Eld Energy will lead the design, procurement, and construction of the power system based on solid oxide fuel cells (SOFCs), including requisite testing and validation, while MODEC will develop the carbon capture facility and system integration for FPSOs. The 1.2 MW unit is targeted for onshore testing in 2029, followed by long-term demonstration.



The MOU was signed in Tokyo during the official visit to Japan by His Royal Highness Crown Prince Haakon of Norway in presence of Norway's Minister of Trade and Industry.

From left to right:

Per Christer Lund, Energy Councillor, Norwegian Embassy Tokyo

Yasushi Ueda, Global Director of Technology & Innovation, MODEC

Hans Fredrik Lindøyen-Kjellnes, CEO, Eld Energy

Heidi M. Dahl, Regional Director for Asia & the Middle East, Innovation Norway

Marianne Sivertsen Næss, Minister of Fisheries and Ocean Policy

Eld Energy and MODEC have collaborated since 2025 on SOFC systems for offshore use, progressively scaling from 40 kW to 120 kW SOFC plus carbon capture pilot. Building on those results, the new phase aims to demonstrate scalability and integrated carbon management for offshore power.

SOFCs convert chemical energy directly to electricity at high temperature and can accept multiple fuels, and when combined with carbon capture system they offer a practical pathway to deep decarbonization of FPSO power without compromising uptime. Going forward, MODEC will continue to contribute to a stable energy supply while advancing practical emissions reduction solutions on FPSOs.



Related press releases

- [MODEC and Eld Energy to Install Offshore Fuel Cell Pilot](#)
- [MODEC Signs Joint Development Agreement with Eld Energy to Advance an Integrated 120 kW SOFC + CO₂ Capture System for FPSOs](#)
- [MODEC Announces Statement of Strategic Intent with Eld Energy and Delta to Develop Marine SOFC System for Power Generation](#)

About Eld Energy

Eld Energy is a Norwegian technology company pioneering high-efficiency, low-emission power systems for offshore and maritime applications. The company has assembled a team of Europe's foremost experts in the design and industrialization of maritime fuel cells with the aim to decarbonize offshore installations and deep-sea shipping.

For further information: <https://www.eldenergy.com>

About MODEC

MODEC is a leading global provider of floating production solutions for the offshore energy sector, specializing in Floating Production Storage and Offloading (FPSO) vessels. The company delivers Engineering, Procurement, Construction, and Installation (EPCI) services and also owns and operates FPSOs, offering comprehensive, competitive production solutions worldwide. SOFEC® Mooring Solutions is a MODEC product that provides safe, reliable, and innovative mooring systems for offshore energy applications.

For further information: <https://www.modec.com>

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