
Dutch Green Hydrogen Project Expands to Egypt in Collaboration with SCZONE

A consortium of three Dutch companies—HYGRO, SoluForce, and DEBCO—has entered into a strategic partnership with Egypt's Suez Canal Economic Zone (SCZONE) to develop and distribute green hydrogen. Building on the success of the Dutch 'Duwaal' project, which follows a 'Wind to Wheel' model, this new initiative will also incorporate solar energy to create a sustainable hydrogen ecosystem in Egypt.

Supported by the Dutch government's financial backing (RVO), the consortium signed a cooperation agreement with SCZONE to explore the feasibility of replicating the Dutch Duwaal project at one of SCZONE's ports. The project's innovative 'Hub iBundle and Satellite' strategy integrates wind and solar power with electrolysis for hydrogen production. The hydrogen is transported through pipelines to a central hub, stored, and distributed to satellite fuelling stations using iBundles, enabling hydrogen mobility across the region.

Accelerating Egypt's Green Hydrogen Vision

The proposed 'Wind & Solar to Wheel in Egypt' project supports Egypt's long-term sustainability goals, aiming to reduce CO₂ emissions and drive the adoption of green fuels. The scalable nature of this project positions Egypt as a potential leader in green hydrogen production, with the opportunity to export renewable hydrogen to Europe in the future.

Suez Canal's Strategic Role in Green Hydrogen Production

The Suez Canal Economic region, known for its strategic location, presents an ideal environment for large-scale green hydrogen production. The area aims to become a key hub for renewable energy in the Middle East and an exporter to Europe, contributing to Egypt's vision of becoming a regional powerhouse in green energy production.

Statements from Key Project Leaders

Robert-Jan Berg, Managing Director of SoluForce, emphasised the importance of small-scale hydrogen projects in achieving large-scale hydrogen importation goals. 'The 'Wind & Solar to Wheel in Egypt' project accelerates local hydrogen acceptance while supporting global energy transitions. Our experience in similar international projects positions us well to contribute to this initiative, with the potential for replication in countries like Namibia, Chile, and Morocco.'

HYGRO, a key player in the project, is responsible for the technical design and implementation of all components within the hydrogen chain. This includes wind turbines, electrolysis units, pipelines, compressor stations, storage facilities, fuelling stations, and distribution systems. HYGRO's innovative iBundle control system and integration patents ensure seamless operation throughout the project.

Jan Willem Langeraar, representing HYGRO, noted, 'Egypt has a favourable starting position for green hydrogen development. As more projects roll out, costs decrease, improving financial feasibility and accelerating the development of a green hydrogen chain. The Duwaal project in Egypt will replace diesel with competitively priced hydrogen, benefiting both Egypt and the Netherlands.'

Strengthening Bilateral Relations Between Egypt and the Netherlands

DEBCO highlighted the potential for stronger bilateral relations between Egypt and the Netherlands in the hydrogen sector. 'This collaboration not only helps Egypt advance its green

energy goals but also provides Dutch companies like HYGRO and SoluForce the opportunity to export their products and expertise. This project could lead to a formal bilateral agreement, further accelerating hydrogen development in Egypt,' said Aris Begemann of DEBCO.

SCZONE's Commitment to Green Energy

Waleid Gamal Eldien, Chairman of SCZONE, expressed his enthusiasm for the project, stating, 'SCZONE is committed to playing a pivotal role in the global transition towards sustainable energy. This partnership marks an important step in positioning Egypt as a leader in the green hydrogen sector, capitalising on our strategic location and infrastructure. We are confident that the 'Wind & Solar to Wheel in Egypt' project will not only accelerate the country's green energy ambitions but also strengthen our international collaboration with key partners like the Netherlands.'

Feasibility Study and Future Outlook

The consortium will conduct a feasibility study, funded by the RVO's DHI subsidy, to assess the most suitable location for green hydrogen production and the placement of fuelling stations within SCZONE. The study will also explore regulatory opportunities and constraints in Egypt. Upon positive results, the project will lead to the export of HYGRO and SoluForce products to Egypt, establishing a crucial link in the global green hydrogen supply chain.



The signing ceremony took place under the witness of Mrs. Marjolein Jongman, Head of Economic Affairs at the Dutch Embassy in Egypt, Mr. Waleid Gamal Eldien, Chairman of SCZONE and Robert Jan Berg of SoluForce, representative of the consortium.