



ELECTRIFYING THE WORLD WITH OFFSHORE FLOATING SOLAR

2025

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SOLARDUCK

MERGANSER - World's First Prototype Certified And Insured Offshore Floating Solar System



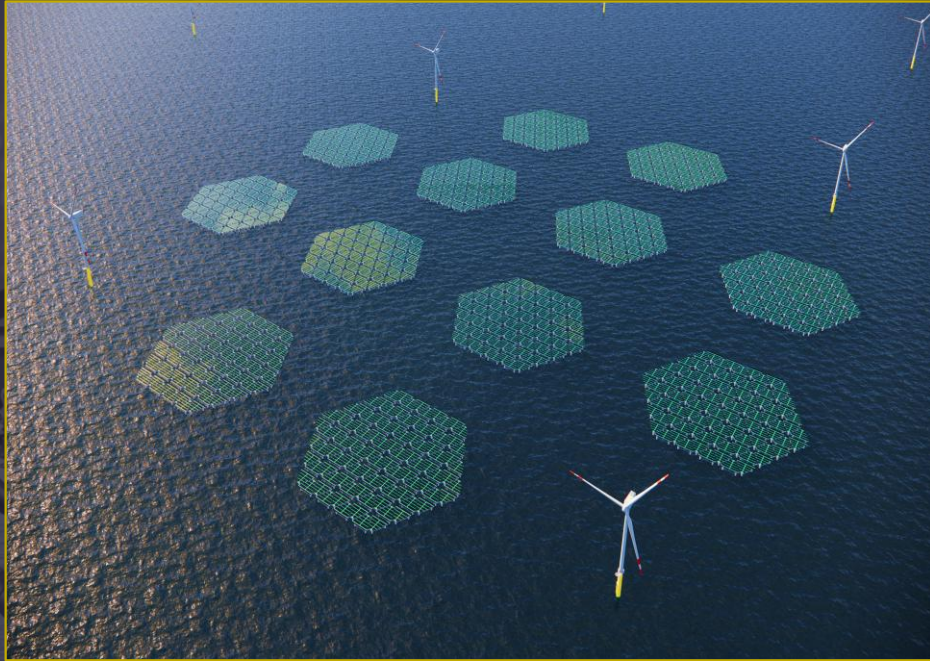
BUREAU
VERITAS

AON

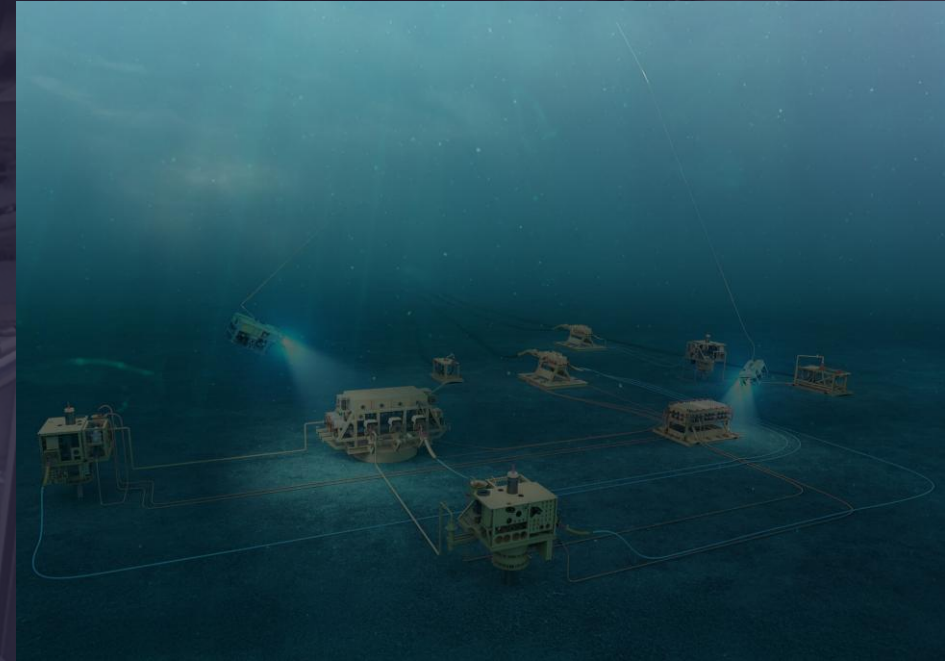


INDUSTRIAL SCALE OPPORTUNITY

Utility Scale Deployment



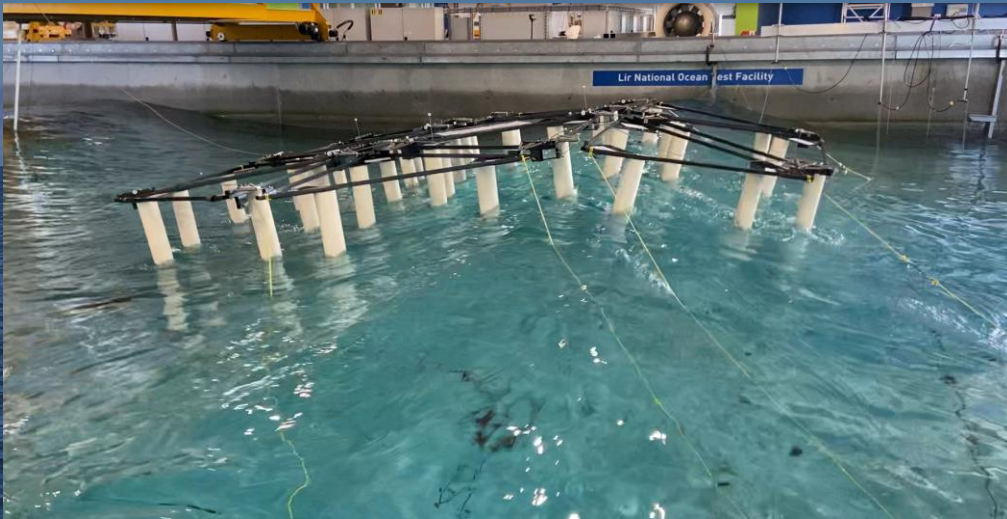
Utility Scale



Offshore Power Hub

UTILITY SCALE

Research Into Plant Boundary Layer Air-Sea Interaction



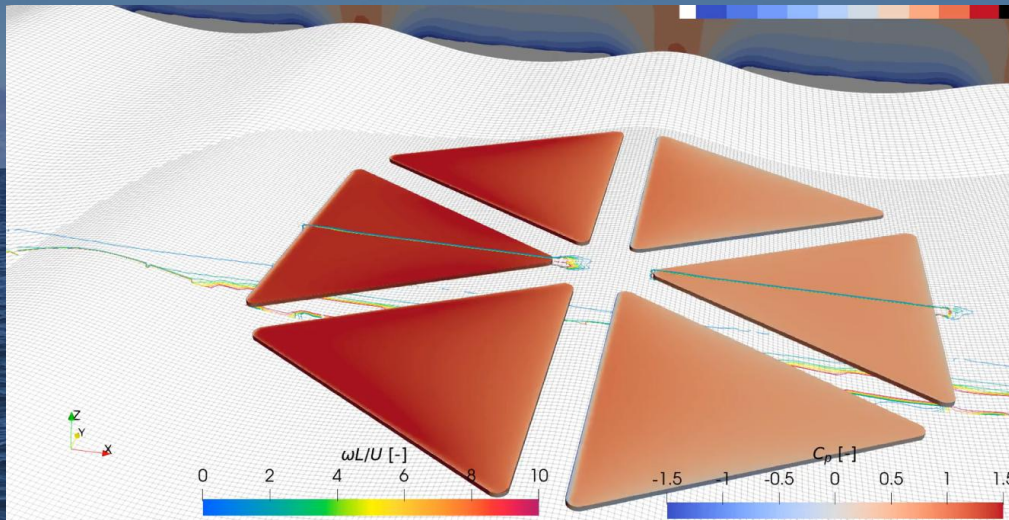
LIR Cork – 12 platforms – Waves



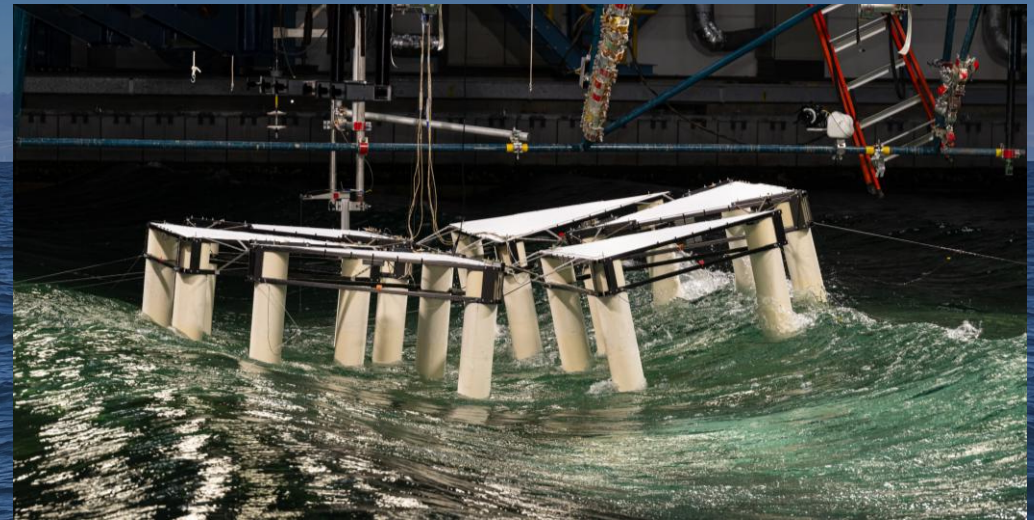
MARIN – 1 platform – Waves + Wind

UTILITY SCALE

Research Into Plant Boundary Layer Air-Sea Interaction



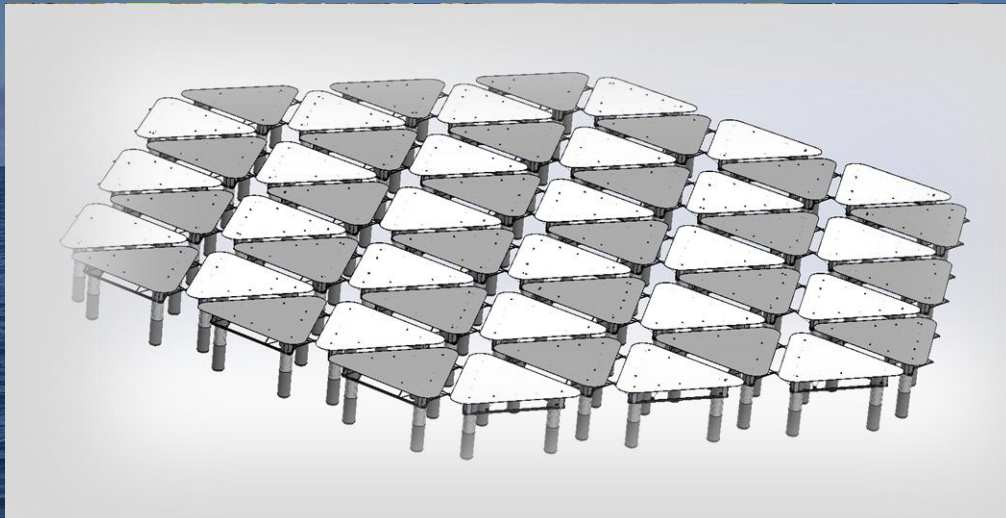
MARIN – 6 platforms – Waves + Wind



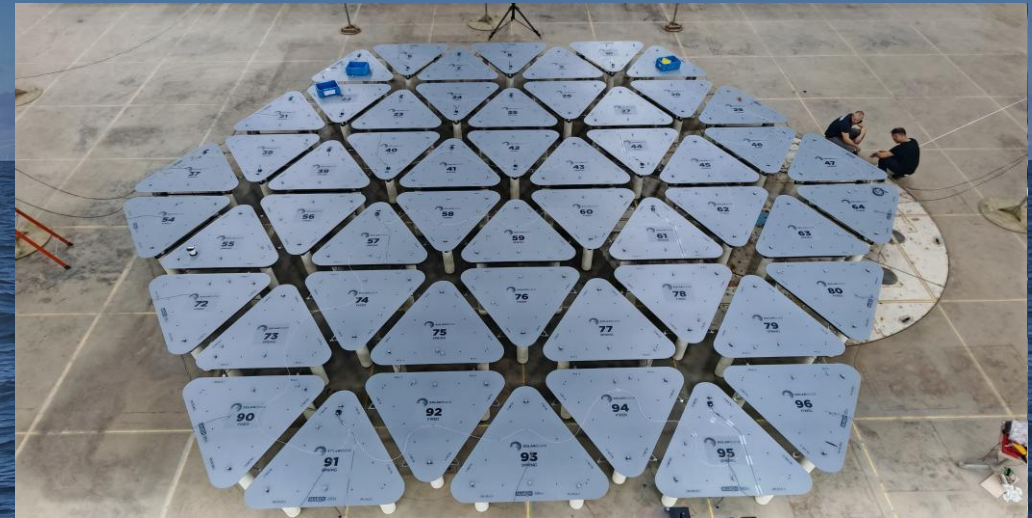
MARIN – 6 platform – Waves + Wind

UTILITY SCALE

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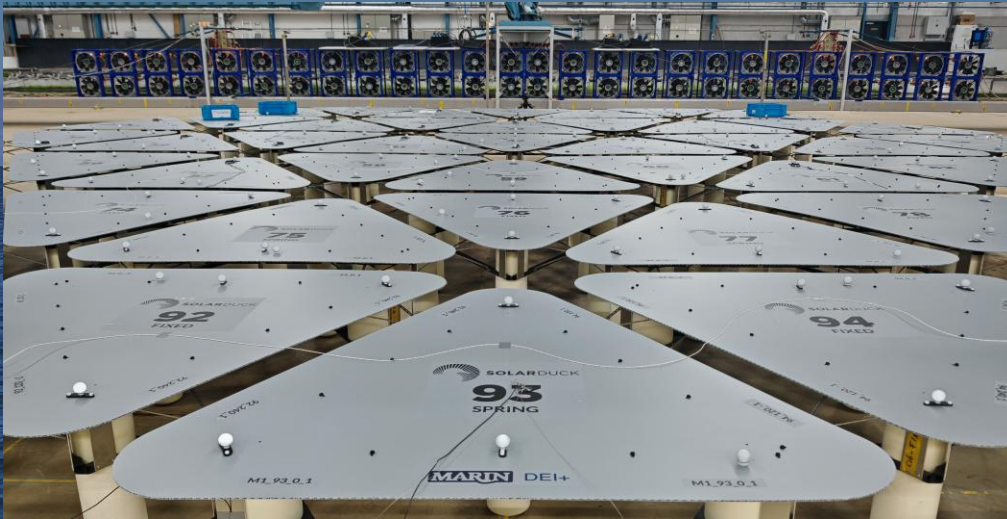
MARIN – 54 platforms – Waves + Wind



MARIN – 54 platforms – Waves + Wind

UTILITY SCALE

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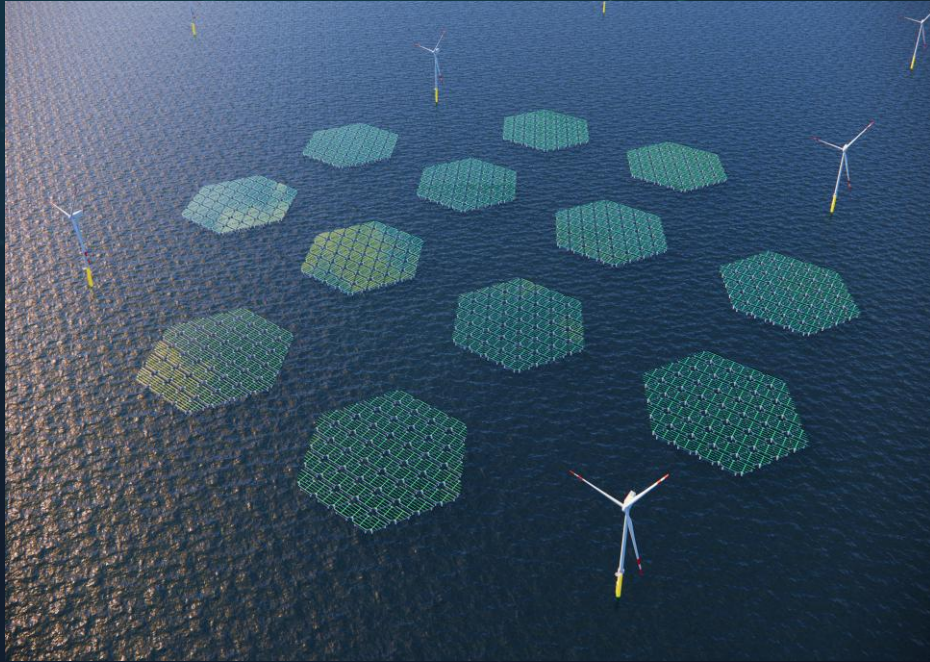
MARIN – 54 platforms – Waves + Wind



MARIN – 54 platforms – Waves + Wind

OFFSHORE POWER HUB

Infield Unmanned Floating Energy Solution



Utility Scale



Offshore Power Hub

SUBSEA USE CASE

Driven By Downtime Minimization, CAPEX Avoidance, And Improved Yield

Developments

Challenges:

Damage to existing umbilicals

- Loss of power and comms resulting in **well shut-in/production interruption**
- Extended loss of production due to long lead time of umbilical repair/replacement

Degraded existing umbilicals

- Existing umbilical is degrading, **resulting in loss of transmission capacity**
- **High CAPEX of replacing** umbilical

Long umbilical tie-backs

- **Installation and decommissioning costs** of long umbilical length
- Long lead times to asset

Powering CCS operations

- High **installation and decommissioning costs of umbilical** for new CCS projects
- Typically, **very distant from power source**

Small pools / marginal fields

- Pool of resource adjacent to production **field is too small or too distant from existing production asset** for viable investment case



OFFSHORE POWER HUB

Modular & Low Maintenance

Uninterrupted Floating In-field Energy Supply With 99,99% Uptime

- ▶ PV + BESS result in renewable fraction >98% over lifetime
- ▶ Robust, proven technology with offshore track record
- ▶ Marine-grade genset can be fitted for system optimization & additional redundancy, boosting operability beyond 99,99%

Low Latency And Secure Communication

- ▶ Provisions for low latency and secure communications with the subsea asset and shore

Very Low Maintenance

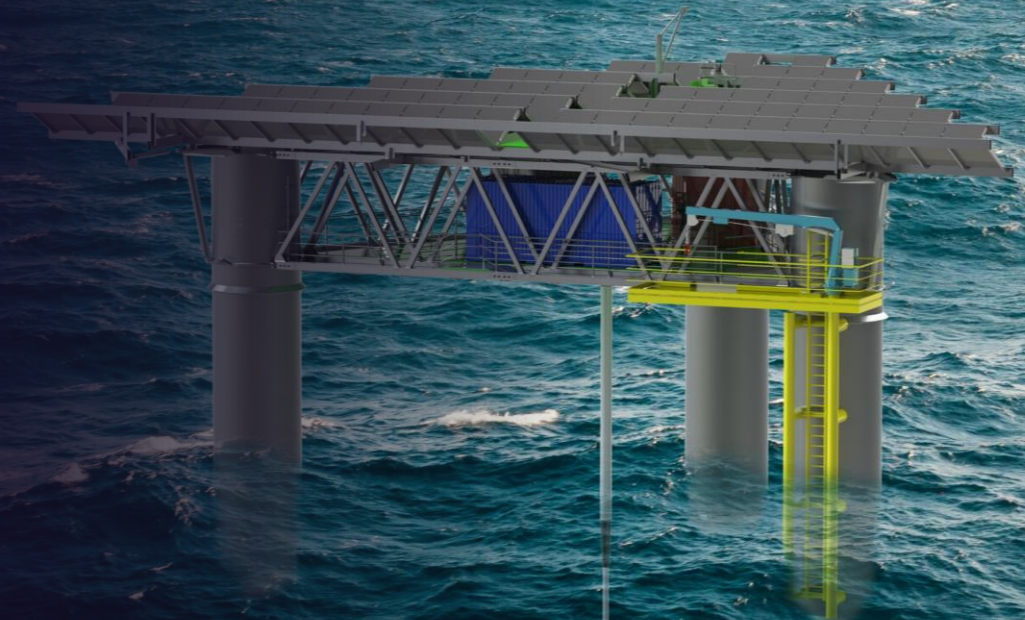
- ▶ It has virtually no moving parts & all equipment is easily accessible.
- ▶ O&G compliant offshore access and maintenance solution

Flexible Architecture To Suit The Client's Mission

- ▶ Mission Bay architecture that offers flexibility to the client

Offshore Resistance And Reliable Solution

- ▶ Designed to withstand the harsh offshore environment
- ▶ Elevated solution to avoid short circuits of the electrical system
- ▶ Energy and communication systems are designed for high reliability
- ▶ High-durable platform made from marine-grade aluminum



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CONTACT DETAILS

Don Hoogendoorn
CTO & Co-Founder

T: +31 613 238 754
M: Don.Hoogendoorn@SolarDuck.tech