



SUSTAINABLE SOLAR — EUROPE 2025

Advancing offshore floating solar in Europe

Organised by
**inter
solar**
connecting solar business | EUROPE



**SUSTAINABLE
SOLAR**
EUROPE 2025

Speakers



**Brigitte
Vlaswinkel**

Head of
Environment &
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Oceans of Energy



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Head of Unit,
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**Paula
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Policy Officer,
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Program manager,
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About TNO

Netherlands Organization for Applied Scientific Research (15 locations, 4000 employees)

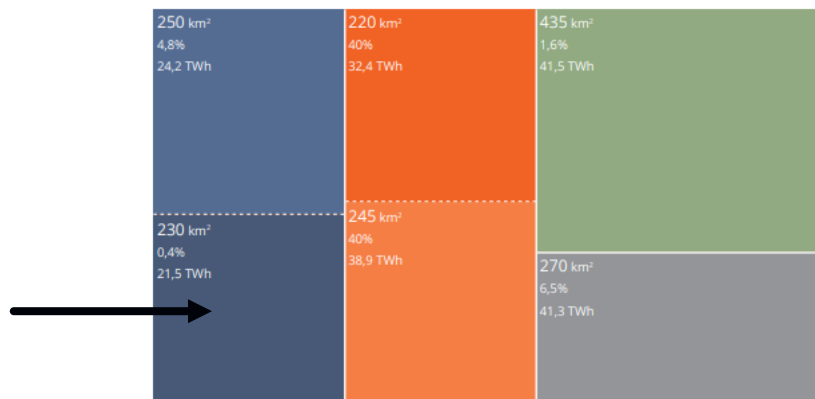
TNO Solar Energy

- To help create solutions for the energy transition
- To help create a healthy knowledge economy for green energy businesses

The case of NL: 200 GWp solar energy by 2050

But where?

20 – 40 GWp is projected to be offshore



2017 study: TNO et al.

Platform Offshore Solar (POS)

Parties are working together:

- Companies developing offshore solar systems
- Research organizations

Goals:

- To create a national ecosystem
- To stimulate innovation and pilot projects
- To be the spokesperson towards our national government
- To provide information on behalf of the sector offshore solar



Stimulation by the NL government

1. The roadmap for integration offshore solar with offshore wind (2019)

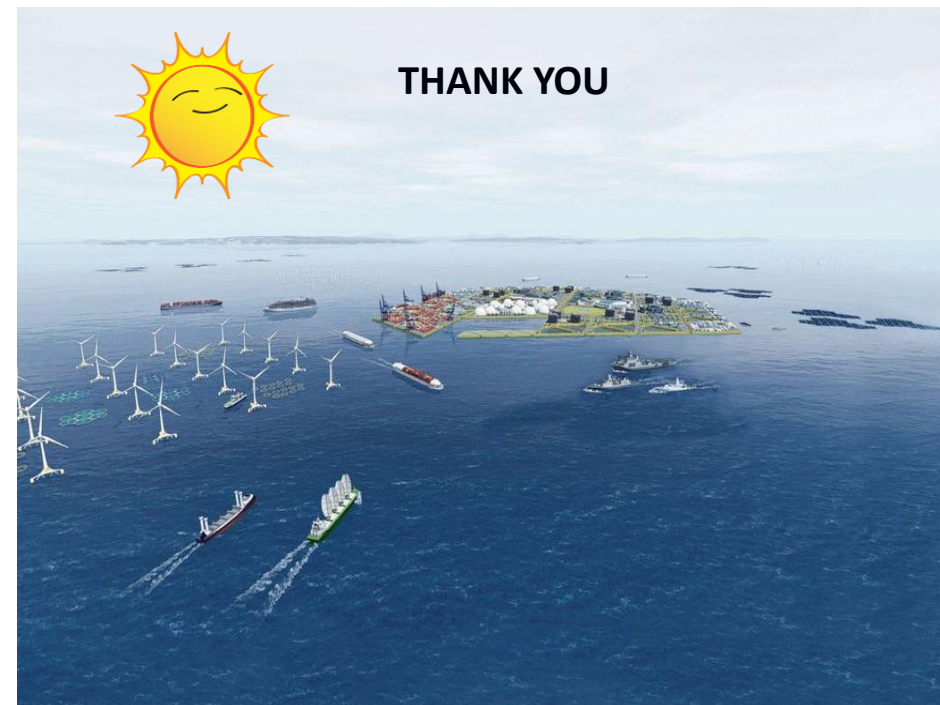


2025: 0.5 MWp offshore solar

2027: 5 MWp offshore solar

2029: 50 MWp offshore solar

2. Support for research projects, innovative pilots and test infrastructure



Offshore solar & wind offer important synergies



Brigitte Vlaswinkel

Head of Environment & Sustainability,
Oceans of Energy

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Aurélien Croq

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The future of solar is at sea!

December 2025

Our technical excellence

The Technology

Ready for **all conditions**

- High waves and winds
- Designed for 50-years worst conditions

Producing **more than onshore**

- Better panel cooling
- Bi-facial panels

Over a **long lifetime**

- Corrosion resistance
- 30-years service life

Infinite **scalability**:

- Modular & Interconnected Floating Units
- from 1 MW to several GWs

Sun'Sète, France
Mediterranean Sea
December 2023



French
Polynesia
2024



Our optimized (and growing) product line

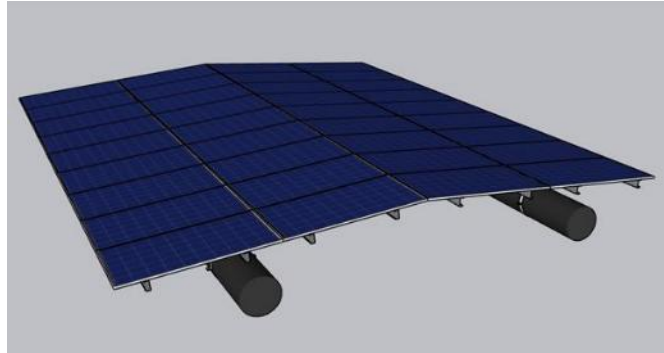
Products



Near-shore French Polynesia

- ✓ Waves up to 2 m
- ✓ Winds up to 100 km/h
- ✓ 30 years lifetime

At sea since 2024



Middle-shore Caribbeans

- ✓ Waves up to 4 m
- ✓ Cyclone waves
- ✓ 30 years lifetime

Ongoing project (COD 2027)



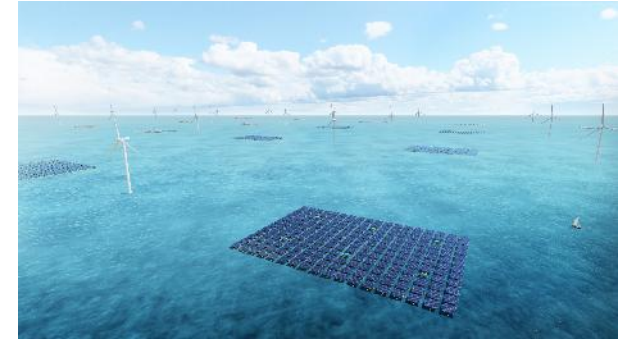
Offshore Sète, Mediterranean Sea Netherlands, North Sea

- ✓ Waves up to 14 m
- ✓ Winds up to 150 km/h
- ✓ 30 years lifetime

At Sea since 2023

3 global markets...

Economics & markets



Ports & Industries

Typical
project size

1 MW to 50MW
Self-consumption

Market size

6+ GW in 200+ projects

Islands

5 MW to 100 MW
Local grid connection

10+ GW projects

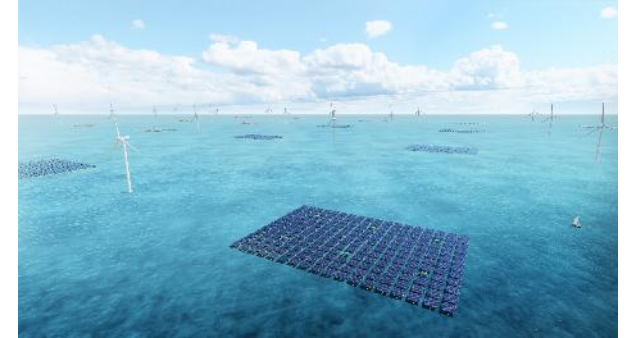
Offshore Wind & Solar Co-location

50 MW to 1 GW
Shared grid connection

200+ GW worldwide

... where Europe must lead the way !

Economics & markets



Ports & Industries

Typical
project size

1 MW to 50MW
Self-consumption

Market size

6+ GW in 200+ projects

In Europe alone!

Islands

5 MW to 100 MW
Local grid connection

10+ GW projects

Inc. European
overseas territories!

Offshore Wind & Solar Co-location

50 MW to 1 GW
Shared grid connection

200+ GW worldwide

Of which 100 GW are
in Europe!



Aurélien CROQ

Chief Executive Officer

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Thanks

Panel discussion



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Thank You!



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