



# AGNES

*The Adriatic Green Network of Energy Sources*

*The opportunities for offshore wind deployment in Italy*

April 5th, 2022 - Ravenna

**Gian Luca Vaglio - C.O.O. Agnes S.r.l.**





## CONTACT DETAILS

### Gian Luca Vaglio

Date of Birth: April 30th, 1994

Residence: Ravenna, Italy

[g.vaglio@agnespower.com](mailto:g.vaglio@agnespower.com)

Via Del Fringuello, 28 (Ravenna)

## WORK EXPERIENCE

Chief Operating Officer

**Agnes S.r.l.**

*Apr. 2020 - Present*

Ravenna, Italy

Project Manager

**Qint'x S.r.l.**

*Aug. 2019 - Apr. 2020*

San Francisco, CA, United States

Digital Strategist

**ENEL Group**

*Aug. 2018 - Aug. 2019*

Rome, Italy

## EDUCATION

Msc in Management of Innovation

**Copenhagen Business School**

*Sept. 2017 - Feb. 2020*

Copenhagen, Denmark

Study course in AI & Deep Learning

**Stanford University**

*Oct. 2019 - Dec. 2019*

Stanford, Santa Clara, United States

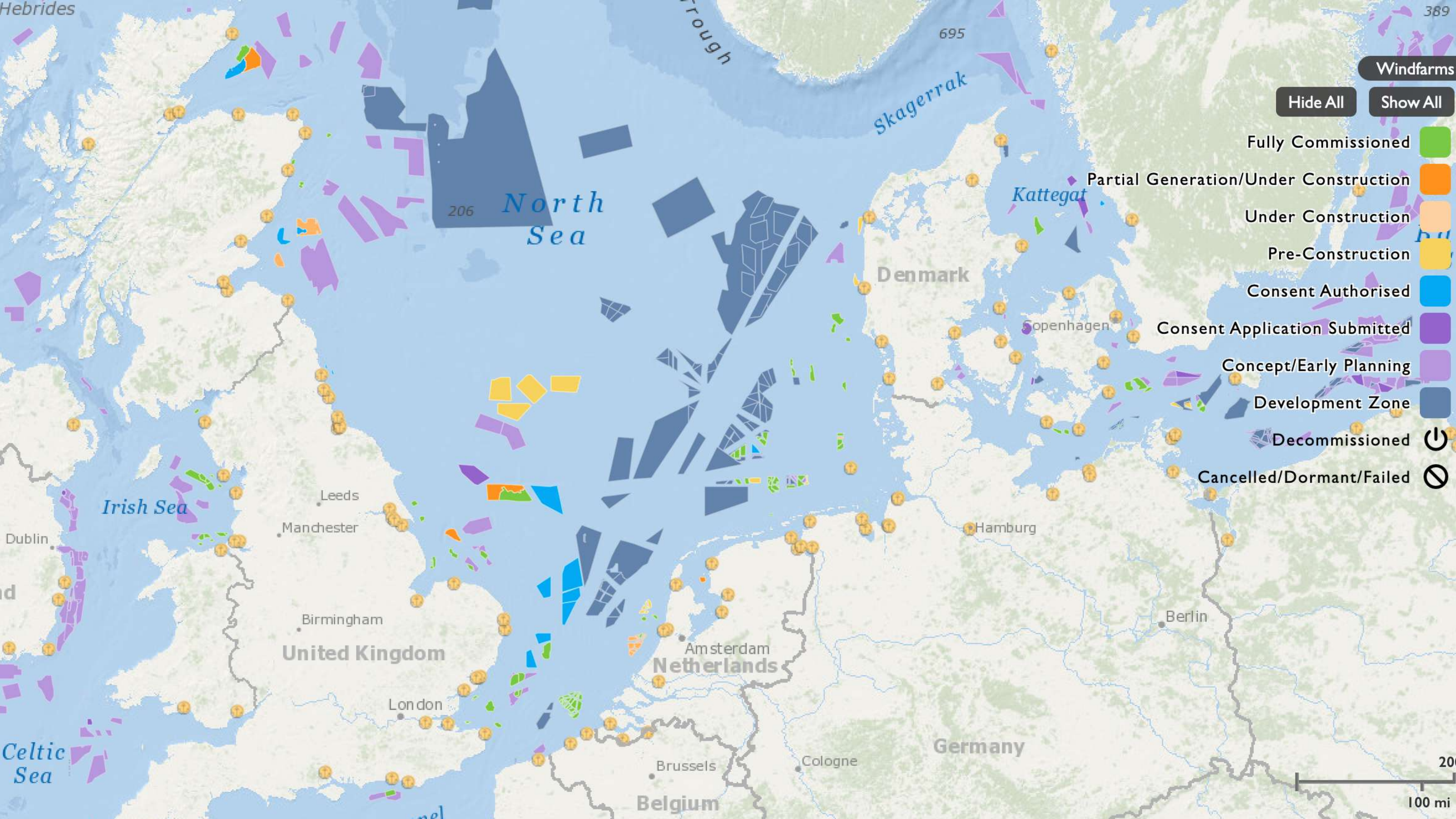
Bsc in Management & Marketing

**University of Bologna**

*Oct. 2013 - Oct. 2016*

Bologna, Italy





Windfarms

Hide All Show All

Fully Commissioned

Partial Generation/Under Construction

Under Construction

Pre-Construction

Consent Authorised

Consent Application Submitted

Concept/Early Planning

Development Zone

Decommissioned

Cancelled/Dormant/Failed

389

206 North Sea

695

Skagerrak

Kattegat

Denmark

Copenhagen

Consent Application Submitted

Concept/Early Planning

Development Zone

Decommissioned

Cancelled/Dormant/Failed

Irish Sea

Leeds

Manchester

Birmingham

United Kingdom

London

Amsterdam Netherlands

Belgium

Hamburg

Germany

Berlin

Brussels

Cologne

200

100 mi

Celtic Sea

# NEW INNOVATIVE GREEN ENERGY HUBS IN THE ADRIATIC SEA



AGNES is a startup company created in Ravenna in 2019 to develop renewable energy projects in the Italian Adriatic Sea.

The company was born from over twenty years of experience of Qint'x S.r.l. in the renewable energy sector and it has the goal of enacting a transition of the Italian Adriatic Sea from oil & gas to renewable energy.

We have vertical competences that range from the project's ideation to the FEED and authorization processes.

# Our projects' pipeline **AGNES**

Our company is developing 4 renewable energy projects in the Adriatic Sea near-shore and off-shore, in different stages of development, for more than 3.000 MWp.

- **RAVENNA:** two offshore wind farms, one floating PV plant, and onshore/offshore green hydrogen systems (700 MW). Approval expected for Q4 2023.
- **VENEZIA:** fixed and floating PV plant (145 MW). Authorization process ready to start.
- **PORTO TOLLE:** one offshore wind farm (640 MW). Pre-feasibility assessment.
- **PESCARA:** one offshore floating wind farm with PV plants integrated into the foundation (800 MW). Pre-feasibility assessment.

For the realization of these projects, Agnes can count on existing partnerships with leading multinational companies such as Saipem, Goldwind & Mingyang.



● **VENEZIA**

● **PORTO TOLLE**

● **RAVENNA**

● **PESCARA**



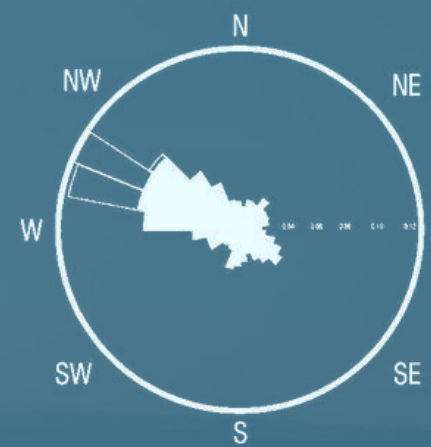
# AGNES PROJECT\_RAVENNA

*First green energy hub in the Mediterranean Sea with wind, solar and hydrogen plants*

# WHY THE NORTH ADRIATIC SEA?



**BATHIMETRY**



**WIND CONDITIONS**

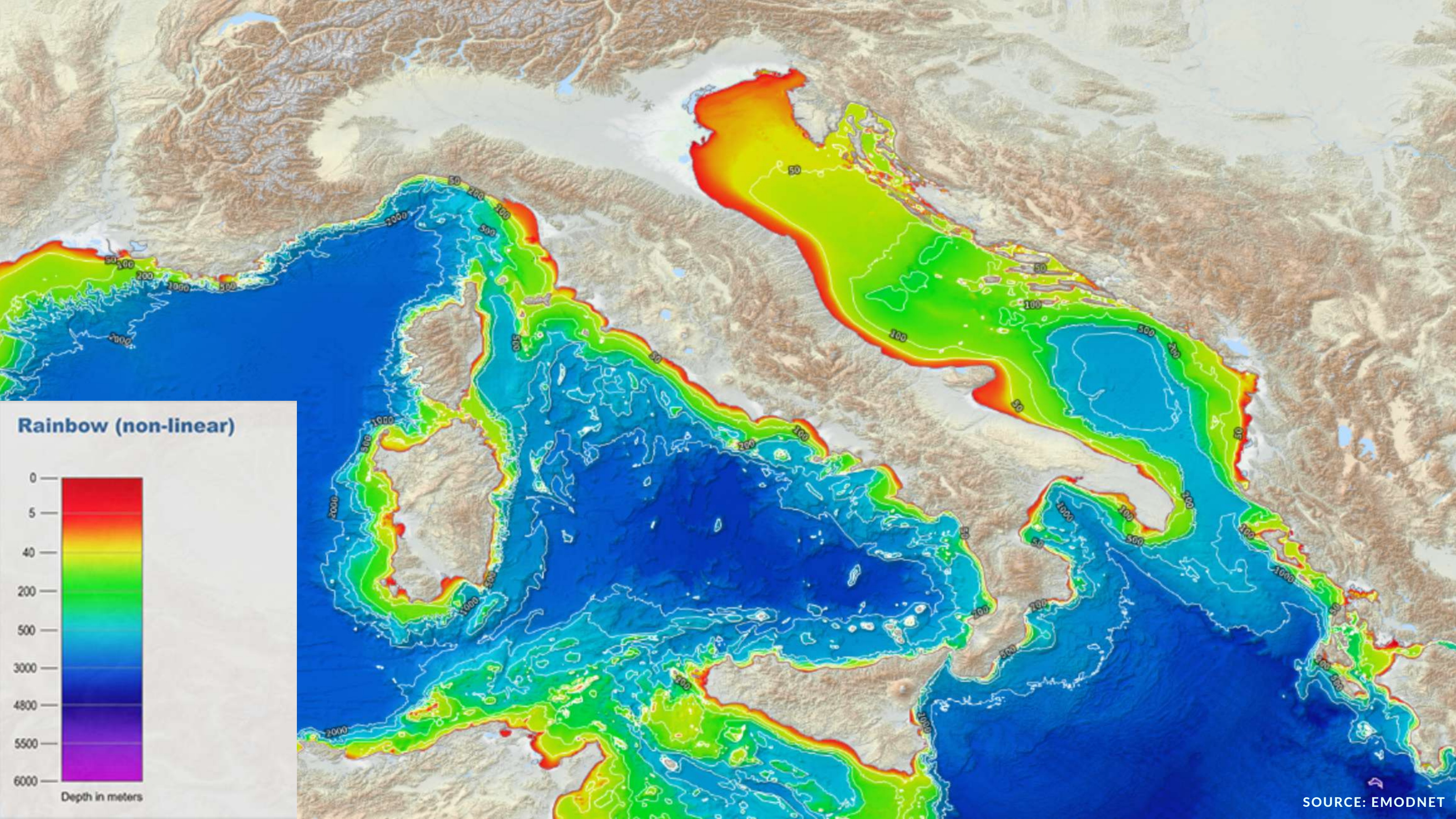


**RAVENNA ENERGY HUB**

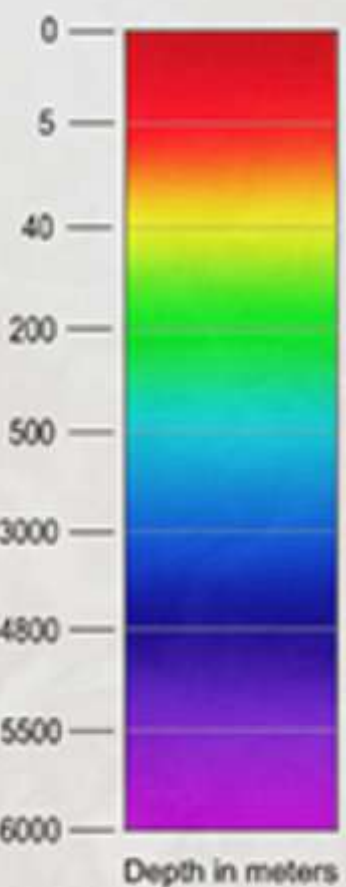
Thanks to the recent technological advancements in the wind sector and socio-economical factors, it is now possible to develop sustainable offshore energy projects in the Adriatic Sea.

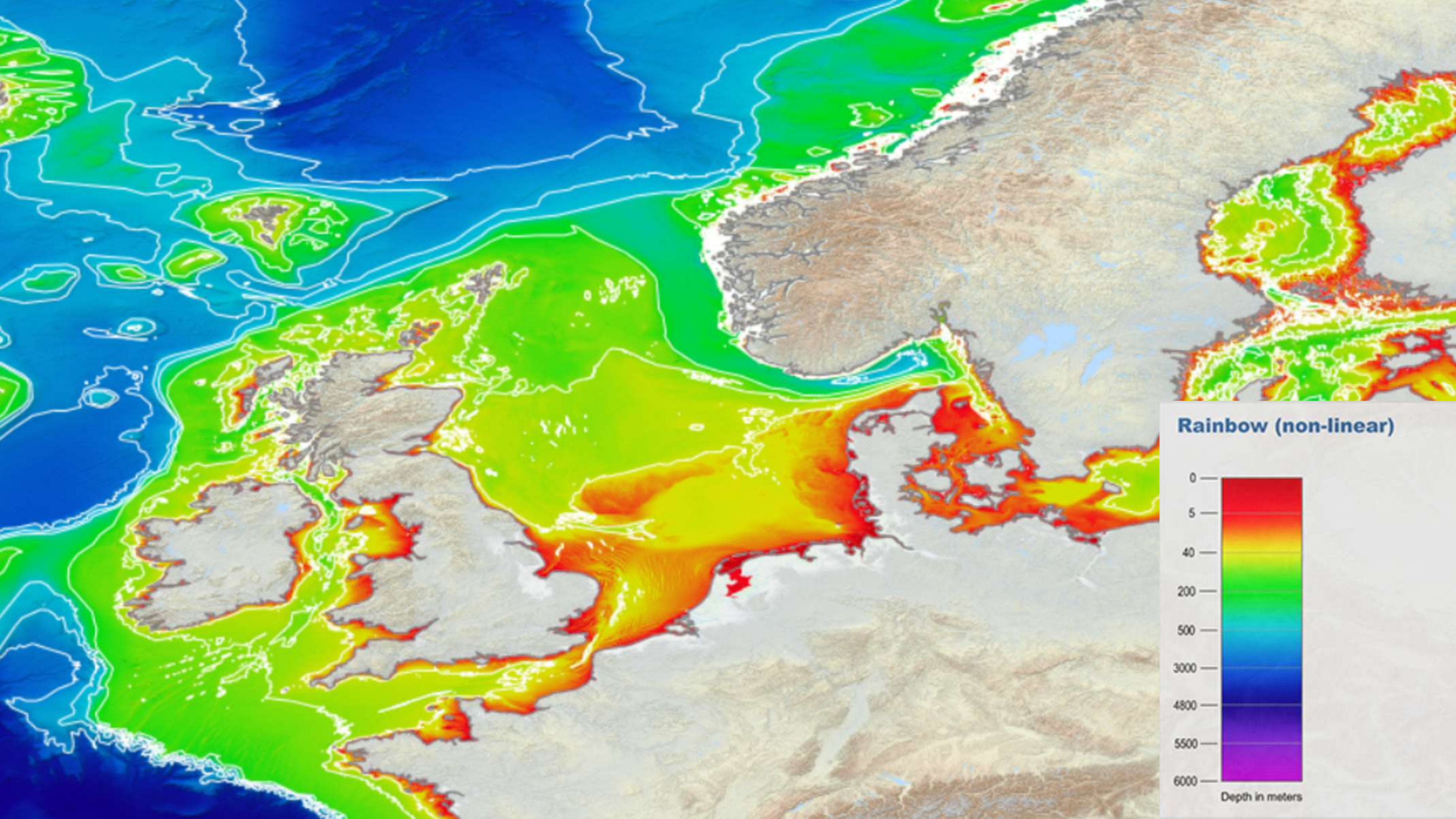


ILLUSTRATION BY JOSH BAUER, NATIONAL RENEWABLE ENERGY LABORATORY (NREL)

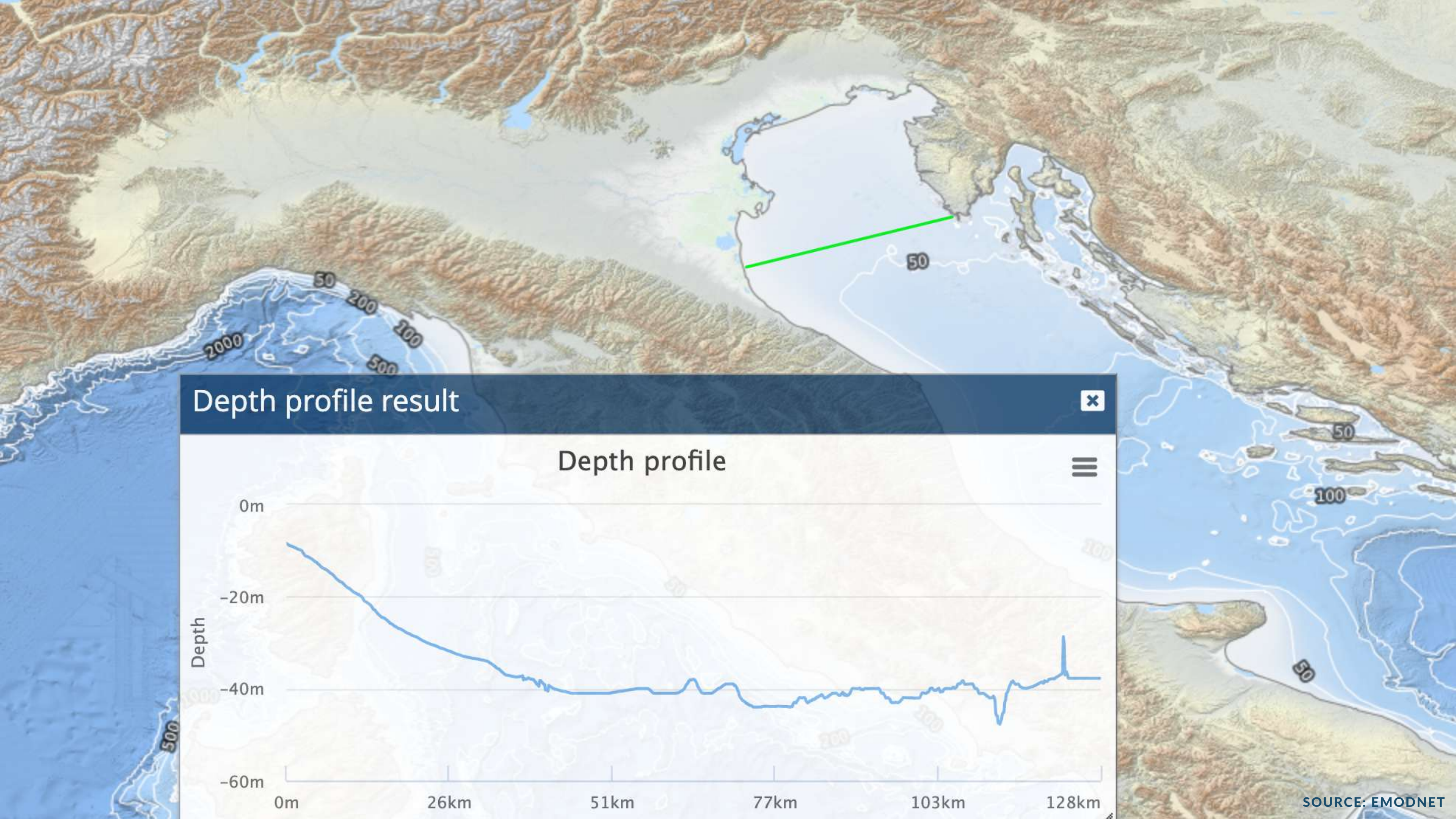


Rainbow (non-linear)

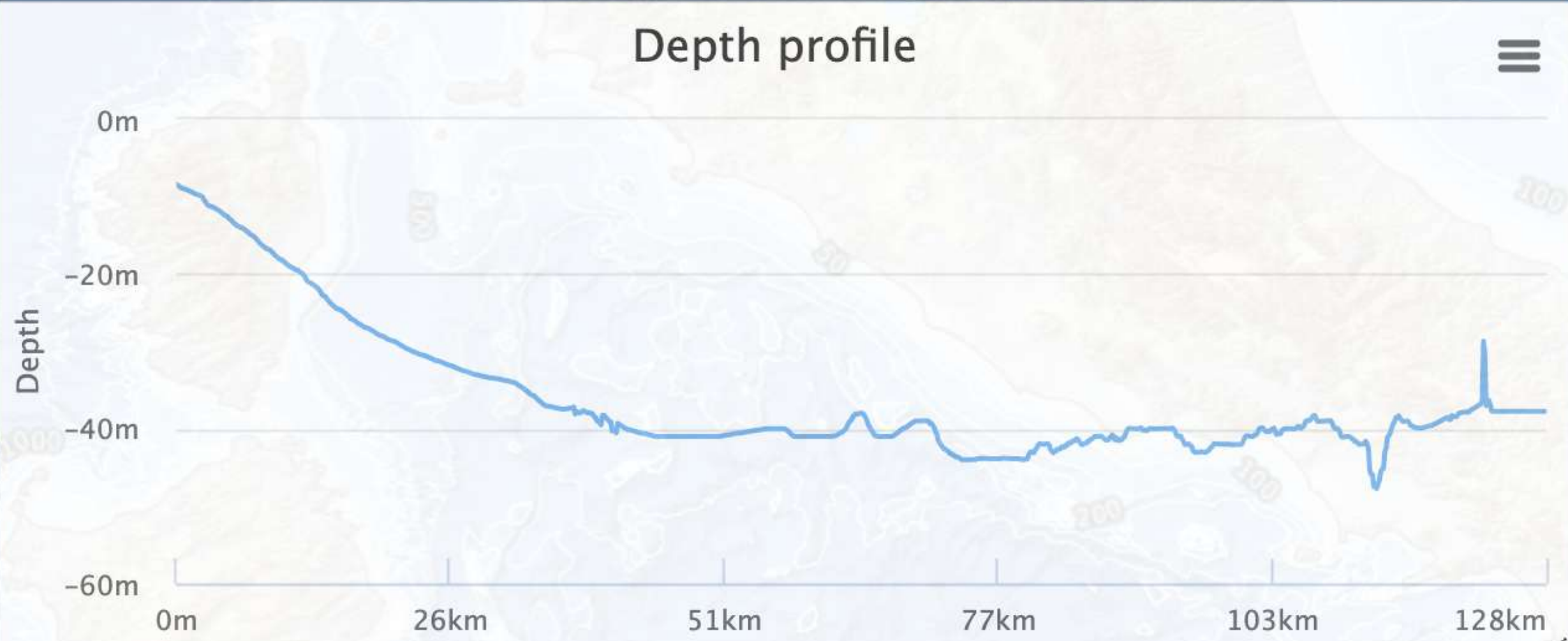






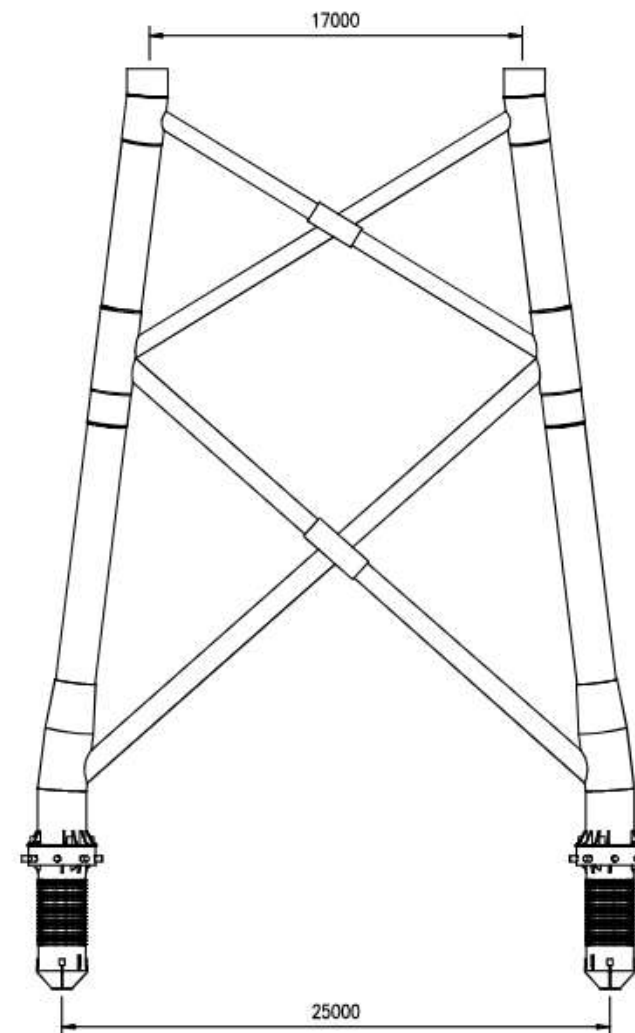
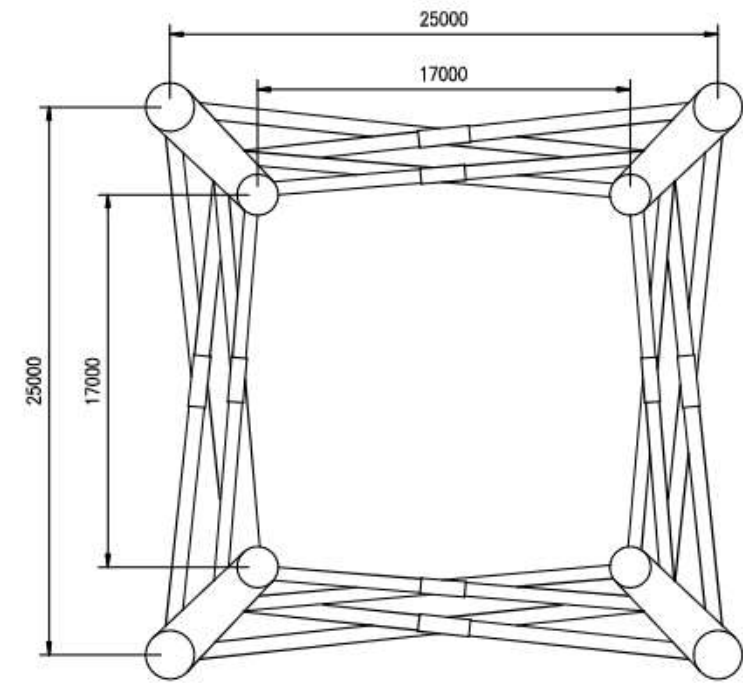
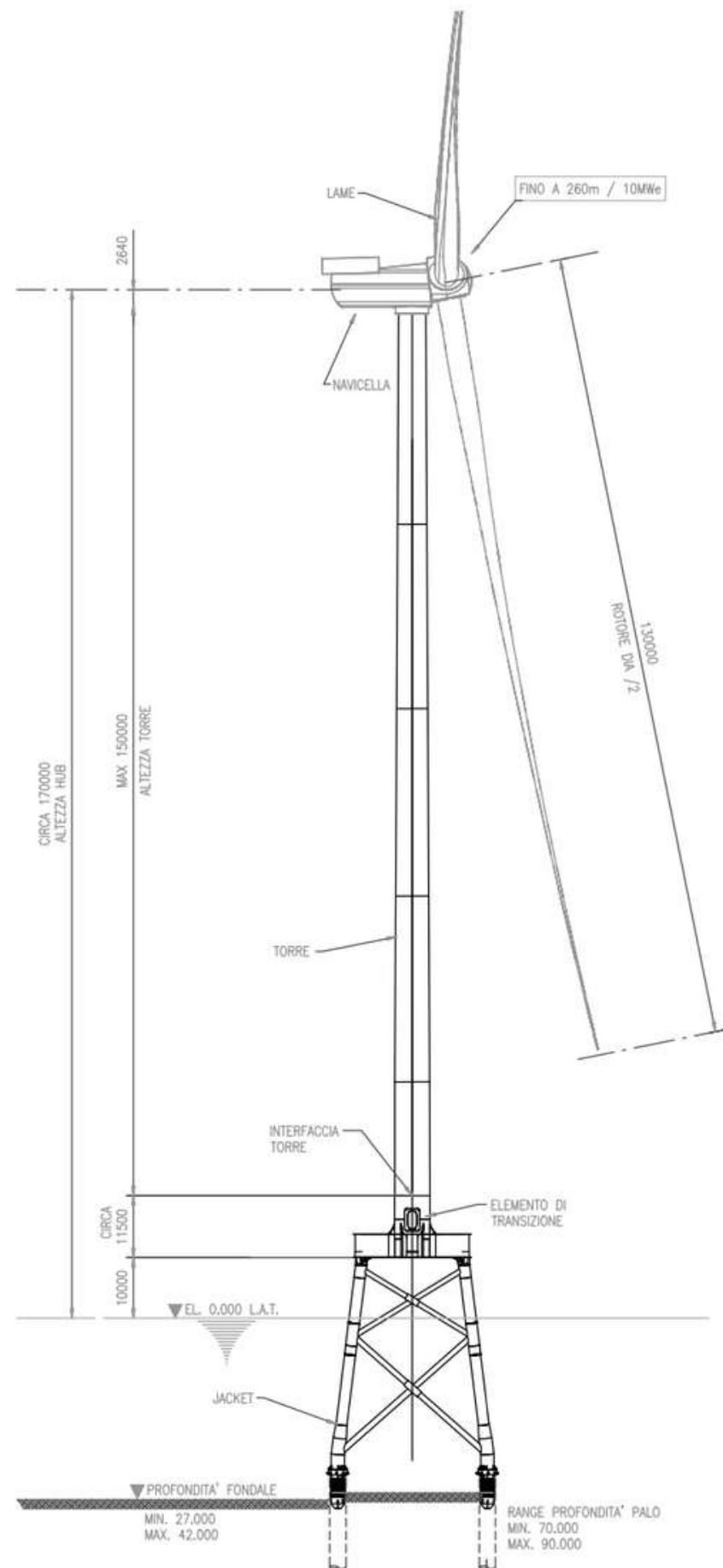


## Depth profile result ✕



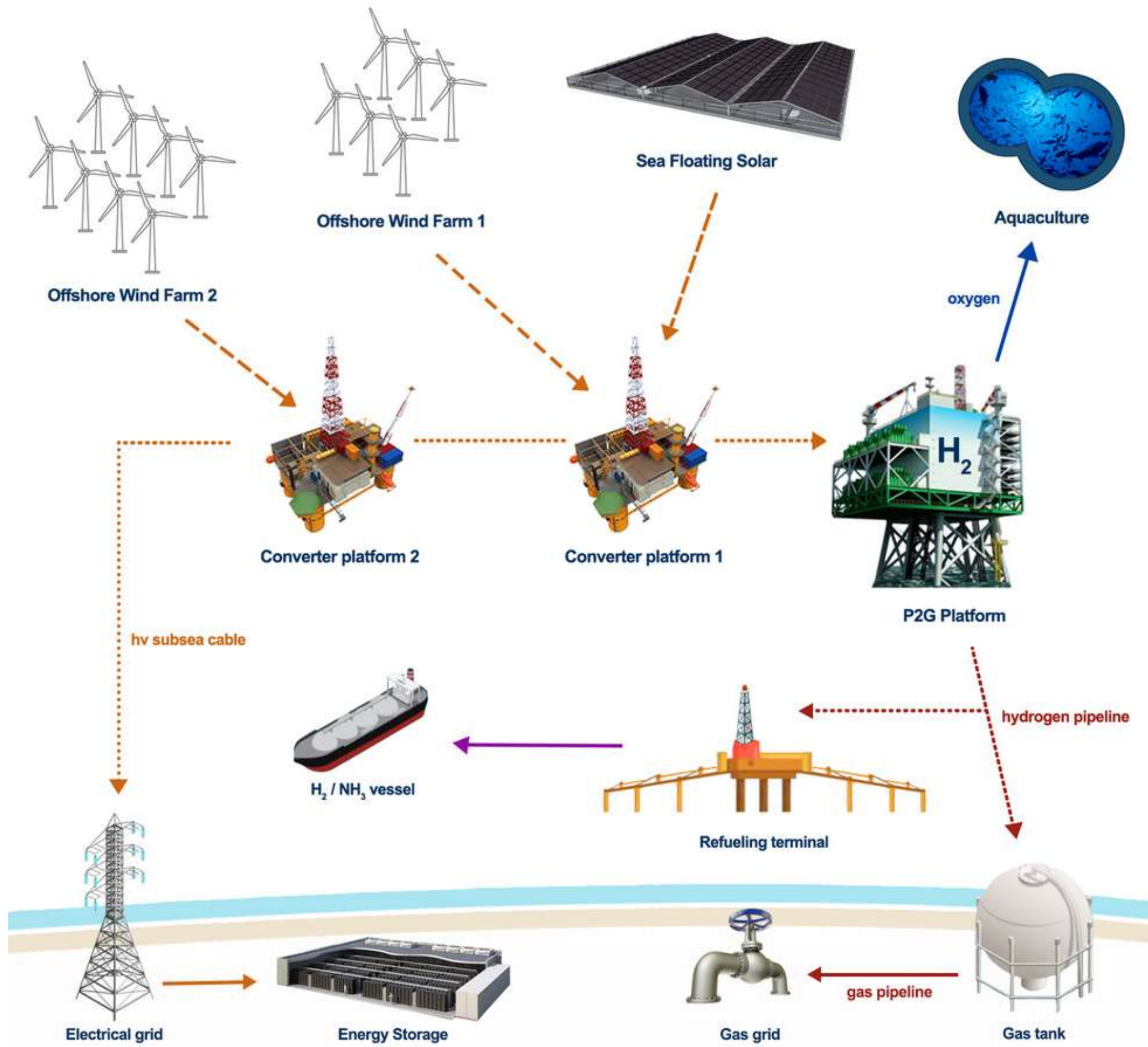
$$P = \frac{1}{2} * d * A * v^3 \begin{cases} A = \textit{swept area} (A = \pi r^2) \\ d = \textit{air density} \\ v = \textit{wind speed} \end{cases}$$

| Company        | Model          | Rated Power [kW] | Wind Class IEC               | Cut-in wind speed [m/s] | Cut-out wind speed [m/s] | Rotor diameter | Swept area [m <sup>2</sup> ] | sA/rP |
|----------------|----------------|------------------|------------------------------|-------------------------|--------------------------|----------------|------------------------------|-------|
| Ming Yang      | MySE 10-242    | 10000            |                              |                         |                          | 242            | 45972.74                     | 4.597 |
| Envision       | EN200-7.0      | 7000             |                              |                         |                          | 200            | 31400                        | 4.486 |
| Ming Yang      | MySE5.0-166    | 5000             | S                            | 2.5                     | 25                       | 166            | 21631.46                     | 4.326 |
| Goldwid        | GW184-6.45     | 6,450            | S                            | 3                       | 21                       | 184            | 26576.96                     | 4.120 |
| Ming Yang      | MySE 6.45-180  | 6450             | S                            | 3                       | 30                       | 180            | 25434                        | 3.943 |
| Goldwid        | GWH 242-12     | 12000            |                              |                         |                          | 242            | 45972.74                     | 3.831 |
| Envision       | EN190-8.0      | 8000             |                              |                         |                          | 190            | 28338.5                      | 3.542 |
| Ming Yang      | MySE5.5-155    | 5500             | IB                           | 3                       | 30                       | 155            | 18859.625                    | 3.429 |
| Swiss Electric | Y7160/6.0      | 6000             | III                          |                         |                          | 160            | 20096                        | 3.349 |
| GE             | Haliade-X      | 12000            | IB                           |                         |                          | 220            | 37994                        | 3.166 |
| Siemens Gamesa | SG 14-236 DD   | 14000            | I-S (High wind and low wind) |                         |                          | 236            | 43721.36                     | 3.123 |
| Ming Yang      | MySE 8.3-180   | 8300             | S                            | 3                       | 30                       | 180            | 25434                        | 3.064 |
| Goldwid        | GW175-8.0      | 8000             | S                            | 3                       | 25                       | 175            | 24040.625                    | 3.005 |
| GE             | Haliade 150-6  | 6000             | IB                           | 3                       | 25                       | 150            | 17662.5                      | 2.944 |
| Ming Yang      | MySE 11-203    | 11000            | IB                           |                         |                          | 203            | 32349.065                    | 2.941 |
| GE             | Haliade-X      | 13000            | IC                           |                         |                          | 220            | 37994                        | 2.923 |
| Vestas         | V236-15.0      | 15000            | S-ST                         | 3                       | 30                       | 236            | 43721.36                     | 2.915 |
| Ming Yang      | MySE 16-242    | 16000            |                              |                         |                          | 242            | 45972.74                     | 2.873 |
| Siemens Gamesa | SG 11.0-200 DD | 11,000           | I-S (raccomended high wind)  |                         |                          | 200            | 31400                        | 2.855 |
| Swiss Electric | YZ190/10.0     | 10000            | III                          | 2.5                     | 25                       | 190            | 28338.5                      | 2.834 |
| Siemens Gamesa | SG 14-222 DD   | 14000            | I-S (raccomended high wind)  |                         |                          | 222            | 38687.94                     | 2.763 |
| Siemens Gamesa | SG 8.0-167 DD  | 8,000            | IB-S (raccomended high wind) |                         |                          | 167            | 21892.865                    | 2.737 |
| GE             | Haliade-X      | 14000            | IC                           |                         |                          | 220            | 37994                        | 2.714 |
| DongFang       | FD211-13000    | 13000            |                              |                         |                          | 211            | 34948.985                    | 2.688 |
| DongFang       | D10000-185     | 10000            |                              | 4                       | 30                       | 185            | 26866.625                    | 2.687 |
| Vestas         | V117-4.2       | 4000             | IIA-IB-ST                    | 3                       | 25                       | 117            | 10745.865                    | 2.686 |
| Siemens Gamesa | SWT-7.0-154    | 7000             | I-S (raccomended high wind)  |                         |                          | 154            | 18617.06                     | 2.660 |
| Vestas         | V174-9.5       | 9500             | IB-IBT                       | 3                       | 25                       | 174            | 23766.66                     | 2.502 |
| Vestas         | V164-9.5       | 9500             | S                            | 3                       | 25                       | 164            | 21113.36                     | 2.222 |
| Vestas         | V164-10        | 10000            | ST                           | 3                       | 25                       | 164            | 21113.36                     | 2.111 |



**sA/rP higher  
 than 5  
 to achieve a  
 capacity factor  
 of 35% or more**





# AGNES *Key Numbers*



**750 MW**

total installed capacity between floating solar, wind and batteries  
→ 75 offshore wind turbines, 1 offshore floating solar farm



**16 TONS**

hydrogen produced daily by on-shore/off-shore electrolyzers  
→ considering a target capacity of 50 MW



**> 1.6 TWH**

electricity produced yearly by wind and solar power plants  
→ enough to power 500.000 households



**€2 BILLION**

total investments for the realization of the onshore and offshore infrastructures.  
→ thousands of professional figures involved.

# Key Facts **AGNES**

## **TECHNOLOGICAL INNOVATION**

unique integration of avant-garde power plants  
one-of-a-kind project on commercial scale in the Italian market ←



## **RAVENNA O&M AND CONSTRUCTION HUB**

the proximity of the industrial port creates technical/financial advantages  
local value chain, highly skilled companies in the O&G sector ←



## **LOW ENVIRONMENTAL IMPACT**

careful preliminary study of the maritime space  
low visual impact thanks to the distance from the shore ←



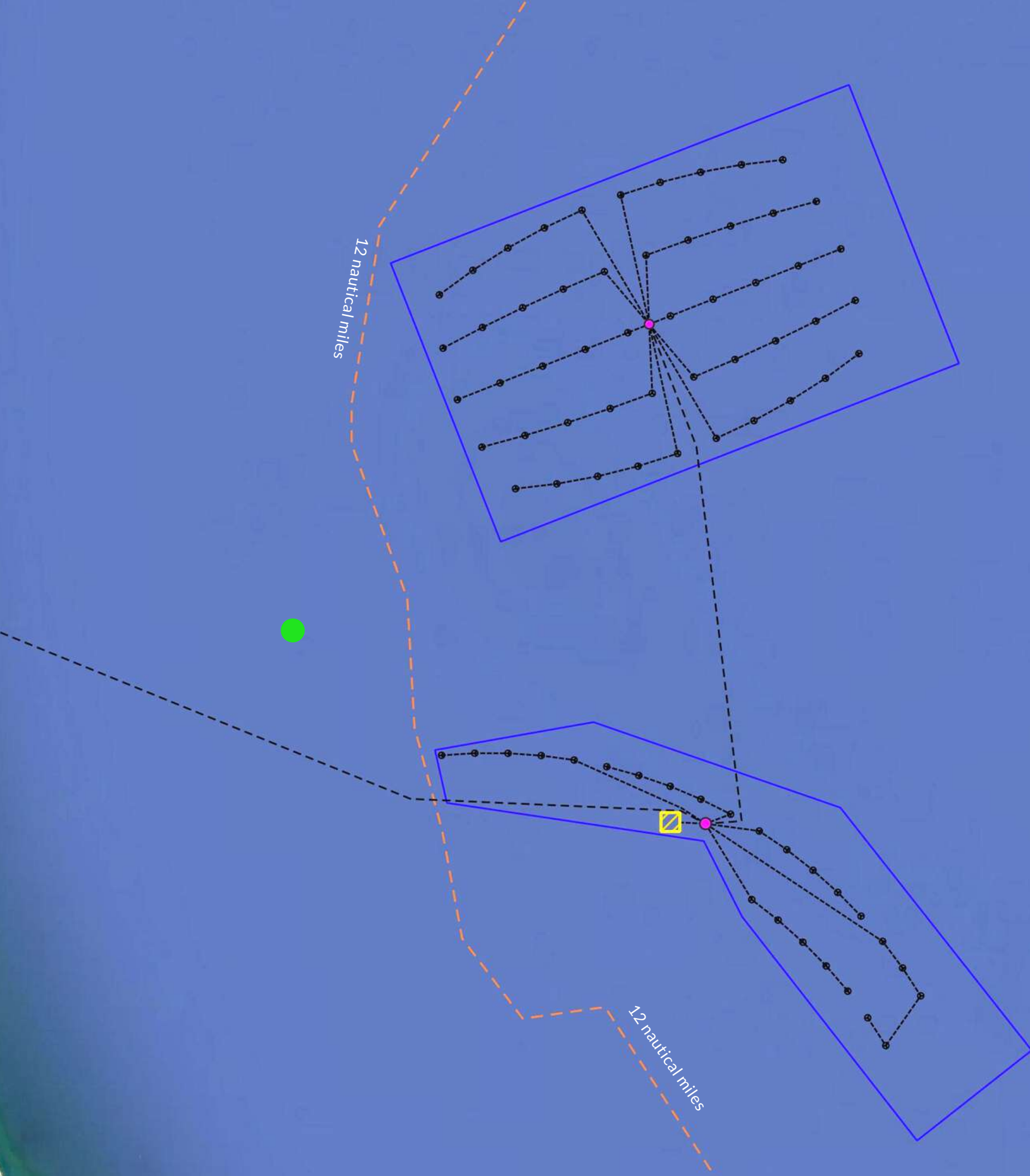
## **ALIGNED WITH ENERGY STRATEGY**

the project is in harmony with Italian and European targets  
great endorsement from the public administrations, locally and nationally ←



# AGNES - OFFSHORE

Layout - Satellite View



- ### LEGEND
- Wind turbines
  - 12 nautical miles
  - Offshore substations
  - ... Sea cables MT/AT
  - Optional platform for H2
  - ▭ AGNES parks R1&R2
  - ▭ Floating Solar

# AGNES - ONSHORE

Layout - Satellite View



# PROJECT'S ROADMAP 2020 > 2024

2020

## PARTNERSHIP & PRELIMINARY PROJECT

- Request for connection to the national grid, operated by Terna, of 670 MW
- Start of the **official collaboration with Saipem S.p.A.**
- **Completion of the Preliminary Project**
- Start of the stakeholder engagement campaign

2021

## START OF PERMITTING PROCESS

- **670 MW connection to the national grid officially secured**
- **Official start of the permitting process with Italian Ministeries**
- **Start of permitting process and opening of the Services Conference**

 2022

## PRESENTATION OF THE PROJECT & EIA

- **Front-End Engineering Design & relationships with suppliers**
- **Surveys for Environmental Impact Assessment**
- Start of the wind measurement campaign in project's area
- Submission of **EIA** to the Italian Ministry of Ecological Transition

2023

## ACQUISITION OF ALL PERMITS & FID

- **Conclusion of Environmental Impact Assessment (EIA)**
- **Presentation of the Project to Italian Ministry of Transport**
- **Evaluation of EIA** from Italian Ministry of Ecological Transition
- **Start of tender for EPCI contracts**

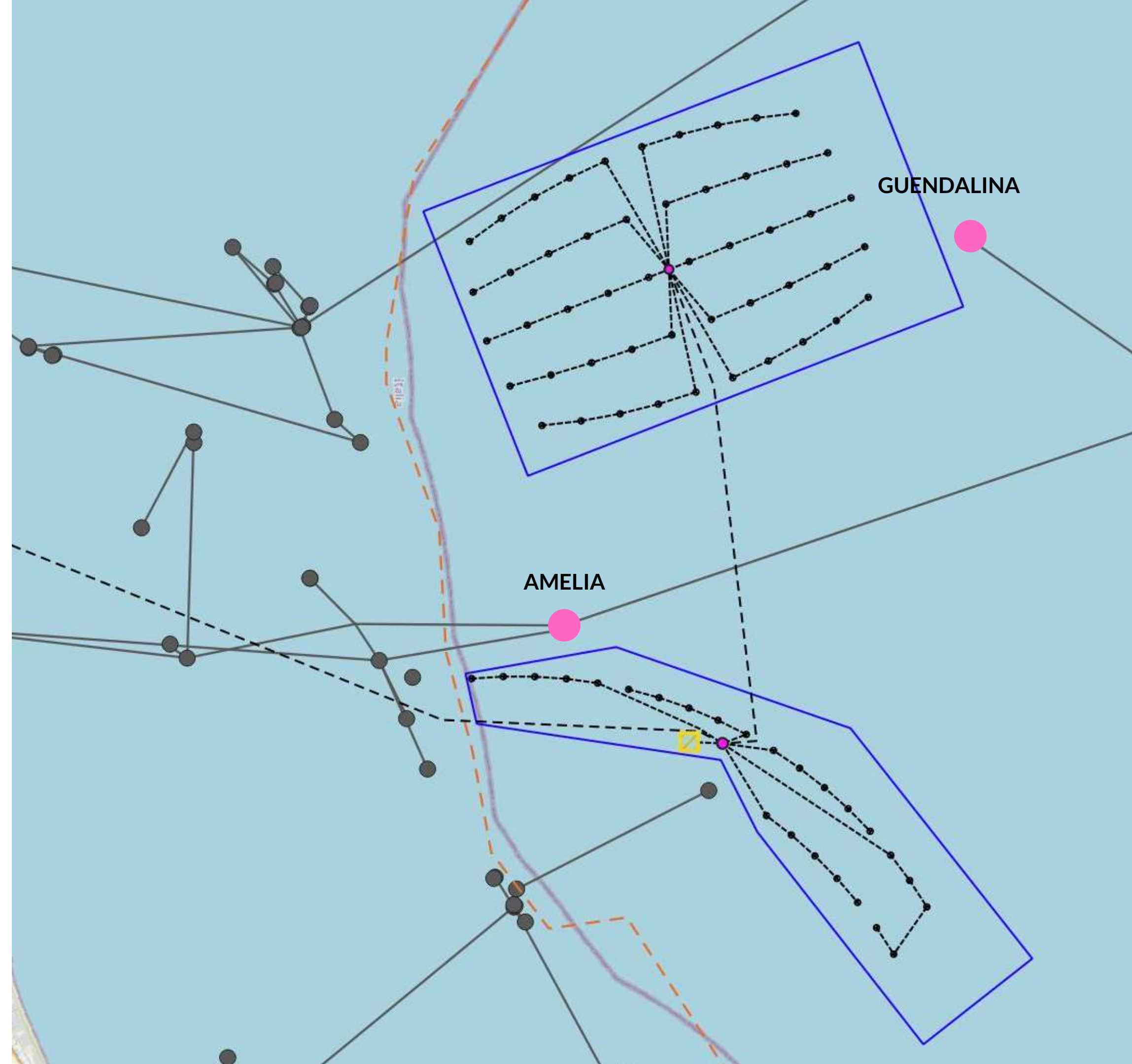
2024

## FINAL INVESTMENT DECISION & EPCI

- **Acquisition of all permits from Italian authorities**
- **FID Date - Final Investment Decision**
- Start of the Executive Project

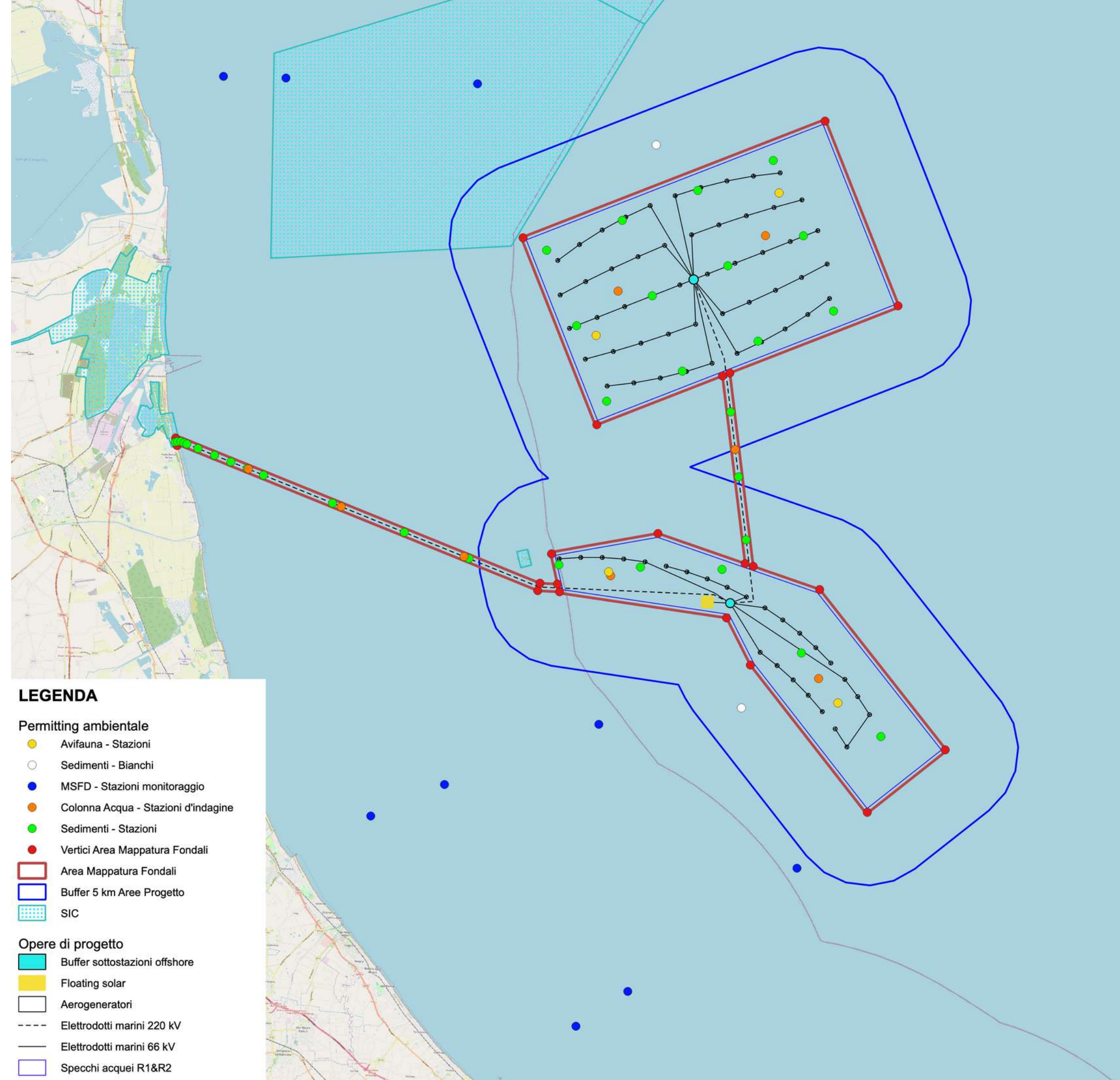
# WIND MEASUREMENT CAMPAIGN

- Two fixed lidars on two O&G platforms in close proximity to Romagna 1 and Romagna 2 areas
- Starting of wind measurements campaign by the end of 2021
- Duration of campaign: 12-24 months



# ENVIRONMENTAL IMPACT ASSESSMENT

- Geomorphological surveys on Q2 2022 (SBES, MBES, SSS and MAG)
- Birds and marine fauna surveys
- Water and sediments analysis
- Countless desktop studies
- Duration of campaign: 6 months
- Presentation of EIA to the authorities on Q1 2023



# STAKEHOLDER ENGAGEMENT

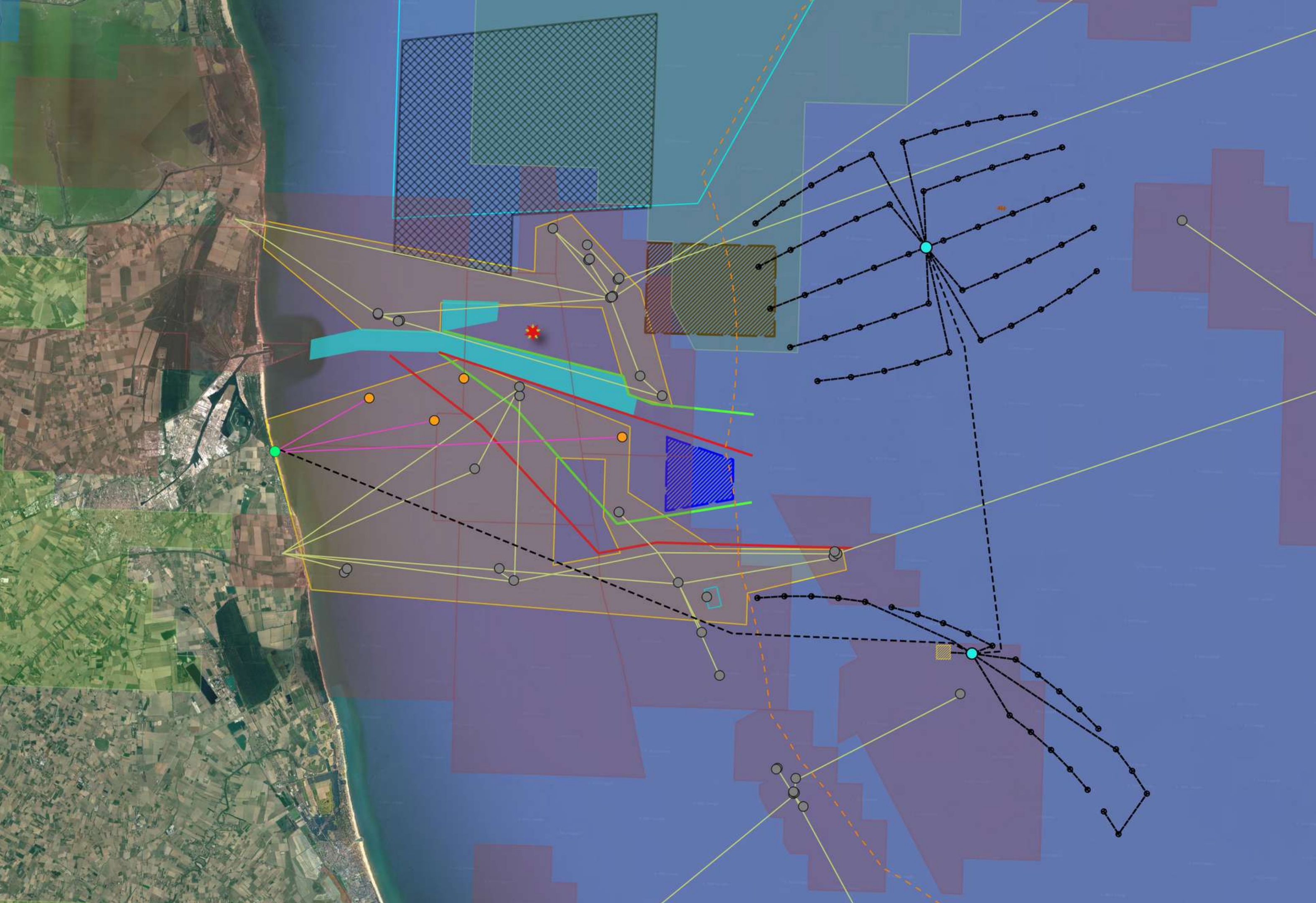
The company that created and promoted the project, Qint'x, together with the development partner Saipem, has carried out over the last two years an intense stakeholder engagement campaign aimed at facilitating the AGNES authorization.

Today the project enjoys the **great endorsement of municipal and regional policy**.

In addition, the AGNES project is **unique at the national level**, as it can **bring together environmental and industrial associations**, historically in contrast.

This represents a **great advantage** for the success of the project, as demonstrated by the recent **allocation of €70 million for the project** within the Complementary Fund to the PNRR voted by the Italian Parliament in July 2021.





# LEGENDA

Progetto AGNES Ravenna

Layout definitivo 2° istanza

## Opere a mare

- Punto di sbarco su linea di costa
- Buffer sottostazioni offshore
- Aerogeneratori
- Floating solar
- Elettrodotti marini 66 kV
- - - - Elettrodotti marini 220 kV

## Limiti amministrativi

- - - - Limite acque territoriali (ISPRA)

## Idrocarburi

- Terminali marini
- Piattaforme estrattive

## Condotte (ARPAE)

- Sealine metanifera
- Sealine petrolifera
- Istanze di concessione
- Permessi di ricerca
- Concessioni

## Cumulative Analysis

### Nuovo TSS

- Corridoio Ingresso Nord
- Corridoio Ingresso Sud
- Corridoio Uscita Nord
- Corridoio Uscita Sud
- Canale di accesso al porto
- ★ Anch point
- Area B1 - Zona ECHO 346
- LTA zone
- SIC Marini
- Relitto
- Scarico dragaggi
- Aree di divieto ancoraggio

Mappe di base  
Google Satellite

# AGNES WIND FARMS



**260 meters**

ROTOR DIAMETER



**170 meters**

HUB HEIGHT



**600 MWp**

TOTAL POWER



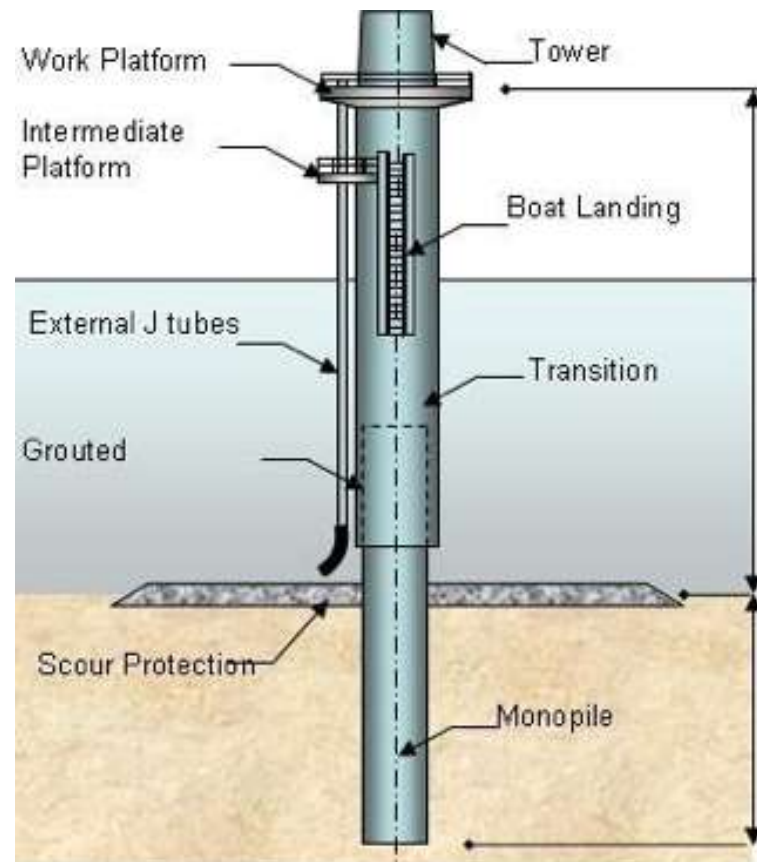
**12 e 14 mn**

SHORE DISTANCE

Agnes wind component is divided into two offshore parks named "Romagna 1" and "Romagna 2", for a total of 75 wind turbines with a rated power of 8 MWp, a hub height of 170 meters, and a rotor diameter of 260 meters:

- **Romagna 1:** it's composed of 25 wind turbines, of which 10 off-grid to power the electrolyzers; the layout is a double arch located at 12 nautical miles from the shore;
- **Romagna 2:** it's composed of 5 lines with 10 wind turbines each; the layout is characterized by a cluster, located 14 nautical miles from the shore in order to mitigate the visual impact.

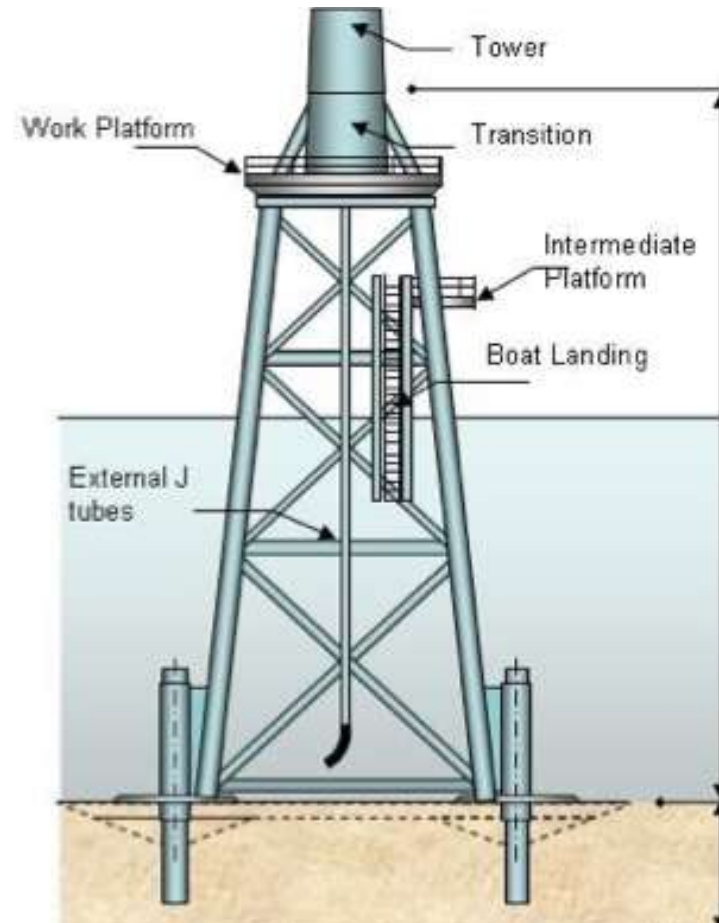
# AGNES WIND FARM FOUNDATIONS



## MONOPILE

**PROS:** easy to build, lower costs of manufacturing, well proved.

**CONS:** limited water depth, lower resistance to waves, highly sensitive to soil conditions.



## JACKET

**PROS:** higher resistance to waves, lesser sensitivity to soil conditions.

**CONS:** higher costs of manufacturing.



## SUCTION BUCKET

**PROS:** reduced impact on environment, easier installation.

**CONS:** higher costs of manufacturing, less mature technology.

# AGNES WIND FARMS PRODUCTION

| WIND FARMS R1 & R2: SUMMARY OF 1st YEAR PRODUCTION WITH ERA-5 WIND DATA ACCORDING TO THE LAYOUTS |                     |                             |                  |                    |                          |                                  |
|--|---------------------|-----------------------------|------------------|--------------------|--------------------------|----------------------------------|
| Turbine type   | Rated power<br>[MW] | Average wind speed<br>[m/s] | Wind Loss<br>[%] | Net AEP<br>[MWh/y] | Equivalent hours<br>[hh] | Degradation rate<br>[% per year] |
| 65x GH-FD 202  | 600                 | 5.46                        | 4.32             | 1.204.180          | 2007                     | 0,54                             |
| 65x GH-FD 220  | 600                 | 5.46                        | 4.54             | 1.312.111          | 2187                     | 0,54                             |
| 65x GH-FD 250  | 600                 | 5.46                        | 5.19             | 1.479.324          | 2466                     | 0,54                             |
| 65x GH-FD 260  | 600                 | 5.59                        | 5.57             | 1.533.711          | 2556                     | 0,54                             |
| 65x Myng Yang 203  | 600                 | 5.44                        | 4.43             | 1.200.343          | 2001                     | 0,54                             |
| WIND FARMS R1 & R2: SUMMARY OF 1st YEAR PRODUCTION WITH AWS WIND DATA ACCORDING TO THE LAYOUTS   |                     |                             |                  |                    |                          |                                  |
| Turbine type   | Rated power<br>[MW] | Average wind speed<br>[m/s] | Wind loss<br>[%] | Net AEP<br>[MWh/y] | Equivalent hours<br>[hh] | Degradation rate<br>[% per year] |
| 65x GH-FD 202  | 600                 | 6.72                        | 3.22             | 1.720.243          | 2867                     | 0,54                             |
| 65x GH-FD 220  | 600                 | 6.72                        | 3.45             | 1.862.944          | 3105                     | 0,54                             |
| 65x GH-FD 250  | 600                 | 6.69                        | 3.93             | 2.022.089          | 3370                     | 0,54                             |
| 65x GH-FD 260  | 600                 | 6.88                        | 4.27             | 2.056.343          | 3427                     | 0,54                             |
| 65x Myng Yang 203  | 600                 | 6.69                        | 3.27             | 1.717.125          | 2862                     | 0,54                             |

# AGNES FLOATING SOLAR PLANT



63 ha

SURFACE AREA



100 MWp

INSTALLED POWER

Floating solar is a technology with **huge potential** that is being adopted all around the world and **Agnes is set to be one of the first offshore projects in the world regarding this technology.**



2-3 meters

MAX HEIGHT A.S.L.



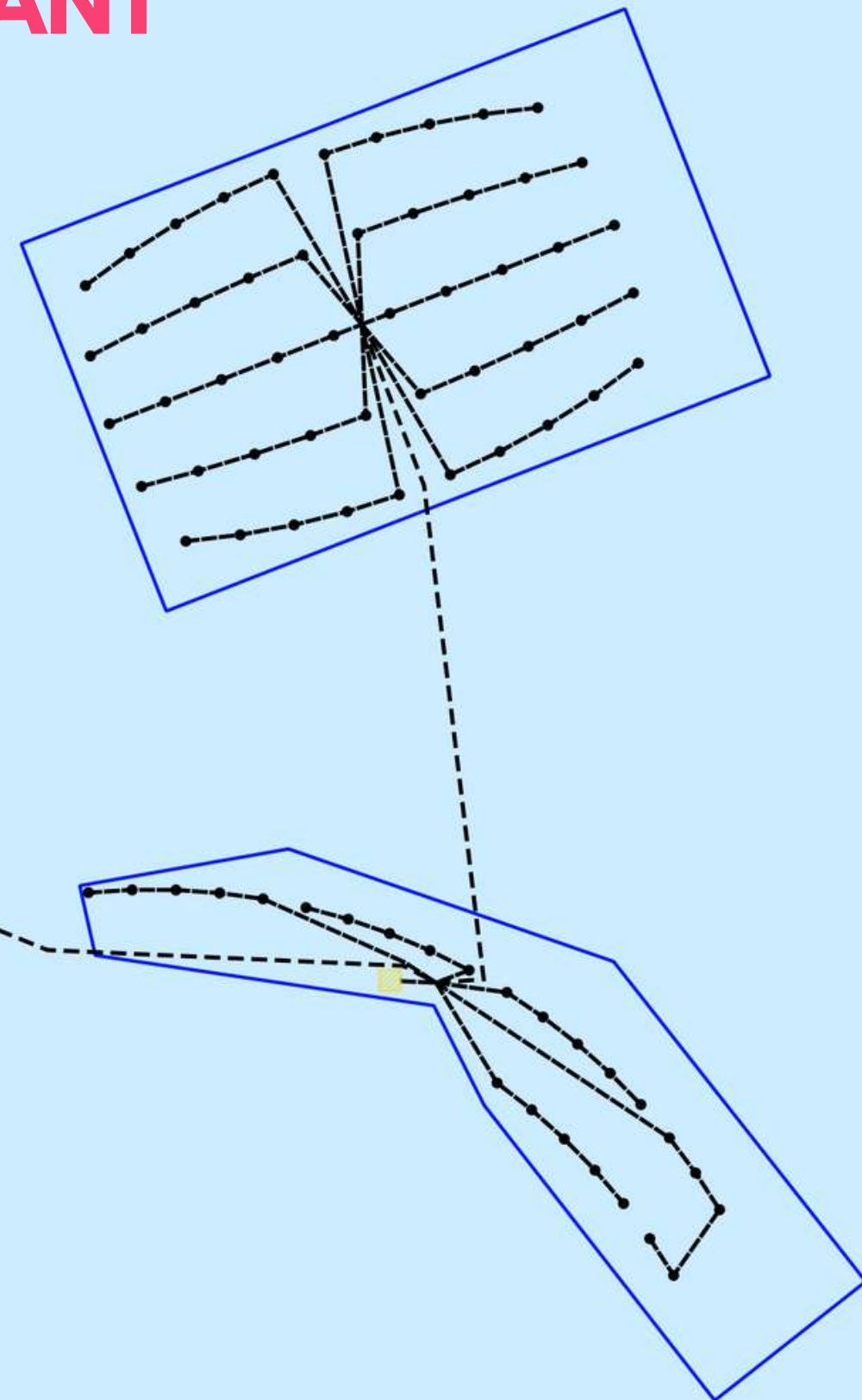
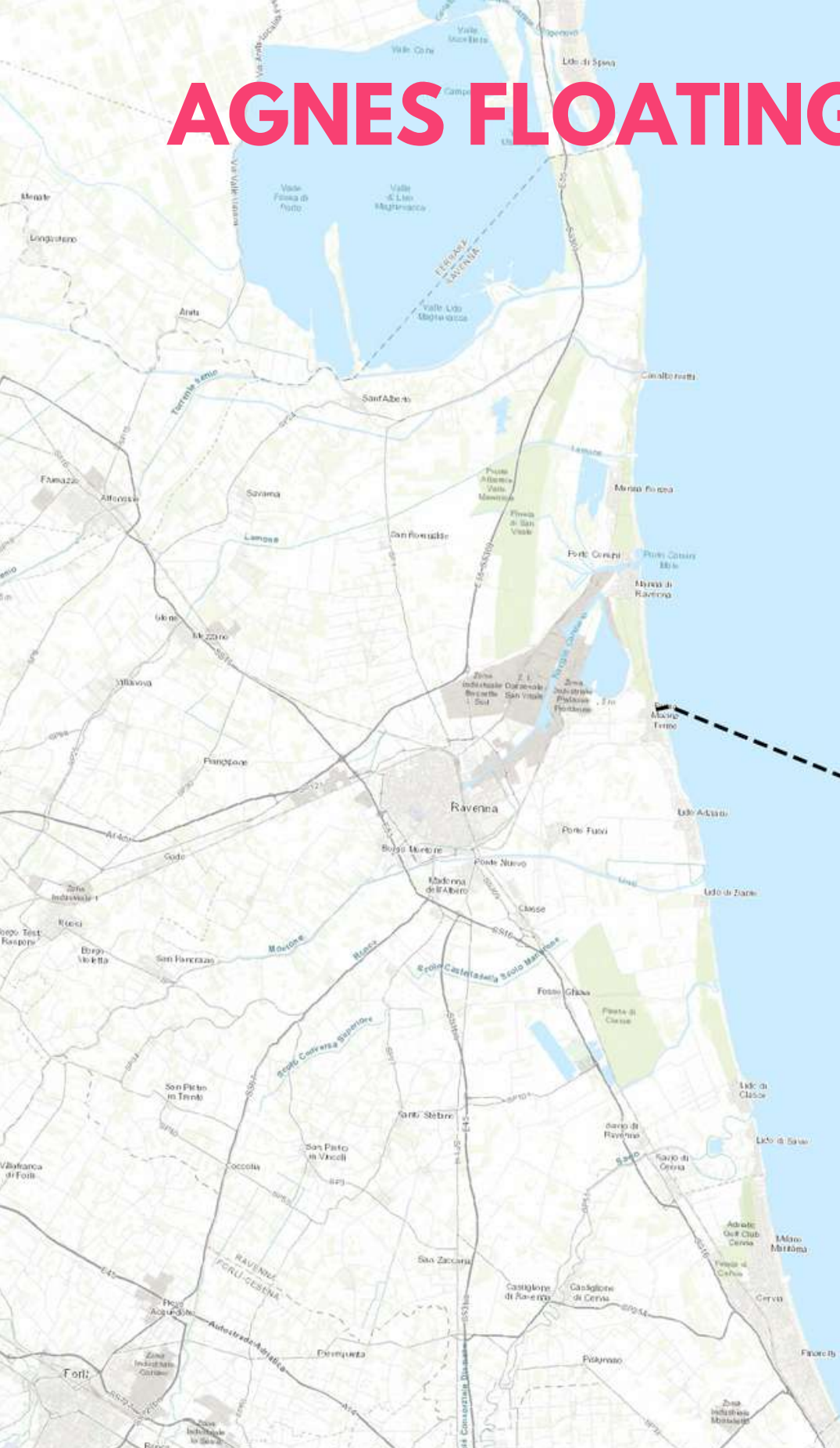
12 nm

SHORE DISTANCE

The **High Adriatic Sea** presents **ideal conditions** for the testing and maturity of this technology:

- low sea depths,
- low waves,
- and a good level of solar radiation.

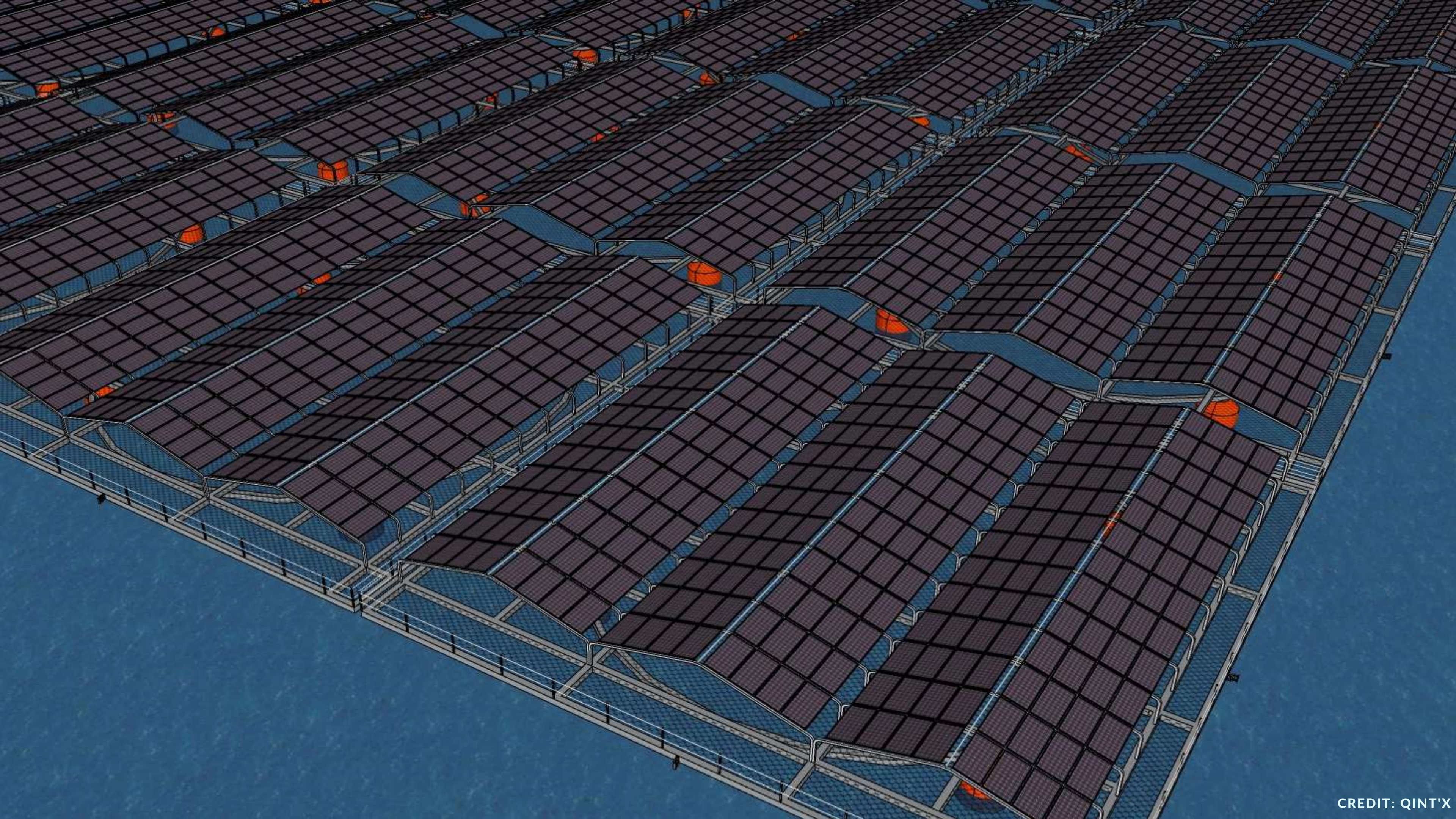
# AGNES FLOATING SOLAR PLANT

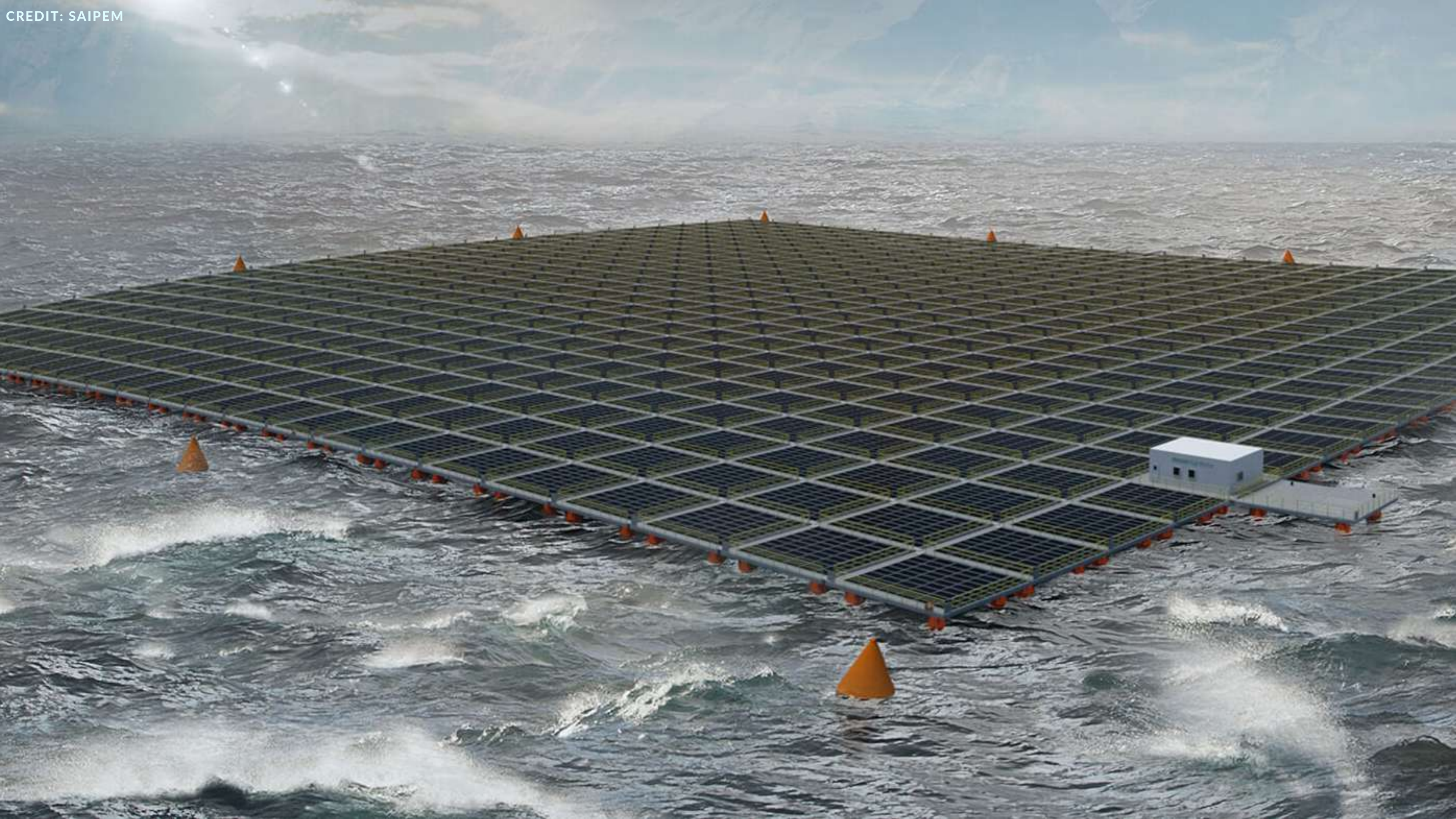


|                       | AREA OCCUPIED (sm) | INSTALLED CAPACITY (MW) | FIRST YEAR NET AEP (MWh) | AREA OCCUPIED/MW | AREA OCCUPIED/MWh |
|-----------------------|--------------------|-------------------------|--------------------------|------------------|-------------------|
| <b>FLOATING SOLAR</b> | 1,690,000.00       | 100.00                  | 111,800.00               | 16,900.00        | 15.12             |
| <b>WIND</b>           | 396,403,996.00     | 600.00                  | 1,600,200.00             | 660,673.33       | 247.72            |

# List of countries by length of coastline

| Country  | <i>The World Factbook</i> <sup>[2]</sup> |                            | World Resources Institute <sup>[1]</sup> |           | Land area<br>km <sup>2</sup> (TWF) <sup>[3]</sup> | Coast/area ratio (m/km <sup>2</sup> ) |       | Coast/area <sup>0.5</sup> ratio<br>(TWF) |
|--|--|----------------------------|--|-----------|---|---------------------------------------|-------|--|
|  | Rank                                     | km                         | Rank                                     | km        |   | (TWF)                                 | (WRI) |  |
| <i>World</i> <sup>[Note 2]</sup>   | —  | 356,000                    | —  | 1,634,701 | 148,940,000                                       | 2.39                                  | 11.0  | 29.2                                     |
|  Canada                               | 1  | 202,080                    | 1  | 265,523   | 9,093,507   | 22.2                                  | 29.2  | 67                                       |
|  Norway                               | 2  | 83,281 <sup>[Note 3]</sup> | 7  | 53,199    | 304,282   | 274                                   | 175   | 151                                      |
|  Indonesia                            | 3  | 54,716                     | 4  | 95,181    | 1,811,569   | 30.2                                  | 52.5  | 40.7                                     |
|  <i>Greenland</i> <sup>[Note 4]</sup> | —  | 44,087                     |  |           | 2,166,086   | 20.4                                  |       | 30                                       |
|  Russia                               | 4  | 37,653 <sup>[Note 5]</sup> | 3  | 110,310   | 16,377,742  | 2.30                                  | 6.74  | 9.3                                      |
|  Philippines                          | 5  | 36,289                     | 8  | 33,900    | 298,170   | 122                                   | 114   | 66.5                                     |
|  Japan                                | 6  | 29,751                     | 12                                       | 29,020    | 364,485   | 81.6                                  | 79.6  | 49.3                                     |
|  Australia                            | 7  | 25,760                     | 6  | 66,530    | 7,682,300   | 3.35                                  | 8.66  | 9.29                                     |
|  United States                        | 8  | 19,924                     | 2  | 133,312   | 9,147,593   | 2.18                                  | 14.6  | 6.59                                     |
|  <i>Antarctica</i>                    | —  | 17,968                     |  |           | 14,200,000  | 1.27                                  |       | 4.77                                     |
|  New Zealand                         | 9  | 15,134                     | 17                                       | 17,209    | 264,537   | 57.2                                  | 65.1  | 29.4                                     |
|  China                              | 10                                       | 14,500                     | 11                                       | 30,017    | 9,326,410   | 1.55                                  | 3.22  | 4.75                                     |
|  Greece                             | 11                                       | 13,676                     | 19                                       | 15,147    | 130,647   | 105                                   | 116   | 37.8                                     |
|  United Kingdom                     | 12                                       | 12,429                     | 16                                       | 19,717    | 241,930   | 51.4                                  | 81.5  | 25.3                                     |
|  Mexico                             | 13                                       | 9,330                      | 14                                       | 23,761    | 1,943,945   | 4.80                                  | 12.2  | 6.69                                     |
|  Italy                              | 14                                       | 7,600                      | 28                                       | 9,226     | 294,140   | 25.8                                  | 31.4  | 14                                       |
|  Brazil                             | 15                                       | 7,491                      | 9  | 33,379    | 8,358,140   | 0.896                                 | 3.99  | 2.59                                     |
|  Denmark                            | 16                                       | 7,314                      | 44                                       | 5,316     | 42,434  | 172                                   | 126   | 35.5                                     |
|  Turkey                             | 17                                       | 7,200                      | 31                                       | 8,140     | 769,632   | 9.36                                  | 10.6  | 8.21                                     |
|  India                              | 18                                       | 7,000                      | 18                                       | 17,181    | 2,973,193   | 2.35                                  | 5.78  | 4.06                                     |
|  Chile                              | 19                                       | 6,435                      | 5  | 78,563    | 743,812   | 8.65                                  | 106   | 7.46                                     |
|  Micronesia, Federated States of    | 20                                       | 6,112                      | 92                                       | 1,295     | 702   | 8,710                                 | 1,840 | 231                                      |







# AGNES GREEN HYDROGEN



100 MW

MAXIMUM CAPACITY



32 tons

MAX H2 PRODUCED DAILY



+8000

POTENTIAL BUS FUELED



114.000 TONS

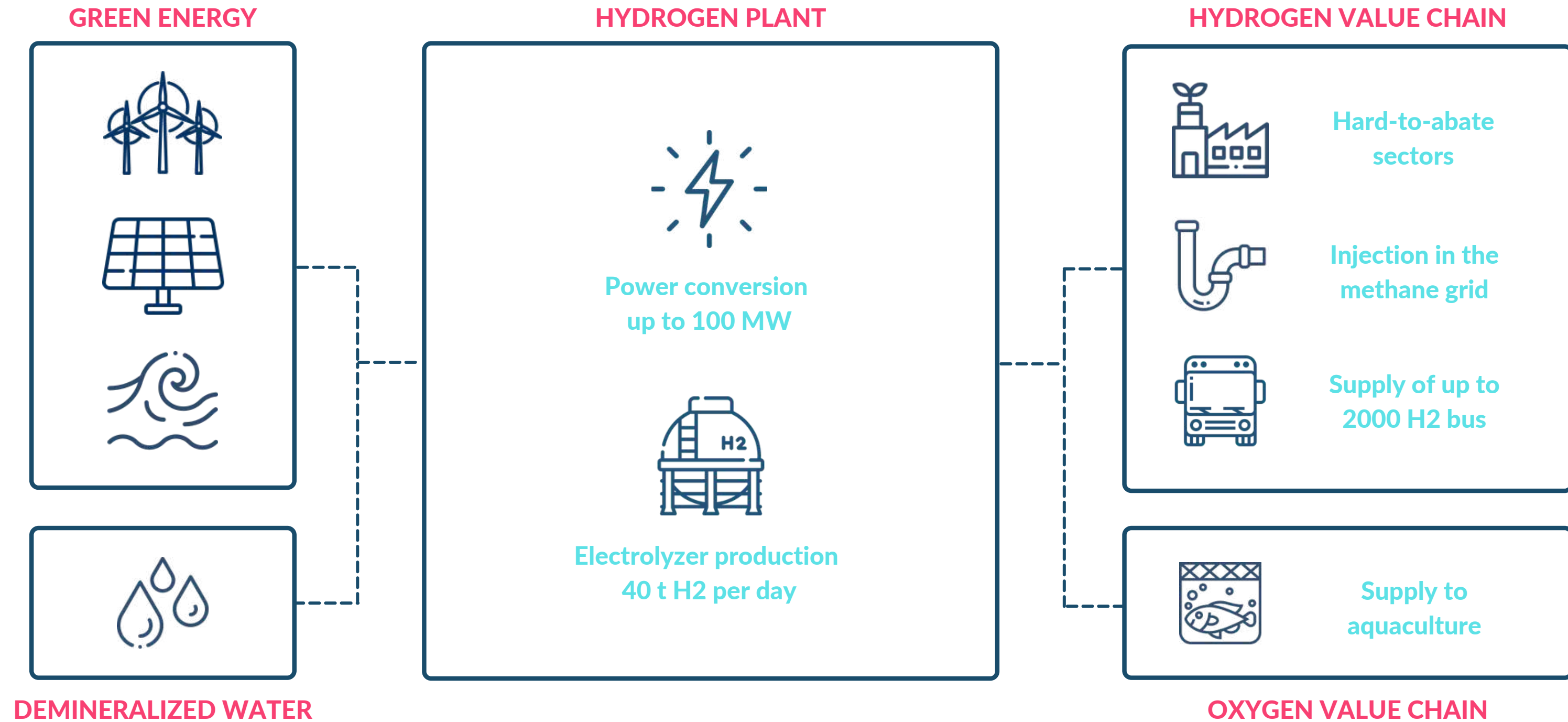
CO2 SAVED YEARLY

The Agnes project has the goal to produce green hydrogen, generated by the electrolysis process, from seawater and renewable energy from wind and solar power plants.

PEM (Polymer Electrolyte Membrane) will be installed:

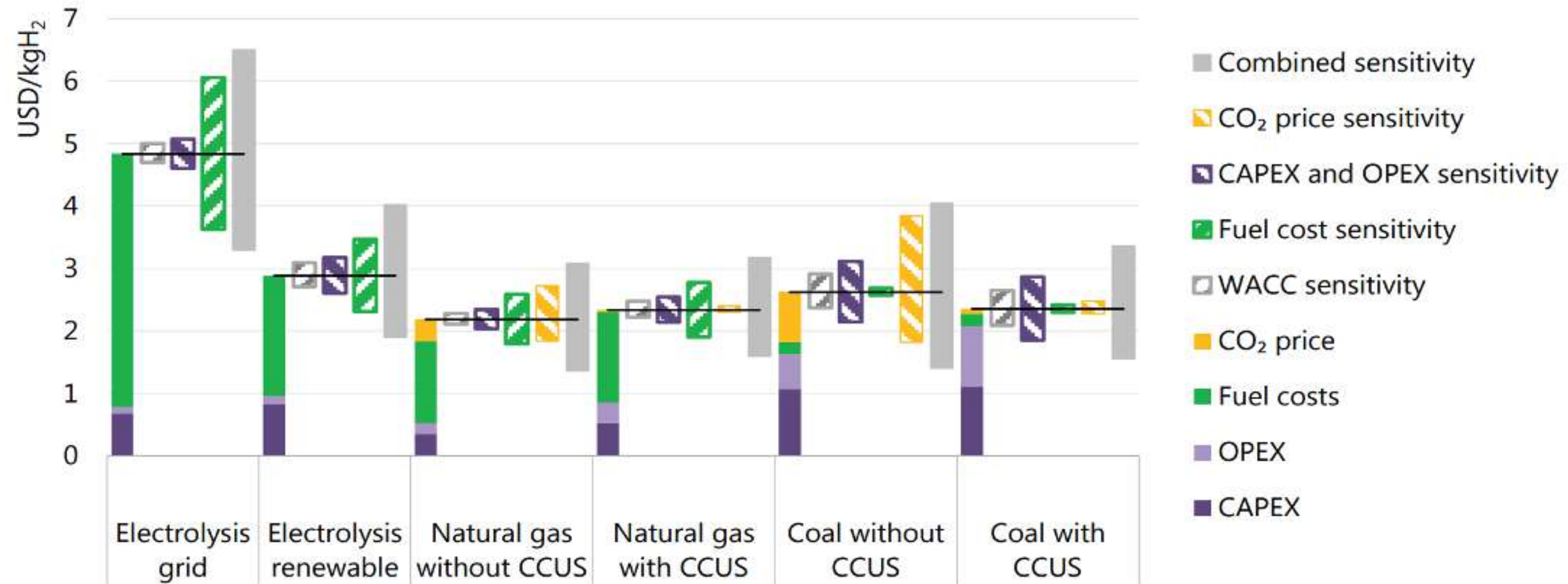
- up to 4 MW off-shore on an existing O&G platform;
- up to 100 MW on-shore in an area still in definition.

# AGNES GREEN HYDROGEN



# AGNES GREEN HYDROGEN

Figure 16. Hydrogen production costs for different technology options, 2030



Notes: WACC = weighted average cost of capital. Assumptions refer to Europe in 2030. Renewable electricity price = USD 40/MWh at 4 000 full load hours at best locations; sensitivity analysis based on +/-30% variation in CAPEX, OPEX and fuel costs; +/-3% change in default WACC of 8% and a variation in default CO<sub>2</sub> price of USD 40/tCO<sub>2</sub> to USD 0/tCO<sub>2</sub> and USD 100/tCO<sub>2</sub>. More information on the underlying assumptions is available at [www.iea.org/hydrogen2019](http://www.iea.org/hydrogen2019).

Source: IEA 2019. All rights reserved.

A large-scale offshore wind farm in the Adriatic Sea. The image shows a vast expanse of blue water under a clear sky, with numerous wind turbines scattered across the horizon. In the foreground, a single turbine is prominent, featuring a white tower with a yellow base and a nacelle with red and white accents. A small boat is visible in the distance, leaving a white wake on the water.

**THANK YOU  
FOR YOUR ATTENTION  
& LET'S KEEP IN TOUCH!**

**AGNES**

*The Adriatic Green Network of Energy Sources*

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