



Session 2 - Tools and Technologies for Resilient Energy Communities

RENEWPORT TOOLKIT

RENEWPORT Project

*PABLO PALOMO
FUNDACION VALENCIAPORT*



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WHO WE ARE

Fundación Valenciaport is a centre for Applied Research, Innovation, Training and International Cooperation serving the port-logistics cluster.

It is an initiative of the Port Authority of Valencia, bringing together key companies, universities and institutions in the port community.

Since its creation, it has developed projects in more than sixty countries, mainly in the Mediterranean, the rest of Europe, Asia and Latin America.



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WHAT WE DO

Innovation Technical
Social Responsibility R&D&I assistance
Training Market intelligence
Cooperation
Training Market intelligence

- Promoting **innovation**, by fostering the design, implementation and execution of **R&D&I projects** aimed at enhancing the competitiveness of companies and institutions in the sector.
- Knowledge management, offering specialized and high value-added **training** for the continuous professional development of the port-logistics community's human capital.
- Active **cooperation** policy with port communities **around the world** and support to Spanish logistics operators undergoing a **process of internationalization**. Internationally showcasing the Port of Valencia's know-how
- **Market intelligence** service to develop indexes, databases and reports of strategic interest to the sector.
- Support for the **port-logistics community**, encouraging cooperation within the sector as well as outreach initiatives and dialogue with the general public, within the framework of a collective **social responsibility** strategy.



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KNOWLEDGE AREAS



Market
intelligence



Port
logistics



Digital
transformation



Energy transition
& sustainability



Security &
protection



Blue
economy



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RENEWPORT

*Harnessing RENEWable energy potential for clean
energy transition of MED PORTs*



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RENEWPORT aims to tackle the challenge of climate change mitigation through the exploitation of renewable energy sources in MED ports.



Maritime transport

- is the most environmentally friendly way of transporting large quantities of goods

Ports

- are located near cities
- contribute to climate change by emitting CO₂

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RENEWPORT will support the clean energy transition of MED ports:

turning them from emitters of pollutants and greenhouse gases to clean energy hubs by exploiting the untapped potential of renewable energy sources.

POLICY MAKERS will be endowed with NEW SOLUTIONS supporting them to FIGHT CLIMATE CHANGE reaching energy goals and CARBON NEUTRALITY and citizens will benefit from CLEANER AIR.



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PROJECT NUMBERS

10 PARTNERS from Italy, France, Spain, Slovenia, Croatia, Montenegro, Albania and Greece:
Port Network Authority of the Eastern Adriatic Sea (LP) • Port Network Authority of the Northern Tyrrhenian Sea • Var Chamber of commerce and industry • Valenciaport Foundation for research, promotion and commercial studies of the Valencian Region • Valencia Port Authority • Luka Koper, port and logistic system, public limited company • Port of Rijeka Authority • Port of Bar JSC • Durres Port Authority • Piraeus Port Authority SA.

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Duration: January 2024 – September 2026

Project Budget: 2.995.300,00 €

EU funds: 2.396.240,00 €

Programme: Interreg Euro-MED

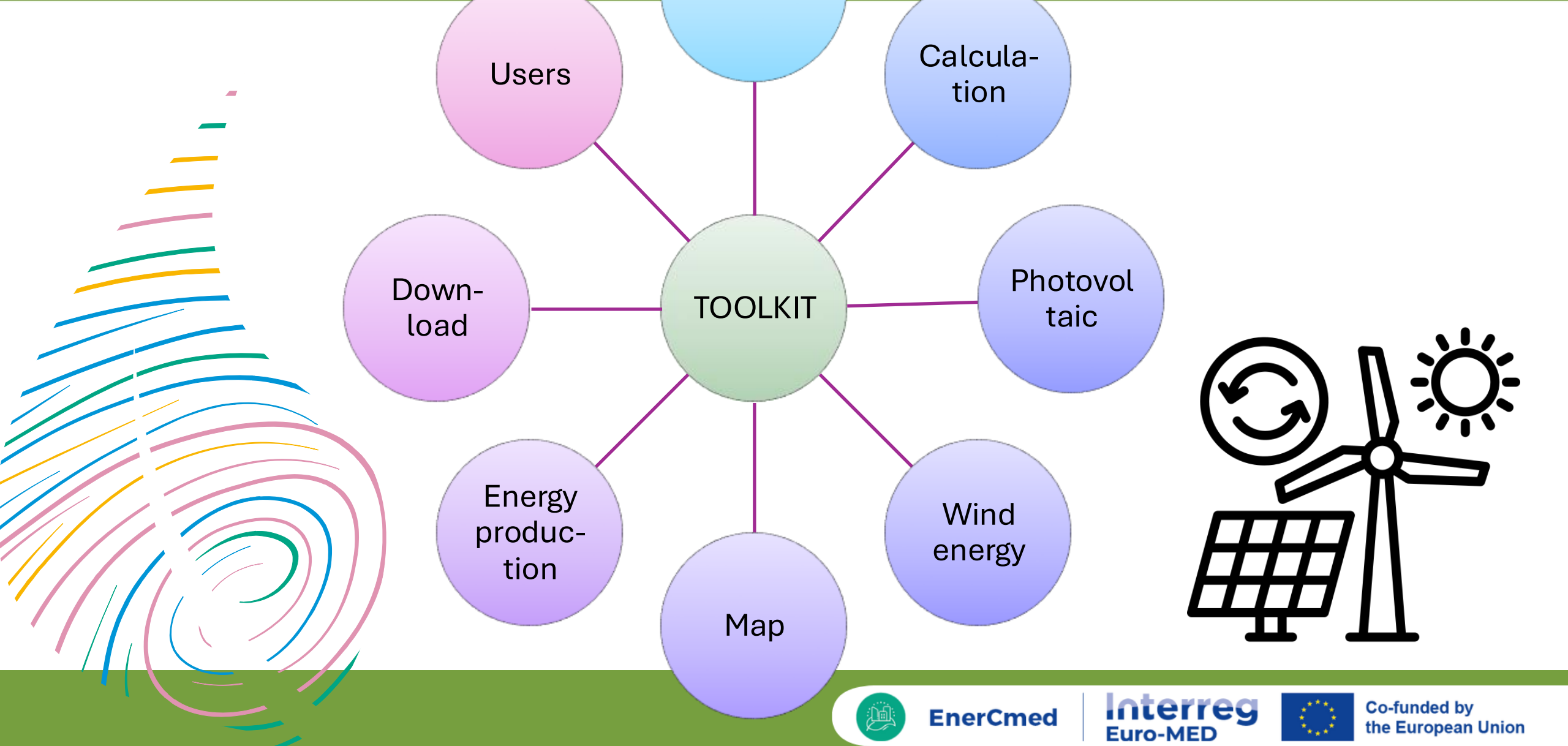


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RENEWABLE ENERGY
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LIST STUDIES

NEW STUDY

COMPARE

USERS

PORTS

PANELS

TURBINES

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HARNESSING RENEWABLE ENERGY
FOR CLEAN ENERGY TRANSITION

POTENTIAL FOR
PORTS

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STUDIES

REPORTS

ABOUT

With our powerful tool, you can easily create a new study to explore renewable energy solutions tailored to the specific needs of your port. Define parameters, simulate energy generation, and optimize your setup for maximum efficiency. Additionally, you can seamlessly retrieve and revisit past projects, allowing for continuous improvements and informed decision-making based on prior analyses.

Easily generate detailed reports for your current project, providing valuable insights into renewable energy solutions tailored to your port's needs. You can also compare two previous reports side by side to evaluate different energy scenarios and optimize your decision-making process with comprehensive data at your fingertips.

We are committed to transforming Mediterranean ports into sustainable energy hubs through innovative technology and strategic renewable energy solutions. Our mission is to empower port operators with tools that simplify the transition to cleaner energy sources, reduce carbon footprints, and enhance operational efficiency. With years of experience in the field, we combine deep industry knowledge with cutting-edge digital tools to drive the future of sustainable port management.

LOAD STUDIES

NEW STUDY

SHOW REPORT

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RENEWPORT

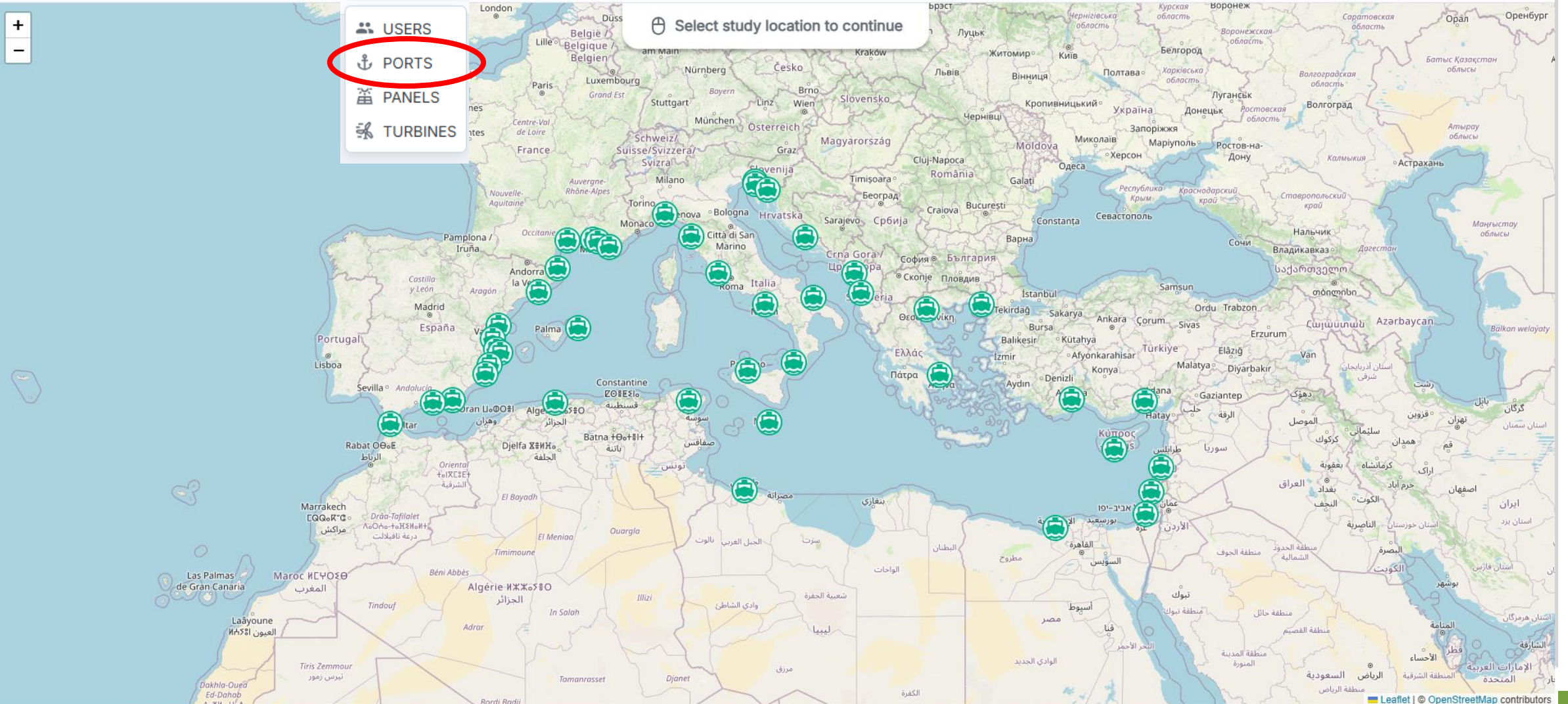
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Principe Felipe public

Add Photovoltaic

Add Wind Turbine

Principe Felipe



Yearly Solar Energy
2.204.647 kWh



Yearly Wind Energy
0 kWh



Yearly Total Energy
2.204.647 kWh

Show Report

Photovoltaic Installation

Installation name

Principe Felipe

Panel

Jinko JA Solar; JAM72S20-465/MR

Latitude

39°25'28"N

Longitude

0°19'10"W

Number of Panels

2990

Azimuth

3°

Inclination

37°

Solar Irradiance

1000.5 W/m²

Mean Operation Temperature

25 °C

Loss

1%



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Principe Felipe public



Add Photovoltaic



Add Wind Turbine



Principe Felipe



Yearly Solar Energy
2.204.647 kWh



Yearly Wind Energy
0 kWh



Yearly Total Energy
2.204.647 kWh

Show Report



Add Wind Installation

Installation name *

Martillo

Turbine *

Bonus B76-2000

Power Control System *

Pitch

Hub Height *

100 m

Design annual average wind speed

10,5 m/s

Number of Turbines *

1

Cancel

Save



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Data of Study

Name

Principe Felipe

Description

Post migration

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Total Energy Production



Yearly Solar Energy

2.204.647 kWh



Yearly Wind Energy

2.420.985 kWh



Yearly Total Energy

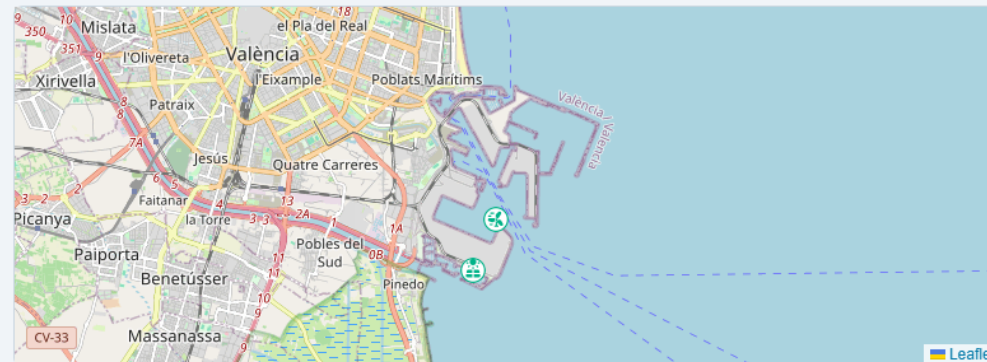
4.625.631 kWh

Download Report

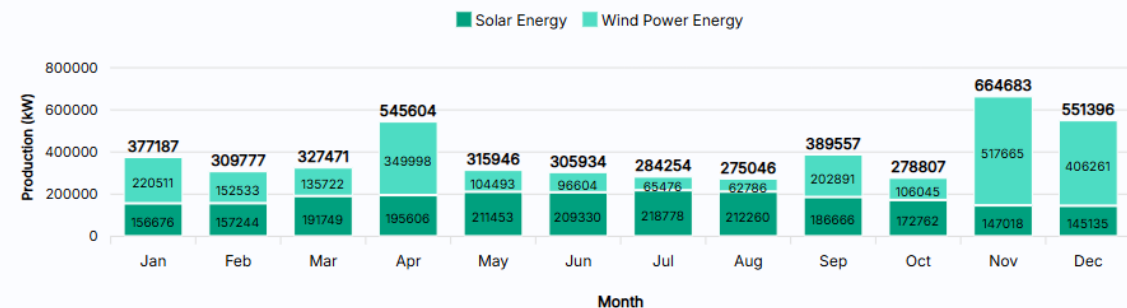
↓ XLSX

↓ JSON

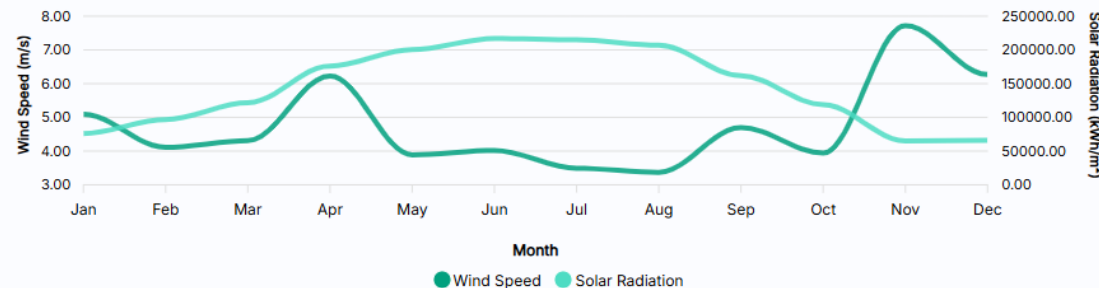
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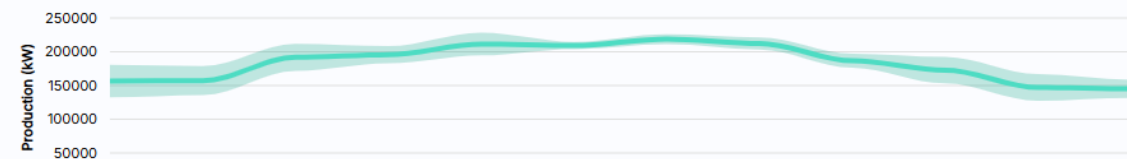
Monthly Wind and Solar Energy Production



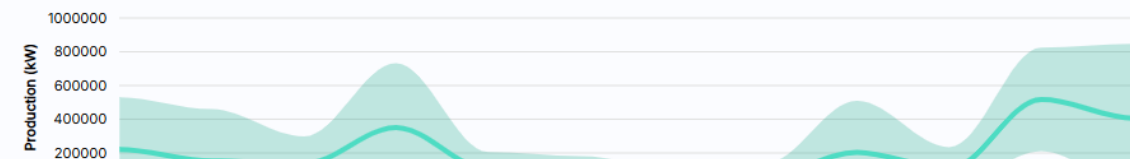
Monthly Wind Speed and Solar Radiation



Monthly Range Solar Energy Production



Monthly Range Wind Energy Production

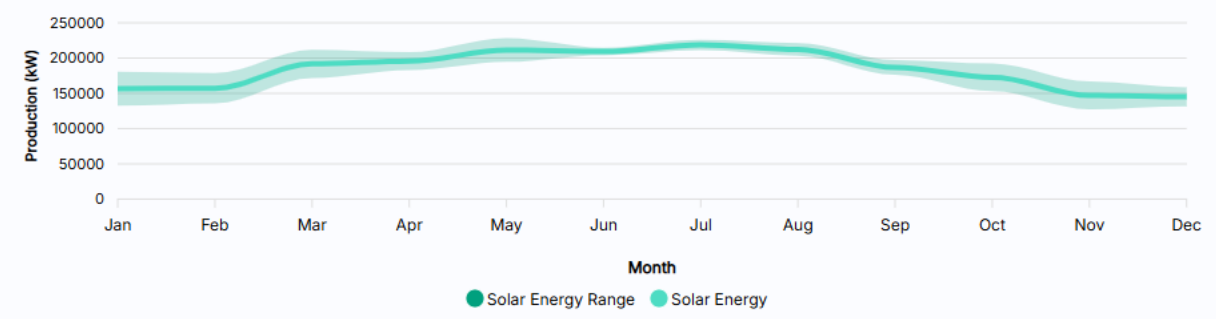


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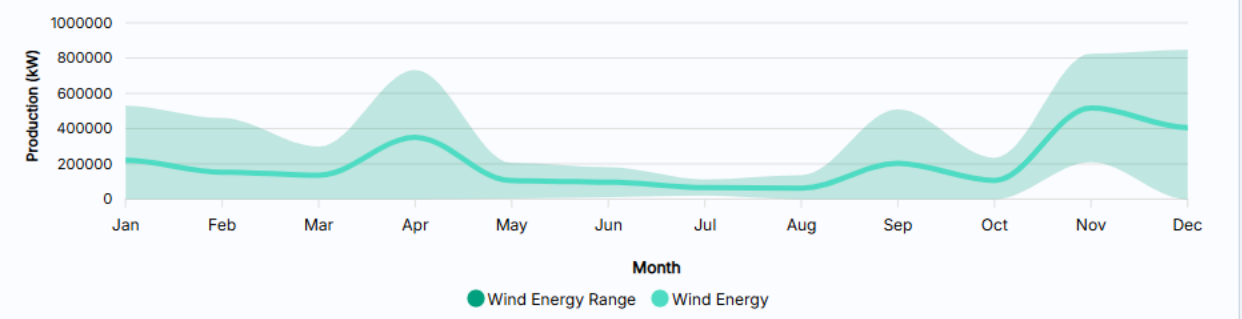


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Monthly Range Solar Energy Production



Monthly Range Wind Energy Production



Installations summary

Name	Type	Equipment	Quantity	Effective Surface	Yearly Production	Monthly Production
Principe Felipe	solar	Jinko JA Solar; JAM72S20-465/MR	2.990	5.574 m²	2.204.647 kWh	
Martillo	wind	Bonus B76-2000	1	174 m²	2.420.985 kWh	

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Study Comparison

Primary Study

Principe Felipe

Data of Study

Name

Principe Felipe

Description

Post migracion

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Total Energy Production



Yearly Solar Energy
2.204.647 kWh



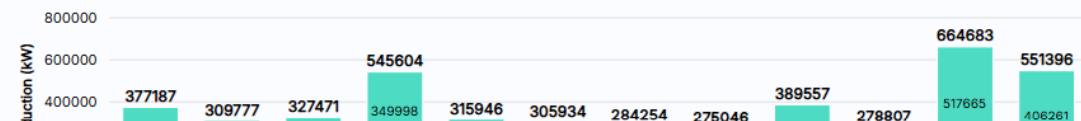
Yearly Wind Energy
2.420.985 kWh



Yearly Total Energy
4.625.631 kWh

Monthly Wind and Solar Energy Production

■ Solar Energy ■ Wind Power Energy



Secondary Study

PabloCS

Data of Study

Name

PabloCS

Description

Puerto de Castellon

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Total Energy Production



Yearly Solar Energy
899.271 kWh



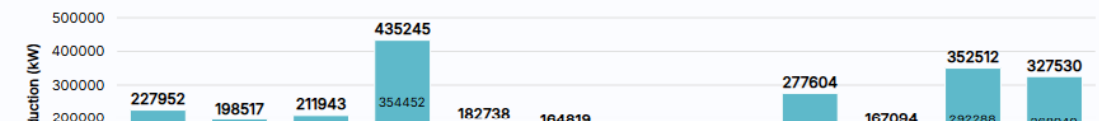
Yearly Wind Energy
1.922.855 kWh



Yearly Total Energy
2.822.125 kWh

Monthly Wind and Solar Energy Production

■ Solar Energy ■ Wind Power Energy



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Thank you

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