



Clean energy for EU islands webinar

Technical Assistance: **Results from the 1st round and details of the 2nd round** Marina Montero Carrero, Leandro Vaz, Gosia Matowska

Clean energy for EU islands
www.euislands.eu | info@euislands.eu

How to apply for the 2nd call for technical support

Results from 1st call

How to apply for the 2nd call for technical support

- Organisation of the call
- Application process
- Eligibility and assessment

Results from 1st call

How will the technical support be organised?

A total of 40 clean energy projects, over two calls:

April-May 2021

23 February 2022 until 23 March 2022

Support provided as 14 days of expert work

+€1000 travel budget for Islands forum 17-18 May

Assistance is classified as Explore, Shape or Act

Support packages are available

A methodology to encompass all EU islands



Explore

Drafting a strategy for the clean energy transition

- Engaging with stakeholders
- Defining energy and emissions baseline
- Establishing island vision



Shape

Building a pipeline of bankable energy projects

- Pre-feasibility study
- Feasibility study
- Risk assessment
- Business model development



Act

Developing projects for implementation on the ground

- Required partners for implementation
- Looking for financing

The support packages: inspiration and guidance

1. Roadmap on local stakeholder participation
2. Business models for clean energy projects
3. Review of existing practises for simple/hybrid energy systems
4. Road transport electrification
5. Clean Energy Transition Agenda
6. Solar carport project (Long Term Yield Assessment)
7. Dynamic maps for visualising live electricity production
8. Modelling of the island's energy system
9. Funding and financial support
10. Open application

How to apply for the 2nd call for technical support

- Organisation of the call
- Application process
- Eligibility and assessment

Results from 1st call

The application process in 3 steps

1.
Preparation

2.
Submission

Successful
applications



3.
Support definition

The application process in 3 steps

1. Preparation

Self-assessment

Guide for applicants

2. Submission

Write down application
and collect documents

Fill in online form

Successful
applications

3. Support definition

Meeting with
secretariat experts

Agreement on
scope of the assistance

Signature of
Support Agreement

How to apply for the 2nd call for technical support

- Organisation of the call
- Application process
- Eligibility and assessment

Results from 1st call

Eligibility criteria

Location

On an island belonging to a MS of the EU / Island MSs
Max area of 30,000 km²

Beneficiaries

Support of at least two stakeholders
One needs to be a public authority or civil society organisation

Timely submission

by 23 March 23:59 CEST

Duration

Agreed during the scope definition meeting
To be finished by December 2022

Eligibility criteria

Non-cumulative award

Projects should not be funded by another EU grant
Financing should be explained in application

Compliance with EU norms

Declaration of honour required, template available

Language

English is official language, but applications can be submitted in local language

Support in local language facilitated by regional partners

Absence of conflict of interest

Assessment criteria

Project

Impact and replicability

Organisational structure

Stakeholders' engagement

Alignment with Secretariat's objectives

Geographical diversity

Development diversity

How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

Local Stakeholder participation

Pantelleria, Italy



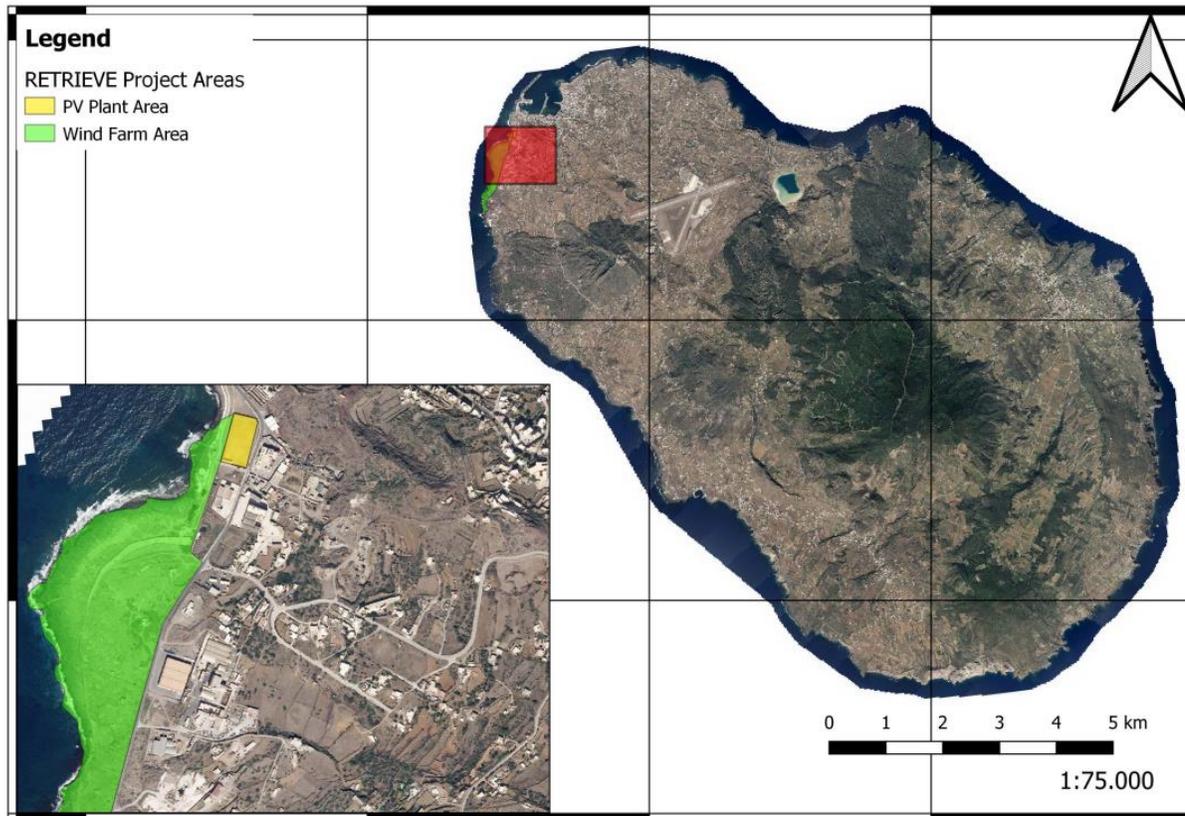
Largest non-interconnected island in Italy (84.5 km²)

Sicily region

7665 residents

Local Stakeholder participation

Pantelleria, Italy

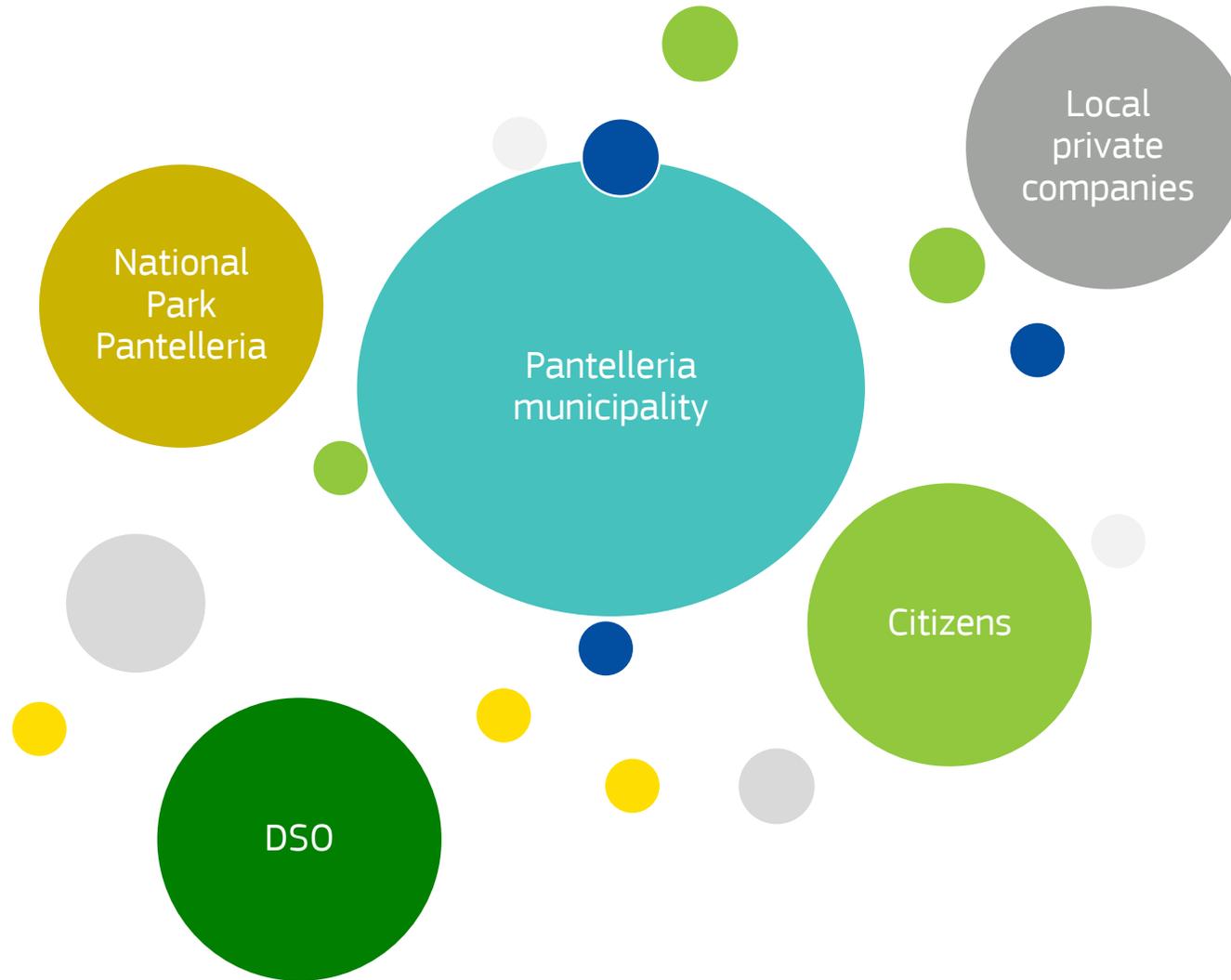


Industrial area – prior wasteland area

Wind farm: 1.125 MW
PV: ~730 kWp

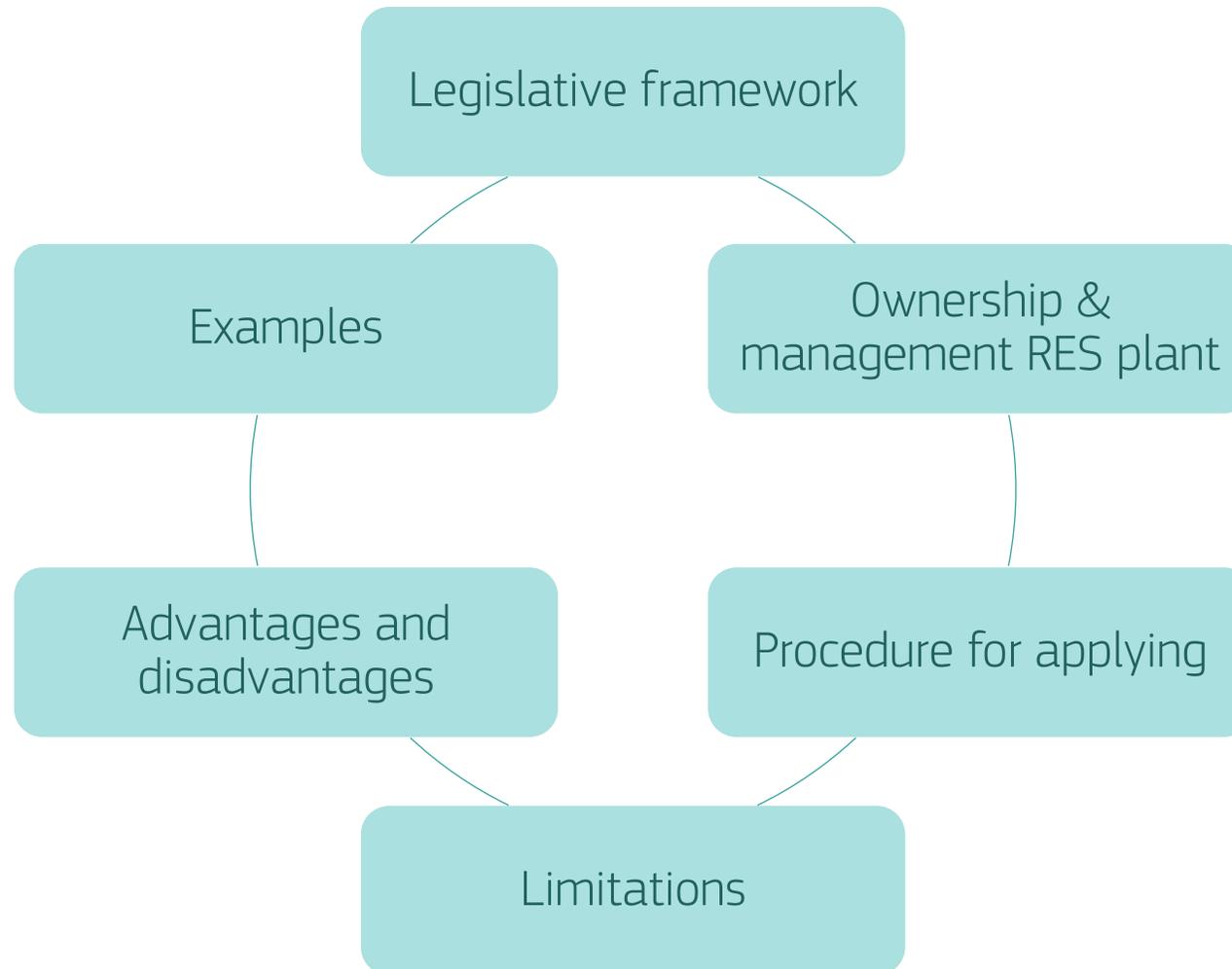
Local Stakeholder participation

Pantelleria, Italy



Roadmap for stakeholder involvement

Pantelleria, Italy



How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

La Réunion

EU Outermost region – French territory

Located in the western Indian Ocean

Mascarene archipelago (172 km SW of Mauritius and 679 km SE of Madagascar)

861 210 inhabitants (2019)

Located in the tropical cyclone formation basin

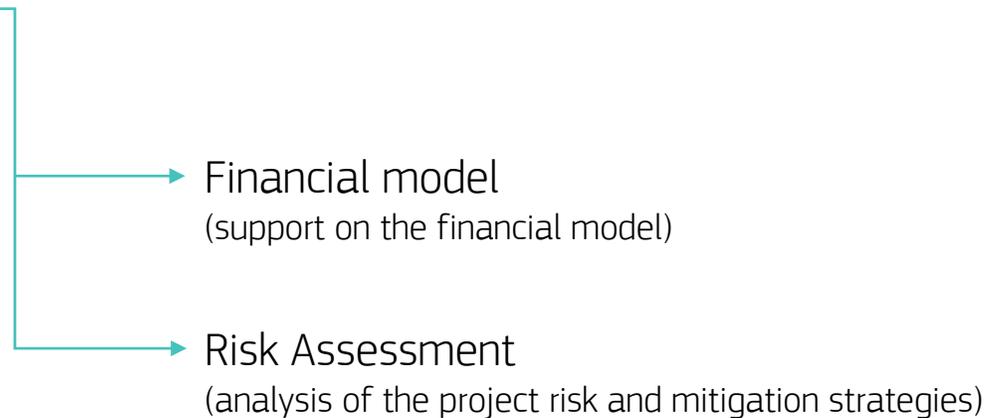


La Réunion

Install a 2MW wave energy farm on the southern area of La Réunion island

Support required:

Financial and legal/regulatory

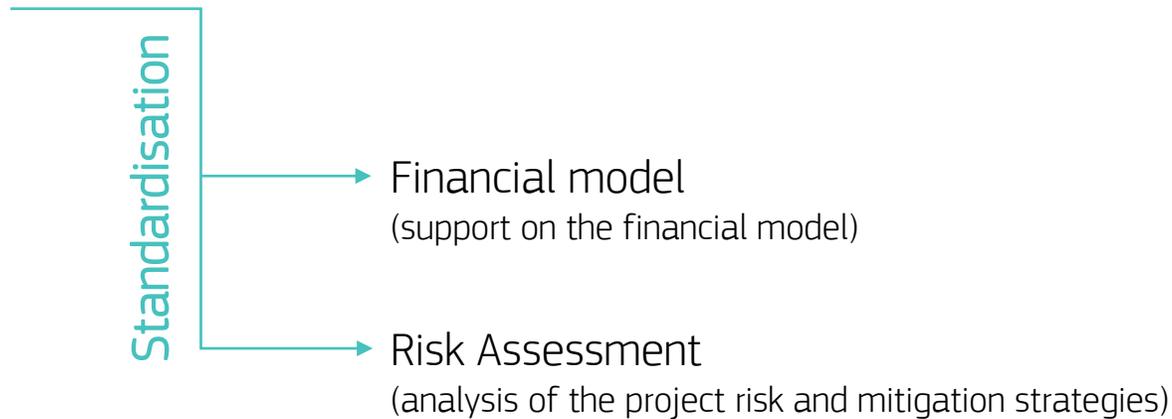


La Réunion

Install a 2MW wave energy farm on the southern area of La Réunion island

Support required:

Financial and legal/regulatory



Clean energy for EU islands

Cash-Flow	2021	2022	2023	2024	2025	2026	2027	2028
Volume of business	-	-	-	-	-	-	-	-
EBIDTA	-	-	-	-	-	-	-	-
EBIDTA margin	-	-	-	-	-	-	-	-
Amortizations	-	-	-	-	-	-	-	-
EBIT	-	-	-	-	-	-	-	-
EBT	-	-	-	-	-	-	-	-
Operating taxes	-	-	-	-	-	-	-	-
NOPLAT	-	-	-	-	-	-	-	-
Operating Cash-Flow	-	-	-	-	-	-	-	-
Working capital	-	-	-	-	-	-	-	-
CAPEX	-	-	-	-	-	-	-	-
Final Operating Cash-Flow	-	-	-	-	-	-	-	-

La Réunion

Install a 2MW wave energy farm on the southern area of La Réunion island

Support required:

Financial and legal/regulatory

Standardisation

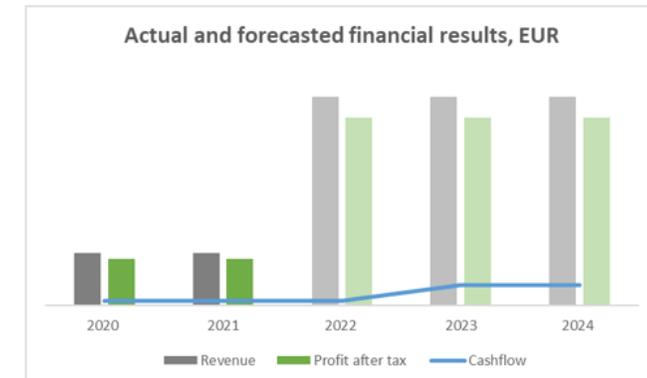
- Financial model
(support on the financial model)
- Risk Assessment
(analysis of the project risk and mitigation strategies)

Financial data for company representation template

please note that this sheet updates automatically after the data is added to the other sheets (yellow cells)

Company:	Company XYZ Ltd
Year ended:	2020 to 2024
Currency:	EUR

Key financial metrics	2020	2021	2022	2023	2024
Revenue	-	-	-	-	-
Gross profit	-	-	-	-	-
Earnings before interest, tax and amortization (EBITDA)	-	-	-	-	-
Profit after tax	-	-	-	-	-
Assets	-	-	-	-	-
Liabilities	-	-	-	-	-
Cashflow	-	-	-	-	-



La Réunion

Install a 2MW wave energy farm on the southern area of La Réunion island

Support required:

Financial and legal/regulatory

Standardisation

- Financial model
(support on the financial model)
- Risk Assessment
(analysis of the project risk and mitigation strategies)

Clean energy for EU islands

This risk is related to the project promoting entity

KPI	Result	Points
Liquidity		
Current Ratio	#DIV/0!	#DIV/0!
Quick Ratio	#DIV/0!	#DIV/0!
Comparison	#DIV/0!	#DIV/0!
Solvency		
Solvency Ratio	#DIV/0!	#DIV/0!
Profitability		
Net Profit Margit	#DIV/0!	#DIV/0!
Commercial Profitability	#DIV/0!	#DIV/0!
Repayment Capacity Ratio	#DIV/0!	*
Supply chain ratios		
Working Capital	0	4
Days of Receivables	#DIV/0!	+
Days of Payables	#DIV/0!	#
Total Score		
	#DIV/0!	
	#DIV/0!	

Documentation	Y/N
Balance sheet (last 3 years)	
Income statement (last 3 years)	
External credit rating report (if applicable)	

The Repayment Capacity Ratio analyses the time (in years) to pay off a long-term debt and interest with its current Self-Financing Capacity.
* If Repayment Capacity Ration in years is higher than the duration of Engineering, Procurement and Construction - 2 points; if not - 4 points

+ If this KPI is increasing through the time - 4 points; if this KPI is decreasing through the time - 2 points;
If this KPI is increasing through the time - 4 points; if this KPI is decreasing through the time - 2 points;

Porto Santo

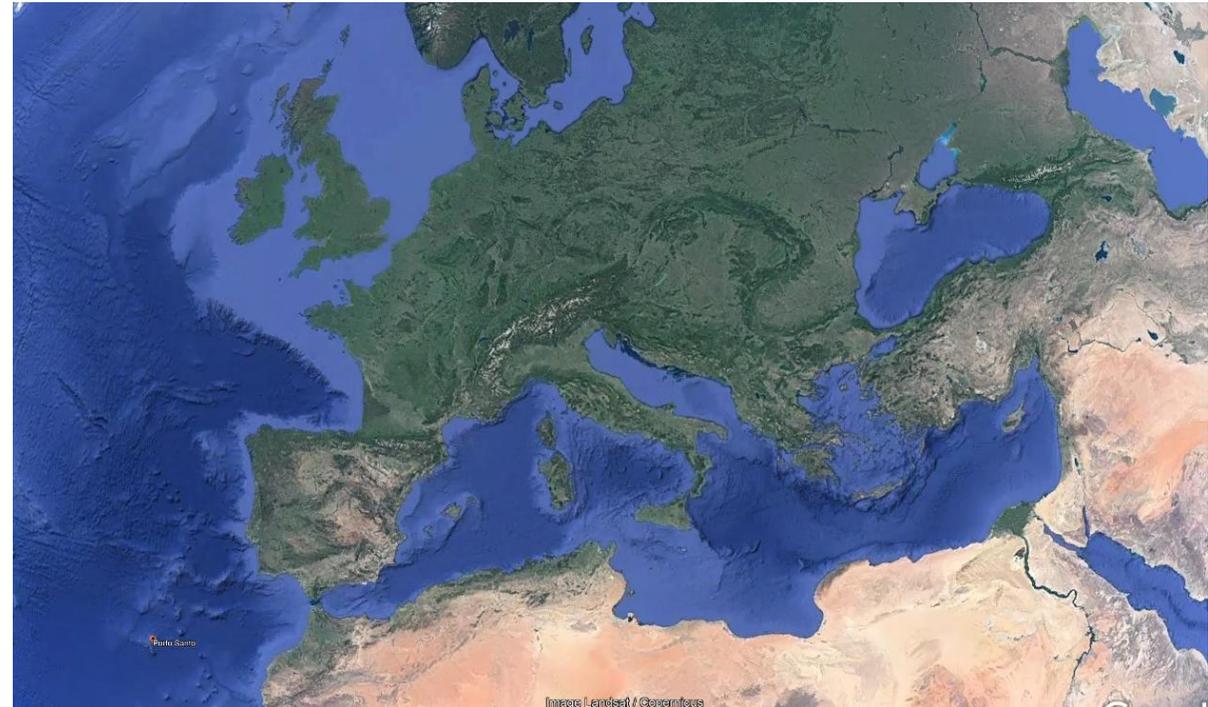
Island of Madeira Archipelago – Portugal

Located in the Atlantic Ocean, at the SW extremity of Europe

500 km from the African coast and 1000 km from continental Europe

5 151 inhabitants (2021)

Served by well-developed infrastructures



Porto Santo

Transform local residual biomass into clean hydrogen

Support required:



Porto Santo

Transform local residual biomass into clean hydrogen

Support required:

- Proper funding and financing opportunities
- Funding programme guidelines / action plan

- Identify a relevant funding programme
- Choose amongst the call for proposals
- Developing a project
- Identifying partners and stakeholders
- Communication, dissemination and exploitation
- Combining EU funds

How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

Road e-mobility implementation

Syros, Greece



Cyclades region of the Aegean Sea
Population: 21 507 residents

Energy

Interconnected in 2020 with mainland other islands
Existing energy generation on the island including
9% RES.

Mobility

Number of passengers and vehicles on the road
triple during summer season.
In the process of preparing a detailed study for
needed charging infrastructure and locations

Road e-mobility implementation

Syros, Greece

Overview of existing business models

With examples of other municipalities

Proposing business models for Syros

Implementation and possible supporting policies

Regulatory framework

With barriers and enablers given Syros' context

Detailed analysis of PV plant for virtual net-metering

Based on the **location** and on **number and type of chargers**

Regulatory steps for the implementation of the PV plant

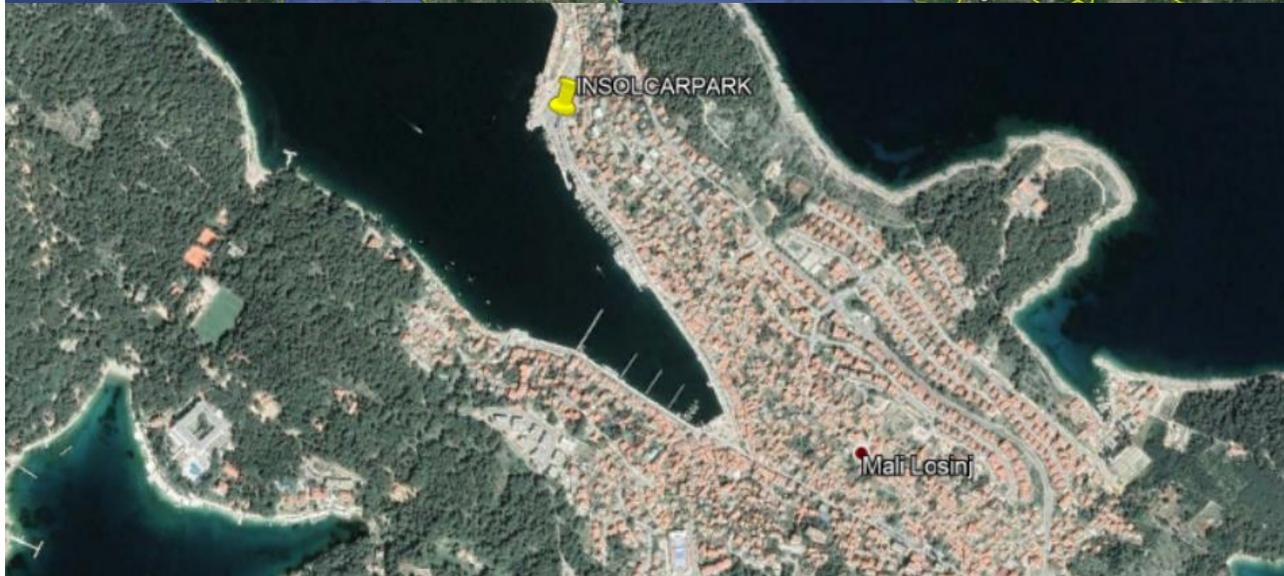
How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

Solar carport prefeasibility

Cres-Lošinj, Croatia

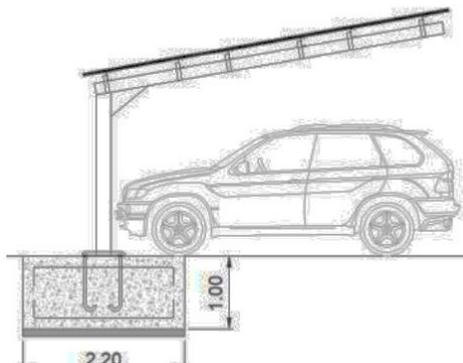
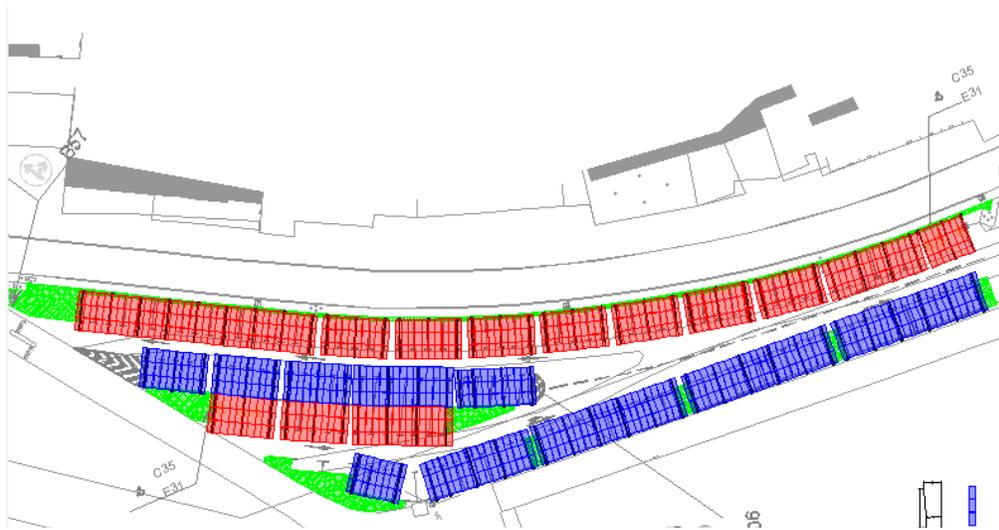


Located in the Kvarner Bay
(northern part of the Adriatic sea)

Permanent population: 10,995
Peak during the summer: 33,588

Solar carport prefeasibility

Cres-Lošinj, Croatia



Parking area in Mali-Lošinj was considered to place solar canopies with PV on them

We investigated:

- How to better place the canopies
- The expected production from the PV panels
- The expected capital and operational costs

Solar carport prefeasibility

Cres-Lošinj, Croatia



- The area allows for 942 PV modules
- Total capacity of 518 kWp
- Expected production of 680 MWh/year (P50)
- Expected CAPEX and OPEX calculated

How to apply for the 2nd call for technical support

Results from 1st call

- Local Stakeholder participation Pantelleria
- Funding and financing La Réunion, Porto Santo
- Transition to e-mobility Syros
- Carport pre-feasibility Cres-Lošinj
- Energy modelling scenarios Halki

Energy modelling scenarios

Halki, Greece



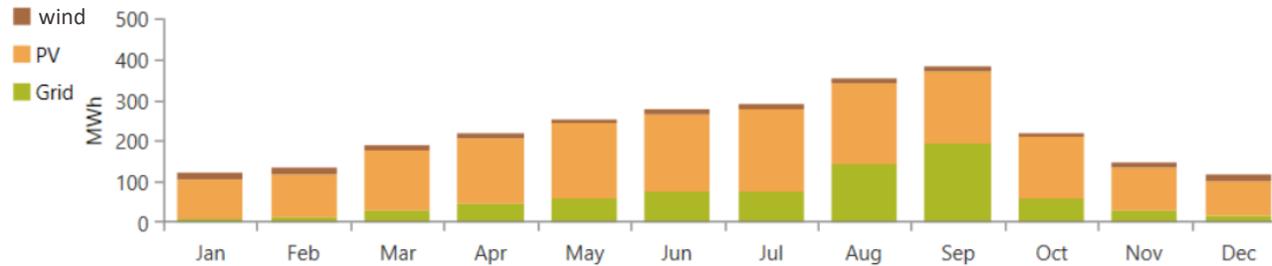
Located in Aegean sea, 9km West of Rhodes
Permanent population of ~500 inhabitants,
up to ~1100 in summer

1 MWp solar PV recently installed
Island investigating:

- Vertical axis wind turbines
- Battery storage
- Solar thermal for cooling

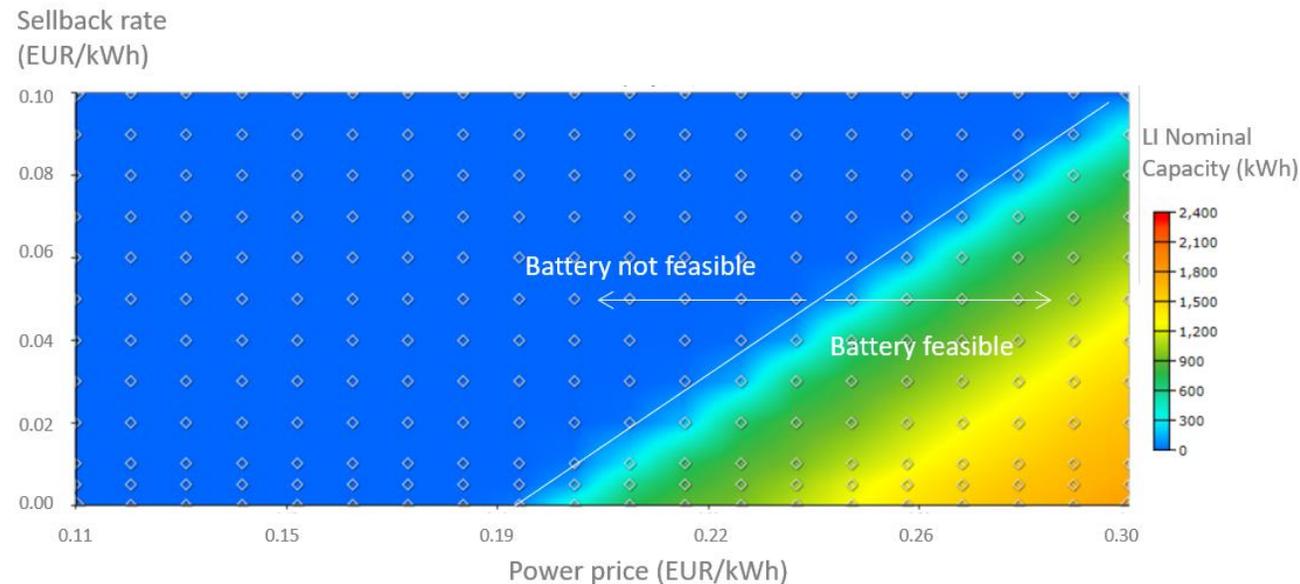
Energy modelling scenarios

Halki, Greece



Simulations to confirm:

- How much RES could cover the island demand
- The conditions under which the technologies are viable





Thank you!

Clean energy for EU islands webinar

The Clean energy for EU islands secretariat
Technical Assistance

Clean energy for EU islands
www.euislands.eu | info@euislands.eu