



October 27-30, 2020

DIGITAL EVENT



Horizon 2020
European Union funding
for Research & Innovation

Energy Transition on European Islands

Chaired by



**From innovation to implementation:
how to make the energy transition on islands a reality?**

13:10 SESSION 1. THE CLEAN ENERGY ISLANDS INITIATIVE



- A few words about the Clean Energy Islands initiative
- The EU Islands Facility - NESOI

Sophie Dourlens-Quaranta, R2M Solution

13:30 SESSION 2. SELECTED TOPICS ADDRESSED BY ONGOING RESEARCH & INNOVATION PROJECTS



- PV and BESS integration on islands - The **INSULAE** project

Stefano Barberis, RINA Consulting



- Storage concepts and interoperability - The **GIFT** project

Sašo Brus, INEA



- Utilisation of local renewable resources - The **ROBINSON** project

Ugo Simeoni, European Turbine Network



- Sustainable mobility on islands - The **SMILE** project

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- Citizen engagement - The **REACT** project

Thomas Messerve, R2M Solution and Andrew Barney, Uppsala University

14:30 SESSION 3. ROUNDTABLE DISCUSSION

- Theme 1: How to engage islanders in the energy transition?
- Theme 2: How to stimulate islands' long-term energy strategy?

A few words about the Clean Energy Islands initiative

- **Part of the 'Clean energy for all Europeans' package**

“Many of Europe’s 2400 islands are small isolated systems and small markets. However these islands, where 15 million Europeans live, have the potential to be frontrunners in the clean energy transition by adopting new technologies and implementing innovative solutions”

- **Launched in 2017:** the European Commission and 14 EU countries (Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Malta, Portugal, Spain, and Sweden) signed a political declaration
- **Reinforced in June 2020** with the signature of a Memorandum of Understanding (MoU) to support cooperation to identify common solutions and best practices helping islands facing common challenges

**15 million
Europeans live
on Europe's
2400 islands.**



The initiative provides a long term framework to help islands generate their own sustainable, low-cost energy. Its aims are:

- *Reduced energy costs*
- *Greatly increased production of renewable energy*
 - *Construction of energy storage facilities*
 - *Development of demand response systems*
- *Better energy security for islands, which will be less reliant on imports*
- *Improved air quality, lower CO₂ emissions, and less impact on environment*
 - *Creation of new jobs and business opportunities*



A few words about the Clean Energy Islands initiative

Three instruments:



New Energy Solutions Optimised for Islands



Clean energy for EU islands secretariat

To facilitate the clean energy transition, the Commission launched in 2018 the '[Clean energy for EU islands secretariat](#)', which offers support and assistance on project preparation to Europe's islands communities

Clean energy for EU islands forums

The [forums](#) are regularly organised since 2017. They provide EU islands and other EU initiatives the opportunity to share best practices and showcase innovative projects in the areas of renewable energy, energy efficiency and research and innovation

The European Islands Facility – NESOI

NESOI aims to fund 60 successful energy transition projects, mobilising more than €100 million of investment by 2023.

New Energy Solutions Optimised for Islands



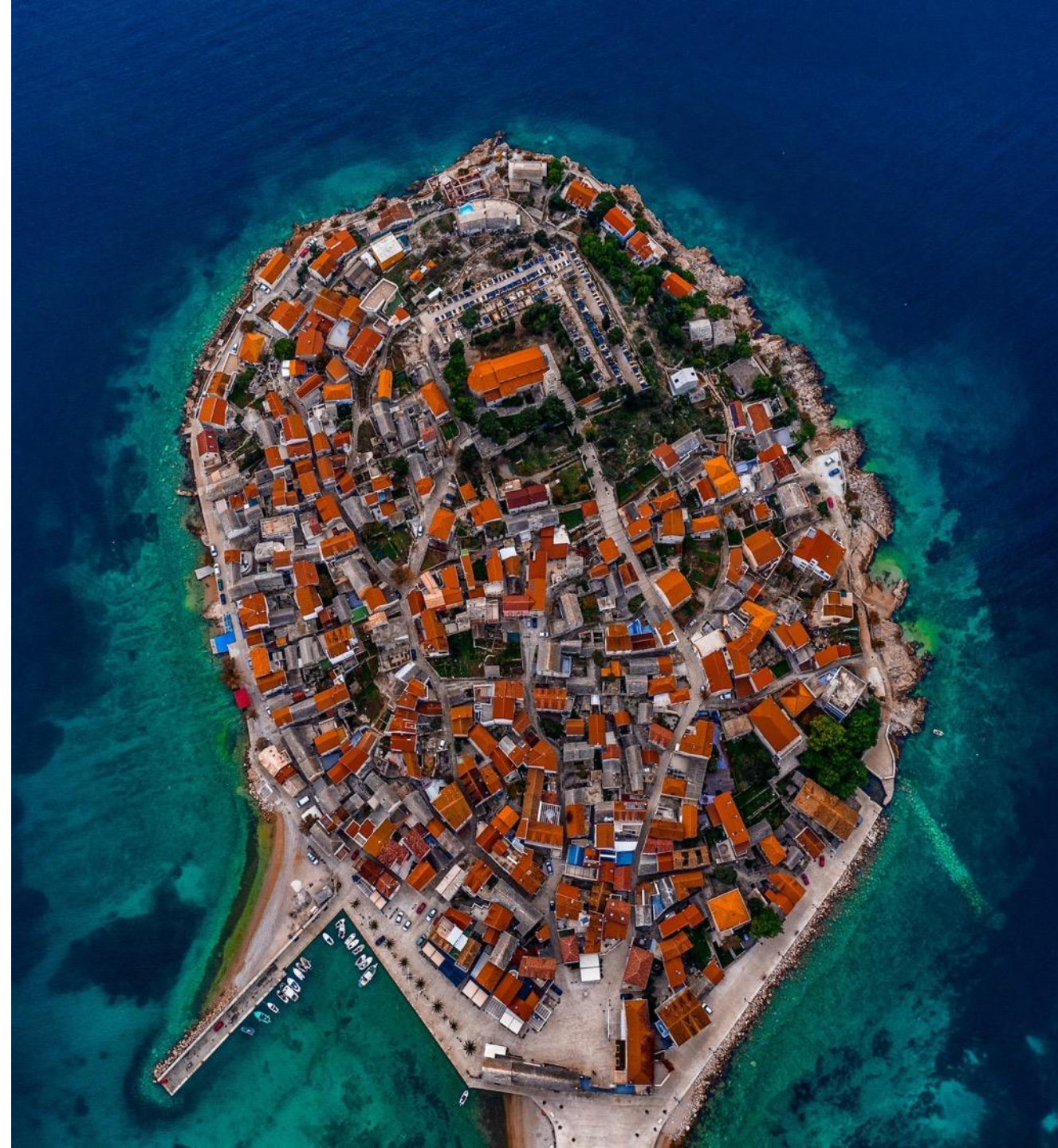
EUROPEAN ISLANDS FACILITY

Sophie Dourlens-Quaranta - R2M Solution

Sustainable Places 2020 - Islands Workshop



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 864266



THE *RAISON D'ÊTRE* OF NESOI:

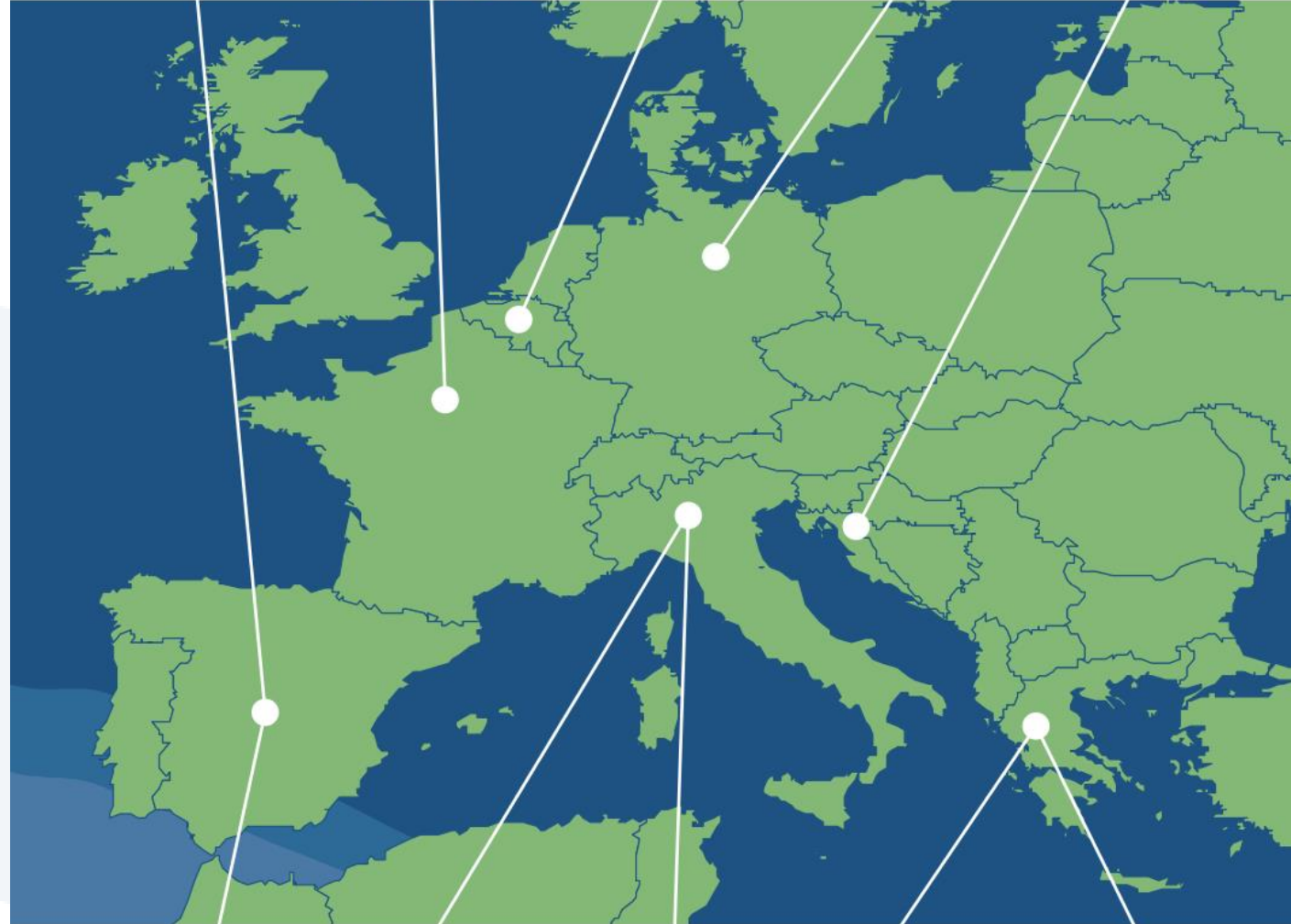
THE CHALLENGE FOR ISLANDS

Despite tremendous potential, too few islands in Europe succeed in developing and scaling up investment in energy transition projects. Indeed, a high degree of organisational, technical and financial innovation is needed to reach significant scale.

A key challenge for local authorities on islands is to transform their overall long-term ambitions into a credible set of plans and project outlines as many do not have the expertise to concretely launch investments, access finance and kick-start their projects.

The European Islands Facility NESOI aims at filling this gap through a hands-on approach allowing local authorities to get the necessary technical financial capacity towards the effective implementation of islands' energy transition plans.

The Consortium



GOALS

1

Promote investments
for energy transition in
the islands

2

Facilitate the
decentralization of
energy systems

3

Contribute to EU
policies and achieving
2030 climate targets

EXPECTED RESULTS

€100 mln
of investments
activated

440 GWh
primary energy savings
per year

160.000 kt CO₂
of GHG avoided per
year

EU level



Needs mapping through **surveys**



Creation of a **platform for exchange of best practices** and communication and dissemination activities



Coaching and **capacity building** for local entities

Islands level



€3.1 million to be allocated to Local Authorities to finance technical assistance activities (max. grant €60k)



Complementary offer of **on-site technical assistance** and fund matching by the Consortium (worth €60k)

Steps of the implementation process

1. Call for proposals

- Local entity participation
- Selection of beneficiaries



2. Technical assistance

- Provision of financial resources and technical support



3. Implementation

- Carrying out of planning and project implementation
- Activate additional investment



NESOI' initial survey about islands' needs

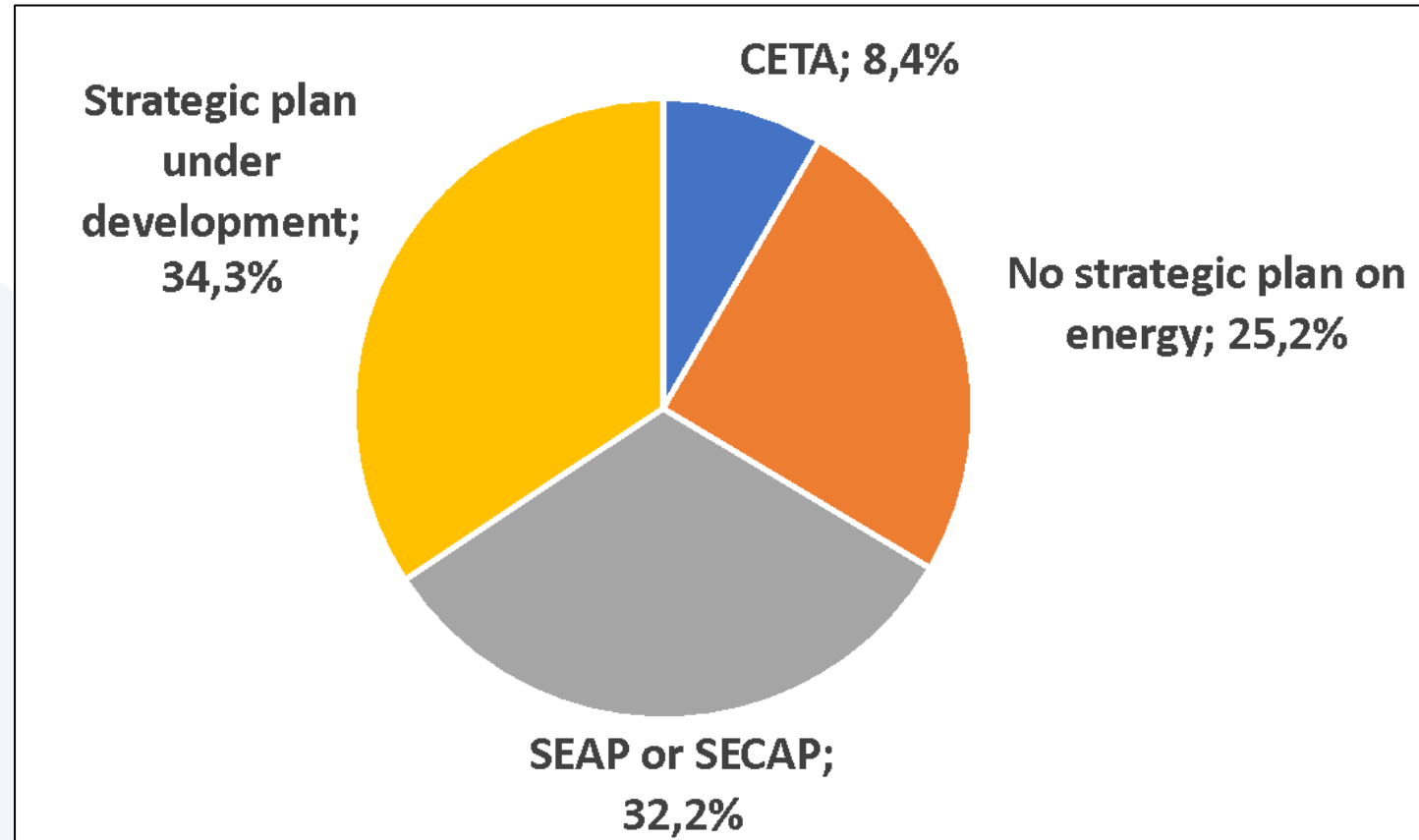
	Greece	Spain	Croatia	Italy	France	Portugal	Denmark	UK	Ireland	Germany	Cyprus	Finland	Malta	Estonia	TOTAL
Number of respondents to SECTION 1	46	21	19	11	9	5	4	4	2	2	2	1	1	1	128
Number of islands concerned	47	11	15	8	10	2	3	3	2	2	1	1	1	1	107
Number of projects listed in SECTION 2	149	23	11	21	13	3		11		3		1			235

NESOI' initial survey about islands' needs



40% of the involved islands have a strategic plan on energy

60% do not



(SEAP) Sustainable Energy Action Plan, (SECAP) Sustainable Energy and Climate Action Plan (CETA) Clean Energy Transition Agenda

Call for proposals

1/

CALL 1
OCTOBER 2020
3,1 mln €
30 beneficiaries

**TECHNICAL
ASSISTANCE
ACTIVITIES**
April 2021-
April 2022

**PROJECT ACTIVATION
AND IMPACTS**



2/

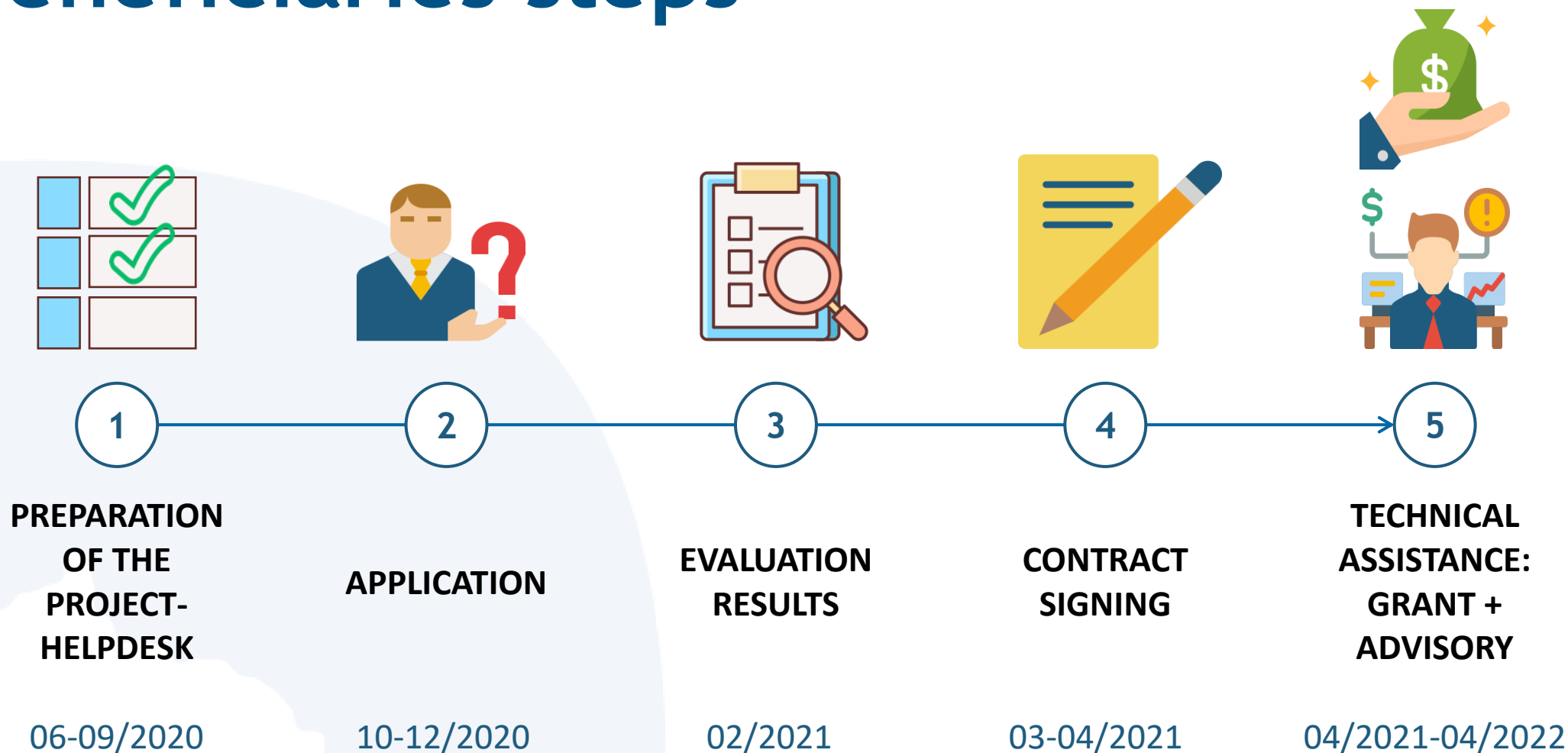
CALL 2
OCTOBER 2021
3,1 mln €
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**TECHNICAL
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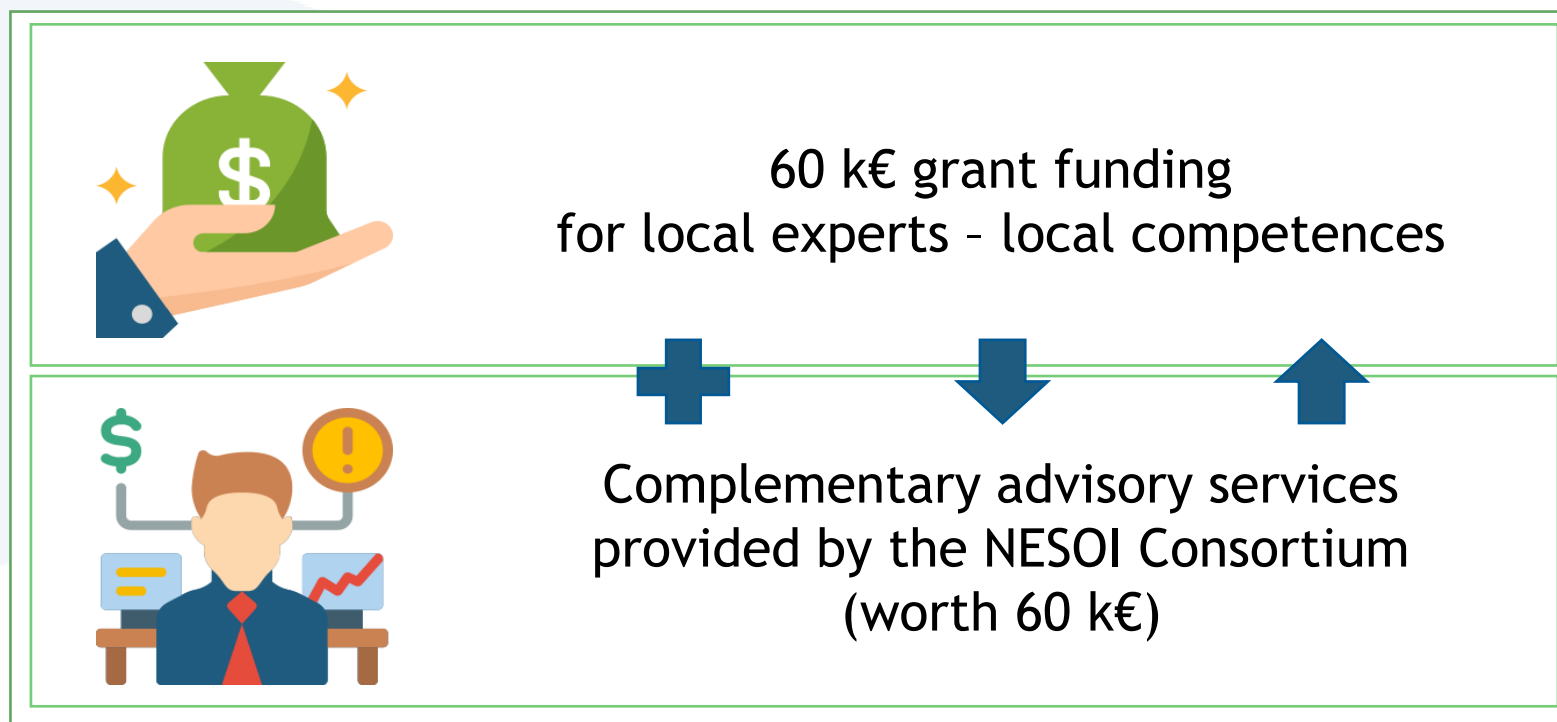


Beneficiaries steps



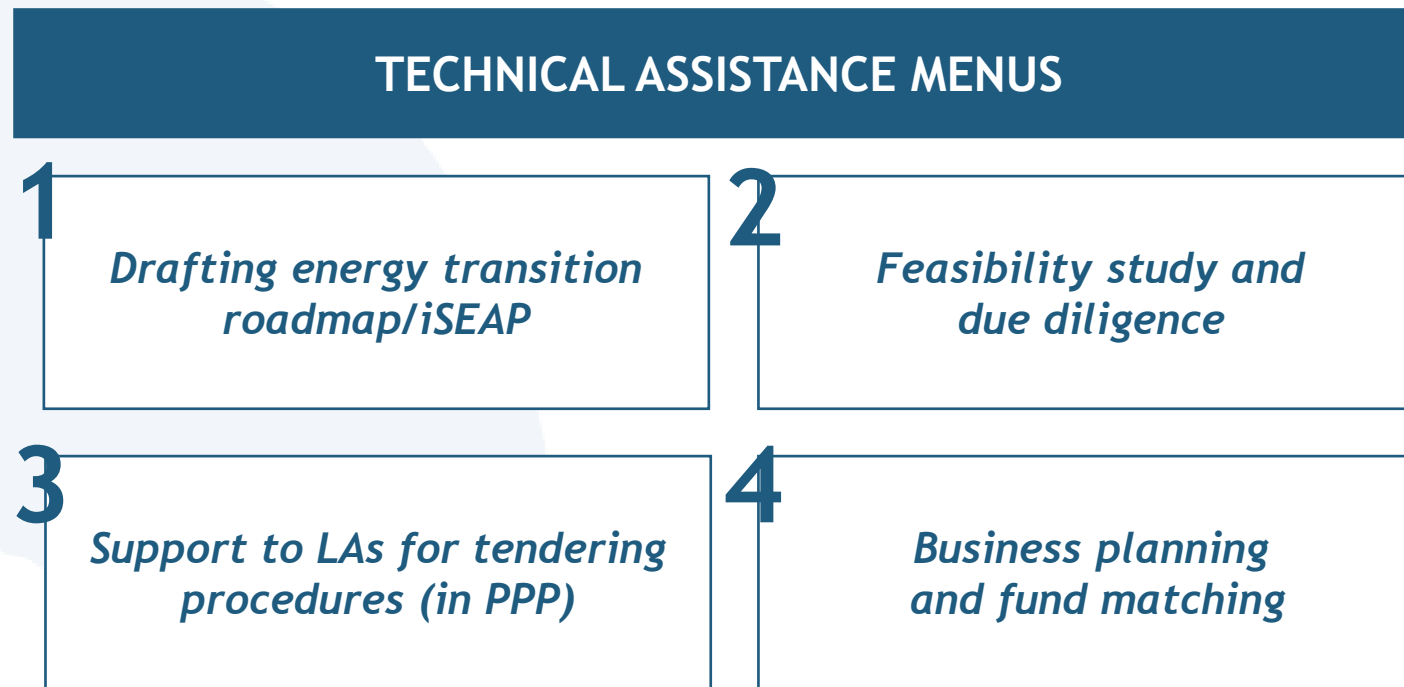
Technical Assistance

TA activities funded by grant and advisory services provided by the Consortium will always be **combined and deployed** together (input-output)



NESOI support

NESOI has defined Technical Assistance menus: each candidate can apply for one of them, each menu combining grant funded activities and advisory services



NESOI support

Each menu has specific objectives and the needed background information is different based on the status of the project

	TECHNICAL ASSISTANCE MENU	OBJECTIVE	BACKGROUND NEEDS/INFORMATION
PLAN	<i>Drafting energy transition roadmap/iSEAP</i>	Define a roadmap for energy transition, projects and indicators	Engagement and commitment
PROJECTS	<i>Feasibility study and due diligence</i>	Analyse the sustainability of projects	Relevant but incomplete documentation
	<i>Support to LAs for tendering procedures</i>	Launch tenders and contracts for project deployment	Design and feasibility study completed
	<i>Business planning and fund matching</i>	Support the access to financing opportunities	Detailed documentation (tech, legal, ecofin)

When are applications expected?

Opening

12 October 2020

Deadline

18 December 2020 17:00:00 Brussels time



Which types of projects does NESOI support?

Sustainable energy-related projects

- ✓ Production of energy from **renewable sources**
- ✓ **Energy efficiency** interventions on public assets (buildings, public lighting systems, etc.)
- ✓ Energy efficiency interventions on private assets (buildings, industries, etc.)
- ✓ Realization/Improvement of **energy storage** systems
- ✓ Improvement of the existing **electricity grid**
- ✓ Realization/improvement of **District Heating and Cooling networks**
- ✓ Energy-related food, waste and water management actions
- ✓ Implementation of **sustainable mobility solutions**
- ✓ Improvement of **energy monitoring and management** at island or island cluster level
- ✓ **Energy auditing and analysis**, energy planning at island or island cluster level
- ✓ And many others

Who can apply to receive NESOI support?

One or more legal entities (i.e. consortium)

Legal entities established in the Member States (MS) of the European Union (EU) and UK, including their outermost regions, but excluding OCT

Note: private companies in any legal form, provided that they have a support letter from relevant public authority

How to seek support in case of questions?

Guidelines of Applicants

Helpdesk

FAQ (Frequently Asked Questions)



New Energy Solutions Optimised for Islands

NESOI

EUROPEAN ISLANDS FACILITY

Thank you!

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Website: www.nesoi.eu

Twitter: [@nesoi_energy](https://twitter.com/nesoi_energy)

Instagram: [@nesoi_energy](https://www.instagram.com/nesoi_energy)

LinkedIn: NESOI - New Energy Solutions
Optimised for Islands



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Before moving to session 2, let's make a poll!

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Thanks for your participation!