

CLEAN ENERGY
FOR EU ISLANDS



DAFNI
Network of Sustainable Greek Islands

DAFNI – Network of Sustainable Greek Islands is a public interest non-profit organization of the island local and regional authorities in Greece.

It promotes sustainable development in Greek islands through the delivery of integrated actions in the fields of energy, water, waste and transport / mobility enabling the transition to a circular and sector-coupled local economy boosted by touristic activities.

52 Island municipalities

4 Regional authorities



Services

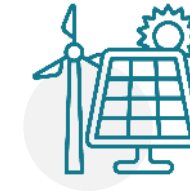
- ✈ Strategic planning
- ✈ Implementation of infrastructure projects
- ✈ Maturation of projects
- ✈ Technical studies at all stages
- ✈ Support in tendering processes
- ✈ Support during licensing and consultation procedures
- ✈ Joint-procurement and tendering
- ✈ Fund-raising
- ✈ Capacity building and trainings
- ✈ Policy making
- ✈ Advocacy



Buildings & Public
Space



Water
Management



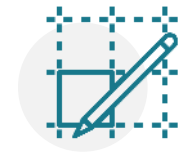
Clean Energy &
Sustainable Mobility



Waste Management &
Circular Economy



Sustainable
Tourism



GIS &
Spatial Planning



**Technological and social
innovation
EU funded projects**

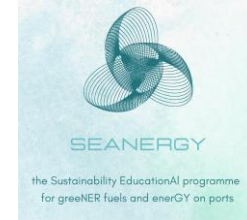




Multiple Use of Space for
Island Clean Autonomy



Deployment of H2 Ecosystem
on the island of Mallorca



Transforming ports into
clean energy hubs



Accelerating the
decarbonization of islands
energy systems



Maximizing the impact of
innovative energy approaches
in the EU islands





Citizens acting on Mitigation Pathways through Active Implementation of a goal-setting network



RE-EMPOWERED
Renewable Energy EMPOWERing
European & InDIan Communities

Renewable Energy Empowering European & Indian Communities



dialogues

Energy citizenship for a sustainable future



circulargreece
no time to waste

Circular Economy
Implementation in Greece

y e n e s i s

Youth Employment Network for
Energy Sustainability in Islands



Lighthouse smart island projects





VOLKSWAGEN
AKTIENGESELLSCHAFT



SIEMENS The project is funded by Siemens in the framework of the Settlement Agreement between the Hellenic Republic and Siemens.








CLEAN ENERGY FOR EU ISLANDS

“An EU initiative that provides a long-term framework to help EU islands generate their own sustainable, low-cost energy.”



Expected results

-  Reduced energy costs and greatly increased production of renewable energy
-  Construction of energy storage facilities and demand response systems, using the latest technologies
-  Better energy security for islands, which will be less reliant on imports
-  Improved air quality, lower greenhouse gas emissions, and less impact on islands' natural environments
-  The creation of new jobs and business opportunities, boosting islands' economic self-sufficiency





How it all started



May 2017

The European Commission, together with 14 Member States signed the Valletta Political Declaration

VALLETTA 18 May 2017

POLITICAL DECLARATION on CLEAN ENERGY FOR EU ISLANDS

Inhabited EU islands are often well placed to employ innovative solutions and attract energy investments that integrate local renewable production, storage facilities and demand response in order to achieve interoperable, economic, environmentally friendly and sustainable energy systems, to implement the key priorities of the Clean Energy for all Europeans package;

Recognising that with their strong sense of community and their territorial potential, EU islands can be the architects of their own energy transition. We underline that several of them are already global frontrunners with innovative approaches for integrating variable renewable energy into energy systems and for reducing the emissions from transport, in particular with alternative fuels for transport both on the islands and for the connections to them;

Underlining that EU islands are very diverse and, inter alia, their location, geographic and climatic potential, size and population, provide specific opportunities and challenges that require tailor-made solutions;

Acknowledging that most EU islands face high energy costs and challenges regarding energy security of supply due to their geographic insularity, small economies of scale, and in many cases, reliance on imported fossil fuels and limited or lack of connection to the EU single energy market;

Noting that many EU islands still rely heavily on diesel fuel and oil to generate electricity, with significant negative impacts on emissions, the competitiveness of businesses, and the economy driven by the frequent use of administrative measures and financial aid to mitigate cost reflective high electricity prices for local consumers;

Taking into account that tourism is a key sector for many EU islands' economies, resulting in seasonal energy demand which puts a strain on natural resources and infrastructures;

Acknowledging that alternative fuels, indigenous renewable energy including marine energy, energy efficiency measures implemented with innovative solutions, and connection, where relevant, with the EU's electricity and gas networks are important drivers for sustainable and resilient economic growth and the development of local skills and jobs for the communities on EU islands;

Recognising that many islands and their marine waters are unique ecosystems that require special attention during infrastructure planning and development;

Highlighting, in the context of the 2015 Paris Climate agreement, the vulnerability of islands to climate change and the important role that a clean energy transition along with increased climate resilience plays to mitigate this risk;

Having regard, among other initiatives, to the European Parliament's resolution on the special situation of islands (2015/3014(RSP)) stressing the European islands' potential to contribute to strengthening sustainable development in the Union.



May 2017



September 2017

The Commission launched the Clean Energy for EU Islands Initiative at the Inaugural forum in Chania, Crete





May 2017



September 2017



June 2018

European Commission's DG ENER set up a Secretariat to support the Clean Energy for EU Islands Initiative.



CLEAN ENERGY
FOR EU ISLANDS **SECRETARIAT**



May 2017



September 2017

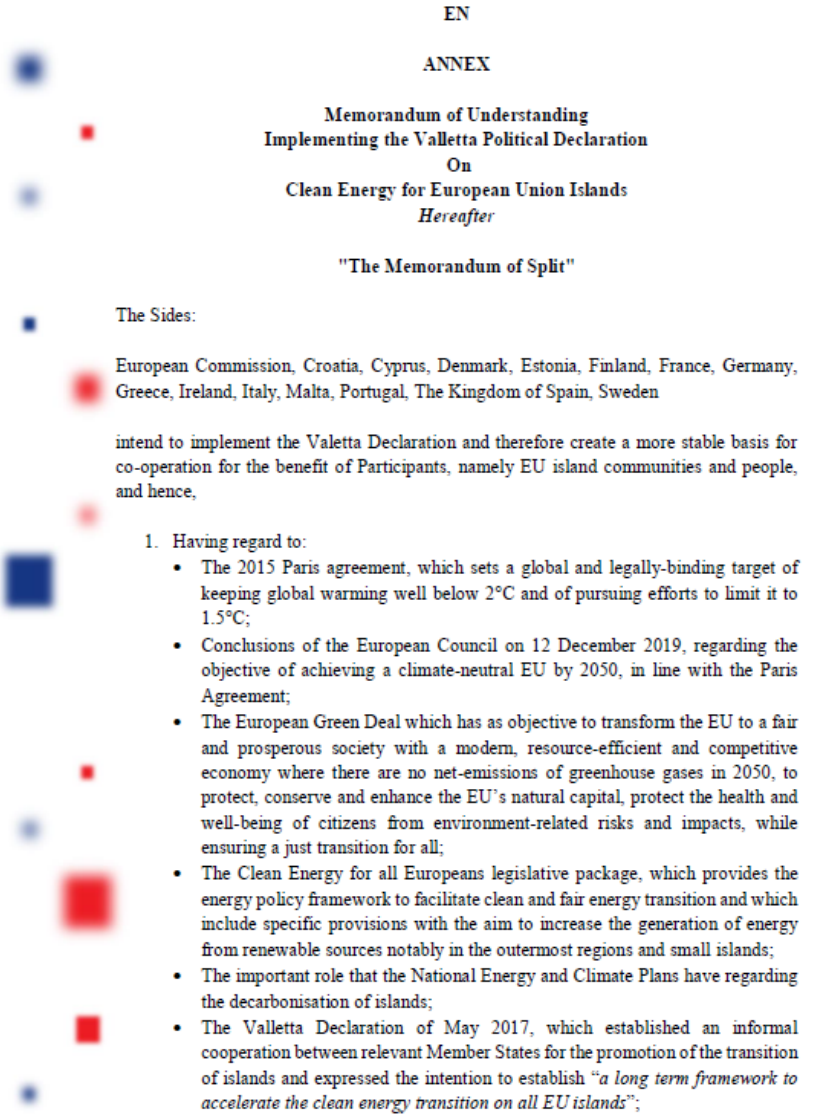


June 2018







June 2020

The Memorandum of Split was signed, to ensure the future of the Clean Energy for EU Islands Initiative





CLEAN ENERGY FOR EU ISLANDS SECRETARIAT

-  to support islands in their transition agendas
-  to promote the participation, engagement and empowerment of citizens
-  to facilitate the creation of renewable energy communities
-  to promote projects and exchange best practices





CLEAN ENERGY FOR EU ISLANDS SECRETARIAT

Providing technical support
for the maturation of island
project to decarbonize their
energy systems



Clean energy production



Energy efficiency upgrade



Heating & cooling decarbonize



Transport to & from the island



Transport on the island



Clean Energy Projects in 9 Greek Islands

- Energy Upgrades in the Port Infrastructure of Thira
- Initiating the Transport Sector Electrification in North Dodecanese
- Clean Energy Transition Agenda for Andros
- Sporades Virtual Microgrid
- Clean Energy Transition Agenda for Kastellorizo



Clean Energy for EU Islands photography competition

Astypalea winner of 2022



Astypalea (Greece)
Photography by **Tonia Tzortzi**,
DAFNI Network, the winner of
the third photography competition
organised in 2022 by the Clean
Energy for the EU islands secretariat.





May 2017

September 2017

June 2018

June 2020

April 2023

3rd phase of the Secretariat:

30 islands to reach 100% RES by 2030



Who we are



Th!nk E



TH!NK
EUROPE



RdA
CLIMATE SOLUTIONS



DAFNI becomes the national coordinator of
the Secretariat for the Greek islands

Activities



Capacity building & technical assistance to the islands

Call for 30 renewable islands

Activating the Marketplace

Islands workshops & Training

Follower islands (at least 90 followers)

Inventory & study on management of connections and non-interconnected grids

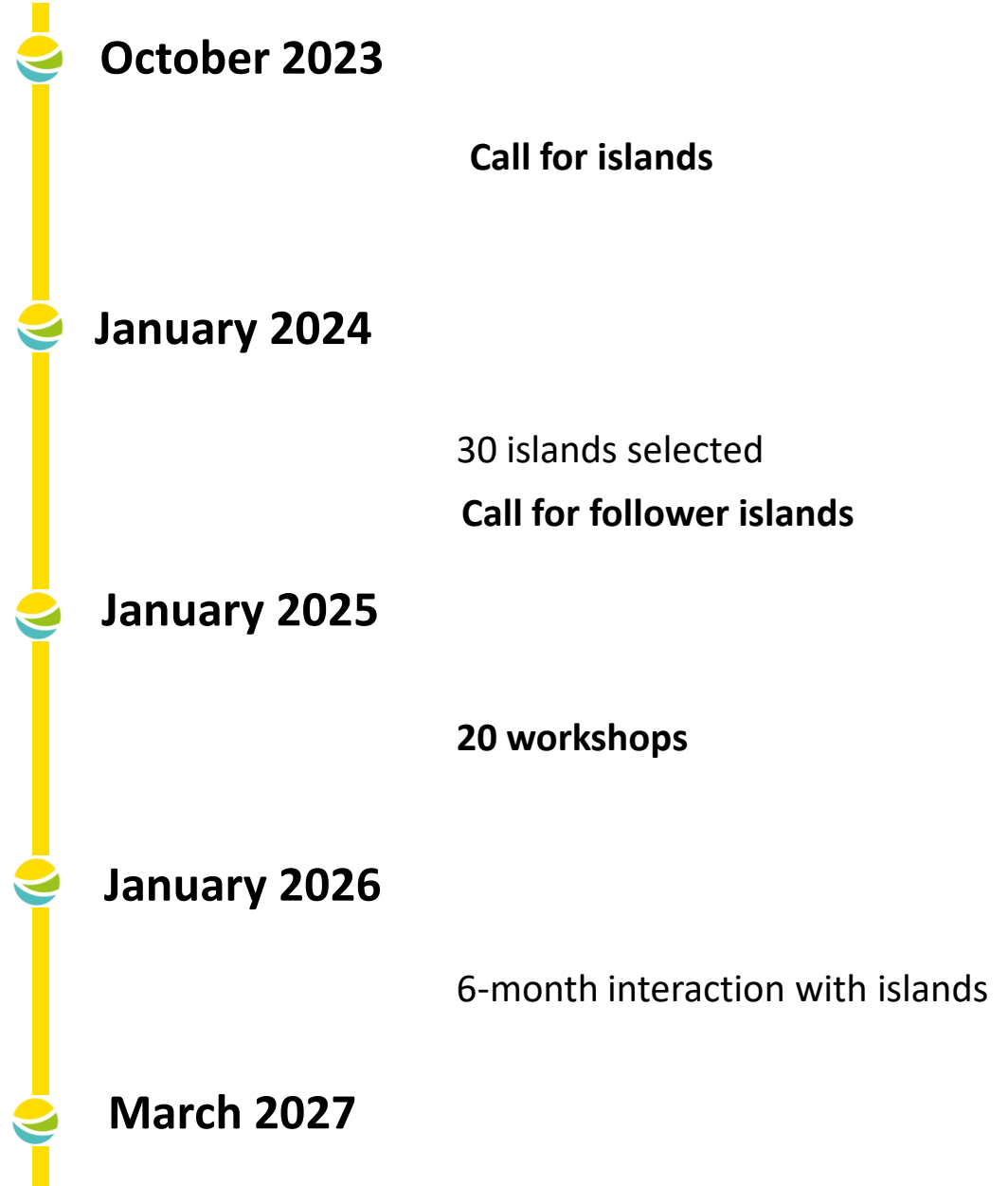
Update of the Regulatory inventory

Thematic workshops

Islands workshops & Training

Organization of the islands Forum

The timeline



FORUM 2023

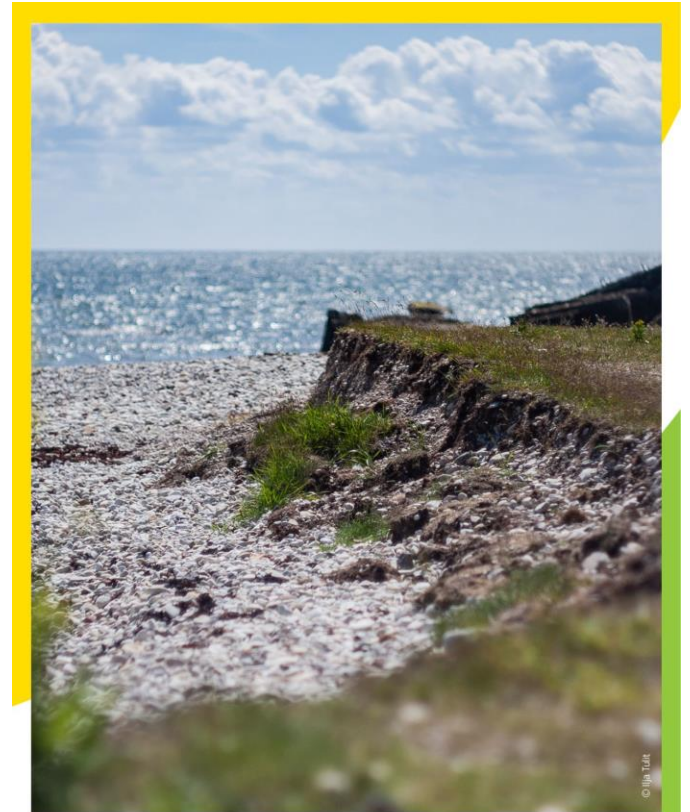
30 FOR 30

30 RENEWABLE ISLANDS FOR 2030

7-8 JUNE 2023

SAAREMAA, ESTONIA

#CE4EUislands



Clean energy for EU islands

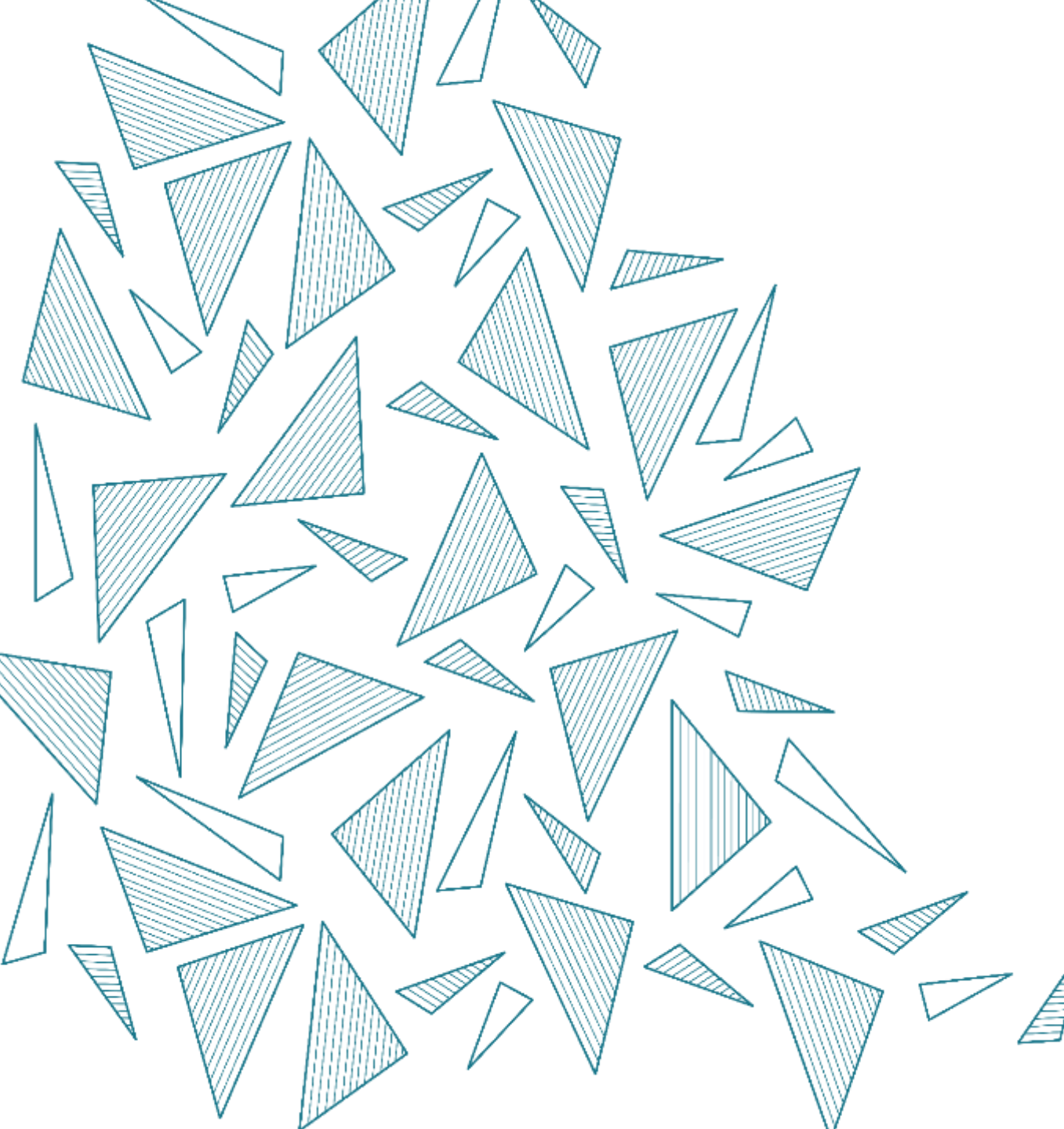
FORUM 2023

30 FOR 30

30 RENEWABLE ISLANDS FOR 2030



07-08 June 2023
Saaremaa, Estonia



www.DAFNINETWORK.gr