New Energy Solutions Optimised for Islands

NESOI

EUROPEAN ISLANDS FACILITY

D7.9: Islands staff coaching material (second part)

Authors: R2M Solution

Technical references

Project Acronym	NESOI
Project Title	New Energy Solutions Optimized for Islands
Project Coordinator	Andrea Martinez, SINLOC, nesoi@sinloc.com
Project Duration	October 2019 – September 2023

Deliverable No.	D7.9 Islands staff coaching material (second part)
Dissemination level*	Public
Work Package	WP 7 - NESOI coaching for local capacity building
Task	Task 7.3: Coaching of islands' staff
Lead beneficiary	R2M Solution
Contributing beneficiaries	SINLOC, RINA-C, ZABALA, CIRCE, CERTH, E.ON, WOLF, DELOITTE, HAEE
Due date of deliverable	May 2022 (M32)
Actual submission date	March 2023 (M42)

*

Version	Date	Authors	Beneficiary
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Review and inputs from partners	06/03/2023	Jesús Rubio Conde, Avraam Kartalidis, Giorgio Bonvicini, Shanshan Zhu, Lucia Baldoni, Aurora García Jimenez, Laureana Luciani Zabaleta, Vasiliki Gemeni, Alessandra Montanelli	DELOITTE, CERTH, RINA-C, CIRCE, HAEE, SINLOC
Quality control	23/03/2023	Alessandra Montanelli	SINLOC

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

DISCLAIMER

The opinion stated in this report reflects the opinion of the authors and not the opinion of the European Commission.

ACKNOWLEDGEMENT

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 864266.

Executive Summary

The present deliverable *D7.9 "Islands staff coaching material - second part"* and its predecessor *D7.5 "Islands staff coaching material - first part"* delivered in September 2022 together provide a comprehensive overview of the coaching material elaborated for NESOI beneficiaries.

The following 4 chapters comprise the results presented herein:

- **Chapter 1** – Individual coaching activities, including a list of the 54 projects supported by NESOI along with brief info on the interview campaigns with project beneficiaries and technical guidance to ultimately provide a tailored e-learning programme.

- **Chapter 2** - Collective webinars, including an introduction of the context, a figure showing the 5 technical focus group topics, and agendas of the webinars on energy planning and e-mobility which both occurred in the fourth quarter of 2022.

- **Chapter 3** - E-learning sessions, describing the current state of the ongoing task to upload a plethora of content to the NESOI Facilitating (NEF) platform. Specifically, the content includes lessons elaborated from existing knowledge previously developed by NESOI (Table 2); material from NESOI webinars and ERASMUS short study tours (Table 3); and material from sources other than NESOI (Table 4).

- **Chapter 4** - The ERASMUS programme, presenting the rationale and general information on the 3 short study tours, and then providing the brochure developed to promote the first study tour already conducted on Astypalaea island in Greece.

This material will be enriched until the end of the project through e-learning activities, the continuation of the organisation of collective webinars and, importantly, the ERASMUS short study tours organised in 2023, which are the highpoint of the coaching activities.

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List of Acronyms

Acronym	Meaning
BP	Business Plan
CBA	Cost Benefit Analysis
CNR	Consiglio Nazionale Delle Ricerche - National Research Council
DD	Due Diligence
DR	Demand Response
DSO	Distribution System Operator
EMEC	European Marine Energy Centre
EMS	Energy Management System
ENEA	Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo económico sostenibile (National Agency for New Technologies, Energy and Sustainable Economic Development)
ESCO	Energy Service Company
EU	European Union
FEDARENE	European Federation of Agencies and Regions for Energy and Environment
GHG	Greenhouse Gas
GSEP	Generation and Storage Expansion Planning
H_2	Hydrogen
H2020	Horizon 2020 research and innovation
ICEECC	International Conference on Energy, Environment and Climate Change
IEPT	IANOS Energy Planning and Transition decision-making
IRENA	The International Renewable Energy Agency
LCA	Life Cycle Assessment
LCC	Life Cycle Costing
MEDENER	Mediterranean Association of National Agencies for Energy Management
NDC	Nationally Determined Contribution
NEF	NESOI Facility
NESOI	New Energy Solutions Optimised for Islands
NREL	National Renewable Energy Laboratory (USA)
ORE	Open Research Exeter
P2P	Peer-to-peer
PV	Photovoltaics
RES	Renewable Energy Sources
SECAP	Sustainable Energy and Climate Action Plan
SIDS	Small Island Developing State
STT	Short Study Tour
SUMP	Sustainable Urban Mobility Plan
SWOT	Strengths, Weaknesses, Opportunities, and Threats
VERIFY-D	Virtual integrated platform on life cycle analysis - District

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Introduction

Context

The EU Islands Facility NESOI (New Energy Solutions Optimised for Islands) is a four-year Horizon 2020 project funded under the call topic LC-SC3-ES8-2019 (European Islands Facility – Unlock financing for energy transitions and supporting islands to develop investment concepts). It began on 1 October 2019 and will finish on 30 September 2023. It is made up of a multi-disciplinary consortium consisting of 10 partners from 7 EU member states.

The ultimate goal of the EU Islands Facility NESOI is to facilitate the decentralization of energy systems and contribute to EU policy in achieving 2030 climate targets. This will be achieved by mobilising more than 100 M€ of investment in sustainable energy projects to an audience of 2,400 inhabited EU islands and give the opportunity to test innovative energy technologies and approaches in a cost-competitive way.

To that end, NESOI aims not only to provide first-step financial support for islands energy transition investment plans and projects, but also to provide technical assistance and coaching through the NESOI experts to develop and implement energy transition plans or sustainable energy-related projects.

A major achievement by NESOI lies in the technical assistance activities conducted during the last two years (and still ongoing). Two open calls (late 2020 and late 2021) were organised by NESOI, to which 168 island energy-transition projects applied. Among them, 54 projects were selected by NESOI according to a transparent and rigorous evaluation process:

- First open call: 28 projects were initially selected (Round 1A), and 14 projects were included in the reserve list (Round 1B).
- Second open call: 12 projects were selected (Round 2).

These projects cover a great variety of topics and diverse maturity levels and are located in 11 European countries. They have received, or are still receiving:

1. On the one hand, financial support (up to 60 k€) through the so-called “cascade funding” mechanism, in order to hire external experts complementing the technical assistance provided by NESOI experts, in particular for local and/or country-specific activities.
2. On the other hand, assistance from NESOI experts’ team, covering technical, economic, financial, and regulatory aspects.

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Coaching activities

NESOI aims to supplement the initial technical assistance activities by longer-term coaching activities to ensure that NESOI beneficiaries have increased capacity for developing investible energy transition projects.

The idea is that the coaching activities do not disturb technical assitance activities, therefore they have a light start. All projects, from round 1A, 1B and 2 should progressively be embarked in the coaching activities when they are ready to do so.

The contents of the coaching activities are being built based on:

- Mainly, experience feedback from technical assistance activities conducted with the 54 projects.
- Also, knowledge acquired in other previous activities, in particular the NESOI toolkit and methodology for islands' energy transition.

Four complementary actions are conducted in the framework of these coaching activities:

1. **Individual coaching**, as a direct follow-up of the technical assistance activities, with individual contacts regularly established with each of the beneficiaries of the 54 projects supported by NESOI.
2. **Collective webinars**, allowing relevant topics to be discussed and shared amongst the beneficiaries of the projects supported by NESOI.
3. **E-learning sessions**, covering the same topics as above and reflecting the knowledge previously acquired by NESOI, and making use of the NESOI platform.
4. **The ERASMUS programme**, consisting in short study tours (SST) with selected guests amongst NESOI beneficiaries and hosted by island organisations with extensive experience in energy transition projects.

The elaboration of the coaching activities, for each of the four above-mentioned actions, were described in the report *D7.5 Islands staff coaching material - first part* delivered in September 2022. The present report, *D7.9 Islands staff coaching material - second part*, is the follow-up and update of these initial contents, focusing on activities 2 (collective webinars) and 4 (ERASMUS programme).

Afterwards, two other deliverables will report about the coaching activities actually conducted.

R2M Solution leads these coaching activities in which all NESOI partners are involved, according to their technical and language skills.

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1. Individual coaching activities

Overall approach

The challenge of the individual coaching activities to be conducted for each project lies in the number of projects supported by NESOI (54). All projects need to be treated in a fair manner and, at the same time, project specificities must be taken into consideration. Table 1 lists all projects supported by NESOI.

Table 1. List of projects supported by NESOI, subject to coaching activities

ROUND-1A projects		
Acronyms	**Project names**	**Islands & Countries**
SoFIA	Setup of First citizens' energy community in the Canary Islands: Adeje	Tenerife (ES)
NERIDA	Sustaining drinking water services and electromobility in insular areas by integrating grid-tied and autonomous PV power	Tilos (EL)
BEST-CT	Boosting Energy Sustainability in Transport for Catania	Sicily (IT)
RenewME	Renewable Malevizi Energy Future	Crete (EL)
SEI	Sustainable Estonian Islands	Saaremaa, Hiiumaa (EE)
SAVE	Sustainable Actions for Viable Energy	Crete (EL)
FossilFree Samsoe	Support to the 'fossil-free island' process in SamsOH, Denmark	Samso (DK)
e-LAFITI	Feasibility study for electric solar boat transportation to Elafiti	Elafiti (HR)
CARING	Clean energy initiatives targeted to small islands	Îles aux Moines (FR), Inishbofin (IE), Nagu (FI), Fur, Veno (DK), Ulva (UK)
HPS	Hydroelectric Pumping Storage	Sardinia (IT)
FECOS	Fair Energy Communities	Sicily + Salina (IT)
SOLAR Islands	Community-Supported Energy: A Step to Community SOLAR Islands	Korçula, Cres-Losinj (HR)
SECAP 4 KRK	Island of Krk SECAP for all	Krk (HR)
E(40)Sco	Energy efficiency in 40 Schools Supports Community	Sardinia (IT)
GRenPLightC	Global renovation of public lighting in Corsica	Corsica (FR)
D.O.C.K.S.	Development Of Consistent Key strategy of the Strait port system	Sicily (IT)
SCGM NaKou	Smart, clean and green marinas in Naxos and Koufonisi	Naxos, Ano Koufonisi (EL)
CEL-EBRe	Local Energy Comunity Energia Bonita y Renovable	La Palma (ES)
GO(H2)ME	Green Orkney Hydrogen Market Expansion	The Orkney Islands (UK)
ARINDEC-GRANCANARIA	Industrial Energy Community powered by Renewable Energies in the Arinaga Industrial Area (Gran Canaria Island)	Gran Canaria (ES)

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ROUND-1A projects		
Acronyms	Project names	Islands & Countries
WiRe-K	Wind turbine repowering in Kythnos	Kythnos (EL)
JEDI	Just clean energy transition of Diapontia Islands	Othonoi, Ereikoussa, Mathraki (EL)
DGReS-Aegean	Decarbonization of Generation and Resilience of Security of Power Supply in an autonomous North-Aegean Archipelago	Chios, Psara, Oinousses (EL)
FESOL	Feasibility study for energy storage and solar energy in Lipari	Lipari (IT)
TESLA	Transport electrification on sea and land in Antiparos	Antiparos (EL)
ENERSIK	Energy planning for clean energy transition for Ikaria	Ikara (EL)
ZEN	Zero emissions Nisyros	Nisyros (EL)
SOLAR ISLAND TENDER	Preparation of tender documentation for a large non-integrated photovoltaic power plant on the islands	Krk (HR)

ROUND-1B projects		
Acronyms	Project names	Islands
wind@coast 2bornholm	Preparations for establishing Bornholms Havvind 100 MW coastal wind park at Bornholm	Bornholm (DK)
NEPTUNUS	Wave energy potential and in-depth analysis for the realization of a wave energy power station on Halki island	Halki (EL)
BATEEIRO	BoAT ElEctrification for the decarbonisation of the fishing sector at the Island of aROusa	Illa de Arousa (ES)
CREATOR	Floating solar power generation for cleaner water system operation on Cres-Lošinj archipelago	Cres (HR)
B-IOS	Promoting green and circular economy through biomass exploitation in Ios	Ios (EL)
RACETRACE	EneRgy plAnning for Clean Energy Transition for SamothRACE	Samothrace (EL)
RENEWDAMMUSI	Renewable and energy efficient solutions for local dwellings dammusi	Pantelleria (IT)
CIET	Capri Island Energy Transition	Capri (IT)
GHEKO	Green Hydrogen Ecosystem on Kos Island	Kos (EL)
BIOG-LEMNOS	Promoting green and circular economy through Biogas exploitation in Lemnos	Lemnos (EL)
CLER Illa de Arousa	Local energy community of A Illa of Arousa	Illa de Arousa (ES)
ENERRAS	Energy planning for clean energy transition for Astypalea	Astypalea (EL)
CETFA	Clean Energy Transition for Fournoi Archipelago	Fournoi (EL)
GEO-LESVOS	Clean energy transition of West Lesvos through the exploitation of the rich geothermal potential of the island	Lesvos (EL)

ROUND-2 projects		
Acronyms	Project names	Islands
H2AzoRES	H2 in Azores to enhance a green and RES-powered transition	S. Miguel, Santa Maria (PT)
T.W.E.E.T.S	solving The Water EmergEncy on The island of Salina	Salina (IT)

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ROUND-2 projects		
Acronyms	**Project names**	**Islands**
AMAZE	Archipelago of Mull Actions for Zero Emissions	Mull, Iona, Ulva, Gometra, Erraid, Inch Kenneth (UK)
CHyAO	Comprehensive Hydrogen Applications On island	Ventotene (IT)
REAL2.0	REMOTE @ La Aldea 2.0	Gran Canaria (ES)
POSIDON	DeveloP feasibility studies to maximixe the sOlar reSource, in a context of smartgrIDs and lOcal eNergy communities	Menorca (ES)
SMOSolarProcess	From municipal waste to clean Hydrogen on Cres-Lošinj Archipelago in Croatia	Cres-Lošinj archipelago (HR)
EFF	Energetic fish farm	Saaremaa (EE)
Make it "SIMPLE"	Small islands making progress as leaders in energy sustainability	Lastovo (HR)
SIF	Sustainable Island Ferries to Sejerø and Nexelø	Sejerø, Nexelø (DK)
FAMTIPP	Feasibility Ameland TidalKite Power Plant	Ameland (NL)
DEWITEN	Public Irrigation Service Decarbonization Energy Plan for the Island of Tenerife	Tenerife (ES)

Interview campaign

As described in *D7.5 Islands staff coaching material - first part*, an interview campaign started in Spring 2022 with selected round-1A projects.

The focus of the initial campaign was on designing the coaching activities and identifying the interest of NESOI beneficiaries in participating in knowledge sharing activities. As their reaction was positive, coaching activities have been defined accordingly.

Therefore, the continuation of the interview campaign will have a different purpose. It will aim to assess the needs of NESOI beneficiaries for the next phase of the EU Islands Facility, after the end of the funding period, in coordination with exploitation activities. This second phase of the interview campaign will cover all projects supported by NESOI (including round-1B and round-2 projects).

The outcomes of the interview campaign will be reported in upcoming deliverables.

Tailored guidance

The NESOI beneficiaries were invited to participate in collective webinars and in ERASMUS short study tours (see next chapters).

Once a significant amount of e-learning material is uploaded to the NESOI Facilitating (NEF) platform, an e-learning programme will be designed for and suggested to NESOI beneficiary according to the projects they are conducting and their future plans (information gathered through the interviews with beneficiaries). Details on tailored advice will be reported in upcoming deliverables.

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2. Collective webinars

The collective webinars are 1 h 45 min recorded sessions designed to give visibility to the collaborations and knowledge generated by NESOI technical assistance activities. They involve as speakers NESOI partners, NESOI beneficiaries and technical advisors supporting NESOI beneficiaries. These webinars intend on guiding the NESOI community made up of project beneficiaries and project followers on their path to replication. The video recordings of the webinars will be made available on the NESOI Facilitating (NEF) platform and become e-learning resources (see Chapter 3).

In September 2022, 5 technical focus groups were created in the framework of NESOI technical assistance activities (see **Error! Reference source not found.**):

Figure 1. Topics covered by technical assistance activities' focus groups

Logically, each webinar corresponds to one of the topics of the focus groups.

The programme of the first two webinars is presented below, while the detailed outcomes of the programme will be reported in an upcoming deliverable.

Webinar on energy planning

The programme of the webinar, held on 24 October 2022, was the following:

INTRODUCTION
Giorgio Bonvicini, RINA Consulting, Co-Chair of HWG Districts at RHC-ETIP.

I. ENERGY PLANNING METHODOLOGY
Common points and specificities of:
- SECAP - Sustainable Energy and Climate Action Plan.
- SUMP – Sustainable Urban Mobility Action Plan.
- Port-level Energy Planning.

II. NESOI PROJECTS
Experience sharing, feedback and replication recommendations.
- Croatia - Island of Krk SECAP for all.
  Vedran Kirincic. PhD, Faculty of Engineering, University of Rijeka, Croatia.
- Greece - Energy planning for clean energy transition for Astypalea.
  Petros Markopoulos - Energy Consultant at DAFNI Network.
- Italy - Development of Consistent Key strategy of the Strait port system.
  Daniele Enea – Ricercatore presso ENEA

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III. PANEL DISCUSSION

All previous speakers.
Avraam Kartalidis, Research Associate, CERTH.
Luigi Laterza, Consultant at SINLOC Spa.
Moderated by Cécile Barrère, R2M Solution.

WRAP UP

Webinar on e-mobility

The programme of the webinar, held on 12 December 2022, was the following:

INTRODUCTION

Giorgio Bonvicini, Senior Energy Engineer at RINA Consulting.

I. E-MOBILITY CHALLENGES and OPPORTUNITIES

- Buses - *Giorgio Bonvicini, Senior Energy Engineer at RINA Consulting.*
- Ferries - *Sasa Jovicic, Senior Legal Counsel and Partner at Wolf Theiss.*
- Road Vehicles - *Carlotta Besson, Mobility & Transport Engineer at RINA Consulting.*

II. NESOI PROJECTS

Experience sharing, feedback and replication recommendations.

- ANTIPAROS – TESLA - Ship electrification.
  Marios-Alkinoos Dimitriou, Energy Engineer at DAFNI.
  Stelios Spagouros, Technical Director of Hydrus Engineering.
- TILOS - NERIDA - e-fleet for municipality.
  Eustathios Kontos, General Secretary of the Municipality of Tilos.
- CATANIA- BEST-CT - e-buses.
  Salvatore Caprì, Production area manager, AMTS.
  Giorgio Bonvicini, Senior Energy Engineer at RINA Consulting.

III. PANEL DISCUSSION

All previous speakers
Vasiliki Palla, Energy engineer at CERTH
Chaired by Sara Ruffini, Energy Engineer at R2M Energy

WRAP UP

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3. E-Learning Sessions

The e-learning module of the NEF platform

The NESOI Facilitating (NEF) web-platform, currently under development, includes an e-learning component to host informational and educational content relevant to the sector, the technologies, and other sources.

Elaboration of e-learning material

The approach to elaborate e-learning material has been described in *D7.5 Islands staff coaching material - first part*.

Four different kinds of e-learning material are being considered:

- **Projects supported by NESOI, illustrating each e-learning topic:** So far, all project briefs have been uploaded on the NEF platform. Detailed project brochures are being uploaded progressively.
- **Lessons elaborated from existing knowledge previously developed by NESOI:** Table 2 presents the lessons elaborated from NESOI deliverables and uploaded on the NEF platform.
- **Material from NESOI webinars and ERASMUS short study tours**: Table 3 presents the material coming from coaching webinars and uploaded on the NEF platform.
- **Material from sources other than NESOI**: Table 4 presents the material gathered from various sources and uploaded on the NEF platform.

This activity is still ongoing, e-learning material is being uploaded on the NEF progressively, even if the corresponding activities are completed (webinars, ERASMUS study tours).

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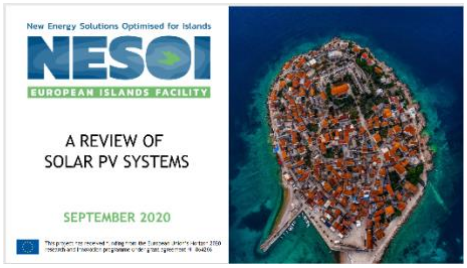
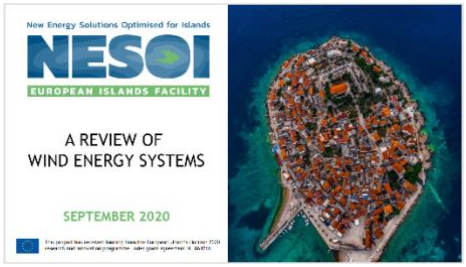
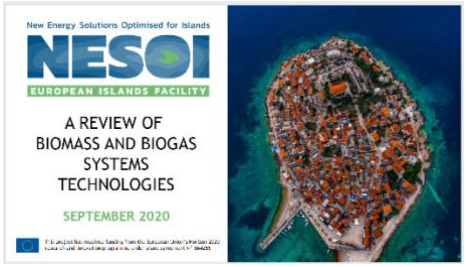
Table 2. e-learning material elaborated from NESOI deliverables

NESOI deliverable	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
D1.3 Critical technologies for islands' energy transition	COURSE: Building retrofitting approaches.	This course includes a summary of the most relevant technologies which can be applied in building retrofitting. The different energy consumptions of a typical building are analysed, to identify the best options to reduce them.	
	COURSE: A review of marine technologies.	This course provides an overview of marine technologies, specifically focused on marine energy converters. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	
	COURSE: A review of solar PV systems.	This course provides an overview of solar PV system technologies. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	
	COURSE: A review of wind energy systems.	This course provides an overview of wind energy system technologies. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	
	COURSE: A review of biomass and biogas systems technologies.	This course provides an overview of biomass and biogas system technologies. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	

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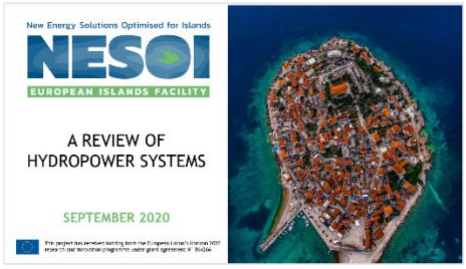
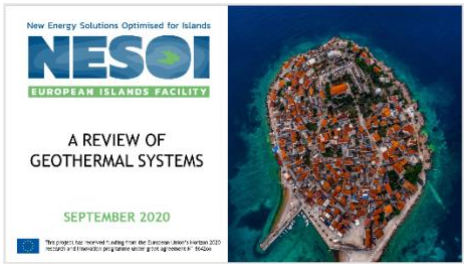
NESOI deliverable	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	COURSE: A review of hydropower systems.	This course provides an overview of hydropower system technologies. It comprises a patent landscape, system classification, deployment factors, and a SWOT analysis.	
	COURSE: A review of geothermal systems.	This course provides an overview of geothermal systems. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	
	COURSE: Electric mobility technologies - Charging Infrastructures	This course provides an overview of electric mobility technologies, specifically focused on charging infrastructures. It comprises a patent landscape, system classification, high-level use cases, and a SWOT analysis.	
	COURSE: Electric mobility technologies - Electric Vehicles	This course provides an overview of electric mobility technologies, specifically focused on electric vehicles. It comprises a patent landscape, system classification, high-level use cases, and a SWOT analysis.	
	COURSE: Public lighting technologies.	This course provides an overview of public lighting technologies. It comprises a general description, EU islands examples and barriers.	

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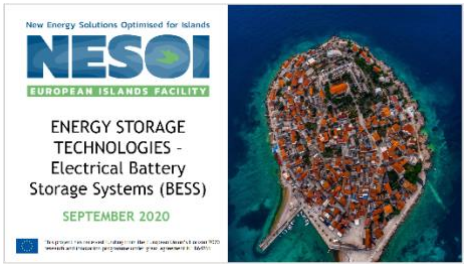
NESOI deliverable	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	COURSE: Energy storage technologies - Electrical Battery Storage Systems	This course provides an overview of energy storage technology, specifically focused on electrical battery storage systems. It comprises a patent landscape, technology scouting, and a SWOT analysis.	
	COURSE: Energy storage technologies - Hydro Storage	This course provides an overview of energy storage technology, specifically focused on hydro storage. It comprises deployment factors, technology scouting, and a SWOT analysis.	
	COURSE: Energy storage technologies - Thermal Energy Storage Systems	This course provides an overview of energy storage technology, specifically focused on thermal energy storage. It comprises a patent landscape, system classification, deployment factors, technology scouting, and a SWOT analysis.	
D1.4 Regulations and sustainable business models on islands	COURSE: Regulatory and market design analysis for islands. National showcase: FRANCE.	This course provides a comprehensive overview of the regulatory situation on islands in France. The status quo of the energy generation and distribution of the islands is being investigated on high level technical, commercial, and regulatory sides, in order to enable the implementation of detailed solutions.	
	COURSE: Regulatory and market design analysis for islands. National showcase: SPAIN.	This course provides a comprehensive overview of the regulatory situation on islands in Spain. The status quo of the energy generation and distribution of the islands is being investigated on high level technical, commercial, and regulatory sides, in order to enable the implementation of detailed solutions.	

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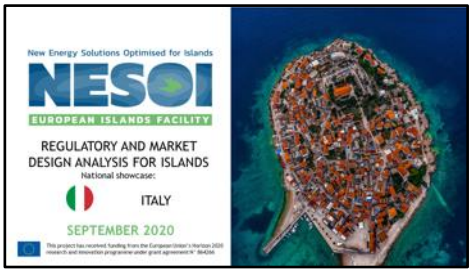
NESOI deliverable	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	COURSE: Regulatory and market design analysis for islands. National showcase: ITALY.	This course provides a comprehensive overview of the regulatory situation on islands in Italy. The status quo of the energy generation and distribution of the islands is being investigated on high level technical, commercial, and regulatory sides, in order to enable the implementation of detailed solutions.	
	COURSE: Regulatory and market design analysis for islands. National showcase: GREECE.	This course provides a comprehensive overview of the regulatory situation on islands in Greece. The status quo of the energy generation and distribution of the islands is being investigated on high level technical, commercial, and regulatory sides, in order to enable the implementation of detailed solutions.	
	COURSE: Sustainable business models, cluster 1: New business models driven by regulations.	This course provides an overview of business models driven by the EU regulations part of the Clean Energy Package: Prosumers, Net Balance, Local and renewable citizen energy communities, District heating, and Procurement of flexibility by DSOs.	
	COURSE: Sustainable business models, cluster 2: Commercially driven business models.	This course provides an overview of commercially-driven business models: Demand response (DR), Optimization of Time of Use pricing, Energy management systems (EMS), Load balancing, Crowdfunding, P2P, Renting, Heating/cooling as a service, and ESCO models.	
	COURSE: Sustainable business models, cluster 3: Technology-driven business models.	This course provides an overview of technology-driven business models: Energy Storage, Offshore wind energy systems, Solar PV: Off-grid and distributed generation, Solar thermal energy: solar thermal collectors, Plasma gasification, and Power-to-X.	

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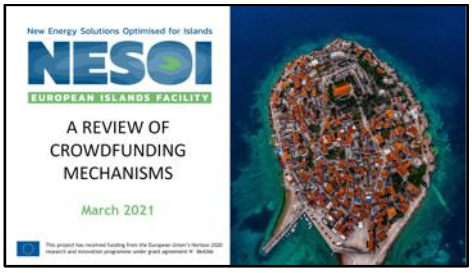
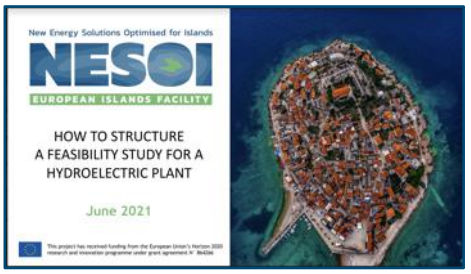
D1.5 Mapping of Financial Instruments	Course: Financial models and providers	This course provides an overview of the available financial schemes for energy transition projects on islands, explaining the functioning scheme of the different financial models and reporting a list of the financial providers.	
D2.4 Equity crowdfunding component	COURSE: A review of crowdfunding mechanisms.	Crowdfunding is a method to raise money (or other resources) from the public for specific purposes through an open call. This course is an overview of the crowdfunding landscape and investment and non-investment models, along with a briefing on the approval of the new EU regulation on crowdfunding.	
D3.2 Technology pairing	COURSE: Technology pairings for islands' energy transition	This course provides an overview of technology integration for islands' energy transition. It comprises sections related to the methodological approach, islands' clusterization, and technology pairing.	
D4.2 Technical Assistance Standardisation	COURSE: How to structure an Energy Transition Agenda	This course illustrates the main contents to be presented in an island's energy transition agenda. It includes the minimum set of actions, questions, and information to be collected to perform the energy transition agenda.	
	COURSE: How to structure a feasibility study for a hydroelectric plant	This course illustrates the main contents to be addressed in a feasibility study for a hydroelectric plant. It includes the minimum set of actions, questions, and information to be collected to perform the feasibility study of a hydroelectric plant. The content is based on the state of technology, such as experiences in previous related projects, legal consultations and international (technical) standards.	

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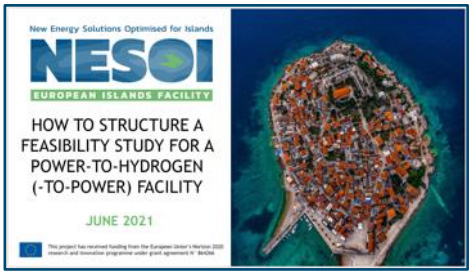
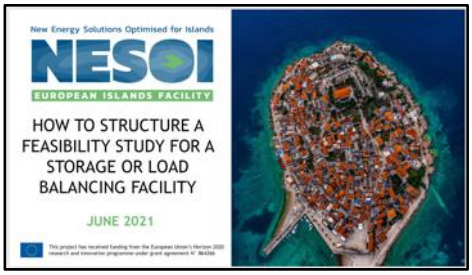
	COURSE: How to structure a feasibility study for a PV plant	This course illustrates the main contents to be addressed in a feasibility study for a PV plant. It includes the minimum set of actions, questions, and information to be collected to perform the feasibility study of a solar PV plant. The content is based on the state of technology, such as experiences in previous related projects, legal consultations and international (technical) standards.	
	COURSE: How to structure a feasibility study for a wind farm	This presentation illustrates the minimum set of actions, questions, and information to be collected to perform a feasibility study for a wind farm. It provides the suggested content to be adapted and customised according to the project and its characteristics.	
	COURSE: How to structure a feasibility study for a Power-to-Hydrogen-(to-Power) facility	This course illustrates the main content to be addressed in a feasibility study for a Power-to-Hydrogen-(to-Power) facility. The index template provides the basic structure, but it should be adapted according to the project's technical use cases and objectives. Additionally, a technical feasibility checklist format has been tailored to this specific technology.	
	COURSE: How to structure a feasibility study for a Storage or Load Balancing facility.	This course illustrates the main content to be addressed in a feasibility study for a storage or load balancing facility. The index template provides the basic structure, but it should be adapted according to the project's technical use cases and objectives. Additionally, a technical feasibility checklist format has been tailored to this specific technology.	

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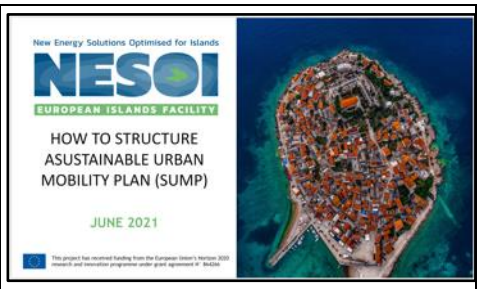
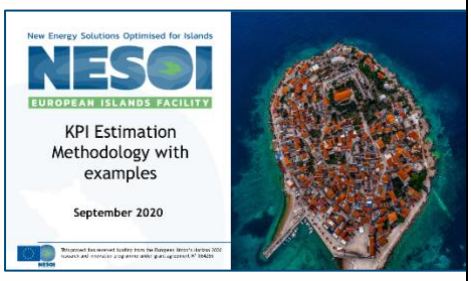
	COURSE: How to structure a Sustainable Urban Mobility Plan.	This course illustrates the main contents to be presented in a Sustainable Urban Mobility Plan (SUMP). It includes the minimum set of actions, questions, and information to be collected to elaborate the plan.	
	COURSE: How to develop tender documents.	This course presents guidance on the preparation of tender documents, which should be conducted following the key principles of public procurement including the freedom of competition, equal treatment of tenderers, proportionality, and transparency.	
	COURSE: How to develop a due diligence study or business plan for an investment project.	A due diligence (DD) or business plan (BP) can be required by the investor(s) of an initiative/project. Such reports should include similar topics (e.g., business model, expected impacts and obligations, regulatory framework, sustainability and risk profiles, market alignment, etc.). This course provides a DD/BP index template with suggested chapter contents, key questions, and minimum actions.	
D6.1 Definition of Assessment KPIs	COURSE: KPI Estimation Methodology with examples	This course presents the methodology for estimating the KPIs, defined within the NESOI, to evaluate the effectiveness of the program. To this end, four representative and common projects are presented to be used as examples for the KPI calculations: a renewable energy production project, a public building renovation, a district heating system combined with biomass CHP and a public transport with electric vehicles.	

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Table 3. e-learning material elaborated from NESOI coaching webinars

NESOI webinar	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
Webinar on energy planning	COURSE: NESOI webinar on energy planning.	The webinar addresses how to prepare a dossier for Energy Planning. In this session, the audience had the chance to learn about best practices and recommendations for exploitation from specific examples, as three projects supported by NESOI were presented (from Croatia, Greece, and Italy).	
	VIDEO RECORDING: NESOI webinar on energy planning	The webinar addresses how to prepare a dossier for Energy Planning. In this session, the audience had the chance to learn about best practices and recommendations for exploitation from specific examples, as three projects supported by NESOI were presented (from Croatia, Greece, and Italy).	
Webinar on e-mobility	COURSE: NESOI webinar on e-mobility	The webinar addresses e-mobility challenges and opportunities, both on land and at sea. Frontrunning islands share best practices and experience feedback about the transition of cars, buses and ships towards electrification and sustainability.	
	VIDEO RECORDING: NESOI webinar on e-mobility	The webinar addresses e-mobility challenges and opportunities, both on land and at sea. Frontrunning islands share best practices and experience feedback about the transition of cars, buses and ships towards electrification and sustainability.	

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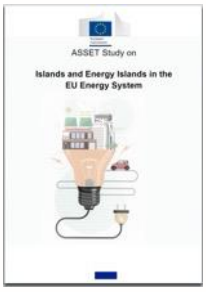
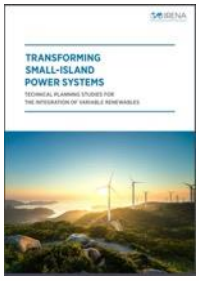
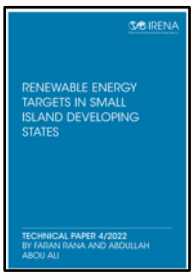
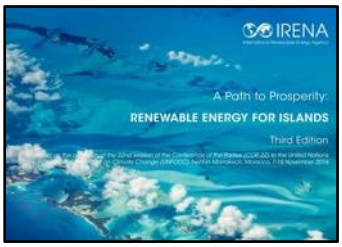
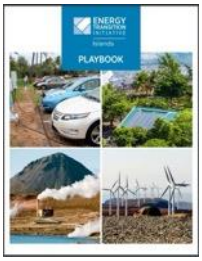
Table 4. e-learning material elaborated from sources other than NESOI

Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
Publications Office of the European Union	REPORT: Islands in the EU Energy System	This report serves the understanding of islands and their energy systems in the framework of their decarbonization potential. It provides a categorization of European islands, several gap analyses, and a strategic vision for European islands based on three possible energy transition approaches.	
International Renewable Energy Agency (IRENA)	REPORT: Transforming Small-Island Power Systems	This guide presents technical planning studies for supporting the growth of Small Island Developing States (SIDS), outlining solutions at operational and expansion planning stages, and laying out viable options to transform the power systems of SIDS and maximise their renewable energy potential.	
	PAPER: Energy in Small Island Developing States	This technical paper demonstrates how, like global trends, renewable energy targets in national policy documents (national policies, plans, roadmaps or laws) and targets in Nationally Determined Contributions (NDCs) are not always in sync in small island developing states (SIDS).	
	REPORT: A Path to Renewable Energy for Islands	This report is a compilation of case studies from Small Island Developing States (SIDS) and stakeholders' organisations. The examples demonstrate real-life projects viability, highlight innovative solutions & showcase successful partnerships to help advance the deployment of renewable energy in SIDS.	
National Renewable Energy Laboratory (NREL)	REPORT: Energy Transition - Islands Playbook	This playbook provides an action-oriented framework that any community can adapt to organise its own energy transition effort. It's a guide for initiating, planning, and completing an energy transition that primarily relies on local resources to eliminate a dependence on imported fuels.	

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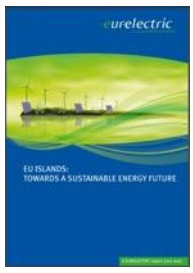
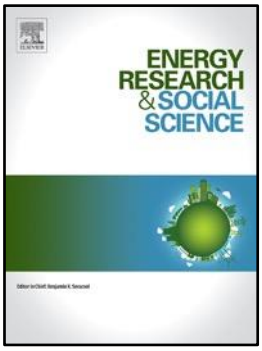
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
Eurelectric	REPORT: EU Islands Towards an Energy Future.	This report examines power generation in EU islands. It provides insights into the status quo of power supply and demand, investigates the regulatory framework, highlights best practice and presents solutions towards sustainable energy systems for islands.	
	PAPER: Energy Transition on Europe's Islands.	In this paper, Eurelectric highlights the specific role of European islands and their decarbonisation needs and calls on policymakers under the new institutional mandate to consider a comprehensive approach for the energy transition on European islands.	
Kleinman Center for Energy Policy	PAPER: Islands and the Energy Transition.	Island communities can benefit from cutting ties with fossil fuels, but few have effectively pursued this transition. The five case studies presented in this paper illustrate the ways that an island's economy and ecosystems can be dramatically impacted by the characteristics of its energy system.	
Energy Research & Social Science Journal, Elsevier	PAPER: From energy islands to energy highlands?	This paper introduces a theoretical framework to assess political barriers to sustainability transitions in their institutional contexts and addresses how political barriers to sustainability transitions emerge and endure, driving differences in transition dynamics across countries.	
	PAPER: Energy transitions on European islands.	Based on technical scenarios and a literature study of 5 policy areas along with local stakeholder engagement for the transition of three European islands, this article investigates market and policy proposals that will support island technical energy transitions in a socially inclusive way.	

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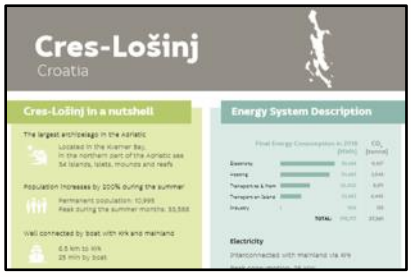
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
Clean Energy for EU Islands	REPORT: Clean Energy Transition Agenda – Arousa.	This is the first version of the 2030 Transition Agenda towards Clean Energy on the Island of Arousa, created in 2020 under the framework of the European Commission's Clean Energy for EU Islands initiative. Arousa's agenda describes actions to preserve the environment and improve quality of life.	
	REPORT: Clean Energy Transition Agenda – Menorca.	This is the first version of the 2030 Transition Agenda towards Clean Energy on the island of Menorca, which aims for a more resilient energy model that brings benefits to social welfare and the local economy, emphasising environmental protection and respect of the natural biosphere reserve.	
	REPORT: Scottish Communities Energy Transition.	This is the first version of the 2030 Transition Agenda towards Clean Energy on the Scottish islands of Eigg, Muck, Rum, Canna, Fair Isle and Foula, and the peninsula of Knoydart. They envision a decarbonisation plan to provide an affordable, resilient low carbon energy supply for all residents.	
	REPORT: Cape Clear-Clean Energy Transition Agenda.	This is the first version of the 2030 Transition Agenda towards Clean Energy on the island of Cape Clear. It aims to decarbonise all island activities by 2040 and decarbonise transport to and from the island by 2050 by using clean energy and digital technologies to become a Smart Island.	
	REPORT: Clean Energy Transition Agenda-Cres-Lošinj.	This vision of the Cres-Lošinj archipelago is to completely decarbonise its energy system by 2040, using smart technologies and boosting energy efficiency. The transition team aims to train the local community on energy-related subjects, and actively involve them in the energy transition.	

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Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	REPORT: Clean Energy Transition Agenda - Aran Isl.	Published in 2019, this Clean Energy Transition Agenda of the Aran Islands reports on their ambition to become self-sufficient in clean, locally owned energy. The objective is to build the economy of the islands based on the related benefits that accrue from this and anchored in the local community.	
	REPORT: Clean Energy Transition Agenda – Salina.	This infographic shows the island of Salina's vision to become a sustainable island with an energy generation system based on renewables, decarbonised transport, and energy efficient buildings. To achieve this, the local community wants to use its resources efficiently and respect the island's nature.	
	REPORT: Clean Energy Transition Agenda - La Palma.	La Palma's Clean Energy Transition Agenda illustrates their vision to become a 100% renewable island thanks to a combination of clean technologies, energy storage and auto-consumption. Energy efficiency, demand reduction and sustainable mobility will be the core of the energy transition activities.	
	REPORT: Clean Energy Transition Agenda – Sifnos.	Sifnos' Clean Energy Transition Agenda reports its vision to become energy independent, powered by a 100% renewable energy generation system, and a decarbonised transport sector. They aim to enable inhabitants and private investors to co-own renewable installations in a flourishing local economy.	
	REPORT: Clean Energy Transition Agenda – Culatra.	This Clean Energy Transition Agenda presents the vision of Culatra island, which aims to create an energy community that manages and shares its own energy by 2030 so the island can become energetically independent, treat and value waste on the island and produce fresh water for self-consumption.	

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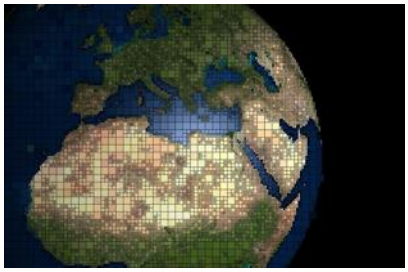
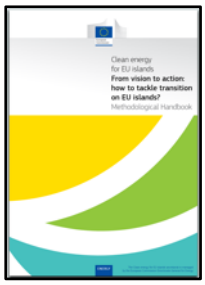
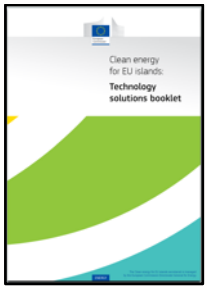
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	REPORT: Smart islands projects and strategies	This report contains a documentation of smart projects and strategies implemented by 35 European islands and showcased during the 1st Smart Islands Forum in 2016. This publication includes information about the islands, a brief introduction to their challenges and specific smart energy projects.	
	REPORT: National legislation for EU islands	This report comprises 9 policy briefs provided by some of the supporting organisations in the EU-wide island community who share a broader focus than one island and have provided a 'state of play' for having an enabling and encouraging environment for the clean energy transition on islands.	
	REPORT: EU islands transition methodology handbook	This Handbook is an action- oriented guide to help islands navigate their clean energy transition. It follows a central methodology (EXPLORE, SHAPE, ACT) to cover ideas and projects in all stages of the transition and provides examples of European islands including references to key publications.	
	REPORT: EU islands technology solutions booklet.	This booklet provides an overview of energy technologies that are currently commercially available for islands to move fowardin their clean energy transition. Innovative technologies at early stages of development have not been included as they have not yet been proven to be implementable.	
	REPORT: Island Guide to clean energy transition.	This step-by-step guide provides island communities and transition leaders with resources that contain information about the necessity of the clean energy transition and shows how it can be done in a way that involves local actors and benefits the local community, economy and environment.	

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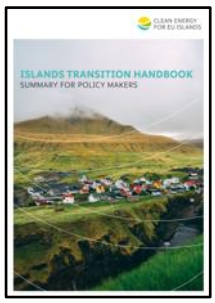
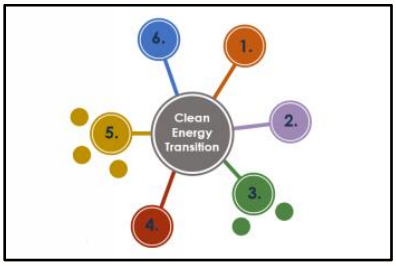
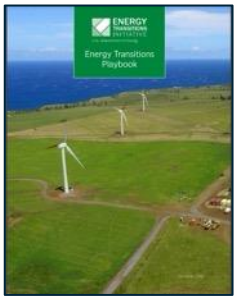
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
	REPORT: Islands Transition Handbook Policy Summary.	The Islands Transition Handbook is a guide to start and help navigate the transition towards clean energy for islands. It instructs on how to develop a Clean Energy Transition Agenda and provides inspiration for the next steps as well as a checklist for clean energy transition management.	
	REPORT: Regulatory inventory methodology.	This report is a brief explanation of the public online regulatory inventory which is an openly accessible online database that includes the national legislation, regulation, and policy framework for support of clean energy technologies, projects & initiatives. The inventory covers 15 Member States.	
	REPORT: Island transition actor engagement guide.	This guide provides island transition teams with tips, guidance, and inspiration on how to involve local, regional, national, and European stakeholders in all stages of the clean energy transition process. Effectively engaging relevant energy transition actors is a key for its success.	
	REPORT: Island Self-Assessment Matrix.	This self-assessment matrix is a tool to help islands develop their clean energy transition agenda. It helps to overcome barriers involving technical and financial issues, historic traditions, and cultural and social perceptions for an island's clean energy transition by mobilising stakeholders.	
US Department of Energy	REPORT: Energy Transitions Playbook.	The Playbook uses the experience of several islands to provide a framework that includes overviews of the seven basic phases of an energy transition; the recommended actions of each phase; and worksheets, case studies and templates to assist communities with planning and implementing any phase.	

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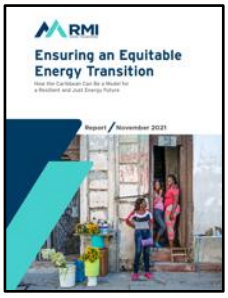
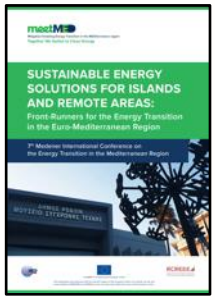
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
Rocky Mountain Institute	REPORT: Ensuring an Equitable Energy Transition.	This report shows how Caribbean Island nations are moving on a trajectory toward an electricity future that utilises clean and distributed resources. Caribbean nations are poised to become global energy leaders, with a unique opportunity to "write the script" for modern energy system transition.	
Frontiers in Sustainable Cities Journal	PAPER: Energy Transition in the Canary Islands.	This paper proposes scenarios that indicate that the current Canary Islands energy model has the potential to tackle climate change and energy issues while producing substantial economic savings and better life conditions for the Canary Islands population.	
meetMED: Mitigation Enabling Energy Transition in the MEDiterranean region	REPORT: Sustainable energy solutions for islands.	This report, subtitled "Front-Runners for the Energy Transition in the Euro-Mediterranean Region" from the 7th MEDENER conference is a valuable contribution to the dialogue on renewable energy sources and energy efficiency in the Mediterranean region.	
Multidisciplinary SCIENTIFIC JOURNAL OF MARITIME RESEARCH	PAPER: Unije island energy transition–social view.	By combining theoretical and empirical research, this paper aims to explore the role of social innovation in energy transition and analyse whether social innovation can be considered a success factor in the energy transition process of the case-study island, the small Croatian island of Unije.	
International Conference on Energy, Environment and Climate Change - ICEECC 2019	PAPER: SIDS & European islands energy transition.	This paper contributes to the understanding of ongoing dynamic through a multidimensional analysis of data allowing to classify Small Island Developing States (SIDS) and outermost regions of the European Union. It also highlights differences between outermost regions and SIDS.	

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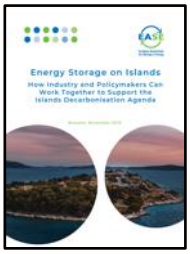
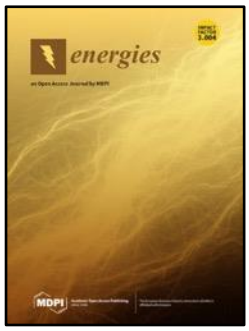
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
European Association for Storage of Energy	REPORT: Island energy Storage for Decarbonization.	This workshop report includes the latest advances in energy storage technologies, assesses the energy storage applications and business cases on islands, and proposes policy recommendations to ensure a faster roll-out of innovative solutions to support the island decarbonisation agenda.	
American Academic Scientific Research Journal for Engineering, Technology, and Sciences	PAPER: Clean Energy Transition in Crete Island.	This paper indicates that the sectors of electricity generation and heat and cooling production can be decarbonized rather easily in the short to medium term using the abundant renewable energies in Crete.	
ORE Open Research Exeter	PAPER: Energy Transition Scenarios for Islands.	This paper presents a methodology for the reliability and power flow assessments of island/off grid power networks for situations of scarce data and information. The aim of the paper is to present and apply a general methodology, informing the decision making towards sustainable island communities.	
Oil, Gas & Energy Law Intelligence Journal	PAPER: How EU Energy Law for EU Islands transition.	This article analyses the concept of Just Transition and its use in international law and EU policy and law. It proposes the notion of 'concentric Just Transition' to qualify the current use of this concept in EU initiatives, policy, and law.	
Energies Journal, MDPI AG	PAPER: 100% Renewable Energy Transition of Madeira.	The integration of renewable energy (RE) in energy systems can be approached in many ways depending on local possibilities. Evaluating this in the limited context of islands, this paper presents a multi-energy system transition to a 100% RE share in a two-folded technical analysis.	
	PAPER: Transitioning Island Energy Systems.	Islands typically have sensitive energy systems depending on natural surroundings, but innovative technologies and the exploitation of renewable energy (RE) sources present opportunities and challenges. Samsø, Orkney and Madeira are in the	

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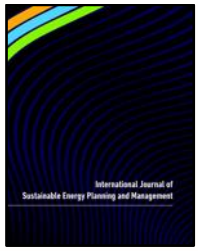
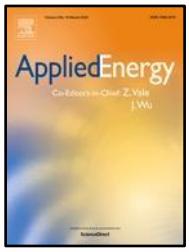
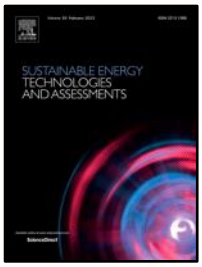
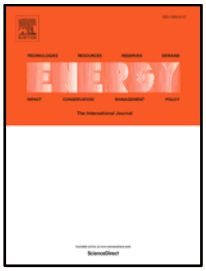
		transition to increase the RE share towards 100%.	
	PAPER: Greek Islands' Energy Transition.	This paper provides an overview of the broader energy transition aspects in Greek islands, discusses the impact of the aforementioned exemplary cases, and further elaborates on the model of energy communities.	
International Journal of Sustainable Energy Planning and Management	PAPER: Island Models for Sustainable Energy Plans.	This work defines the role of modelling renewable energy on islands, in the transition to sustainable and highly renewable energy systems. It addresses the Paris Agreement by potentially including 80,000 islands with their locally limited and globally relevant role in energy planning.	
Applied Energy, Elsevier	PAPER: Towards 100% Renewable Islands in 2040.	This paper focuses on the perspective of a generally overlooked set of regions, island developing nations. Their common challenges and energy policies are exemplified with a comprehensive generation and storage expansion planning (GSEP) for the island of São Vicente, Cape Verde.	
Sustainable Energy Technologies and Assessments Journal, Elsevier	PAPER: Transition to decarbonisation for islands.	This paper implements the energy scenario creation and economic evaluation steps of the platform on 8 islands in 7 EU countries. 21 technologically feasible energy scenarios, applicable to the specific conditions of each island, are specified and their economic assessment is then performed.	
Energy Journal, Elsevier	PAPER: Energy planning scenarios on smart islands.	This paper presents a novel robust risk assessment method under demand uncertainty for energy planning scenarios for the islands. The method uses graph theory for the representation of power system topology and Poisson distribution for calculating the probability of power system element failure.	

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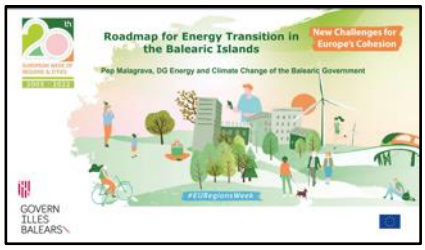
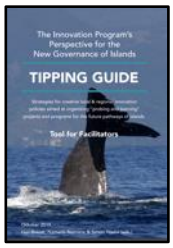
Source	Title of e-learning material	Summary of e-learning material provided on NEF	Screenshot of the material
IANOS EU Project	REPORT: Energy Transition Decision Support Toolset.	This report presents the architecture and component communication of the IANOS Energy Planning and Transition decision-making (IEPT) suite, as well as the methodology for the Cost Benefit Analysis (CBA), which is considered as the cornerstone of the IEPT suite.	
	REPORT: LCA and LCC Tool for Transition Support.	This report focuses on the development of an online web platform/tool for holistic lifecycle Life Cycle Assessment (LCA) and Life Cycle Costing (LCC) calculations, called Virtual integrated platform on life cycle analysis - District (VERIFY-D).	
	REPORT: IANOS Islands Decarbonisation Master Plan.	This report provides information about the reality regarding GHG (greenhouse gas) emissions, its goals and the path defined for the decarbonisation of each of those islands. For that purpose, a characterisation is provided according to the available information.	
European Federation of Agencies and Regions for Energy and Environment (FEDARENE)	PRESENTATION: Balearic Islands Energy Transition.	This presentation contains a briefing on the roadmap for energy transition in the Balearic Islands. It was delivered at the 2022 European Week of Regions and Cities by Pep Malagrava, DG Energy and Climate Change of the Balearic Government.	
	REPORT: The TIPPING guide-innovation for islands.	The Islands of Innovation was an EU project which helped islands share knowledge and innovation opportunities. The TIPPING Guide is the result of the project, which disseminated the knowledge gained by the participatory islands from The Netherlands, Denmark, Portugal, Estonia, France and Greece.	
	REPORT: 2030 Roadmap for a sustainable Cyprus.	In this short document, Cyprus Energy Agency delineates its 10 thematic priorities to work on during 2020-2030 to achieve sustainability in Cyprus by 2030.	

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	WEBINAR: Decarbonising the Maritime Sector.	This webinar was co-organised by the Green Hysland and H2Ports project to find out what cities, regions and islands can do to decarbonise waterborne transport and port applications.	
	WEBINAR: Technologies for the Energy Transition.	"Green Hydrogen Technologies Supporting the Energy Transition: Matching Uses with Context " was the first workshop of the Green Hysland project, it took place in a hybrid format in Cres, Croatia and online on 26 April 2022. The event was co-organised by FEDARENE and REA Kvarner.	
Sustainable Places Conference	WEBINAR: Energy Transition on EU Islands.	NESOI presented in this workshop its first open call aimed at offering to help local European islands reach their energy transition ambitions. Also, five H2020 demonstration projects presented their solutions to foster island energy systems' decarbonisation.	
	WEBINAR: Island Clean Energy Transition workshop.	This workshop presented the point of view of the principal H2020 funded projects in the framework of clean energy transition on islands, thus consolidating their collaborative approaches and presenting new perspectives.	
	WEBINAR: Geographical Islands Decarbonisation.	This workshop explored different topics related to the clean energy transition of islands, and thus was constituted by 2 consecutive sessions where the representative from the consortia presented their points of view: EU funding schemes and technical project presentations.	

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4. ERASMUS programme (short study tours)

ERASMUS Short Study Tours (STT) are organised to allow island stakeholders to exchange lessons learnt and best practices on a given topic. One of them (a NESOI beneficiary or a close technical partner) would be the "host", and the other participants would be the "guests" selected through an open call. 3 topics are explored through 3 hosts in 3 island destinations, making sure that both Northern and Southern European islands are represented.

Table 5shows the hosts, topics, and dates of each study tour. Two are scheduled in Southern Europe in March 2023 (before the Easter break and at the beginning of the summer holiday season): the first in Greece, on Astypalaia island, and the second in Sicily, Italy. Regarding Northern Europe, the third STT will be held in May, when the weather is good enough to travel to the Orkney Islands, in Scotland (UK).

Table 5. Identification of the 3 short study tours organised by NESOI

Country	Island	Host + Partners	Topic(s)	Dates
Greece	Astypalea	Dafni + Astypalea Municipality	Energy Community and RES installations (e-mobility, solar)	6-10 March 2023
Italy	Sicily	Port Authority of Messina + ENEA + CNR	Clean ports and boats	28-31 March 2023
UK	The Orkney Islands	EMEC + PlusZero	Green H2 and marine renewable energy (wave, tidal)	9-12 May 2023

Error! Reference source not found.2 shows the brochure developed to promote the first study tour.

Figure 2. Brochure for the first NESOI short study tour, in Astypalaia

The detailed activities conducted for the three study tours will be reported in the upcoming deliverable *D7.6 Report from islands staff coaching (first part)*.

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Conclusion and next steps

The NESOI coaching activities are built upon complementary pillars and consist of a combination of individual and collective activities.

The present deliverable *D7.9 Islands staff coaching material - second part* and its predecessor *D7.5 Islands staff coaching material - first part* delivered in September 2022 provide a comprehensive overview of the coaching material elaborated for NESOI beneficiaries. This material will be enriched until the end of the project through e-learning activities, the continuation of the organisation of collective webinars and, importantly, the ERASMUS short study tours organised in 2023, which are the highpoint of the coaching activities.

The details of the coaching activities, i.e. number of participants, feedback received, lessons learnt, etc, will be reported in subsequent deliverables. The analysis of the coaching activities' outcomes will also provide useful insights in the definition of post-project activities in the framework of the project's Exploitation and Replication work as illustrated by Figure 3.

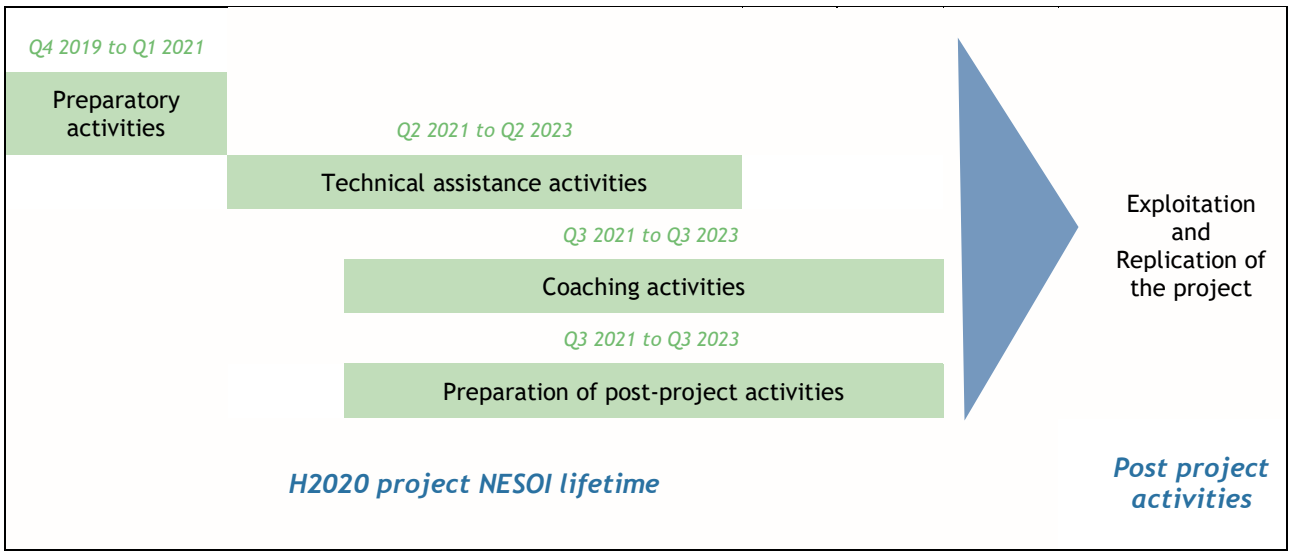

Figure 3. Coaching activities, a bridge between NESOI project activities and post-project exploitation and replication activities

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