Virtual Power Plant for Interoperable and Smart Islands

VPP4Islands

LC-SC3-ES-4-2020

GA 957852

Deliverable Report

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Deliverable name	VPP4Islands networking, JV and cooperation activities		
Lead beneficiary	TROYA		
Contributors	RafDouglas C. Tommasi (GRADO) Torben Joergensen (BORN) Banu Akkök (TROYA) Melis Yılmaz (TROYA)		
Reviewer	BORN, GRADO		
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REVISION AND HISTORY CHART

Version	Date	Main Author(s)	Summary of changes
V1	19/08/2021	B.A. (TROYA)	
V2	26/09/2021	RafDouglas C. Tommasi C. (GRADO)	Internal review
V3	27/09/2021	B.A.(TROYA)	Amended according to the internal review of GRADO
V4	28/09/2021	B.A.(TROYA)	Amended according to the internal review of BORN

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LIST OF ABBREVIATIONS AND ACRONYMS

Project Partners

ALWA	AlgoWatt
AMU	Aix-Marseille Université
BC2050	Blockchain2050
BORN	Bornholms Varme A/S
BOZI	Bozcaada Belediye Baskanligi
BUL	Brunuel University
CIVI	Civiesco Srl
CSIC	Consejo Superior de Investigaciones Científicas
CU	Cardiff University
DAFNI	Network of Sustainable Greek Islands
FORM	Consell Insular de Formentera
FTK	Forschungsinstitut fur Telekommunikation und Kooperation EV
GRADO	Comune di Grado
IDEA	Ingenieria y Diseno Estructual Avanzado
INAVITAS	Inavitas Enerji AS
LIS	Laboratoire Informatique des Systèmes
RDIUP	Rdi'Up
REGENERA	Regenera Levante
SCHN	Schneider Electric
TROYA	Troya Cevre Derneği
UEDAS	Uludag Electric Dagitim

Terms in Alphabetical Order

AAI	Authentication And Authorization Infrastructure
API	Application Program Interface
CDR	Critical Design Review
DER	Distributed Energy Resources
DLT	Distributed Ledger Technology
DMP	Data Management Plan
DRC	Demand Response Capability
DSO	Distribution System Operator
DSS	Decision Support Systems
ESS	Energy Storage Solutions
GDPR	General Data Protection Regulation
GHG	Greenhouse Gases
IPRs	Intellectual Property Rights
JV	Joint Venture
KPI	Key Performance Indicator
LCA	Life Cycle Assessment
RTO	Regional Transmission Organization
SC	Smart Contract
SNM	Strategic Niche Management
SSH	Secure Shell
SWOT	Strength, Weakness, Opportunity, And Threat Analysis
VESS	Virtual Energy Storage Systems
VPP	Virtual Power Plant

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1. EXECUTIVE SUMMARY AND TASK REQUIREMENTS

1.1 Executive Summary

Task 8.3. of the Grant Agreement foresees requirements to bring on networking and cooperation activities in order to maximize both the internal dissemination and the exchange opportunities with similar projects currently active in Europe.

The WP Leader, TROYA, presents in this Deliverable the current status of such activities, both already undertaken and planned, which can be summarised as follows:

- Participation to melting-pot meta-projects like BRIDGE, EU Islands, and REScoop.eu
- Distribution of information about public conferences and events
- Internal networking activities
- Participation to conferences, events, webinars, exhibitions, and fairs.
- Networking and connections established with similar islands and projects

Overall, the development of the activities foreseen in the Grant Agreement is on a very good track, with a coherent and organic structure which the Consortium intends to maintain until the end of the project's lifecycle.

1.2 Task 8.3. Requirements

The aim of this deliverable to provide information about networking and cooperation activities carried out under Task 8.3. of the Grant Agreement.

Task 8.3. requirements are specified as below:

Leader: TROYA, Participants: all partners

- T8.3 intends to identify non-tech obstacles and propose solutions to overcome these barriers, continue knowledge sharing with other projects and initiatives especially **BRIDGE**, and provide feedback and recommendations for policy makers.

- **Conferences** about renewable energy, energy efficiency and community-based energy that will take place in European Countries will be followed during the project. During these conferences and / or information days, the promotion of the VPP4I project will be provided.

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- A presentation about the project will be held at the **Energy Days** event held annually in Brussels.

- Participation in the annual general assembly of **REScoop.eu**, the upper association of cooperatives and enterprises producing community-based energy, will be ensured. Links will be established with other energy cooperatives and islands that advocate for energy independence.

- Participation in the **InterSolar Fair,** which is in the leading fairs of the energy sector, will be ensured and networking with the sector representatives will be ensured.

- Also, will a **contact with EU funded similar projects** like INSULAE, SHERPA, ENLIT and more will be maintained.

2. PROPOSED ACTIVITIES IN DELIVERABLE 8.3.

In order to carry out the tasks stated in Grant Agreement, TROYA proposed the following action plan and presented it in D.8.3.

1. Main events and initiatives, which are dedicated to renewable and efficient energy use, will be attended / participated with an aim to promote VPP4Island project, establish contacts, share knowledge and gain information about new developments in this field.

2. Conferences and similar events will be monitored, and project partners will be informed about upcoming events and activities with an aim to gather new information, share knowledge, create contacts, promote VPP4islands, and establish network.

3. Networking activities will be conducted with similar islands with the aim to exchange information and learn from their experience.

4. Networking activities will be carried out with similar projects to exchange information, identifying possible non-tech obstacles and find out the solutions to overcome these barriers, avoid risks and pitfall, promote VVP4Island project, and to establish contacts.

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3. IMPLEMENTED ACTIVITIES

Task 8.3. requirements	Implemented activities
Creating contact with **BRIDGE initiative**.	✓ VPP4ISLANDS project has become a part of **BRIDGE** Initiative
Following **conferences** about renewable energy, distributing information.	✓ **Conferences and events** followed and information distributed via **Internal Circular**
Participation at **Energy days**	✓ **Energy days** will take place on the 25-29 October 2021. TROYA takes necessary steps to participate.
Participation in the annual general assembly of **REScoop.eu**	✓ TROYA attended **Rescoop.eu's** annual general meeting and workshop on the 20-24 April 2021.
Participation in the **InterSolar Fair & Conference**	✓ **Intersolar** will be held on the 6-8 October 2021, TROYA will take necessary steps to attend.
Networking activities with EU funded **similar projects like INSULAE, SHERPA, ENLIT.**	✓ TROYA in process of contacting representatives to similar projects to conduct interviews, explore networking and cooperation activities.

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3.1. Monitoring conferences, distributing information

Conferences and events related to the project have been followed, related information summarized and distributed via **Internal Circulars,** which have been published quarterly. The articles included:

- Information about upcoming events / conferences
- Promoting / networking activities of the partners
- Interviews with representatives of similar islands
- Information about similar projects
- News about renewable energy sector
- Information about legislative and regulatory frameworks
- Information about related matters such as Open Research Europe, Guidelines on scientific publications and research data, Dissemination and exploitation obligations.

Internal Circulars of March 2021, June 2021, September 2021 are presented as Annexes of this deliverable.

3.2. Conferences/events attended/participated by project partners

GRADO and CIVI organized a cycle of public conferences about VPP4Islands in Grado (Italy). The first one was held in English on July 20th, 2021, and the second one was be held in Italian on September 14th, 2021. During the events, information was given about the VPP4ISLANDS project by stating that it is revolutionizing conventional virtual power plants by integrating virtual energy storage technology, digital twins and distributed ledger technology, as well as creating smart energy communities on islands.

RDIUP and ALGOWATT participated to the public WEBINAR “Flexibility 2.1: From Demand Response to Renewable Energy Communities” on March 15th, 2021. This public webinar briefly presented various results from 15 European-funded projects, each focused on a unique aspect of energy transition, both at building and community levels.

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Web-panel held by Turkish project partners about energy transition and independence of islands on February 16th, 2021. The panel was conducted in Turkish, with the participation of the island inhabitants, local businesses, NGOs, other stakeholders, and project partners INAVITAS, UEDAS, TROYA.

Dr. Dominic Heutelbeck (FTK) presented a paper at ACM Symposium, which took place on June 16-18 2021.The paper is titled 'In-Memory Policy Indexing for Policy Retrieval Points in Attribute-Based Access Control'. The ACM Symposium on Access Control Models and Technologies (SACMAT) is the premier forum for the presentation of research results and experience reports on leading edge issues of access control, including models, systems, applications, and theory.

TROYA attended Europe Sustainable Energy Seminar/conference and connected business meetings in Denmark from 17 to 21 August 2021. The Seminar/conference focuses on the transition to sustainable energy, community power, and ideas for how we can push forward with new initiatives and projects. In the program, there were presentations, workshops, and guided tours at the Nordic Folkecenter for Renewable Energy and its windmill test station, study tours to visit energy communities with wind, solar, biogas, heat pumps, and the world's biggest windmills. The business meeting included cooperation on the field of renewable energy sources with INFORSE-Europe, the Nordic Folkecenter for Renewable Energy, and VedvarendeEnergi. During the study tour, business meetings with several Danish companies took also place. In this seminar, Troya presented the VPP4island project for energy independence and establishing a living lab process in the energy transition on islands.

UEDAS organized a community information event 'Gokceada, Your Energy is Enough' to promote the VPP4ISLANDS project. It took place on June 25th, 2021 and many articles were published in the national newspapers. During the event, the VPP4Islands project was introduced as ‘It will provide innovative solutions for renewable energy resources. The main purposes of our EU-supported project are to reduce carbon emissions, facilitate the integration of renewable energy, and accelerate transition to smart and green energy. We are establishing an energy storage facility in Gökçeada. Furthermore, the renewable power plants and generators that are currently operational on the island will be integrated into the Virtual Power Plant (VPP) system.

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3.3. Participating In the BRIDGE Initiative

Task 8.3. requires VPP4Islands project to share information with other projects and initiatives, especially BRIDGE, and provide feedback and recommendations for policy makers.

The aim of BRIDGE is to gather H2020 Smart Grid and Energy Storage projects to create a structured view of cross-cutting issues, which are encountered in the demonstration projects and may constitute an obstacle to innovation. Since the beginning of BRIDGE, 66 projects have had the opportunity to join and participate in the discussions to develop strong analysis and build reports that helped to the elaboration of EU directives.

VPP4ISLANDS has been selected by the European Commission to contribute to BRIDGE. BRIDGE 2021 General Assembly took place on March 2-4, 2021 and Dr. Seifeddine Ben Elghali (AIX Marseille University) presented our project.

The conclusions of the Bridge GA include main outcomes, and key statements of the discussions and can be downloaded from:
https://www.h2020-bridge.eu/wp-content/uploads/2021/03/BRIDGE-GA-2021-Final-Conclusions.pdf

The BRIDGE initiative is structured with four permanent **Working Groups**, responsible for preparing reports and formulating recommendations for the European Commission on various themes linked to the future of the energy sector. VPP4Islands members also have been selected and has been participating in the working groups:

DATA MANAGEMENT:	Dominic Heutelbeck (FTK), Ioannis Dontas (BC2050)
REGULATIONS:	Mehmet Koç (UEDAS), Stefano Bianchi (ALWA)
CUSTOMER ENGAGEMENT:	Oral Kaya (TROYA), Habib Nasser (RDIUP)

Further information about the BRIDGE Initiative can be obtained at:
www.h2020-bridge.eu

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3.4. Attending RESCOOP.EU General Assembly

The other requirement of Task 8.3. is the participation in the annual general assembly of REScoop.eu.

REScoop.eu is the European federation of citizen energy cooperatives. It has a growing network of 1.900 cooperatives operating across Europe and jointly represent over 1,25 million citizens. REScoop.eu plays an important stakeholder role in the development of the Clean Energy for All Europeans Package by the European Commission with provisions for citizens and energy communities. Apart from EU advocacy and representation services, REScoop.eu fosters the growth and further professionalization of energy cooperatives across Europe and provides networking opportunities. Furthermore, REScoop.eu facilitates international collaboration between energy cooperatives and developed a wide range of services on financing cooperatives and on electric car sharing. (Source: https://www.rescoop.eu/)

The annual general assembly of Rescoop.eu was held in April 2021 and included talks, workshops and discussions ranging from financing and advocacy to building energy community, empowering vulnerable communities and more. Further information about AGM can be obtained at:
https://www.rescoop.eu/news-and-events/news/throwback-to-rescoop-eus-annual-general-meeting-2021

TROYA is the member of Rescoop.eu and attended the GA to establish contacts with other organisations in the same field and exchange information. TROYA also attended a workshop titled 'Unlocking community-based flexibility to transform the energy system III: Involving citizens into local energy markets'.

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3.5. Attending Energy Days - EU Sustainable Energy Week

The EU Sustainable Energy Week (EUSEW) is organised by the European Commission and it is the biggest annual event dedicated to renewables and efficient energy use in Europe.

It will take place online on October 25-29, 2021, under the theme of 'Towards 2030: Reshaping the European Energy System'. More information can be reached at https://www.eusew.eu

TROYA has distributed the information to project partners through Internal Circular and will complete necessary steps to participate at the event.

3.6 Attending Intersolar Fair & Conference

Intersolar Europe is the world's leading exhibition for the solar industry. Furthermore, it organises a conference about renewable energy or energy efficiency issues. It is a great opportunity to establish links with other energy initiatives, cooperatives, and representatives of similar projects to exchange knowledge, promote VVP4Islands project, and to learn from others' experience.

Inter Solar Europe Exhibition and Conference will take place at:
Exhibition: October 6–8, 2021, Messe Müchen
Conference: October 6–7, 2021, CCN Müchen
For more information:
https://www.intersolar.de/home

The conference program includes several subjects closely related to the VPP4Islands project.
TROYA will attend the Intersolar fair and conference aiming to:

- follow up the recent developments in the renewable energy sector
- distribute information gathered during the fair amongst the project partners
- promote VPP4Islands
- establish contacts with the representatives of other organisations in this sector

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3.7. Preparing information about energy cooperatives for Formentera

A guide / road map has been prepared for Formentera to provide information and links about establishing an energy cooperative in Formentera or participating in other energy cooperatives. It included information and links related to:

- EU legal framework, Clean Energy for All Europeans Package (CEP)
- Community Energy: A practical guide to reclaiming power, Handbook in Spanish (Prepared by Friends of the Earth, Rescoop.eu and Energy Cities, is, Translated by Amigos de la Tierra)
- A building tool for renewable energy cooperatives (Prepared by ICLEI, Local Governments for Sustainability)
- A video guide with simple visuals explaining renewable energy concepts and the role of energy cooperatives. (Prepared by Green Peace and Rescoop.eu)
- Energy cooperative options/steps for Formentera
- A success story
- Contact details of relevant authorities in Spain

3.8. Networking activities with similar islands

A web search was conducted to find islands with similar projects or activities. The aim is to contact the island representatives to exchange information and experiences.

An interview was conducted with Johan Kiewiet, Director of Amelander Energie Coöperatie UA and presented in the Internal Circular of September 2021.

TROYA is planning to contact the representatives of the other similar islands listed below in the future to explore networking and cooperation opportunities:

- Aran Islands, Ireland
- Azores,Portugal
- Culatra Island, Portugal
- Gigha, UK
- Gotland, Sweden
- Krk, Croatia
- La Palma, Canary Islands
- Menorca, Spain

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- Pantelleria, Italy
- Samsø Island, Denmark
- Scottish Islands, Sifnos Island
- Greece, Tilos Greece

3.9 Networking activities with similar projects

The aim of this activity is to gain knowledge, create network, explore cooperation opportunities and identify non-tech obstacles and learn about possible solutions to overcome these barriers.

TROYA sent information and interview forms to the several project representatives but have not received any reply yet.

TROYA's recommendation: Project islands (GOKCEADA, FORMENTERA, BOZCAADA AND BORNHOLM, GRADO) to join Clean Energy for EU Islands Initiative https://euislands.eu/

The Clean Energy for EU islands is an initiative, working on behalf of the European Commission for the clean energy transition on EU Islands. It provides:

- Direct support on the development of island Clean Energy Transition Agendas
- Guidance on the development of island Clean Energy Transition Agendas
- Access to support documentation for developing clean energy transition agendas and for the financing of decarbonization plans
- Support on the identification of individual projects (QuickScans)
- Assistance on project preparation (technical & financial due diligence)
- Access to networking events such as Clean Island Forums and Technical Fairs
- Capacity-building workshops
- Capacity-building webinars
- Access to an online collaborative platform and peer-to-peer support
- Helpdesk support

(Source: https://euislands.eu/whatwedo)

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TROYA's plan:

TROYA will make further attempts to contact project representatives for an interview and organize study visits when / if possible, according to the Covid-19 pandemic situation, to start contacts and explore possible networking activities.

Similar projects which were identified are listed below:

- Community Power, https://www.communitypower.eu/en/
- CoordiNet Project, https://coordinet-project.eu
- cVPP - Community-based Virtual Power Plants, https://www.nweurope.eu/projects/project-search/cvpp-community-based-virtual-power-plant/
- Ecco,https://www.nweurope.eu/projects/project-search/ecco-creating-new-local-energy-community-co-operatives/
- Enlit, https://www.enlit-europe.com/learn/eu-projects-zone
- FLEXcoop, http://www.flexcoop.eu
- Insulae, http://insulae-h2020.eu/
- Interrface, http://www.interrface.eu/
- New Energy Solutions Optimised for Islands, https://www.nesoi.eu
- OneNET, https://cordis.europa.eu/project/id/957739
- REScoop MECISE, https://www.rescoop-mecise.eu
- REScoop PLUS, http://www.rescoop-ee.eu/
- REScoop VPP, https://cordis.europa.eu/project/id/893240
- Sheerpa, https://www.project-sherpa.eu/
- WISE Power, http://wisepower-project.eu/
- WiseGRID, https://www.wisegrid.eu/

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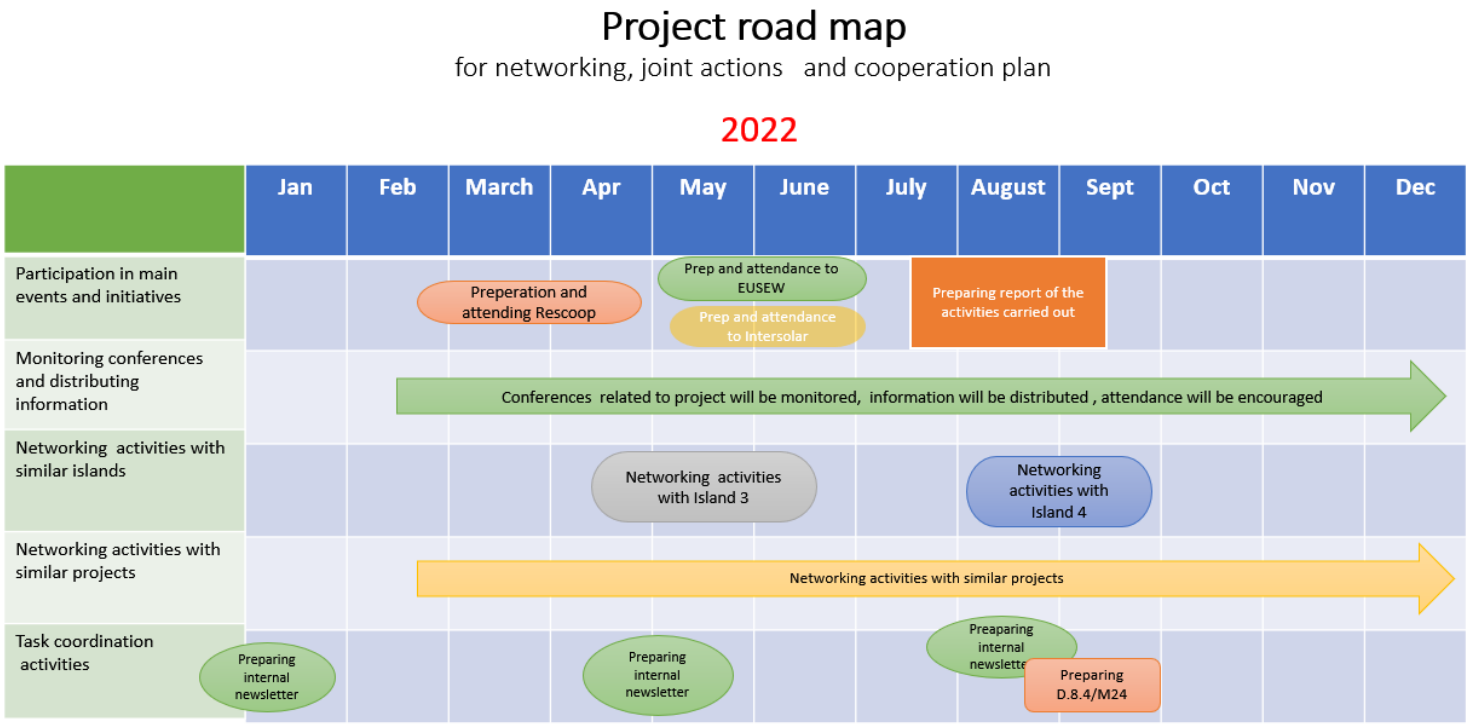
4. ROAD MAPS

Road maps for the planned activities has been created to present the timeline for the networking, joint actions, and cooperation.



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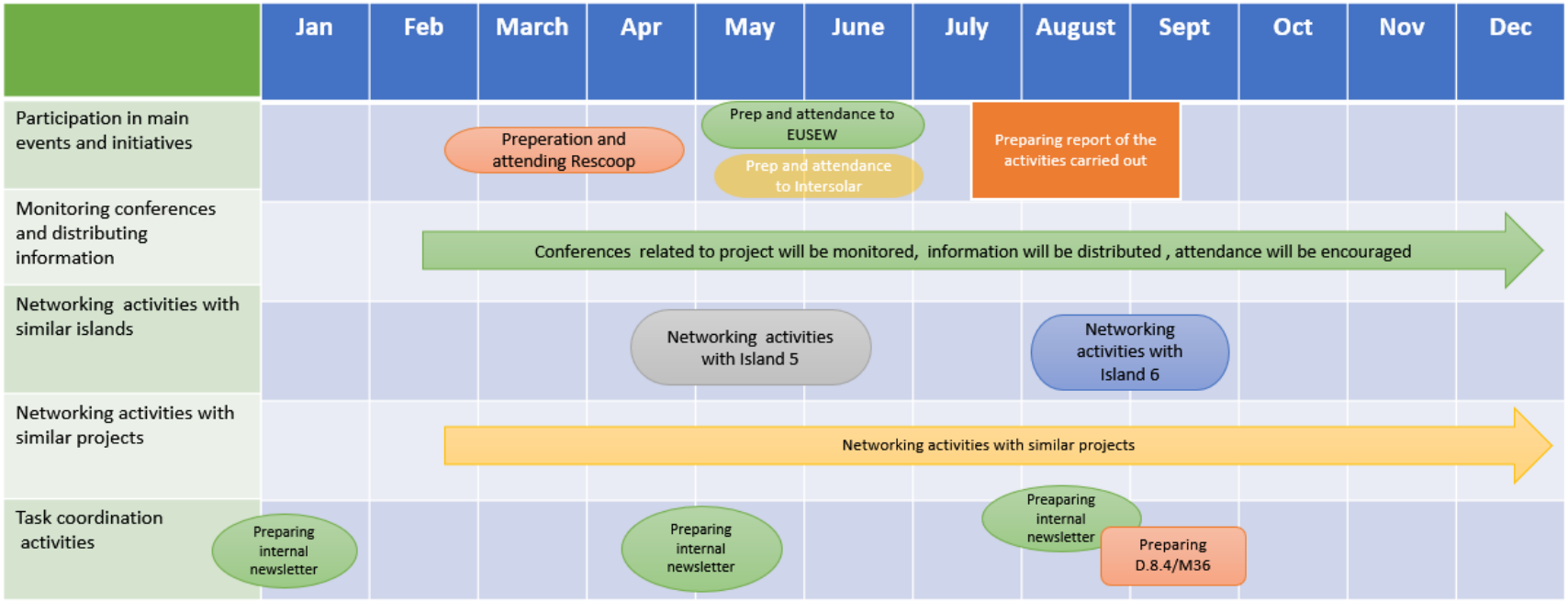
Project road map

for networking, joint actions and cooperation plan

2023



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Project road map

for networking, joint actions and cooperation plan

2024

	Jan	Feb	March	Apr	May	June	July	August	Sept	Oct	Nov	Dec
Participation in main events and initiatives												
Monitoring conferences and distributing information												
Networking activities with similar islands												
Networking activities with similar projects												
Task coordination activities		Preparing D.8.4/M42										

All the information will be gathered together to prepare for the Final Report

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5. CONCLUSION

It is concluded that implemented activities are in line with the Grant Agreement. It aims to enhance networking and cooperation activities, share knowledge, establish contact with similar projects.

The road maps and plan for the life cycle of the project shows that the activities will be continue to share information, to provide feedback and recommendations and develop networking and cooperation activities.

6. REFERENCES LIST

BRIDGE, *'Conclusions and next steps,, BRIDGE General Assembly 2021'*, 2-4 March 2021, accessed 24 August 2021, <https://www.h2020-bridge.eu/wp-content/uploads/2021/03/BRIDGE-GA-2021-Final-Conclusions.pdf>

REScoop, '*Throwback to REScoop.eu's Annual General Meeting 2021',* accessed 25 August 2021, <https://www.rescoop.eu/news-and-events/news/throwback-to-rescoop-eus-annual-general-meeting-2021>

Inter Solar, '*Connecting Solar Business',* accessed 26 August 2021, <https://www.intersolar.de/home>

EUSEW, *'Sustainable Energy Week, Towards 2030, Reshaping the European Energy System*', 25-29 October 2021, accessed 15 August 2021, <https://www.eusew.eu>

Clean Energy for EU ıslands, accessed 3 August 2021, <https://euislands.eu/>

7. ANNEXES

Annex I - Internal Circular, March 2021
Annex II - Internal Circular, June 2021
Annex III - Events Reminder
Annex IV- Internal Circular, September 2021
Annex V - Information about energy cooperatives for Formentera

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March 2021 / Issue 1

Internal Circular

for networking, joint actions and cooperation activities

The aim of this circular is to enhance our networking, joint actions and cooperation activities. We plan to distribute information about news and events related to the project and share the feedback and suggestions from the partners.

VPP4ISLANDS has been selected by the European Commission to contribute to BRIDGE.

The aim of BRIDGE is to gather H2020 Smart Grid and Energy Storage projects to create a structured view of cross-cutting issues, which are encountered in the demonstration projects and may constitute an obstacle to innovation. Since the beginning of BRIDGE, 66 projects have had the opportunity to join and participate in the discussions to develop strong analysis and build reports that helped to the elaboration of EU directives.

The BRIDGE initiative is structured with four permanent Working Groups charged with preparing reports and formulating recommendations for the European Commission on various themes linked to the future of the energy sector.

BRIDGE GA will be held on the 2nd, 3rd and 4th of March, **virtually.** **VPP4ISLANDS** will have a chance introduce the project on the first day of the Bridge GA.

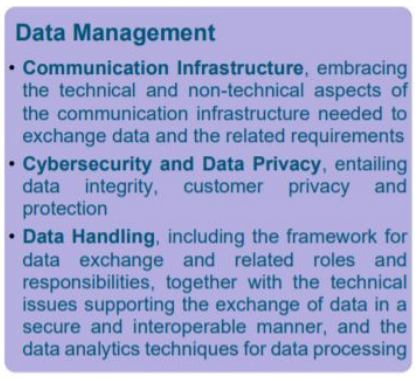
For further information : www.h2020-bridge.eu

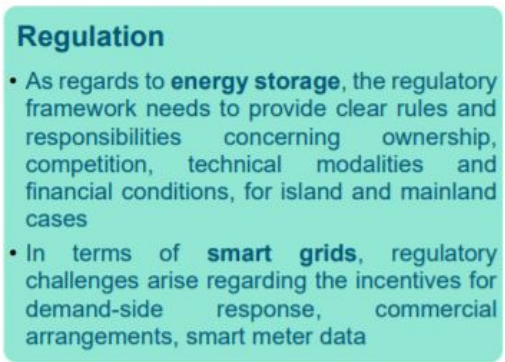
VPP4ISLANDS representatives for the working groups :

DATA MANAGEMENT:
Dominic Heutelbeck (FTK)
Ioannis Dontas (BC2050)

REGULATIONS:
Mehmet Koç (UEDAS)
Stefano Bianchi (ALWA)

CUSTOMER ENGAGEMENT:
Oral Kaya (TROYA)
Habib Nasser (RDIUP)





Source : Bridge Brochure 2020

Source for image : Canva Design Platform

Web-panel held by Turkish project partners about the energy transition and independence of the islands

16 Feb 2021, Virtual

Speakers:
Mehmet Koç (UEDAS)
Oral Kaya (TROYA)
Şafak Baykal (INAVITAS)
Esen Erkan (GÜNDER)

A virtual panel was held in by the project partners on the 16th February 2021. The aim of the panel was to discuss the energy transition and independence of the islands. The panel conducted in Turkish, with the participation of the stakeholders, especially the islanders.

Melis Yılmaz from TROYA presented VPP4ISLANDS project and provided some information about its aim and activities. Oral Kaya explained the necessity of obtaining energy from renewable sources and emphasised the importance of local participation. Şafak BAYKAL from INAVITAS provided information about the infrastructure and explained the interfaces related to energy management and decarbonisation processes. Mehmet Koç from UEDAŞ explained the current electricity situation and the problems experienced at Gokceada. He also presented the layout plans of the existing power plants and the storage systems to be installed in Gökçeada. Esen ERKAN from GUNDER, who is the supporter of the project, talked about the regions in the world experiencing difficulties in accessing electricity and obtaining electricity from renewable energy models.

Denmark to build 'first energy island' in North Sea

Photo Credit : Danish Energy Agency

The world's first energy island will be as big as 18 football pitches and serve as a hub for 200 giant offshore wind turbines. It is the biggest construction project in Danish history, costing an estimated €28bn. It is situated at 80km (50 miles) out to sea, the artificial island would be at least half-owned by the state but partly by the private sector.

A smaller energy island is already being planned off Bornholm in the Baltic Sea, to the east of mainland Denmark. Agreements have already been signed for electricity to be provided from there to Germany, Belgium and the Netherlands.

Source :www.bbc.com

Upcoming Events

(Please click on the event title for more information)

2-3-4 March 2021	**Bridge GA,** Digital
16-18 March, 2021	International Renewable Energy Storage Conference (IRES) , Virtual
23-24 March, 2021	Scotish Renewables Annual Conference 2021, Virtual
25 - 26 March, 2021	Energy Transition and Decarbonisation Forum, Virtual
22-24 April, 2021	**Rescoop Annual Conference**, Virtual
29 April, 2021	Island Energy Transformation Training Series, Virtual
12 May, 2021	The future of green hydrogen – Renewable UK Webinar, Virtual
31 May- 4 June 2021	EU Green Week, Virtual
10 June, 2021	System flexibility in 2030 - Renewable UK Webinar, Virtual
21-22 June,, 2021	Renewable Energy and Sustainable Technologies, Virtual
23 - 25 June, 2021	European Energy Efficiency Conference 2021, Wels and virtual
21 - 25 June, 2021	Global Energy Transition, Virtual
01 July, 2021	The 2030's Power Park - creating hybrid sites -Renewable UK Webinar, Virtual
06 July, 2021	The Future Storage Markets - Renewable UK Webinar, Virtual
14-16 July, 2021	CPE-POWERENG 2021, 15th Int. Conf. on compatibility, Power Electronics and Power Engineering Florence , Italy
21-23 July, 2021	**Intersolar Europe Exhibition,** Messe München
20-21 July, 2021	**Intersolar Europe Conference,** ICM München
6-8 September, 2021	4th International Conference on Smart Energy Systems and Technologies (SEST 2021) Vaasa, Finland

Suggestion form

We would like to hear from you about your suggestions of;

- Publishing
- Conferencing and networking
- Personnel mobility
- Joint training programs
- Policy recommendations
- Identifying opportunities of replication of VPP4Islands
- Commercialization

Please complete the enclosed form and send it to info@troyacevre.org

Feedback form

Have you attended any meeting, conference or participated any networking or cooperation activities related to VPP4ISLANDS project?

We would appreciate it if you could provide us with some information about your activities. The information will be used in newsletters and also in D.8.4.

Please complete the enclosed form send it to info@troyacevre.org

Thank you for your contribution

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n°957852

Prepared by TROYA
info@troyacevre.org

June 2021 / Issue 2

Internal Circular

for networking, joint actions and cooperation activities

In this issue:

VPP4ISLANDS MANAGEMENT BODIES MEETINGS

- **VPP4Islands Operational Board (OpB)**

The meeting was held on May 24th. It was chaired by the Management Support Team (Coordinator: Seifeddine BEN ELGHALI and Project Manager: Julia RICCIO). The purpose was to discuss the project progress. The Operational board is composed of the Work Package leaders only. (AMU, ALWA, IDEA, BC2050, SCHN, UEDAS, RDIUP).

The WP leaders are in charge of coordinating all activities relating to the objectives of their WPs. They take operational decisions regarding their WP day-to-day management, in collaboration with the Task leaders of their WP, on the basis of a detailed definition of milestones, scope and expected results of the WP. They prepare an annual progress report on the scientific results (protocols, scientific results, finance…) to be transmitted to the Coordinator and are responsible to transmit in due time their WP deliverables to the Strategic board for the EC review. The WP Leaders are also in charge of addressing and documenting internal risks that may impair progress towards the objectives of the WP and suggesting strategies to anticipate and minimize such internal risks. The chairperson for the meetings of OpB rotates among the WP leaders.

- **VPP4Islands Strategic Board (SB)**

The Strategic Board (SB) of VPP4ISLANDS will be held on June 3rd. It will be chaired by the Management Support Team (Coordinator: Seifeddine BEN ELGHALI and Project Manager: Julia Riccio). The SB Composition: MST, Stefano BIANCHI (ALWA), Jianzhong Wu (CU), Dominic Heutelbeck (FTK), Mehmet Koç (UEDAS), Habib Nasser (RDIUP).

The Strategic Board is a supervisory body that will propose political and strategic orientations of the project to the General Assembly and will implement it.

Tasks:

- Prepare any scientific, political and strategic orientations of the project
- Prepare the agenda and objectives of technical and consortium meetings, as well as EC reviews;
- Identify needed contractual changes including technical work plan changes and in the consortium agreement;
- Supervise the production of all reports and deliverables required in the frame of the Grant Agreement;
- Arbitrate on deadlock situations occurring within the WPs and Tasks.
- The Strategic board will meet at least three times a year: during the annual consortium meetings, by conference call or by physical meetings if required. Conference call meetings or Internet-based conferences will be organized at any time upon request of a member or of a partner of the Consortium.

- **VPP4Islands General Assembly (GA)**

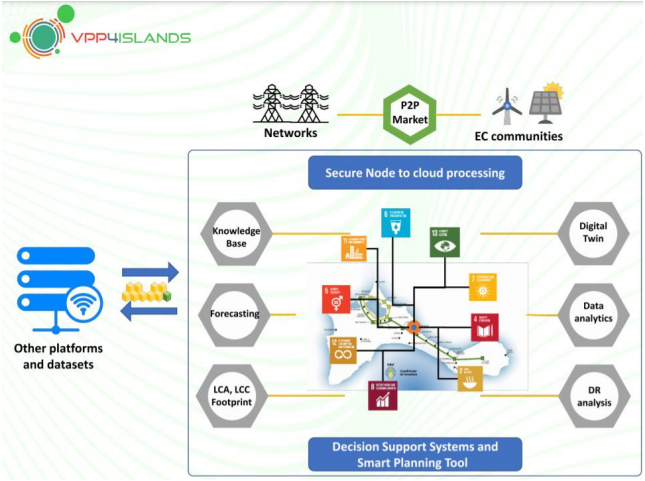
The General Assembly (GA) of VPP4ISLANDS will be held on **July 6th from 10am to 12pm (CET)**. It will be chaired by the Management Support Team (Coordinator: Seifeddine BEN ELGHALI and Project Manager: Julia Riccio) and attended by partners representatives **(one voice per partner)**.

The General Assembly is the ultimate decision-making body of the consortium, endorsing decisions concerning the project implementation, as prepared and presented by the Strategic Board. If you have any question, legal, financial, organisational or any other important issues relating to the project, please write to Julia Riccio (julia.RICCIO@univ-amu.fr).

VPP4ISLANDS COMMUNICATION MATERIALS

Well-designed Fact-sheet, Roll-up, Depliants and Flyers presenting VPP4ISLANDS project has been created by RDIUP and published on our website. Public communication materials are available at :

https://vpp4islands.eu/index.php/dissemination/#public-communication



BRIDGE GA CONCLUSIONS

BRIDGE 2021 General Assembly took place on the 2-4 March and Dr. Seifeddine BEN ELGHALI (AIX Marseille University) presented our project. The conclusions of the Bridge GA includes main outcomes and key statements of the different discussions and can be downloaded from:
https://www.h2020-bridge.eu/wp-content/uploads/2021/03/BRIDGE-GA-2021-Final-Conclusions.pdf

25-29 OCTOBER 2021
EU SUSTAINABLE ENERGY WEEK
TOWARDS 2030: RESHAPING THE EUROPEAN ENERGY SYSTEM
#EUSEW2021

EU SUSTAINABLE ENERGY WEEK

It will run from 25 to 29 October 2021, under the theme 'Towards 2030: Reshaping the European Energy System'. For more information:
https://www.eusew.eu/

DR. DOMINIC HEUTELBECK'S PRESENTATION AT ACM SYMPOSIUM

Our project partner FTK represented by Dr. Dominic Heutelbeck will present a paper at ACM Symposium, which will take place on the June 16-18 2021. The paper is titled 'In-Memory Policy Indexing for Policy Retrieval Points in Attribute-Based Access Control'

The ACM Symposium on Access Control Models and Technologies (SACMAT) is the premier forum for the presentation of research results and experience reports on leading edge issues of access control, including models, systems, applications, and theory. More information can be obtained at : http://sacmat.dista.uninsubria.it/2021/about.php

Dr. Dominic Heutelbeck, dheutelbeck@ftk.de
FTK Forschungsinstitut fur Telekommunikation und Kooperation EV

GUIDELINES ON SCIENTIFIC PUBLICATIONS AND RESEARCH DATA

Guidelines on the Implementation of Open Access to Scientific Publications and Research Data in projects supported by the European Research Council under Horizon 2020 can be reached at :

https://ec.europa.eu/research/participants/data/ref/h2020/other/hi/oa-pilot/h2020-hi-erc-oa-guide_en.pdf

OPEN RESEARCH EUROPE (ORE)

European Commission has now officially launched Open Research Europe, the open access publishing platform for scientific articles that present the results of research funded by Horizon 2020 & Horizon Europe.

Portal : https://open-research-europe.ec.europa.eu/
Twitter account @OpenResearch_EU.

Project Manager Julia RICCIO's comments about ORE :

This Open Research Europe (ORE) platform is an alternative to 'regular' scientific journals and it offers OPEN ACCESS publishing and peer review. As ORE is new, it is not yet to say what the reach will be of papers published on this platform. It is good to note that articles must be original, so the content should not have been published elsewhere already. However, publication on your own website, repository, or on the VPP4islands website after publication on ORE is allowed.

Recommendation from the VPP4islands management team is that every consortium partner decides for themselves whether to publish project results in (commercial) journals or on the ORE platform.

In any case, do remember to add all your VPP4islands publications in the EU-portal and send them to Habib Nasser and Fatiha Zaouia (habib.nasser@rdiup.com, fatiha.zaouia@rdiup.com) to make available on the VPP4islands website.

Pro's of the ORE platform are:

- The service is free and OPEN ACCESS (which is mandatory for ECSEL funded project publications)
- Publishing here is a positive gesture towards the EC

Con's of the ORE platform are:

- Unknown what the audience is that will be reached by publishing on ORE
- Unknown how the platform will score on citation index / impact factor

DISSEMINATION AND EXPLOITATION OBLIGATIONS AND OPPORTUNITIES BEYOND THE END OF THE GRANT

The obligations to exploit and disseminate project results do not end when the (VPP4islands) project ends and continue for 4 years after the project end date. The EU-portal will remain open during that period, so that you can still add new publications, patent applications, etc.

The EC also offers a special section on its website for publishing Key Exploitable Results (KERs) of any nature such as products, services, software, policy recommendations:

Horizon Results Platform

Please note that the use of this platform will be mandatory for projects granted under Horizon Europe; for VPP4islands the use is optional. The VPP4islands management team recommends that you continue to add relevant project results in the EU-portal. Feel free to make use of EC support on dissemination and exploitation if you need it.

SMILE PROJECT

Dr. Romain Mauger from University of Groningen approached to our project coordinators after Bridge GA and informed us about their deliverables which may help our researchers as they dealt with the regulation for the energy transition on EU islands (especially energy storage, EVs smart charging and sector-coupling electricity - heat).

SMILE
Smart Island Energy Systems

The Smart Islands Energy System (SMILE) project is a collaboration of nineteen partners from various European countries and is funded by the European Union's 'Horizon 2020 research and innovation programme'. The project will demonstrate nine different smart grid technologies on three different islands.The end goal of the project is to foster the market introduction of these nine technologies.

Please click on the title to reach the full text :

- Deliverable D2.1, Schematic and technical description of Orkney DSM system architecture
- Deliverable D3.1, Specifications and data report for the Samsø demonstrator
- Deliverable D4.1, Madeira pilot case study specification and assessment
- Deliverable D7.1, Regulating electricity storage
- Deliverable D7.2, Integrating electricity and heat supply systems
- Deliverable D8.1, Reference energy simulation models for the three pilot islands
- Deliverable D8.2, Short and medium-term scenarios for the three pilot islands

For more information
https://www.h2020smile.eu

TROYA ATTENDED RESCOOP.EU'S ANNUAL GENERAL MEETING AND WORKSHOP

Energy communities across Europe gathered virtually to discuss the past community energy year while looking ahead to what is to come. Annual General Meeting were packed with talks, workshops and discussions ranging from financing and advocacy to building your community, empowering vulnerable communities and more. The third and last day was dedicated to the General Assembly, reviewing the Federation's work of 2020 and voting on a new Board of Directors.

For more information about AGM can be obtained at :
https://www.rescoop.eu/news-and-events/news/throwback-to-rescoop-eus-annual-general-meeting-2021

TROYA also attended a workshop on the 30th April, titled 'Unlocking community-based flexibility to transform the energy system III: Involving citizens into local energy markets'. Topics included :

- Business model for community based energy and flex trading
- Grid singularity: Technology and potential future market
- New landscape of energy services
- REScoopVPP: Towards smart communities
- Live Gridsinguarity demonstration

Documents of the workshop can be reached at :

- https://gridsingularity.com
- www.rescoop.eu/toolbox

UPCOMING EVENTS *(Please click on the event title for more information)*

2-4 June 2021	All Things Energy Forum
3 June 2021	Stationary Energy Storage Without Batteries: Large New Market
10 June 2021	System Flexibility in 2030 – Renewable UK Webinar
15-16 June 2021	Citizens Energy Congress
16-18 June 2021	ACM Symposium on Access Control Models and Technologies
21-22 June 2021	Renewable Energy and Sustainable Technologies
21-25 June 2021	World Sustainable Energy Days 2021
21-25 June 2021	Global Energy Transition
23-25 June 2021	European Energy Efficiency Conference 2021
30 June 2021	Island Resilience Action Challenge
1 July 2021	The 2030's Power Park – Creating Hybrid Sites –Renewable UK Webinar
6 July 2021	The Future Storage Markets – Renewable UK Webinar
6-8 July 2021	10th Solar Energy Conference and Trade Show of Central and Eastern Europe
14-16 July 2021	15th Int. Conf. on compatibility, Power Electronics and Power Engineering
21-23 July 2021	Intersolar Europe Exhibition
20-21 July 2021	Intersolar Europe Conference
6-8 Sept 2021	4th International Conference on Smart Energy Systems and Technologies
28 Sept-1 Oct 2021	6th HAEE Energy Transition Symposium
5-6 Oct 2021	Energy Transition Strategies Summit
6-8 Oct 2021	The Smarter Europe Restart 2021EU SUSTAINABLE ENERGY WEEK
25-29 Oct 2021	European Sustainable Energy Week
12-14 Nov 2021	Energy Storage Global Conference 2021
22-23 Nov 2021	Energy Transition Europe 2021

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n°957852

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EVENTS REMINDER

JULY 2021

VPP4ISLANDS
GENERAL ASSEMBLY MEETING
6 July 2021
10:00- 13:00 (CET)

World Sustainable Energy Days

Last event was participated by 650 experts from 62 countries. More information can be reached at : https://www.wsed.at/
Next event will be held on 2 - 4 March 2022
The deadline for the Call for Papers is 12 October 2021

EU Sustainable Energy Week

It will run from 25 to 29 October 2021, under the theme 'Towards 2030: Reshaping the European Energy System'. For more information: https://www.eusew.eu/

Inter Solar Europe Exhibition and Conference

Exhibition : October 6-8, 2021
Messe Müchen
Conference :October 6-7, 2021
CCN Müchen
For more information :
https://www.intersolar.de/home

EVENTS REMINDER

(Please click on the event title for more information)

4th International Conference on Smart Energy Systems and Technologies (SEST)

6-8 September 2021, Vaasa, Finland
For more information :
https://sites.uwasa.fi/sest2021/

14-16 July 2021	15th Int. Conf. on compatibility, Power Electronics and Power Engineering
21-23 July 2021	Intersolar Europe Exhibition
20-21 July 2021	Intersolar Europe Conference
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19-21 Oct 2021	Energy Storage Global Conference 2021
22-23 Nov 2021	Energy Transition Europe 2021

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September 2021, Issue 3

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EXTERNAL ADVISORY BOARD IS ESTABLISHED IN THE GA

The Role :

The EEAB will support the consortium by providing key advice on the way the project is running, on how to be well-prepared for the European commission reviews, and on how to achieve the expected results in 3.5 years. Furthermore, the EEAB could review specific scientific deliverables. The EEAB members will be invited to attend the Kick-off meeting and the annual consortium meeting, at least.

Potential members for our External Advisory Board are identified as stated below. They will be contacted by Project Coordination Team and project partners will be informed accordingly.

Prof. Federico Silvestro: Full professor at Università degli Studi di Genova, President of IESolutions - Energy Consulting company - Spin Off of University of Genoa. : https://www.linkedin.com/in/federico-silvestro-34933910/

Prof. Javier Contreras : Full professor at university of Castilla La Mancha, Spain. He is an IEEE fellow member : https://scholar.google.com.br/citations?user=2dbYe1sAAAAJ&hl=pt-BR

Prof. Massimo La Scala : Full Professor of Electrical Energy Systems at Politecnico di Bari in Italy and IEEE Fellow : https://scholar.google.it/citations?user=SUdziagAAAAJ&hl=it

Dr. Del Vecchio : Expert in the legal aspects of Smart Contracts and Blockchain technologies.

Mr. Kostas Komninos : General Director, of the Network of Sustainable Greek Islands (DAFNI), contains more 50 islands. (In the GA) https://gr.linkedin.com/in/kostas-komninos

Mr. Fernando Miguel Matias : COO & Co-Founder of OPTIMEYES ENERGY LTD, experts in optimising energy efficiency and utilising renewable solutions (In the GA)

Mr. Keith Routledge : Founder of ZEBRAcarbon in 2011. He is a Chartered Engineer with the Energy Institute, and holds an MBA and a degree in Fuel & Energy Engineering.: https://www.zebracarbon.com/about

All partners, please don't hesitate to suggest other potential members according to our specific needs and send their CVs to Julia RICCIO julia.RICCIO@univ-amu.fr

GRADO AND CIVI HAE BEEN ORGANIZING A CYCLE OF PUBLIC CONFERENCES ABOUT VPP4ISLANDS IN GRADO

The first one was held in English on the **July 20th 2021,** and the second one will be held in Italian in mid **September 2021.**

IL Gorizziano
Tuesday 10th August 2021

The local newspaper "il Goriziano" published an article about the conference in July and full text can be reached at : https://www.ilgoriziano.it/articolo/sfida-energetica-centro-agenda-grado-investimento-7-milioni-22-luglio-2021

Brief summary of the article

The Island of Grado is a partner for a European project that looks at renewable energy and the creation of a virtual network. The goal is to avoid wasting energy within a network between various energy production and exploitation systems. In practice, the use of the full potential of intermittent renewable energy sources such as the sun and wind has received a helping hand from what have been called virtual power plants (VPPs).

These plants remotely collect the energy sources, distributed from different physical locations in a network which in turn distributes energy in a reliable and uninterrupted way. Islands face many challenges in terms of energy supply, demand management and energy security. The EU-funded VPP4ISLANDS project is revolutionizing conventional virtual power plants by integrating virtual energy storage technology, digital twins and distributed ledger technology, as well as creating smart energy communities on islands.

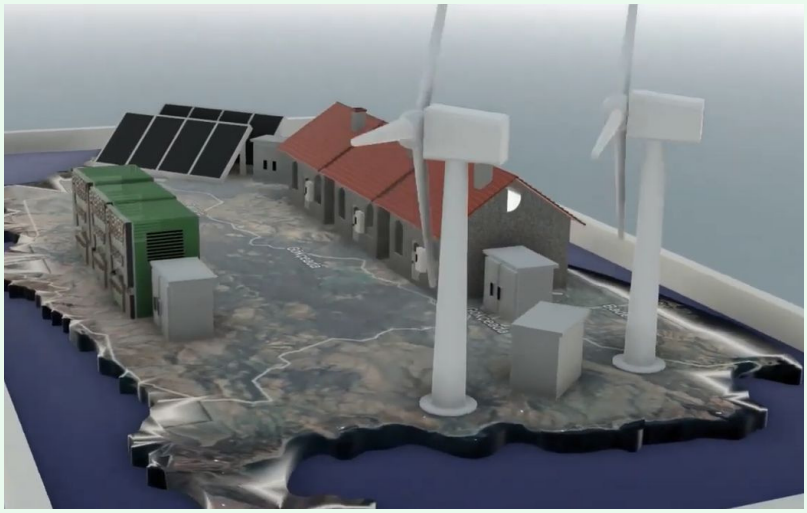
Raf Douglas Tommasi explained that "We believe that this important project can contribute significantly to make us take a step forward in the direction of sustainability. The main objective is to find what is necessary to make the project a reality, thus improving energy demand and exploitation. We will have three and a half years to implement it with a budget of 7.2 million " , of which 6.1 million from European funding in the Horizon 2020 project.

UEDAS ORGANIZED A COMMUNITY INFORMATION EVENT : '*GOKCEADA, YOUR ENERGY IS ENOUGH* '

UEDAS organized a community information event '*Gokceada, Your Energy is Enough*' to promote the VPP4ISLANDS project. It took place on the 25th June 2021 and many articles were published in the national newspapers.

The event was attended by İsmail Ergünes (Deputy Chairman of the Board of Directors of UEDAS), Gökay Fatih Danacı (General Manager of UEDAS), Mehmet Koç (Director of UEDAS Ar-Ge), Dr. Serhat Doğan (Gokceada District Governor), Ünal Çetin (Mayor of Gokceada), Dr. Hakan Can Yılmaz (Mayor of Bozcaada), Özgür Güven (Inavitas) and Melis Yılmaz (Troya Environmental Association).

During the event, UEDAS Deputy Chairman of the Board İsmail Ergünes said that 'We are very happy to participate in a project that will provide innovative solutions for renewable energy resources. The main purpose of our EU-supported project is to reduce carbon emissions, facilitate the integration of renewable energy, and accelerate transition to smart and green energy. We are establishing an energy storage facility in Gökçeada. Furthermore, the renewable power plants and generators that are currently operational on the island will be integrated into the Virtual Power Plant (VPP) system. '



'In this way, Turkey will be introduced to the innovative VPP system, which will be implemented for the first time in our country. Also, the most efficient use of energy will be ensured by integrating the renewable energy sources produced on a local scale and energy storage systems. In addition, observation of the benefits is expected to shed light to the future infrastructural work needed in other geographical islands in the region under our operation'

An informative video has been prepared by UEDAS and RDIUP that can be reached at : https://www.youtube.com/watch?v=BMcG90Upupc

bridge HORIZON 2020

REGULATION WORKING GROUP

Bridge Regulation WG was attended by three members of the VPP4ISLAND project Mehmet KOÇ, Geert JANSEN and Diego PISERA'. During the session the chairs of the of the Regulation WG, Helena GERARD (VITO) and Manolo SERRANO (ETRA) presented the results achieved within 2020 and proposal for work plan 2021.

The substantial work, in 2020, has been realized related to Harmonized Electricity Role Model, The Demo ID-Cards, Products, services, coordination models and market design. Several new topics, in the scope of new projects entering BRIDGE, were proposed during the session and added to the work plan. Topics proposed were: Network planning, energy islands; Geographical islands; System security; Dynamic pricing of system services; Service provision by E-mobility; Service provision by energy communities; Sector integration. In addition, a new way of working has been proposed, i.e.,dynamic knowledge sharing, where several workshops will be organized in the coming year todiscuss topics of relevance for multiple projects and the EC.

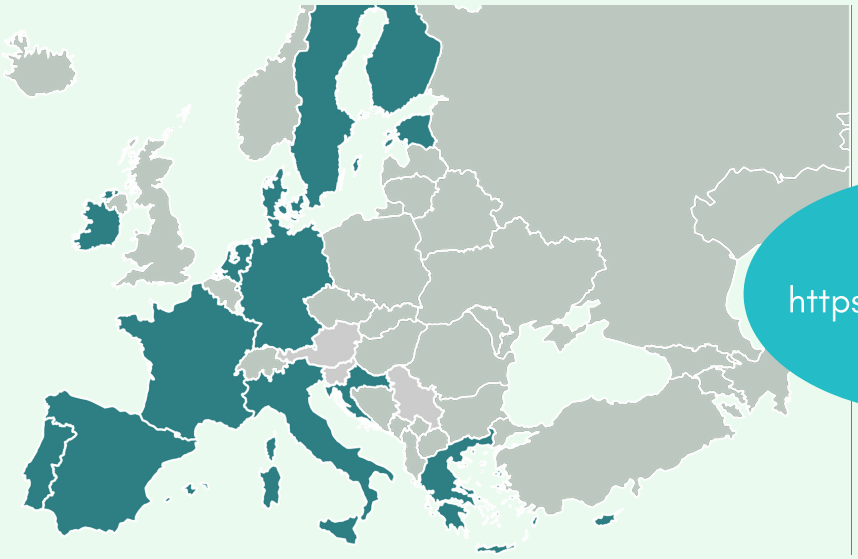
CLEAN ENERGY FOR EU ISLANDS

The Clean Energy for EU islands Secretariat aims to create a community of islands, provide a marketplace, provide technical support to islands, and analyse the legal and regulatory aspects that are important for islands in transition.

CURRENT STATE-OF-PLAY OF **CLEAN ENERGY LEGISLATIVE AND REGULATORY FRAMEWORKS**

Publicly available online database about current legislations and regulations will be available from **mid-September 2021** on the Clean energy for EU islands website. The database will make it easy for actors to find out about clean energy technologies and their implementation status in each of the 15 member states (see the map below). In addition, a two-page country specific factsheet will accompany the database.

These factsheets will provide general information on each of the member states and a summary of currently supported clean energy technologies and policies. The secretariat aims to create the database as a place where anyone can find information about the implementation of projects on a member state's islands, or details on local regulatory frameworks concerning the support of specific clean energy technologies.



https://euislands.eu

WEBINARS : ISLANDS ENERGY TRANSITION: EXPERIENCE IN H2020 PROJECTS

Series of webinars focused on the clean energy transition on islands will be held in course of September, grouping sister projects that are being funded by the EU's Horizon 2020 research and innovation program, in four separate events.

The projects involved are:

GIFT - Geographical island flexibility, GA n°824410

IANOS - Integrated solutions for decarbonisation and smartification of islands, GA n°957810

INSULAE - Maximizing the impact of innovative energy approaches in the EU islands, GA n°824433

ISLANDER - Accelerating the decarbonisation of islands' energy systems, GA n°957669

MAESHA - Demonstration of smart and flexible solutions for a decarbonised energy future in Mayotte and other European islands, GA n°957843

REACT - Renewable energy for self-sustainable island communities, GA n°824395

ROBINSON - Smart integration of local energy sources and innovative storage for flexible, secure and cost-efficient energy supply on industrialized islands, GA n°957752

SMILE - Smart island energy system, GA n°731249

The events aim to present the point of view of the principal H2020 funded projects in the framework of clean energy transition on islands, thus consolidating their collaborative approaches, meditating towards new perspectives and exploring the potential for synergies. Hence, this workshop will involve projects with more than 160 partners from all over Europe and approximately 80 million of Euros of funding.

For more information :
https://euislands.eu/node/998

Ameland, The Netherlands

Introducing Similar Islands

SIZE: 268.50 km2
POPULATION: 3,683 inhabitants
TOURISM: 550,000 – 600,000 visitors per year
INTERCONNECTION: Submarine power cable (7.4 MW)
LOCAL AUTHORITY: Municipality
ENERGY TRANSITION STATUS: Advanced

In 2015, Ameland installed the biggest solar park in the Netherlands at the time.

The most important part of the transition are the residents of Ameland, who play an important role in the development of a vision for the future. The municipality organised public meetings and included the local cooperative in the development of the island's energy plan and different projects. In June 2017 residents, energy companies and the network manager agreed to co-develop an innovative energy system, which should make the island sustainable and self-sufficient.The island's public transport system is completely electrified since 2018.

The transition team includes the municipality, the local cooperative (with over 300 members), the private sector (Eneco & GasTerra), academia (Hanze University of Applied Sciences Groningen) and more.

Source : https://euislands.eu/sites/default/files/eu_islands_good_practice_IA.pdf

VPP4ISLANDS

Introducing Similar Islands

Interview with Johan Kiewiet
Director of Amelander Energie Coöperatie UA

What is the energy requirements of your island?
More wind and solar energy to become self sufficient

Can you tell us about your renewable energy project? ? Have you faced any obstacles or problems during project? If so, how did you overcome it?
We created a solar park (3MWp) together with a battery and a conversion possibility to transfer it into H2. We need to bring in expertise.

How is the energy structure of the island in terms of official departments, energy cooperatives, NGO's, companies, other initiatives?
We have an electricity and gas grid on the island. We have one solar park (6 MWp) operating. Owned by the municipality, Eneco (energy supplier and a cooperative (AEC).

Our task is also to find out about the potential networking, joint actions and cooperation activities. Have you carried out any activities in this direction? What would you advice/suggest to our project partners?
We haven't done much networking yet but we have an open mind about sharing knowledge.

Ameland Project Report

Ameland Energy Cooperative

Solar Park Ameland

info@amelandenergie.nl

THE INTERNATIONAL ENERGY AGENCY (IEA) WILL HOST 7TH ANNUAL GLOBAL CONFERENCE ON ENERGY EFFICIENCY IN THE DANISH CITY SØNDERBORG

The conference provides an excellent opportunity to display the technologies that can lead the way in bringing down global greenhouse gas emissions. More efficient energy use will increase the security of supply and reduce the need to expand the green energy infrastructure. The International Energy Agency estimates that energy efficiency improvements will have to contribute with approx. 40 pct. of the necessary emission reductions in order to reach the UN climate goals worldwide.

Executive Director of the International Energy Agency Dr. Fatih Birol states: "The road to net zero starts with strengthening energy efficiency initiatives around the world, which are critical to reaching our energy and climate goals. There is no time to wait, we need to act now and many of the solutions are already in our hands. But governments need to make a concerted effort to use existing policies to their fullest and push the next generation of policies - to drive digital technologies, smart grids, and other key solutions. For this reason, I am delighted that Denmark is hosting our next energy efficiency conference in Sønderborg to ensure that we keep this critical issue at the very top of the global policy agenda.

Sønderborg acknowledges the crucial role of energy efficiency in achieving the climate goals in the green transition. With the vision 'Project Zero', the city works purposefully to reduce its own greenhouse gas emissions to zero by the year 2029 while creating local job growth and new, green competencies.

"With Sønderborg as the host city, Danish companies will have an ideal showcase for the world to see which first-class technologies will be used to combat climate change and reduce greenhouse gas emissions. Since the oil crises in the 1970s, energy efficiency solutions have been an important part of Danish industry's DNA. We have created a world-leading industry that is vital to global green development," says CEO Lars Sandahl Sørensen, Confederation of Danish Industry.

Ameland Project Report

Solar Park Ameland

Source : https://en.kefm.dk/news/news-archive/2021/aug/soenderborg-to-host-the-world%E2%80%99s-most-important-conference-on-energy-efficiency-

UPCOMING EVENTS

The Virtual Island Summit 2021
06.09.2021 - 12.09.2021
https://islandinnovation.co/virtual-island-summit-2021/

The conference aims to facilitate cross-sector collaboration. It will emphasize the need for input and partnerships from across the private, public, academic and NGO sectors.

World Sustainable Energy Days
2 - 4 March 2022
https://www.wsed.at/

Last event was participated by 650 experts from 62 countries.

EU Sustainable Energy Week
25 to 29 October 2021,
https://www.eusew.eu/

IThe theme 'Towards 2030: Reshaping the European Energy System'.

Inter Solar Europe Exhibition and Conference

Exhibition : October 6-8, 2021, Messe Müchen
Conference :October 6-7, 2021, CCN Müchen
For more information :
https://www.intersolar.de/home

4th International Conference on Smart Energy Systems and Technologies (SEST)

6-8 September 2021, Vaasa, Finland
https://sites.uwasa.fi/sest2021/

UPCOMING EVENTS *(Please click on the event title for more information)*

28 Sept-1 Oct 2021	6th HAEE Energy Transition Symposium
5-6 Oct 2021	Energy Transition Strategies Summit
6-8 Oct 2021	The Smarter Europe Restart 2021
21 Oct 2021	Energy Transition Forum Global Summit
19-21 Oct 2021	Energy Storage Global Conference 2021
22-23 Nov 2021	Energy Transition Europe 2021
8-9th June 2022	7th Annual Global Conference on Energy Efficiency, the International Energy Agency (IEA)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n°957852

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ESTABLISHING RENEWABLE ENERGY COOPERATIVE IN SPAIN

EU LEGAL FRAMEWORK

Clean Energy for All Europeans Package (CEP), In May 2019,

This legislation acknowledges the role citizen and community ownership of clean and renewable energy resources (RES) and aims to transform the citizens from passive consumers to active participants.

Full text can be reached at :

https://ec.europa.eu/energy/topics/energy-strategy/clean-energy-all-europeans_en

HANDBOOK IN SPANISH

Community Energy: A practical guide to reclaiming power

This handbook is a go-to guide, packed with instructions, practical tips and resources, to build a local, community-led renewable energy revolution in Europe The Spanish version can be reached at :

https://www.rescoop.eu/toolbox/community-energy-a-pracitical-guide-to-reclaiming-power-spanish-edition

Prepared by Friends of the Earth, Rescoop.eu and Energy Cities, is, Translated by Amigos de la Tierra,

BUILDING TOOL

A building tool for renewable energy cooperatives can be reached at :

http://old.iclei.org/fileadmin/user_upload/ICLEI_WS/Documents/Climate/Building_Blocks_only_blocks_fillable.pdf

Prepared by ICLEI, Local Governments for Sustainability

VIDEO GUIDE

A video with simple visuals explaining the renewable energy and the role of energy cooperatives can be found at :

https://www.youtube.com/watch?v=wwg3K_Km5ac

Prepared by Green Peace and Rescoop.eu

OPTIONS FOR FORMENTERA

HELP ISLANDERS TO ESTABLISH ENERGY COOPERATIVE	PROMOTE ALREADY-ESTABLISHED ENERGY COOPERATIVES IN FORMENTERA
Raise awareness about renewable energy, energy efficiency. Contact Renewables Union Coop and/ or other renewable energy cooperatives and organise a seminar / panel etc. in Formentera. Bring interested parties together, facilitate dialogues between local stakeholders. Share technical staff, expertise. Help the interested parties to complete necessary bureaucratic steps. Become an actual member and shareholder of the energy cooperative. Adopt specific regulations that favour the development of community-owned energy sources. For example, Barcelona made it compulsory for new and renovated buildings to supply 60% of their hot water requirements through solar energy. Promise to buy from "community-based" energy cooperatives. Share their space or grant the use of a space to energy cooperatives Become the member of The EU Covenant of Mayors, which is a network of local governments committed to EU climate and energy objectives. https://www.covenantofmayors.eu After establishment, help the cooperative to become a member of Rescoop.eu. https://www.rescoop.eu/become-a-member	There are several already well-established, successful renewable energy cooperatives in Spain. There is also **UNION OF RENEWABLE ENERGY COOPERATIVES,** which brings together energy cooperatives at municipal/regional level. More information can be obtained from: http://www.unionrenovables.coop **ENERGY COOPERATIVES** They are listed below and more information and direct links can be obtained at: http://www.unionrenovables.coop/en/partners/ • Eléctrica De Guadassuar S. Coop. V. • Cooperativa Eléctrica De Castellar • Goiener • La Corriente • Megara Energía • Cooperativa Eléctrica De Meliana • Nosa Enerxia • Solabria Renovables • Eléctrica De Sot S.C.V. • Emasp • Serrallo • Som Energia

A SUCCESS STORY

Som Energia Societat Cooperativa Catalana Limitada

Official year of establishment : 2010
Members : 6114
Renewable Energy Source(s) : Solar, hydro, biogas (summer 2013), wind (2014)

Som Energia is a young initiative that became a financially stable and strong co-operative with more than 6000 members in only two year. With a low-cost start-up and a financing model that is based on direct investments by their members.

Som Energia is Spain's first renewable energy cooperative. They sell electricity to its members, competing with the 'big' energy companies. Som Energia produces their own renewable energy with relatively small scale projects, set up close to where their members live. They started as a small initiative focused around people at the University of Girona but soon spread towards Barcelona and the rest of Catalonia.

Now almost 40% of their members live in other parts of Spain. Thirty local support groups have sprung up, holding regular town meetings to explain the business model to other interested citizens.

Their production/ consumption model was based on an already well developed and successfully functioning REScoops in northern European countries such as Belgium (Ecopower) and Germany (EWS, Greenpeace Energy).

The Som Energia cooperative is 100% owner of three limited companies. All projects are developed within these companies. Everybody invests within the cooperative, the cooperative, based on general criteria agreed on by the General Assembly, selects the projects and makes the investments. All members share in the results.

More information can be obtained from : https://www.somenergia.coop/

Source : https://www.rescoop.eu/uploads/rescoop/downloads/REScoop-Best-Practices-Report-1.pdf

AUTHORITIES IN SPAIN

Ministry for the Ecological Transition
https://www.miteco.gob.es/en/

Energy Agency
https://www.idae.es/en

Comisión Nacional de los Mercados y la Competencia (CNMC) - National Commission on Markets and Competition
https://www.cnmc.es/en

Association of Spanish producers of electricity from renewable sources
https://www.appa.es/

Consellería of energy transition and productive sectors
Govern de les Illes Balears
https://www.caib.es/seucaib/es/organigrama/6

Consell de Formentera
http://www.consellinsulardeformentera.cat/

Red Electrica de España – Electric System Operator and only Transmission grid operator
https://www.ree.es/es