VPP4ISLANDS

Virtual Power Plant for Interoperable and Smart isLANDS

VPP4Islands

LC-SC3-ES-4-2020

GA 957852

Deliverable Report

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Lead beneficiary	RDIUP		
Contributors	Habib NASSER (RDIUP), Nihed HUNT(RDIUP), Fatiha ZAOUIA (RDIUP) and the D&C activities of all partners		
Reviewer	CSIC (Pere Colet), INAVITAS (Canan korkmaz)		
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Executive Summary

The deliverable D8.2 “Communication and dissemination activities” represents the activities carried out in Task T8.2 “Communication and dissemination activities” and joint actions from T8.3 of WP8 from the H2020 project VPP4ISLANDS. In this document, detailed actions carried out to communicate about the VPP4ISLANDS results and progress will be provided in relation to all WPs. RDIUP worked closely with all partners to support them in preparing their materials and events and provided the templates for the presentations. Well-designed documents were designed and created by RDIUP to create a unique visual identity for our consortium. Deliverable D8.2 intends to reach the following goals:

- Preparing communication materials for all partners
- Creating and moderating social media
- Disseminating the results and findings of VPP4ISLANDS
- Building a specific community interested in our project
- Increasing the awareness about the benefits of the decarbonisation of European Islands
- Informing key stakeholders about the VPP-base energy transition
- Supporting the co-creation of the energy communities and replication activities

Concretely, this deliverable D8.2 intends to maximize the impacts of the technical and scientific developments and ensure the continuity in the post-project through joint actions, collaboration and right networking to support the sustainability of the project. Interactions of these actions with other technical WPs will be detailed and highlighted in this document. In this direction, various potential discussion and brainstorming meetings were carried out between RDIUP and key contributors to analyse their actions.

In sections 1&2, this document introduces our D&C methodology and goals to be reached. Section 3 presents the logo and the visual identify of VPP4ISLANDS. The target groups are detailed in section 4. Then, the key activities carried out to broadcast publicly our results are provided. A specific section 6 is devoted to highlight the scientific productions established by the whole consortium. Moreover, we introduce the collaborations and joint actions initiated with similar projects and the overview of the impacts of D&C actions on the audience. Finally, conclusions and annexes are given respectively in section 8 and section 9.

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1. Introduction:

The dissemination is the information sent out and received, in interaction with target audiences. The message carrier sends out information, not to one individual, but many in a broadcasting system. An example of this transmission of information is in conferences, journals, and public deliverables. Communication is the act of sharing and receiving information through a variety of media to various individuals. Communication is the transfer of information from our project to target groups. The information transferred must be understandable to the receiver.

Therefore, VPP4ISLANDS will develop significant activity to maximize the project's impact. Dissemination and communication activities are closely linked to each other, targeting effectively specific audiences. VPP4ISLANDS dissemination activities will ensure wide reaching impact and use of project methodological, business, and technological outcomes among different stakeholders' categories (scientists, experts, researchers, policymakers, communities, society at large, etc.). The VPP4ISLANDS dissemination, in synergy with communication and exploitation, is an impact-driven and consists of two steps with a view to **reach, engage and synergize** key target audiences and stakeholders, maximizing the potential short-term outcomes and long-term impacts of the project and the wide scale roll-out of projects' Key Exploitable Results (KERs). The two steps consist of:

- **Awareness-oriented step**: The aim of this phase is to create visibility and raise awareness among all relevant stakeholders during the project's duration. It comprises mainly of communication activities, i.e. creating a project logo and project website, disseminating first project findings, designing promotion materials, organizing and participating at project-related events.
- **Results-oriented step**: During this phase, which covers almost duration of the project, sharing knowledge and findings elaborated within the project will be the main goal. Activities within this phase include the publication of papers in scientific journals, participation at related conferences, working groups and events and active involvement of the stakeholders and end users in workshops, information days, and the project's demo phases. This phase includes disseminating the project's scientific results.

2. Objectives of the dissemination and communication activities

The core objective of WP8 is to manage and implement effective, strategic dissemination and communication activities with the aim to increase awareness, stimulate acceptance and fostering uptake of the VPP4ISLANDS solutions, facilitating knowledge transfer towards and supporting further uptake at EU and global level. An integrated impact-driven approach will be adopted through a multi-stakeholder and multi-channel strategy. More specifically WP8 will aim to:

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- Develop a Communication and Dissemination (D&C) Plan to design and manage an effective D&C strategy implementation at European and National level and guarantee public and professional/technical coverage to enable widespread uptake of the project's outcomes;
- Define a clear Project Identity, enabling the establishment of dedicated communication channels and formats, targeted to the addressed stakeholder communities and the general public.
- Raise public awareness on the actions and the achievements of the project through the implementation of an impact-oriented public communication strategy, targeting TV channels, online information multipliers, press and online magazines through tailored formats.
- Organize public events that bring the project and the participating researchers closer to society, showing the certain impact of the different risk factors.
- Redact the VPP4ISLANDS guidelines and participate in the definition of further policies related to the integration of the developed solutions.
- Measure the impacts of the developed communication and dissemination activities through the intelligent use of outreach data, quantitative performance indicators and key qualitative assessments.
- Enable smooth communication and knowledge sharing among the consortium project partners.

Furthermore, VPP4ISLANDS mobilises its networks (e.g., EFFRA\HEPEX, GEWEX\WMO, EUMETSAT, EUMETNET, Prostep IVIP, Mittelstand 4.0, REScoop.eu, SPIRE, GPSEO, FrenchFab, etc. …) with key stakeholders and associations to distribute news and content through their channels and possibly participate in major events organised under their sponsorship. VPP4ISLANDS received interest from various actors across Europe in the tools provided by the consortium. By networking and discussing with the European and national associations and platforms, VPP4ISLANDS consortium partners will further increase the sphere of influence and promotion of the project's objectives and final results.

Also, **clustering, joint actions and cross-fertilization activities** will be carried out to exploit synergies for the benefit of the project. VPP4ISLANDS partners are involved in relevant hubs, clusters and agencies which will promote the outcomes and results of this project. The table below showcases the key goals and timeline of the dissemination and communication activities.

Table 1: Dissemination and communication goals

<table>
<tr><th>Timeline</th><th>Y1</th><th>Y2</th><th>Y3 and half</th><th>Post-project</th></tr>
<tr><td rowspan="2">Key stakeholders involved in the co-creation</td><td colspan="4">Goal 1 : increase awareness and visibility of VPP4ISLANDS project</td></tr>
<tr><td>Goal 2: better understand barriers and needs</td><td>Goal 3 : identify KERs and assess them via workshops and partnerships</td><td>Goal 4 : share results and business potential</td><td>Goal 5 : Increase TRL, Go-to-Market, exploitation of results and create new business opportunities</td></tr>
<tr><td rowspan="3">Tools</td><td colspan="4">VPP4ISLANDS website, emailing and communication materials</td></tr>
<tr><td colspan="3">Interviews, focus groups and workshops</td><td>Face to face meetings, whitepapers</td></tr>
<tr><td colspan="4">Cross-fertilisation, seminars, conferences and events</td></tr>
<tr><td rowspan="2">Society at large</td><td colspan="3">Goal 6: engage and ensure social implication and adhesion</td><td rowspan="2">Goal 8: Continue raising visibility and awareness</td></tr>
<tr><td colspan="3">Goal 7: share public results through networks</td></tr>
<tr><td rowspan="2">Tools</td><td colspan="3" rowspan="2">Website, social media, promotional videos, workshops</td><td>APPs, VPP4IPlatform</td></tr>
<tr><td>Communication materials</td></tr>
</table>

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3. VPP4ISLANDS Logo and visual identity

Visual identity is what's used to express those “physically or on the outside” such a logo designs, project colors, typography and photography. The project visual identity has been implemented at the beginning of the project. The **project logo** was initiated by ALWA and improved by RDIUP, graphic elements, infographics, animated GIFs, cards and images, templates for presentations and reporting were designed by RDIUP according to the project’s values, key messages, and characteristics. The design of all the communication materials complies with the visual identity. A communication pack has been produced to support exploitation and branding of the whole solution, including flyers and poster, technical documentation, documented case studies, and presentation and exhibition materials. Branding and training materials will also consider this visual identity to engage with customers/users. Our strategy for the visual identity in based on the following principles:

- **Suitable**: Are the visual elements well-suited to the target audience? Make sure each visual design associated with VPP4ISLANDS goals is appropriate for a particular audience, purpose, or situation.
- **Distinct**: Ensure that the visual identity differentiates itself from other projects, while also standing out in the minds of target audience. Is it recognizable? Will stakeholders remember it?
- **Simple**: Good designs are uncomplicated and easy to understand, keeping it simple promotes clarity.
- **Timeless**: While visual identities should be somewhat flexible and adaptable, they need to evolve with a project progress. Devise a visual identity that will endure and stay relevant over time.
- **Functional**: Can it be easily reproduced for every medium? Remember that our visual assets will be used across digital, print and interior spaces. The proposed visual identity should allow for this.

The project logo intends to represent VPP4ISLANDS through a visual image that can be easily understood and recognized. As illustrated in the Figure 1, two main logo versions were defined. Many formats were generated for the transparent logo such as PNG, JPG, SVG and EPS.

Figure 1: The logo versions

The final logo reflects the concepts and the objectives of VPP4ISLANDS that aim to decarbonize the European islands (green color) based on the VPP-based energy assets (red color) through digital and energy modeling systems (Icon).

4. Target audience

The table below summarizes the target audiences, information needs, key messages and expected impacts and defines appropriate tools and materials to reach them. During the VPP4ISLANDS development phase, the main target groups are in the following table:

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Table 2: target audiences, key messages and impacts

Target audience	Details	Key messages	Expected impacts, KPIs
Islands	Interconnected and non-interconnected islands	Our solutions decarbonize islands by reducing CO2 emissions	Involve at least 5 additional islands (mainly via DAFNI)
Energy Communities	Cooperatives, REC, CEC	Increase independency and self-consumption	To co-create at least two ECs and involve more than 5 ECs
Existing projects	Projects funded under ES-8, ES-5, EC-3	Define strong twinning and common strategic goals.	2 joint actions and Better coordination for a successful project.
Academic partners	Students, Researchers, Universities and RTOs interested in VPP.	Establish strategic ties with academic institutions. Share knowledge and findings.	Establish knowledge transfer and at least two collaborations.
TSO/DSOs, aggregators and other	Local and European DSO/TSO, utilities, ESCOs, retailers.	We offer flexible ancillary services. Our solution reduces intermediaries.	Extend our knowledge base and motivate them to use our platform.
Hardware, Technology and Service Providers	Software developers, IOT providers, smart meters, connected devices and Cloud-based solution providers.	Possibility to collaborate and enhance our ICT-tools.	Identify new solutions and keep the consortium informed about innovations.
DRES and ESS and Integrators	Micro CHP, hydropower, Wind turbines, EV charging, Controllable charging, PV installations, Flywheels, and qualified integrators.	Our technologies are performant and easily integrated.	Convince them to join our project and integrate our technologies. Test new combination of storage.
Power spot markets	Electricity market mainly EEX, EPEX, EXAA	Introduce our new concepts	Identify new markets and trading strategies
Regulators and policy makers	CRE, The Council of European Energy Regulators (CEER), Energy Regulators Regional association (ERRA); GOVs	Participate in decision makings and standardization vision	Suggest at least two policies and define regulations and protocols.
Investors in renewable energy	Banks and financing institutions (LFIs) business angels, startups, and individual investors	Main message: Our technologies are profitable and durable.	Identify new funds and challenge our business models.

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Society at large	Public, young generation, communities	Awareness on the benefits of the research and the social impacts of deployment of various renewable energy systems.	Improve the social concern and collective knowledge about the benefits of deployment RES.

5. Communication and dissemination mid-term activities

The measures to maximise the impact of VPP4ISLANDS is mainly based on two pillars:

(1) Dissemination aims to reach a specific audience that is well informed about topics related to VPP, the reduction of CO2 emissions, etc. to inform about (technical) results and expected impacts of the project. This encompasses industrial end-users, retailers and distributors of technologies, entities specialized in RES storage, integrators, DSO/TSO and RES producers, VPP4ISLANDS consortium and Advisory Board, governments, institutes, academia and universities, investors, influential bodies, policy makers, societal stakeholders and associations in the RES and Grid fields.

(2) Communication aims to reach the society at large and the broad public. It addresses the citizens of regions close to industrial areas and the respective workers/employees of the VPP4ISLANDS demo sites but also any other audience group interested in the broader topic. The goal of the VPP4ISLANDS communication activities is to inform a broad audience that is directly or indirectly affected by the project and to improve the social acceptance of VPP4ISLANDS solutions.

Thanks to the extensive network of the consortium to diverse European and international platforms, networks and initiatives, the success of the dissemination and communication measures are ensured. This roadmap is elaborated and continuously reviewed and updated during the project as part of D8.2. “Dissemination & Communication Activity Report”

5.1 Website

The website www.vpp4islands.eu was designed by AMU (subcontractor), implemented and launched in M4. The website will be used as the VPP4ISLANDS primary online communication channel and as the main interface towards different target audiences. All partners will actively collaborate in providing content for the website as well as post information on their websites in the national languages.

This involves designing and creating a dynamic website for the VPP4ISLANDS project. The main objectives of the site are:
• Highlight the project and highlight its added value.
• Inform about the project and consolidate its visibility with stakeholders and the public.
• Pool resources and disseminate project results.

As illustrated in the Fig. 2, the website includes 8 sections, as follows:
- A brief description of the consortium and recent news
- A detailed description of the project (ambitions, concepts and impacts)
- The composition of the consortium and brief introduction of partners and Advisory board
- A description of the five use cases (leading and follower islands)

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- The objectives of work packages (WPs)
- An updating of dissemination and communication activities of VPP4ISLANDS
- A map of the consortium and contact information
- And, the contributions of consortium in various events, videos and newsletters

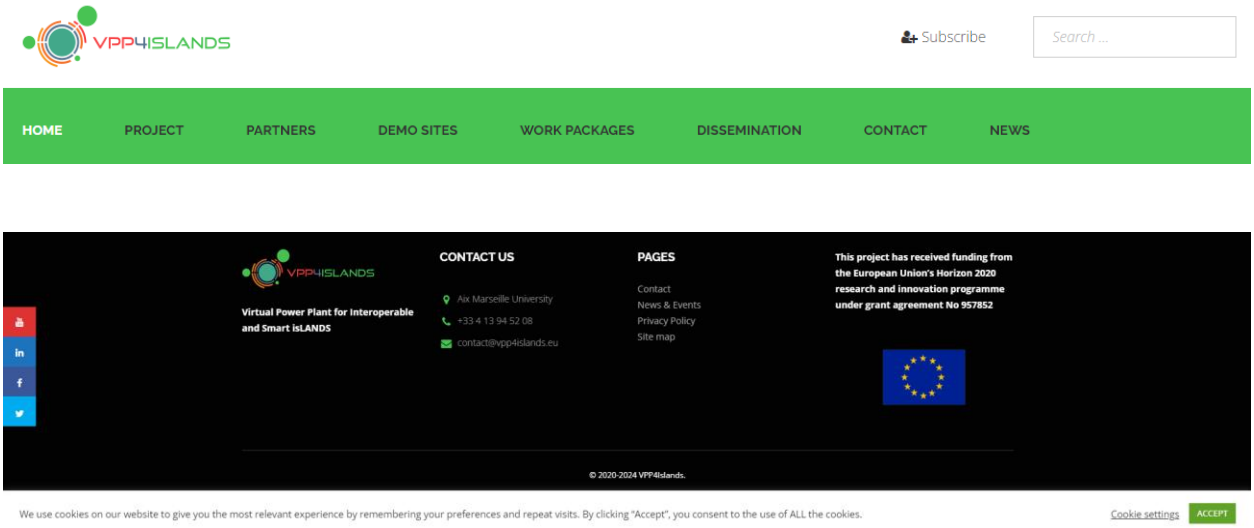

Figure 2: Menu bar and footer of the website

Moreover, the website footer introduces the sitemap, displays clearly the VPP4ISLANDS logo and the EU emblem; includes important information about the grant and notifies a popup to accept cookie according to the GDPR guidelines (see Fig. 2).

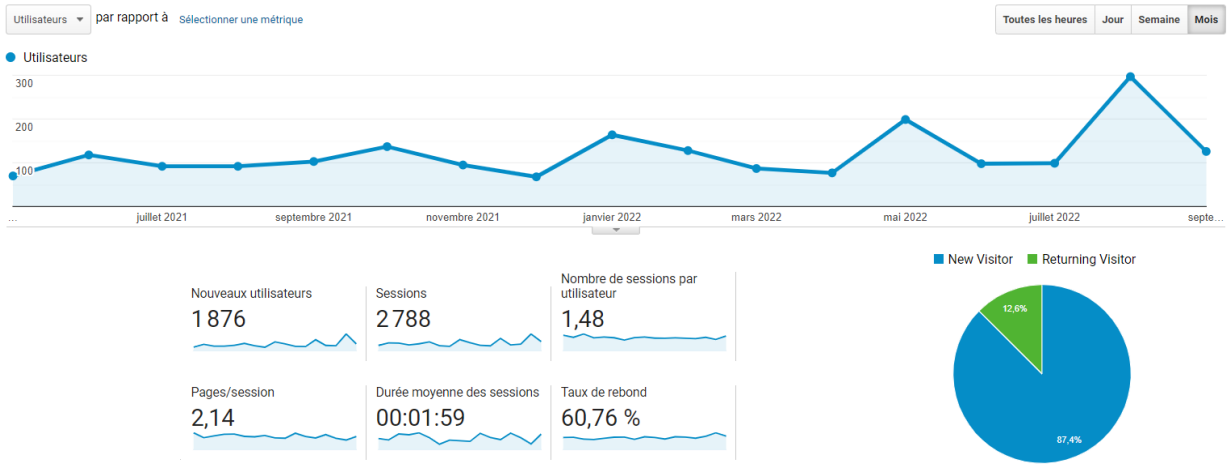

Figure 3: Statistics of the website

The Fig. 3 shows that the visits and audience of the website is increasing clearly thanks to the efforts done by all partners and to the materials published on the website.

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Through the hosting of the website (OVH), RDIUP is updating more than 10 mailing lists of all WPs and groups. To maximize the visibility of our website, RDIUP has applied for the competition https://webawards.eurid.eu. Also, to increase the referencing and indexing of the website, VPP4ISLANDS through the participation in this EU web awards 2021 has received good rank.

5.2 Communication materials

Also, a specific task in WP8 will ensure the communication strategy with VPP4ISLANDS and the consortium to create an attractive story for this amazing project. The consortium will exploit the virtual tools and platform developed in WP6 to attract stakeholders and indifferent actors. Also, this task will catch the attention of the public and industries at large with the promotional audio-visual digital materials (shared photos, infographics, brochures, newsletters, virtual info-days, webinars, TV/radio interviews and video animation). It will be available at the beginning of the project and reviewed each year.

Figure 4: Public access to the communication documents

As shown in the Fig. 5 and according of the visual identify, RDIUP has provided communication materials (e.g. brochure, flyer) to introduce partners and offer means to be used d. These well-designed materials are used by partners to communicate about the key objectives and expected outcomes of VPP4ISLANDS (see annex section)

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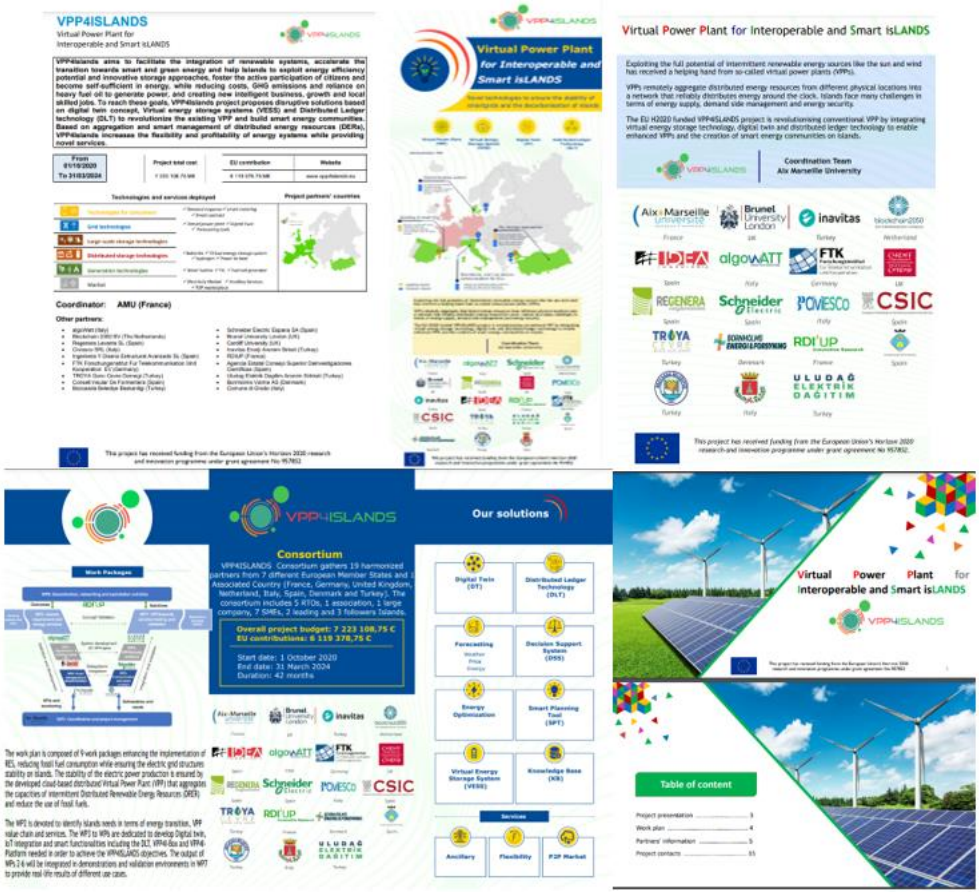

Figure 5: Overview of the communication materials

These materials shown in Fig. 5 (mainly roll-u and depliant) were widely printed by partners and distributed in events and with local stakeholders in order to increase the impacts of VPP4ISLANDS and enhance its notoriety.

5.3. Social media activities

VPP4ISLANDS generates many public communications in social media. In particular figures 6 & 7 and table 3 show the four social media created and monitored by RDIUP. Partners are also actively involved by reacting and sharing the posts and news.

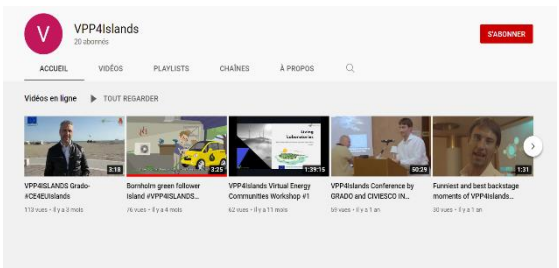

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Figure 6: YouTube and Twitter pages

Figure 7: LinkedIn and Facebook pages

Table 3: List of social media links

Social media	**Link**	**Number of followers**
Facebook	https://www.facebook.com/profile.php?id=100063786204892	78
LinkedIn	https://www.linkedin.com/company/vpp4islands/?viewAsMember=true	275
Twitter	https://twitter.com/vpp4islands	54
YouTube	https://www.youtube.com/channel/UC6R59Vkxwt5_A0eCxPDu6Aw	20

The table 3 provides the number of followers on each social media. Specific efforts are needed for the Twitter and YouTube pages to reach out more audiences. The Fig.8 presents examples of posts and news published to communicate about key results.

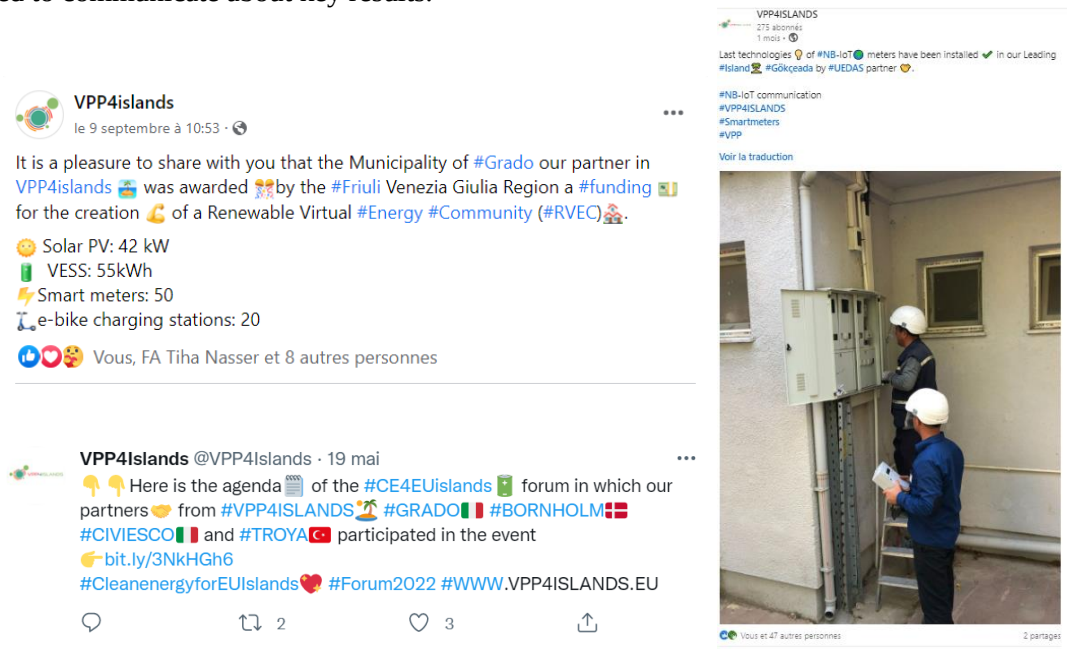

Figure 8: Examples of posts in our social media

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The communication task includes activities based on a clear identity, centered around creative tools and in connection with relevant existing social media such as Facebook, You tube, Twitter, and LinkedIn. Based on selective techniques, the communication strategy focuses on enhancing the interaction between all partners and key stakeholders to facilitate the transfer and the exchange of information and knowledge related to innovative technologies in the RES sector. Good communication strategy is a key factor for successful projects and ensuring clear understanding, knowledge sharing and innovation spreading to the project.

Table 4: Indicators of the communication activities

Communication activities	**Partner Responsible**	**Communication indicators**
Website and platform	RDIUP, all partners	More than 20,000 website visitors. Also, all partners will communicate the project results through their websites.
Mobile phone videos	All partners, RDIUP support	More than 6 short mobile phone style videos were created and published at social media to explain VPP4Islands activities
Postcards & Rollups & Giveaways	RDIUP, all partners	Distribution of at least 100 postcards; 10 Rollups and Giveaways regularly used at events (e.g. AMU and GRADO).
Flyer	RDIUP,	Distribution of at least 500 flyers by the end of the project.
Social Media & Videos	RDIUP, all partners	More than 220 posts were defined and published.
Newsletters	RDIUP, all partners	4 newsletters were published, more than 50 newsletter subscribers. They introduced the ongoing activities related to VPP4Islands.

5.4. Public newsletters

At this stage, four newsletters (see annex) were designed and published by RDIUP, as follows:

- Newsletter 1[1]: It introduces the project and kick-off meeting. Also, it announces the inauguration of the website and the selection in the BRIDGE activities.

- Newsletter 2[2]: It presents the GA meeting and ORE platform for open access publication. Moreover, it highlights the publication carried by FTK and the activities carried out by VPP4ISLANDS in the four working groups.

- Newsletter 3[3]: It presents the implication of VPP4ISLANDS in different activities and events, it highlights a success story in turkey and provides the upcoming events to be addressed by key partners.

[1] http://vpp4islands.eu/wp-content/uploads/2021/08/VPP4Islands_Public_Newsletter_April_2021_1.pdf
[2] http://vpp4islands.eu/wp-content/uploads/2021/08/VPP4Islands_Public_Newsletter_June_2021_2.pdf
[3] http://vpp4islands.eu/wp-content/uploads/2021/12/VPP4Islands_Public_Newsletter_December_3.pdf

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- Newsletter 4[4]: It introduces the roadmap defined by VPP4ISLANDS to create energy communities, the book written mainly by our consortium and the joint actions initiated with REACT and Sol impact projects.

5.5. Short promotional Videos

During the project realization, short promotional videos (see Fig. 9) were designed and created for three Islands: Gökçeada from Turkey, Gardo from Italy, and Bornholm from Denmark. These videos are widely shared in our social media and YouTube to improve the visibility of our project and attract new audiences. These videos present mainly the problems addressed by VPP4ISLANDS, the main objectives and expected impacts on the islands (e.g. energy accessibility, CO2 footprint reduction and renewable share). Mainly UEDAS, GRADO, Gökçeada, RDIUP, CIVIESCO and TROYA contributed to the creation of these animated materials.

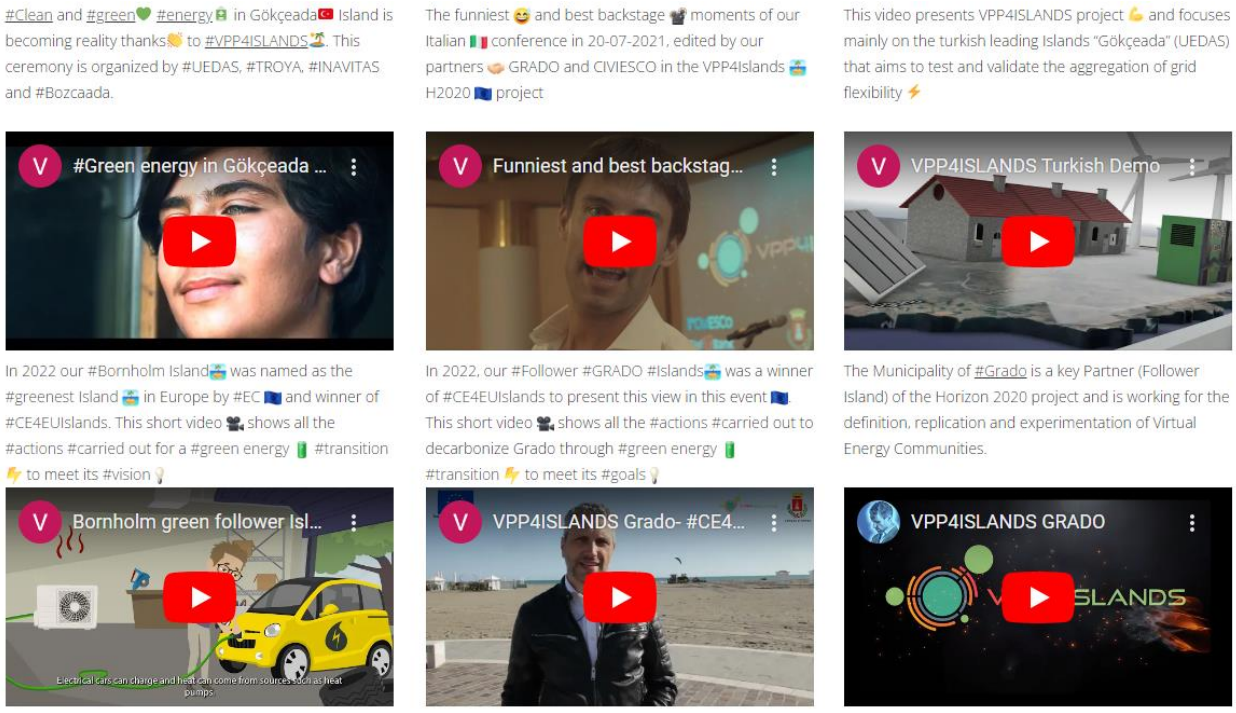

Figure 9: Short promotional videos

Table 5: Short descriptions of the videos

Videos	Description & partner
Gökçeada Island	It provides the energy assets already installed in the leading Gokçeada Island in Turkey with the implication of society at large[5]
Italian conference	Backstage moments of the local conference organized by the Italian cluster from VPP4ISLANDS[6]

[4] http://vpp4islands.eu/wp-content/uploads/2022/03/March-22-VPP4ISLANDS-Newsletter-VF.pdf
[5] https://www.youtube.com/watch?v=vb0g3rBZWsk
[6] https://www.youtube.com/watch?v=tW4wFMPeTs8&t=3s

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Turkish demo	It highlights the turkish demo to be carried out in WP7 with small-scale proof of concept created by UEDAS[7]
BOEF CE4EUIslands	It introduces the energy portfolio in the follower Bornholm Island and showcases the impact of VPP on the CO2 reduction[8]
Grado Island CE4EUIslands	It presents the Grado island variable consumption caused by tourists and how VPP will respond to this behavior by balancing between day production and night consumption[9].
Grado follower Island	It introduces the progress of the replication and experimentation of VPP in the follower Island[10].

5.5 Workshops and training activities

RDIUP has defined a roadmap for the different training sessions and workshops to be carried out by FTK, TROYA, ALWA, Schneider Electric, Cardiff University, BEOF, IDEA, UEDAS and AMU. Moreover, RDIUP prepares communication materials for these events, invites participants and follows the progress, the dissemination and the impacts of these activities.

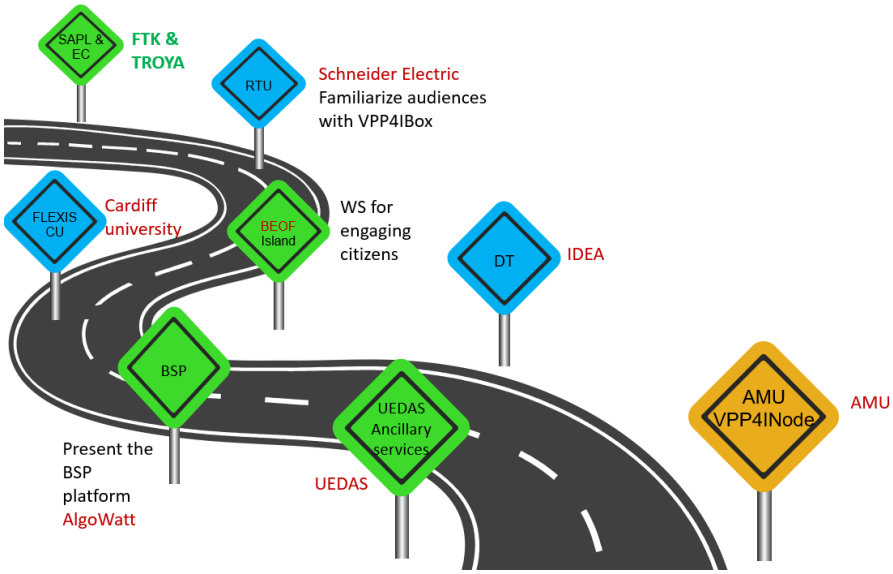

Figure 10: Roadmap training and workshops activities

At this stage, three activities were carried out by FTK, ALWA and TROYA about SAPL tool, EC co-creation and LIBRA CE software, as follows:
Two public SAPL training sessions were organized by FTK in order to explain the utilization and integration of SAPL tool. The course contains 5 lessons: Lesson 1: Access Control Goals and

[7] https://www.youtube.com/watch?v=BMcG90Upupc
[8] https://www.youtube.com/watch?v=lAnWhv3LDkE&t=3s
[9] https://www.youtube.com/watch?v=Xx3rjkdXtl8
[10] https://www.youtube.com/watch?v=9BaVP0CfnGU&t=633s

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Terminology Lesson 2: Access Control Models, Lesson 3: ABAC Access Control Mechanisms, Lesson 4: ASBAC and SAPL Fundamentals and Lesson 5: Applying ASBAC and SAPL.
Moreover, In this EC workshop, we showcased the difference between the energy communities (ECs) and energy cooperatives and examining existing smart tools in this field. Moreover, AlgoWatt presented the software LIBRA CE offered for ECs and SAMSO Energy Academy has testified their success story. Also, the workshop intends to:

- Describe the activities related to energy communities that are being carried out in VPP4ISLANDS
- Present the steps to establish energy communities in Islands
- Introduce the utility of living labs to co-create sustainable solutions

Also, we start preparing the workshop for the RTU to be carried out by Schneider Electric.

Figure 11: TROYA workshop and SAPL training

5.6. Events and meetings

As illustrated in the table below, several partners from VPP4ISLANDS have participated and organized various meeting and events in order to represent our VPP4ISLANDS project.

Table 6: VPP4ISLANDS's events

Events	Key partners	Description
RESCOOP	TROYA	TROYA participates yearly in RESCOOP meetings and presents its success stories to promote energy communities co-creation (See Figure 12)
Flexibility	RDIUP, ALWA	RDIUP and ALGOWATT have participated in the public WEBINAR Flexibility 2.1: From Demand Response to Renewable Energy Communities. March 15, 2021
BRIDGE	TROYA, ALWA, RDIUP,	Dr. Seifeddine BEN ELGHALI (Project Coordinator from AIX Marseille University) has presented the consortium, the objectives, the solutions, and the impacts of the project during the "Day 1:

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	UEDAS, FTK and BC2050	Plenary" of the BRIDGE GA. He has also introduced the key synergies and possible contributions linked to the activities of H2020 BRIDGE. RDIUP, ALWA, BC2050, FTK, UEDAS and TROYA have participated in the four WGs to facilitate the uptake of technologies and accelerate the exchange of information, experience, lessons learned, knowledge and best practices with other members.
ETIP	ALWA	VPP4ISLANDS project has been selected by ETIP SNET as an outstanding project in the field of "Market Based Energy Systems" . 13th ETIP SNET regional workshop was held on the 9th November and Diego Piserà (AlgoWatt) presented the VPP4ISLANDS project during the "Decarbonizing EU islands" session
GREEN SALINA ENERGY DAYS	ALWA	The 4th Salina Green Energy Days took place in Sicily from September 9 to 12, 2021. ALGOWATT presented the objectives and the solutions to be developed by VPP4ISLANDS project during the event "Accelerating the energy transition in the minor islands". More information about the Algo Watt's activity (In Italian): https://bit.ly/3IngFIk
SEST21	AMU	AMU participated in the 4th International Conference on Intelligent Energy Systems and Technologies (SEST'21) and introduced VPP4ISLANDS through the panel at the SEST'21 conference. The panel took place on September 8, 2021. The slides presented on the conference can be obtained at[11] .
TEDx	Grado	Raf Douglas Tommasi (GRADO) spoke about Virtual Renewable Energy Communities at TEDx Udine Countdown 2021. He explained how "to spread the knowledge we are creating within the Horizon2020 VPP4Islands project in GRADO and in the European Union, so we can all give our contribution to lower the carbon footprint" while saving money. Here the YouTube link for the TEDx UDINE talks 🎙: https://www.youtube.com/watch?v=nmo2K2mhjgk
AEIT	ALWA	AlgoWatt have presented VPP4ISLANDS project in two workshops organized by AEIT[12] this two workshops is ENERGY MANAGEMENT, FLEXIBILITY OF RESOURCES AND SYSTEM RESILIENCE: PROJECTS AND PERSPECTIVES".
InterSolar	TROYA	TROYA participates in InterSolar to increase the visibility of VPP4ISLANDS, carry out networking and identify collaborations with industries.
EUSEW	RDIUP, REGE, TROYA	RDIUP, REGE and TROYA have participated in the EUSEW discussions, circulated feedback across the consortium and attended mainly the following sessions: (a) Renewable Energy Communities to Boost the Energy Transition, (b) Climate Services are key elements for the energy transition, and (c) Electric Vehicles and the Future of the Power System
CE4EUISLANDS	BOEF, GRADO,	In the CE4EUislands forum, our partners from VPP4ISLANDS GRADO, BORNHOLM, CIVIESCO and TROYA participated in

[11] https://vpp4islands.eu/wp-content/uploads/2021/09/SEST-conference-2021.pdf
[12] https://www.aeit.it/aeit/r02/struttura/init.php?web=baloo

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	CIVI, TROYA	the event https://bit.ly/3NkHGh6 A proud candle to our partners, Grado and Bornholm following their participation in the Clean energy for EU Islands competition CE4EUislands forum 2022, their videos have been selected and broadcasted
Turkish conference	UEDAS, TROYA, Inavitas	UEDAS, TROYA, INAVITAS and Bozcaada have organized a ceremony about the green energy in Gokçeada. Also, VPP4Islands project has been selected as a success story by TUBITAK, Scientific and Technological Research Council of Turkey[13] .
Italian conference	CIVI, Gardo	GRADO and CIVIESCO have organized a public conference in July and September 2021 in Grado (Italy), and broadcasted live on VPP4ISLANDS Facebook. During the events, The H2020 project VPP4Islands project was presented and the benefits of energy communities were discussed, especially to maximize the penetration of renewable energy resources in the Grado Island .
Marseille internal Meeting	All partners	Partners have met in Marseille in order to assess the progress of WPs and define a roadmap for the upcoming activities in May 2022

Figure 12: TROYA's success story

At REScoop.eu, success stories are usually highlighted, in order to further accelerate the movement towards a cleaner and democratic system. In April 2021, RESCOOP visited Troya Energy Cooperative (see Fig. 12) in Turkey, as they have an inspiring story to share with us about the power of women in the energy sector. It is a story of hope in a country where women's rights are currently at stake amidst a tumultuous public and political debate.

[13] https://ufukavrupa.org.tr/en/success-stories/virtual-power-plant-interoperable-and-smart-islands

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6. Scientific productions

VPP4ISLANDS partners have published a book "Virtual Power Plant Solution for Future Smart Energy Communities[14]" about the impacts of VPP on the co-creation, sustainability and the extension of energy communities. This book delivers a review of VPP as a key solution for ECs facilitating the automated participation in energy activities. It also intends to provide improved practices, indicators, business models and novel architecture of VPPs in the real settings.

Table 7: List of chapters published by VPP4ISLANDS

Partners and editors	Chapter	Description
R. Garner, G. Jansen, Z. Dehouche (Brunel University)	Chapter 4: Renewable Energy Community VPP Concept Design and Modelling for Sustainable Islands	A model of a community-driven virtual power plant (VPP) concept is proposed to be used to increase the visibility of DER and provide grid support services and flexibility, as well as promote the continual increase in renewable energy usage and additional revenue to participants.
Ehsan Heydarian-Forushani, Seifeddine Ben Elghali (Aix Marseille university)	Chapter 5: A Comprehensive Smart Energy Management Strategy for TVPP, CVPP, and Energy Communities	This chapter presents appropriate models for optimal energy management within a VPP that could be a technical VPP (TVPP), a commercial VPP (CVPP) or an energy community. The effectiveness of the presented models has been validated.
Saif S. Sami, Yue Zhou, Meysam Qadrdan, Jianzhong Wu (Cardiff University)	Chapter 6: Virtual Energy Storage Systems for Virtual Power Plants	In this section, a smart energy management paradigm, called a virtual energy storage system (VESS), is presented to address these challenges and support the cost-effective operation of future power systems. The VESS concept is defined first, followed by discussions about the related enabling technologies, control schemes, possible applications and potential benefits.
Nikos Bogonikolos, Entrit Metai, Konstantinos Tsiomos (Blockchain 2050)	Chapter 7: Centralized and Decentralized Optimization Approaches for Energy Management within the VPP	This chapter proposes and seeks out an innovative way of reducing the hassle of the management aspect by introducing blockchain-enabled solutions and smart contracts functionalities for RES and energy storage and management.
Habib Nasser, Dah Diarra (RDIUP)	Chapter 11: Complementarity and Flexibility Indexes of an Interoperable VPP	This paper presents a review of the main research topics revolving around the optimization of portfolio and proposes an interoperable API that estimates key metrics for VPPs. Particularly, we present a complementarity index that calculates the level of VPP components synergy based on the correlation between different energy systems and a flexibility

[14] https://doi.org/10.1201/9781003257202

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		factor which computes the capability of a VPP to maintain balance between generation and load during uncertainty.

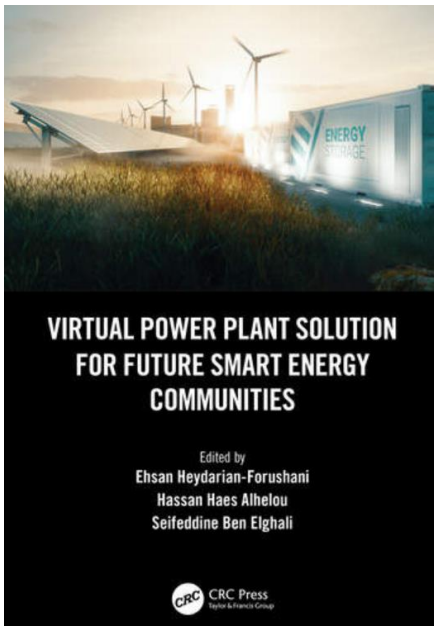

Figure 13: The book "Virtual Power Plant Solution for future smart energy communities"

Table 8: Table of scientific publications

Type	Title	Authors	Openness
Publication in Conference proceedings	In-Memory Policy Indexing for Policy Retrieval Points in Attribute-Based Access Control[15]	Dominic Heutelbeck, Marc Lucas Baur, Martin Kluba	Gold
Publication in Conference proceedings	A Centralized-Stochastic Solution for Smart Energy Management in a Virtual Power Plant[16]	Ehsan Heydarian-Forushani; Seifeddine Ben Elghali; Mohamed Zerrougui; Massimo La Scala; Pascal Mestre	Green
Article in Journal	High-performance pseudo-anonymization of virtual power plant data on a CPU cluster[17]	Mahdi Abbasi, Azam Fazel Najafabadi, Seifeddine Ben Elghali, Mohamed Zerrougui, Mohammad R. Khosravi, Habib Nasser	Gold
Publication in	Data Analysis of	María Martínez-Barbeito, Damià	Green

[15] https://doi.org/10.1145/3450569.3463562
[16] 10.1109/EEEIC/ICPSEurope51590.2021.9584773
[17] https://doi.org/10.1007/s10586-021-03526-7

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Conference proceedings/Workshop	Frequency Fluctuations in the Balearic Grid Before and After Coal Closure[18]	Gomila, Pere Colet	
Article in Journal	Virtual Power Plants Optimization Issue: A Comprehensive Review on Methods, Solutions, and Prospects[19]	Wafa Nafkha-Tayari; Seifeddine Ben Elghali; Ehsan Heydarian-Forushani; Mohamed Benbouzid	Gold
Article in Journal	An Auction-Based Local Market Clearing for Energy Management in a Virtual Power Plant[20]	Ehsan Heydarian-Forushani , Seifeddine Ben Elghali , Mohamed Zerrougui, Massimo La Scala , and Pascal Mestre	Gold
Article in Journal	Virtual Power Plant Operational Strategies: Models, Markets, Optimization, Challenges, and Opportunities[21]	Mohammad Mohammadi Roozbehani ,Ehsan Heydarian-Forushani,Saeed Hasanzadeh and Seifeddine Ben Elghali	Gold

The table 8 presets the key scientific publications of our consortium. Moreover, our partner Brunel-University-London (BUL) has participated via a poster from 22 to 24 September 2021 in a research conference at the UK International Conference "Evolving-Cities". BUL presented a poster titled "Solar PV and hybrid energy storage Virtual Power Plant for smart energy communities". The poster can be reached at[22] :

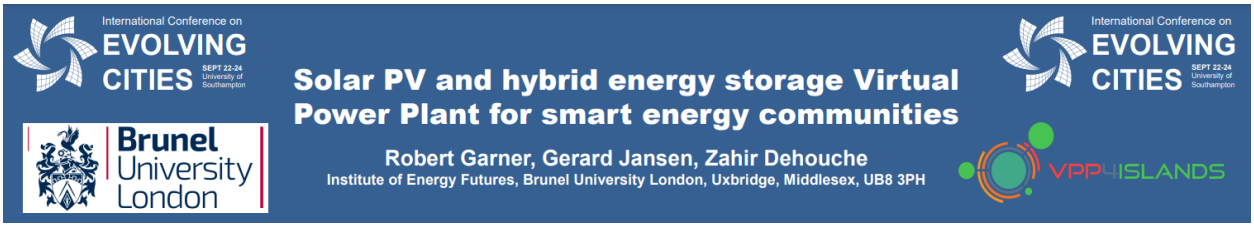

Figure 14: The poster presented by Brunel university in evolving cities

7. Joint actions with similar EU-funded projects

[18] https://doi.org/10.3390/en15103607
[19] https://doi.org/10.3390/en15103607
[20] 10.1109/tia.2022.3188226
[21] 10.3390/su141912486
[22] A0 Portrait Poster Template (vpp4islands.eu)

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Our VPP4ISLANDS consortium is defining joint actions (e.g., joint deliverable, short video, shared datasets, policy, training, workshop, and replication activities) with other funded H2020 projects. #RDIUP and AMU from VPP4ISLANDS are building harmony and trustful, together with REACT and SOCLIMPACT projects, working groups to define joint dissemination plan through the platform Horizon Results Booster (HRB)[23].

A first MODULE A: Identification and creation of the portfolio of R&I project results" is created through these joint actions. Supported by HRB, SOCLIMPACT, IANOS, ROBINSON, VPP4ISLANDS and MAESHA have taken the first step towards forming a Project Group (PG) based on commonalities between their work in this research field.
HRB supports effective transfer of research and innovation project results to policy makers, industry, and society by offering various services as dissemination, exploitation strategy and business plan development to projects supported under the 7th Framework Programme (FP7) or Horizon 2020 funding schemes. A document "D1.1 Portfolio of Research and Innovation Project Results of De-Carb" identifies (See Fig. 15) the collective results of the Project Group to be disseminated, their characteristics and the target stakeholders that can benefit from these results and are ultimately the target audience for the Project Group dissemination activities.

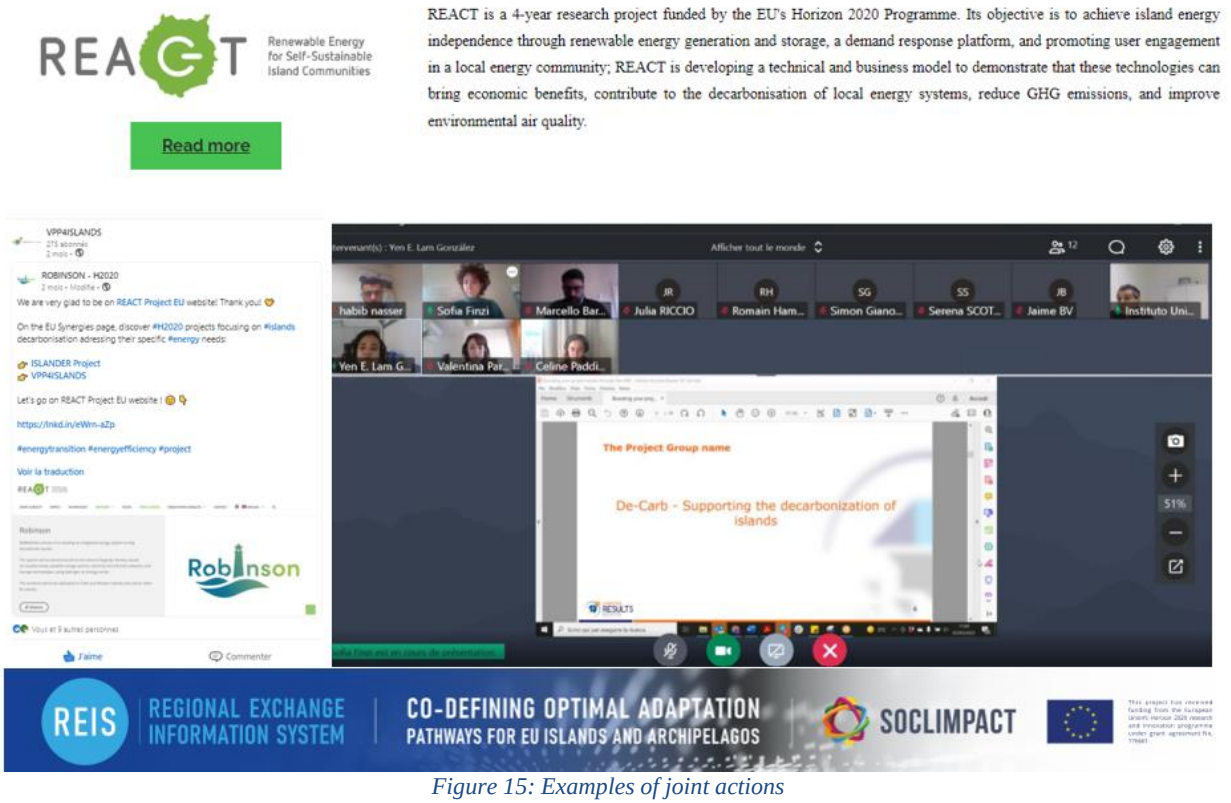

Figure 15: Examples of joint actions

Moreover, SOCLIMPACT invited VPP4ISLANDS to be part of the expert panel of the Regional Exchange Information System. REIS (https://reissoclimpact.net/) aims to provide information and advice

[23] https://workspace.horizonresultsbooster.eu/node

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services on climate change to the EU islands. Another joint application between RDIUP from VPP4ISLANDS and Comet Technology from REACT project under Policy Conference programme of EUSEW 2022. The application contains the following activities:

- Presentation of VPP4ISLANDS (RDIUP)
- Drivers for co-creation of REC (with a focus on policy support) (RDIUP)
- Presentation of REACT (Comet)
- Empowerment of citizens to adopt renewable energy systems (Comet)
- Policy recommendations (RDIUP)

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8. Monitoring of communication and dissemination activities

Dissemination and communication activities																					
	1 - AMU	2 - ALWA	3 - SCHN	4 - BC2050	5 - BUL	6 - REGENERA	7 - CU	8 - CIVI	9 - INAVITAS	10 - IDEA Ingenieria	11 - RDIUP	12 - FTK	13 - CSIC	· UIB	14 - TROYA	15 - UEDAS	16 - FORM	17 - Bornholms Varme	18 - BOZI	19 - GRADO	
Specify the total funding amount used for Dissemination and Communication activities linked to the project																					
Total Funding Amount																					0
Specify the number of Dissemination and Communication activities linked to the project for each of the following categories																					
Organisation of a Conference																1				2	3
Organisation of a Workshop											1				1			1			3
Article	2			1	1		3				2										
Press release																					0
Non-scientific and non-peer-reviewed publication (popularised publication)																					0
Exhibition																					0
Flyer																					0
Training												1									1
Social Media		7		2		19	5	3	3	11	**220**						3	2		25	300
Website		5	8	4							**65**										82
Communication Campaign (e.g. Radio, TV)																					0
Participation to a Conference	3				1		1	2				1	3		5					3	19
Participation to a Workshop		5									2				2						9
Participation to an Event other than a Conference or a Workshop				1			1				1				1						4
Video/Film															1	3		1		4	9
Brokerage Event				1																	1
Pitch Event																					0
Trade Fair																					0
Participation in activities organised jointly with other EU project(s)											2										2
Other																					0
Specify the estimated number of persons reached, in the context of all dissemination and communication activities,in each of the following categories																					
Scientific Community (Higher Education, Research)	550	100	50	258	100	200	400	500	100	100	3100	100	60		500			200		1100	7418
Industry		59	50			100				30	600	50	100								989
Civil Society																		300			300
General Public		6350	200	3000		2000	600		200	500	37000	100	29044		1000		200	1400		23804	105398
Policy Makers																					0
Media																					0
Investors																					0
Customers																					0
Other				7770																	7770
																				Total	121875

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9. Conclusions

VPP4ISLANDS communication and dissemination strategy is based on 5 pillars that aims to: 1) ensure reaching the project predefined KPIs 2) guarantee an optimal visibility of the project and its results, 3) Increase the awareness about our solutions and the knowledge that produces. These pillars are:

1. Broadcast the project research finding to scientific communities
2. Disseminate project objectives and results to major industrial stakeholders
3. Communicate with major policymakers and public organizations
4. Create collaborations and JVs with similar projects and exchange knowledge
5. Guarantee public awareness

In order to reach our objectives and the predefined pillars, VPP4ISLANDS partners:

a. Created the project website and its visual identity (logo, graphic chart, templates …)
b. Defined VPP4Islands target groups
c. Enlisted most relevant channels to reach these target group
d. Created dedicated channels for VPP4Islands in most common social media network (Twitter, LinkedIn, YouTube, Facebook …)
e. Made sure that at least one partner is representing our project in related seminars, conferences, webinars …
f. Defined specific KPIs for dissemination and communication activities evaluation

The real value of a project cannot be measured only by its objectives and results but also by its impact on the appropriate target areas as well as its capacity to be sustained and developed beyond this project. VPP4Islands developed a high level dissemination and exploitation plan. The D&C activities are maximizing the impact for an action which seeks to coordinate and integrate the work and aspirations of different sectors at distinct levels. To correctly inform actors at local, regional, national, European and international levels, VPP4ISLANDS project partners establish a series of mechanisms which promote and efficiently inform of its actions designed to result in the appropriate targets. Moreover, it supports the creation of awareness, consensus and a subsequent political, social, economic and technical continuity. Knowledge transfer and experience exchange is of the highest importance.

The publication of scientific papers resulting from VPP4ISLANDS research and innovation activities are mainly open access. Publications in leading journals create potential benefits (project promotion, notoriety and credibility). Therefore, most papers arising from this project were published in a free-to-access peer reviewed journal and can be shared through ResearchGate. However, this can be restricted by some contracts imposed by large scientific editors. Finally, any communication activities related to the VPP4ISLANDS project (including in electronic form, via social media, website, platform, soft grasper etc...) and major results funded by the grant:

- Display clearly the VPP4Islands logo and the EU emblem;
- When displayed together with another logo, the EU emblem must have appropriate prominence
- Include the following important information: “This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement Number 957852“

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Annexes

Annex 1: Living lab roadmap

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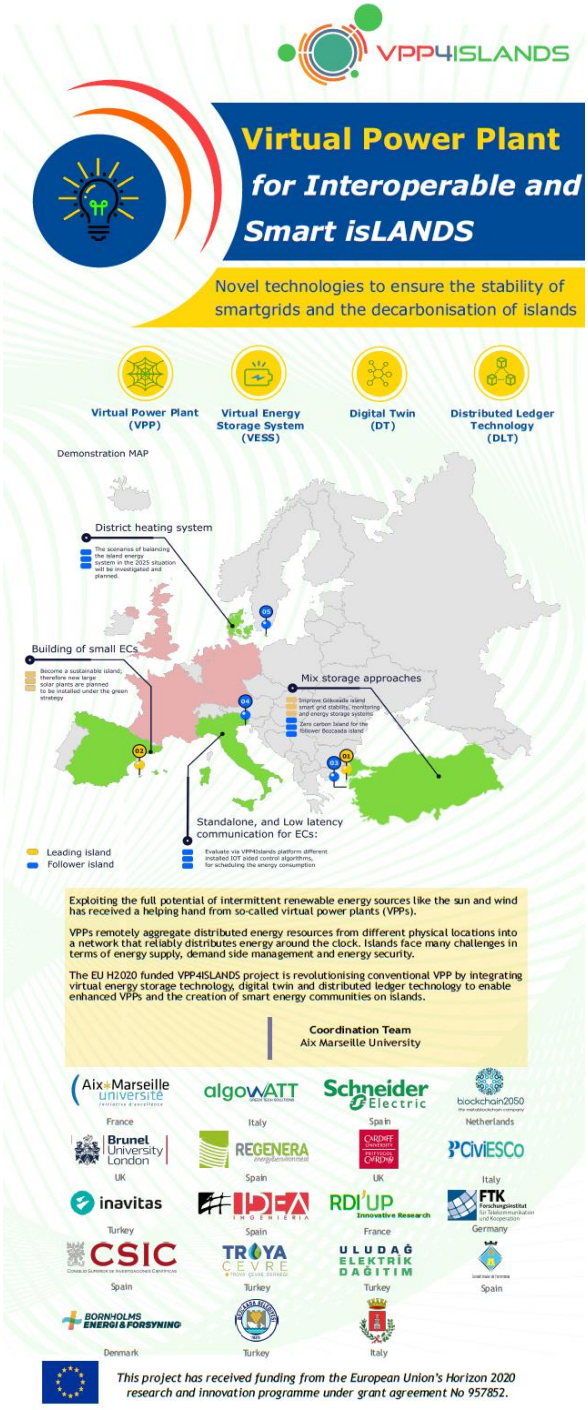
Annex 2: VPP4ISLANDS roll-up



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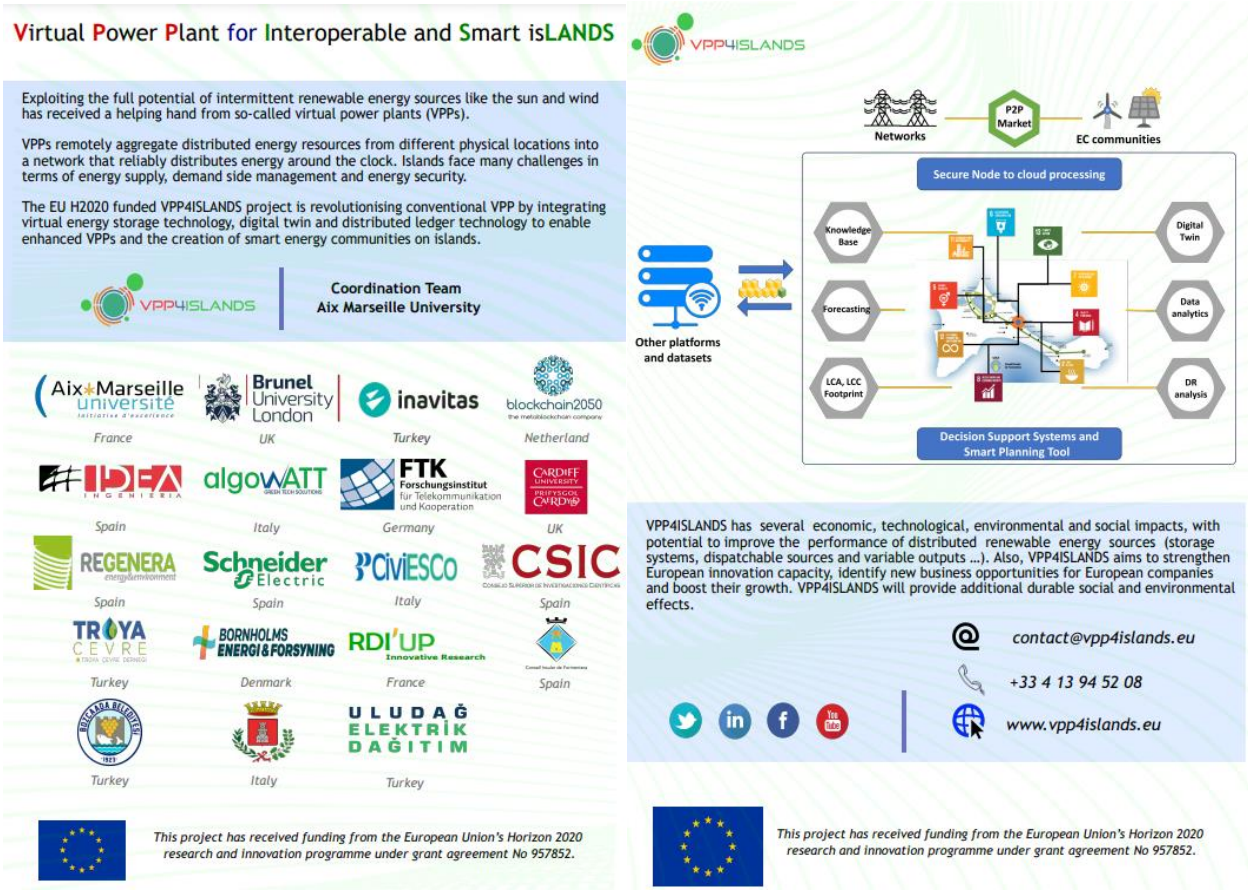
Annex 3: VPP4ISLANDS flyer



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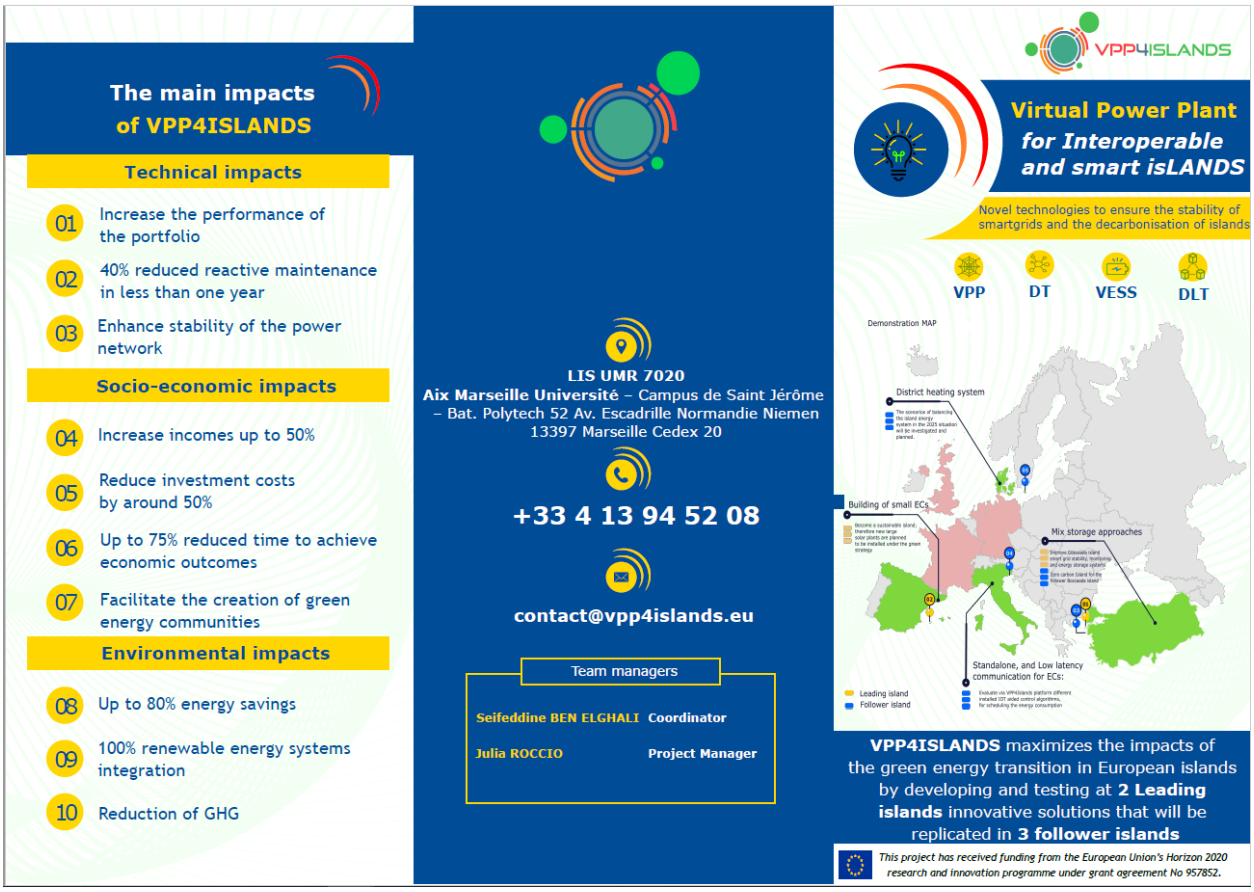
Annex 4 : VPP4ISLANDS depliant



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Annex 5: Public Newsletter 1

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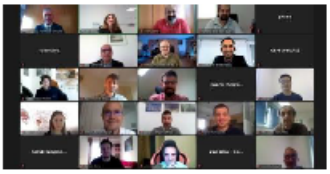
Public Newsletter April 2021 # 1

News, Events and networking activities

The aim of this public newsletter is to broadcast our events and boost our networking, joint actions and cooperation activities. It provides key information about events and news related to our VPP4ISLANDS project.

VPP4ISLANDS was officially launched

We are proud to announce that the #VPP4ISLANDS (virtual) kick-off meeting organized by Aix-Marseille University took place on 22 and 23 October. All partners were represented to make this great project successful. The two-days event has been a great opportunity for partners to get to know each other as well as to discuss the work to be done throughout the project lifetime.



Project information

Overall project budget: 7 223 108,75 €
EU contributions: 6 119 378,75 €

Start date: 1 October 2020
End date: 31 March 2024
Duration: 42 months

contact@vpp4islands.eu

Official project website just launched

The project website is available online ! It will be the main source of information about the project available to the target audience and the wider island community, and it will be maintained at least three years after its completion. It contains all relevant information, project results and publications, which are available for download. On the www.vpp4islands.eu website it is also possible to subscribe to the project newsletter in order to receive news and updates relevant for the project.

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Annex 6: Public Newsletter 2

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Public Newsletter July 2021 # 2

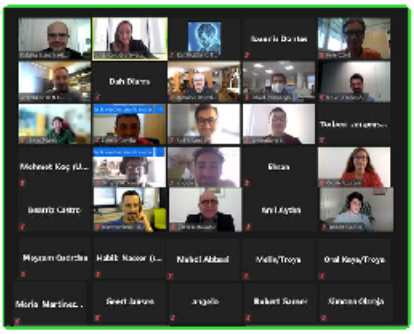
News, Events and Networking activities

The aim of this public newsletter is to broadcast our events and boost our networking, joint actions and cooperation activities. It provides key information about events and news related to our VPP4ISLANDS project.

Table of content

General Assembly

At #M10, after works; research; collaborations; partnerships and efforts, comes our first # General Assembly 💪 of the # H2020 # VPP4ISLANDS 🏆 project which will be held on July 6, 2021. It was chaired by Seifeddine Ben Elghali as scientific coordinator and Julia Riccio as project manager of the #AMU coordination team and assisted by the representatives of the partners.
The General Assembly is the ultimate decision-making body of the consortium, approving decisions regarding the implementation of the project, as prepared and presented by the Strategy Council.



Dissemination obligations and strategy

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 we 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, and policy recommendations.

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Annex 7: Public Newsletter 3

Public Newsletter December 2021 # 3

News, Events and Networking activities

The aim of this public newsletter is to broadcast our events and boost our networking, joint actions and cooperation activities. It provides key information about events and news related to our VPP4ISLANDS project.

VPP4ISLANDS activities

Italian cluster conference

GRADO and CIVIESCO have organized a public conference in July and September 2021 in Grado (Italy), and broadcasted live on VPP4ISLANDS Facebook. During the events, The H2020 project VPP4Islands project was presented and the benefits of energy communities were discussed, especially to maximize the penetration of renewable energy resources in the Grado Island.

Full video of the conference can be reached at:
https://www.youtube.com/watch?v=9BaVP0CfnGU&t=630s

Funniest and best backstage moments of our Italian conference, edited by our partners GRADO and CIVIESCO
https://www.facebook.com/104584588165808/videos/939546949947072

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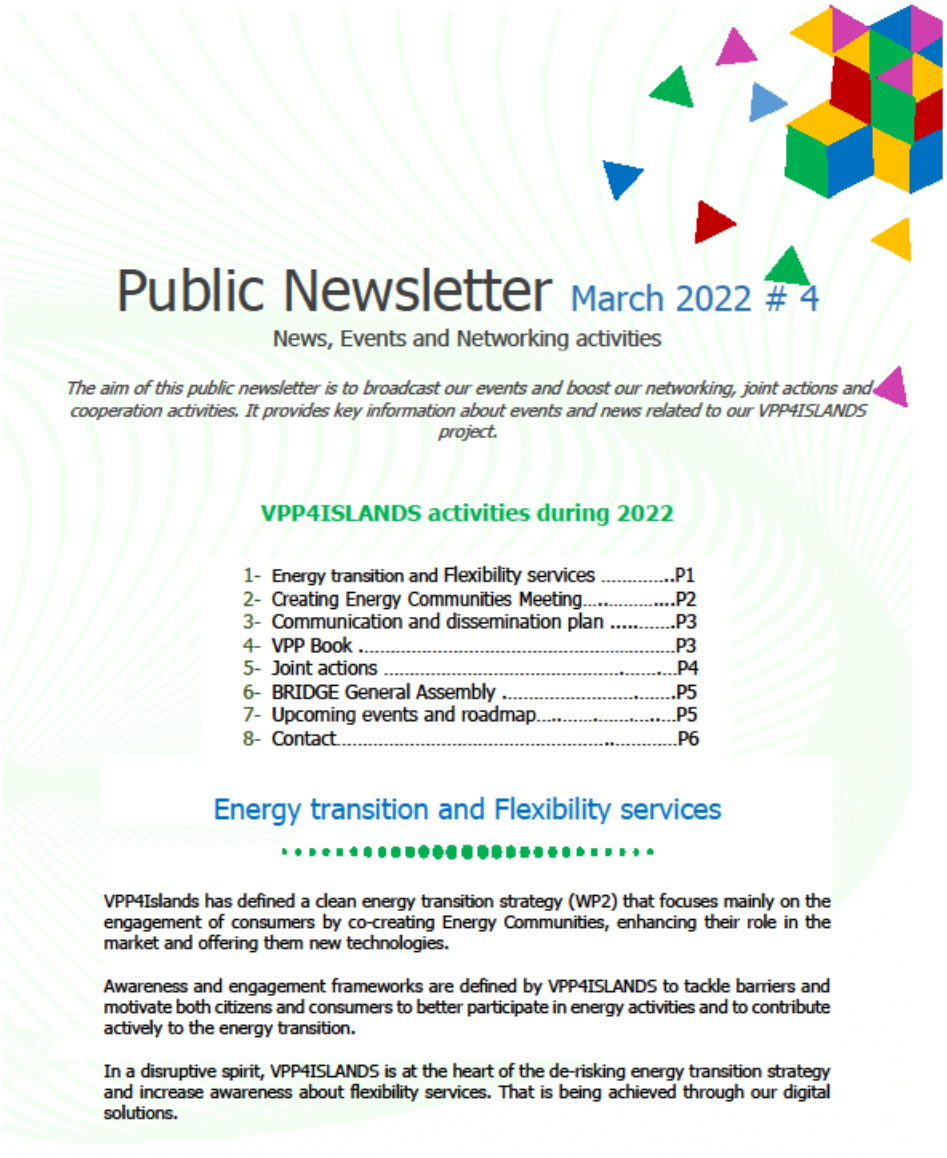
Annex 8: Public Newsletter 4



VPP4ISLANDS

Public Newsletter March 2022 # 4

News, Events and Networking activities

The aim of this public newsletter is to broadcast our events and boost our networking, joint actions and cooperation activities. It provides key information about events and news related to our VPP4ISLANDS project.

VPP4ISLANDS activities during 2022

Energy transition and Flexibility services

VPP4Islands has defined a clean energy transition strategy (WP2) that focuses mainly on the engagement of consumers by co-creating Energy Communities, enhancing their role in the market and offering them new technologies.

Awareness and engagement frameworks are defined by VPP4ISLANDS to tackle barriers and motivate both citizens and consumers to better participate in energy activities and to contribute actively to the energy transition.

In a disruptive spirit, VPP4ISLANDS is at the heart of the de-risking energy transition strategy and increase awareness about flexibility services. That is being achieved through our digital solutions.

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