

Public Newsletter#6

October 2023

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 till October 2023

1- General Assembly Meeting 🇪🇸	P2
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General Assembly Meeting 🇪🇸

[VPP4ISLANDS](#) 🌴 Consortium convened its second [#GeneralAssembly](#) 👤 Meeting hosted by [Consejo Superior de Investigaciones Cientificas](#) (CSIC) in [#Palma](#) 🇪🇸 on March 14th and 15th, 2023.

The [VPP4ISLANDS](#) 🌴 team shared the key progress and outcomes of this meeting on its social media channels. You can find the detailed agenda 📝 of the meeting here 👉 [Agenda GA March2023 Palma¹](#).

The meeting included discussions on administrative matters, Reporting Period 2 and the notable progress achieved across our various Work Packages.

Day one of the GA saw [#SCHNEIDER](#) provided an update on the progress in Work Package 6 focusing on VPP4islands platform development. While [#UEDAS](#) offered insights into Work Package 7 which centres on VPP4ISLANDS solution testing and Validation. Notably, [RDIUP](#) delivered an overview of their endeavours in Work Package 8, emphasizing Dissemination, Communication, and Exploitation of results.

Day Two of the Assembly was dynamic, featuring presentations by each partner on the VPP4IBox Node Platform.

Our second [#GeneralAssembly](#) 👤 was a resounding success 🎉 reaffirming our strong collaboration with our [#partners](#) in [#Palma](#) 🇪🇸



¹ https://vpp4islands.eu/wp-content/uploads/2023/03/Agenda_GA_March2023_Palma.pdf

Review Meeting 🇧🇪

The first phygital review Meeting 🧑 organised by [VPP4ISLANDS](#) Consortium and graced by the presence of our Project Officer 🧑, took place successfully in [#Brussels](#) 🇧🇪 on 27th June 2023.

Kicking off the meeting, our scientific coordinator provided an insightful project overview setting the stage for the day's discussions. Each of our [#partners](#) presented the progress within their respective Work Packages ⭐

The outcomes of our First Review Meeting 🧑 fulfilled our expectations 🧑 For a detailed glimpse into the meeting's [#Agenda](#) 🖋️ please visit this link [Agenda_RM_June2023_Brussels²](#) 👉

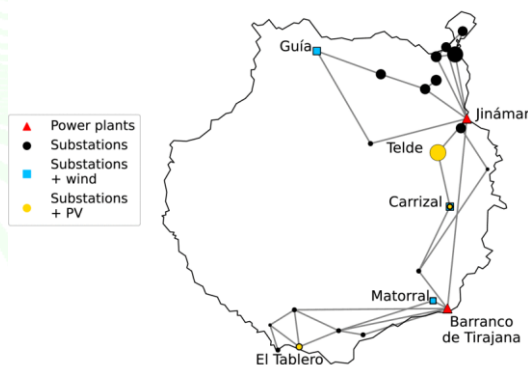




² https://vpp4islands.eu/wp-content/uploads/2023/06/Agenda_ReviewM_27June2023_Brussels.pdf



VPP4ISLANDS D&C actions

Scientific Productions

“Dynamical Model for Power Grid Frequency Fluctuations: Application to Islands with High Penetration of Wind Generation”






 Explore this captivating Open Access Paper brought to you by [#IFISC \(CSIC-UIB\)](#) from [VPP4ISLANDS](#) 

This paper is a must-read for anyone passionate about the future of power grids and renewable energy. Where CSIC characterizes the frequency fluctuations and proposes a method to estimate the control needed to keep frequency deviations within reasonable limits. Dive into the intriguing details  here 

<https://ieeexplore.ieee.org/document/100151913>

“Virtual Power Plant Operational Strategies: Models, Markets, Optimization, Challenges, and Opportunities”

 Discover this fascinating Open Access Paper published by [#AMU](#) from [VPP4ISLANDS](#)  It's a must-read for anyone with a passion for energy innovation and optimisation .

This paper discusses an overview of the basic challenges of VPPs, including control and communication issues, electricity markets, its different models, and energy management issues.

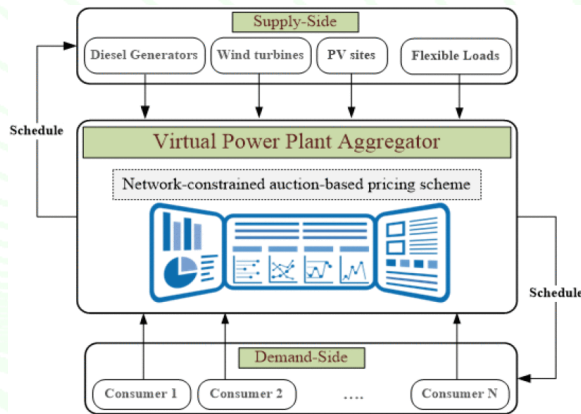


Dive into details here  [MDPI VPP OperationalStrategies⁴](#)

³ M. Martínez-Barbeito, D. Gomila and P. Colet, "Dynamical Model for Power Grid Frequency Fluctuations: Application to Islands With High Penetration of Wind Generation," in *IEEE Transactions on Sustainable Energy*, vol. 14, no. 3, pp. 1436-1445, July 2023, doi: 10.1109/TSTE.2022.3231975

⁴ Roozbehani, M.M.; Heydarian-Forushani, E.; Hasanzadeh, S.; Elghali, S.B. Virtual Power Plant Operational Strategies: Models, Markets, Optimization, Challenges, and Opportunities. *Sustainability* 2022, 14, 12486.

"An Auction-Based Local Market Clearing for Energy Management in a Virtual Power Plant"



📖 Embark in a journey through Energy Management ⚡ with this innovative Open Access Paper published by [#AMU](#) under our [VPP4ISLANDS](#) 🌴 Project 🌱 For those with a passion for shaping the future of Energy Efficiency, this paper is a gateway to a world of possibilities.

Uncover the details here 👉

<https://ieeexplore.ieee.org/document/9813578> ⁵

👁️ Pleasant reading 👁️

ICEER 2023 Conference 🎤

🌟 Magic at [ICEER 2023](#) 🌟

Brunel University London (BUL), one of our esteemed partners made a remarkable appearance at the [10th ICEER 2023](#) Conference held in [Madrid](#) 🇪🇸 from October 7 to 9 📅

[Aziz Shwareb](#), representing [#BUL](#) took the spotlight and captivated the audience with a visionary presentation on hydrogen fuel cell hybrid storage systems. [Aziz Shwareb](#) shared the groundbreaking results achieved by [VPP4ISLANDS](#) 🌴 in revolutionising [#Formentera](#)'s energy storage system 🌱



🌟 It was a moment of innovation and inspiration that shone at [ICEER 2023](#) 🌟

<https://doi.org/10.3390/su141912486>

⁵ E. Heydarian-Forushani, S. Ben Elghali, M. Zerrougui, M. La Scala and P. Mestre, "An Auction-Based Local Market Clearing for Energy Management in a Virtual Power Plant," in IEEE Transactions on Industry Applications, vol. 58, no. 5, pp. 5724-5733, Sept.-Oct. 2022, doi: 10.1109/TIA.2022.3188226.

Workshops

✨ Exploring the Future at [Cardiff University](#) ✨




[VPP4ISLANDS](#) , powered by [Cardiff University](#) recently orchestrated a dynamic [#Workshop](#) focusing on Data Centres.

🇪🇺 The aim to foster close-knit collaborations between industrial and academic [#partners](#) 🤝 and ignite the spark of innovative research ideas 💡 that promise exciting opportunities ahead!

A this [#Workshop](#), [Seifeddine Ben Elghali](#) from [#AMU](#) took the stage 🎤 presenting a session titled "*Unlocking Efficiency: Spotlight on Current Projects for Demand-Side Flexibility Services*". It was a moment of enlightening insights and collaborative spirit that defined this [#Workshop](#) 🍌

✨ Unlocking [VPP4ISLANDS](#)  concept: A Triumphant Workshop! ✨






[#AlgoWatt](#), [#RDIUP](#) and [#AMU](#), the driving forces behind [VPP4ISLANDS](#) , joined hands to host an enlightening [#Workshop](#) where they unveiled the 3 foundational layers of our concept:

- [#VPP4IBOX](#)
- [#VPP4INode](#)
- [#VPP4IPlatform](#)

This workshop marked a tremendous success, unveiling the heart of our innovation and setting the stage for a promising future 🍌

Webinars

[VPP4ISLANDS](#)  Consortium is always exploring new horizons with engaging [#Webinars](#)  We are actively participating in an array of insightful [#Webinars](#)  organised by the [OpenADR Alliance](#), covering various subjects such as [#smartgrid](#), [#decarbonisation](#), [#interoperability](#) and [#flexibility](#).

For a wealth of knowledge and inspiration, we invite you to access all the recorded sessions through the following link

👉 <https://www.openadr.org/webinar-series>



OpenADR Webinar Europe - UK

September 12, 2023



TV

🌟 Spotlight on [VPP4ISLANDS](#) : A TV appearance to remember! 🌟



[Victor Fabregat](#), a representative from our partner organisation [#REGENERA](#) within the [VPP4ISLANDS](#)  consortium, had the honour of presenting our project on IB3 Notícies, a prominent television news channel .

🇪🇺 To catch a glimpse of our project's impact, watch the concise yet enlightening video feature [here](#) 👉

<https://www.youtube.com/watch?v=uBr01ST7K5k>

Radio 📻

Our partner [#AlgoWatt](#), shared valuable insights during their discussion with [Ràdioilla Formentera](#) 📻 on how [VPP4ISLANDS](#) 🏝️, along with Shelly devices, plays a pivotal role in driving the transition towards green energy solutions ⚡🌱

🔊 Discover how we are shaping the future of sustainable energy 🌱 Tune into the Podcast 🎧 to discover more 👉

[RadioillaFormentera shelly-el-dispositiu-gratuit-que-ajuda-a-estalviar-llum-i-que-podem-instalar-acquests-dies-a-les-nostres-llars-de-formentera](#)



RADIOILLAFORMENTERA.CAT

Shelly, el dispositiu gratuït que ajuda a estalviar llum i que podem instal·lar aquests dies a les nostres llars de...

Smart Planning Tool Promotion Video 🎥



YOUTUBE.COM

Smart Planning Tool (VPP4ISLANDS)

A smart APP developed by RDIUP in close collaboration with Brune...

[#RDIUP](#) and [#BUL](#) from [VPP4ISLANDS](#) 🏝️ consortium, prepared a compelling animated promotion video 🎥 that showcases the versatility and impact of our [Smart Planning Tool \(SPT\)](#). This [#innovative](#) solution is poised to revolutionise clean energy ⚡ transitions across at least 3 follower Islands 🏝️ We invite you to explore our video created by [#RDIUP](#), and discover how the SPT is driving the shifts towards a sustainable energy landscape 👉

<https://www.youtube.com/watch?v=23HCciKGs6I>

VPP4ISLANDS Pilot news 🚀

Formentera looking for volunteers 🇪🇸

[#AlgoWatt](#) is at the forefront of establishing Smart Energy Communities on the picturesque [#Formentera](#) Island 🏖️, and they are actively on the lookout for dedicated participants to join this transformative initiative 🤝

We wholeheartedly invite you to become part of our thriving Energy Community 🚀, embarking on a journey that empowers and supports sustainable energy solutions ⚡. Join us in making a real [#impact](#), and let's celebrate a brighter, cleaner future together 🌟. To take the first step towards this exciting opportunity, kindly complete our consent form by clicking here 👉 [Consent Form](#).

VPP4Ibox in Formentera 🇪🇸

🚀 We are thrilled 💪 to announce a major milestone in the [VPP4ISLANDS](#) 🏖️ project!

The installation of the first [#VPP4IBox](#) in the [#Formentera](#) Island 🏖️ marks a significant leap toward our clean energy goal 🌱



This cutting-edge technology is a testament to our commitment to fostering a sustainable and greener future 🌱

Join us in celebrating this achievement that brings us one step closer to transforming the energy landscape on the [#Formentera](#) Island 🏖️



VPP4Ibox in Gökçeada 🇹🇷



🚀 Exciting Update! The 100 kWh BESS  has successfully landed in  [#Gökçeada](#) Island 🏝️

Our partners from [#UEDAS](#) [#INAVITAS](#) and [#AlgoWatt](#) are working hand in hand to integrate the [VPP4IBoxes](#) received from [Schneider Electric](#)

This remarkable progress marks a significant step toward enhancing energy solutions on the Island 🏝️

VPP4ISLANDS Joint actions 🍌

Joint White Paper 📖



[VPP4ISLANDS](#) 🍌 has joined forces 🍌 with fellow H2020 sister projects to contribute to a joint White Paper 📖 spearheaded by [ROBINSON – H2020](#), dedicated to the replication of initiatives focused on decarbonising Islands 🍌

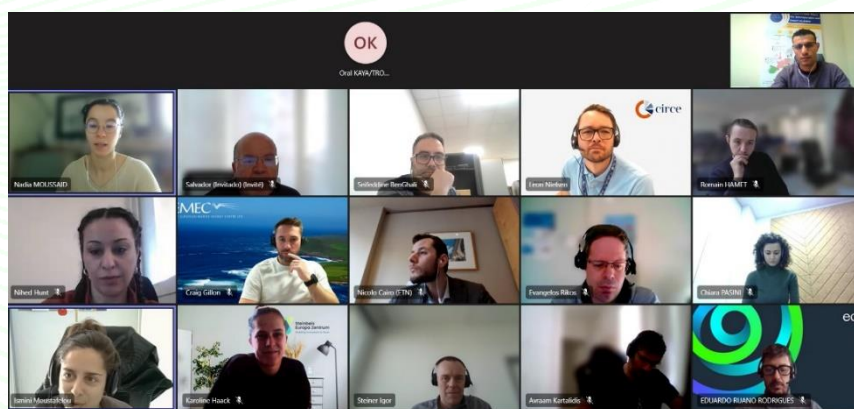
This pioneering White Paper highlights the collective findings and learnings of these projects.

It also offers valuable socio-economic and technical [#recommendations](#) tailored to relevant stakeholders.

To explore the White Paper and its valuable insights, visit this link 🍌 [Link Whitepaper](#)⁶.

Replication board March 🍌

[VPP4ISLANDS](#) 🍌 joined a collaborative [#Replication](#) Board meeting On March 24, 2023. This [#meeting](#) was hosted by [GIFT H2020 project](#) 🍌 and saw participation from several esteemed projects, including [REACT](#), [ISLANDER](#), [INSULAE](#), [ROBINSON](#), [IANOS](#), [SOCLIMPACT](#) and [MAESHA](#).



⁶ <https://vpp4islands.eu/wp-content/uploads/2023/09/White-Paper-on-Replication-1.pdf>

The primary goal of this collaborative working group 🍌 is to facilitate knowledge exchange, share invaluable lessons learned, and showcase the tools and results of replications 🇪🇺 This platform promises to be a rich source of insights and innovation 🌟 Stay tuned for exciting developments arising from this synergy!

Replication board June 🍌



On March 6, 2023, [#RDIUP](#) and [#TROYA](#), representing [VPP4ISLANDS](#) 🌴, enthusiastically engaged in a pivotal [#Replication](#) Board, masterfully orchestrated by [GIFT](#) [H2020](#) 🍌 This collaborative endeavour brought together 10 remarkable [#European](#) sister projects.

Our dedicated [#partners](#) seized the opportunity to share [#policy recommendations](#) 💡 and shine a light on [#energy communities](#) 🏡 initiatives, all with the shared aim of nurturing [#sustainability](#) and accelerating [#decarbonisation](#) efforts. Their remarkable contributions have sown the seeds for a future that is both greener and sustainable 🌱

Joint Workshop 🍌



In March 2023, [VPP4ISLANDS](#) 🌴 jointly with [ThumbsUp](#), [Masterpiece](#) and [FlexCHES](#), orchestrated a [visionary workshop](#). This event provided a real opportunity to explore the intricacies of Energy Communities 🏡, Virtual Power Plants 🌱 and Energy Storage Systems 🏢 fostering a deeper understanding of these critical elements shaping our sustainable energy future.



BRIDGE



Bridge Brochure



Step into the enchanting world of sustainable energy with the new

[BRIDGE Brochure](#) ✨

This report delves deep into the realm of an EU cooperative initiative, uniting 155 [#HorizonEU](#) and [#H2020Energy-](#)


funded projects 

Within these pages, the intricate tapestry of Smart Grid, Energy Storage, Islands, and Digitalisation unfolds, offering insights into the innovative work being done.

Discover [VPP4ISLANDS](#)  as a shining star within this constellation, contributing to a greener, smarter energy future ✨



EUSEW 2023


[#REGENERA](#), a pivotal contributor within the [VPP4ISLANDS](#)  Consortium, actively participated in the [European Sustainable Energy Week](#) (EUSEW), a prestigious event that took place from June 20 to 22, 2023 in the heart of [#Europe](#), the vibrant city of [#Brussels](#).


This distinguished gathering brought forth a truly exceptional program, including 7 engaging Plenaries, 61 enlightening Policy Sessions, and an impressive showcase of 35 Energy Fair stands.




Bridge events: ETIP-SNET



In the spirit of collaboration and progress, [#REGENERA](#), a prominent member of [VPP4ISLANDS](#) , was a distinguished guest at the [#BRIDGE](#) event [ETIP-SNET](#).

At this remarkable gathering, our very own project took the centre stage, offering valuable insights and highlighting our significant contributions to the world of sustainable energy  It's through such events that we pave the way for

a greener, more innovative future 

Upcoming VPP4ISLANDS events ⌚

Conference Troya 🇹🇷



Mark your calendars and set your sights on December 14, 2023 ⌚, for an event you won't want to miss! 📅

[#TROYA](#), a driving force within [VPP4ISLANDS](#) 🌊 is proud to present the 7th International Energy Cooperatives Conference. As we join hands to shape the future of sustainable energy, this conference promises to be a powerful and enlightening experience. Be part of the change, and explore further details by clicking in the link here 📌 [Conference](#) invitation.

Join us as we embark on this transformative journey!

Enlit Europe 2023 🇪🇺

[VPP4ISLANDS](#) 🌊 is making waves at [Enlit Europe](#) from November 28 to 30, 2023 in the vibrant city of [#Paris](#).

Our esteemed partner [#RDIUP](#) will be our guiding light, representing our project and showcasing our commitment to shaping the future of energy ⚡

Notably, [VPP4ISLANDS](#) 🌊 along with 3 other prominent EU projects will be at the Grid Technologies Zone Hub, a dynamic centre for innovation and collaboration.

We look forward to seeing you there!

Grid Technologies

📅 29 Nov 2023 ⌚ 09:30 - 10:30 📍 EU Projects Zone Hub - Theatre 2 (Hall 7.2) 🌐 EU Projects

In this session we focus on the Grid infrastructure and technologies that will help the energy transition. Projects participating in the discussion: [Smart5Grid](#), [TRANSLATE](#), [OPENTUNITY](#), [VPP4ISLANDS](#).

[Add to Calendar](#)

Stay tuned for more exciting news and milestones on our
VPP4ISLANDS journey!

We have more to share in the coming months!

Contact



If you have any questions, comments, or would like to learn more about
our progress, feel free to reach out!

We value your support and look forward to sharing more with you!

Subscribe for further information: www.vpp4islands.eu and **Follow us:**

