Deliverable 8.3 – Dissemination and Communication activities Report (v2)

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Copyright statement

Executive Summary

This second edition of the Dissemination and Communication Activities Report reflects on the key actions and strategic initiatives implemented by Work Package 8 (WP8) over the twelve-month period from June 2024 to June 2025. The document takes stock of the efforts made to raise awareness, foster engagement, and expand OPENTUNITY's visibility across its target communities. It aims to offer an insightful narrative of the project's communication journey, emphasizing the tangible outcomes achieved throughout this timeframe.

Building upon the foundations laid out in D8.1 – Plan for Dissemination, Communication and Exploitation of Results, this deliverable reviews how that strategy has been applied during the first 30 months of the project. It examines the extent to which the proposed actions have supported the overall objectives and reflects on their effectiveness. Where necessary, it also suggests possible adjustments to strengthen future outreach and engagement.

The communication and dissemination activities presented here followed a structured and purposeful approach, aimed at maximizing the project's presence and relevance. These actions helped to convey OPENTUNITY's outcomes, including core concepts, scientific contributions, tools, operational solutions, and shared practices, to the most appropriate audiences. They also played a key role in connecting with stakeholders who can actively support the validation, adoption, and long-term use of the project's results.

To meet its communication and dissemination objectives, OPENTUNITY has implemented a diverse set of targeted activities over the reporting period:

- A wide range of promotional assets were produced, including the project's visual identity, brochures, roll-up banners, video content, introductory presentations, infographics, newsletters, and press releases.
- A dedicated website was continuously updated, serving as the central hub for external communication and project visibility.
- Social media accounts on platforms such as X, LinkedIn, and YouTube were actively managed to broaden outreach and foster ongoing engagement with various audiences.
- Scientific knowledge and insights were shared through open-access research articles, complemented by accessible publications aimed at non-academic audiences.
- Public deliverables were submitted in accordance with project milestones and made available online once approved by the European Commission.
- The project team contributed to numerous events, both by attending and by organising them, as a means of promoting dialogue, knowledge exchange, and visibility.
- Collaborative efforts were pursued with other EU-funded projects and relevant initiatives to encourage synergies and mutual benefit through shared learning.

In addition, the report evaluates the reach and effectiveness of these communication efforts by examining multiple indicators, such as website traffic, social media performance, event participation, audience demographics, media presence, publication impact, and the level of stakeholder involvement.

The OPENTUNITY project and its partners have been highly active in different aspects of engagement and dissemination:

- Participation in events: OPENTUNITY partners have actively contributed to knowledge exchange by attending **15 external events** and engaging in **2 networking activities** with related projects and initiatives.
- Website reach: The project website has recorded **4,153 visits** and serves as a central hub for sharing resources, including scientific publications, public deliverables, and promotional materials, which have been **downloaded over 1,100 times**.
- Content creation: OPENTUNITY has maintained a strong digital presence with **46 posts** published on the website and **23 videos produced** to support effective dissemination.
- Social media impact: The project's social media channels (X, LinkedIn, and YouTube) collectively reach **580 followers**, achieving **25,195 impressions** on X, **33,143 impressions** on LinkedIn, **and 738 views** on YouTube.
- Media visibility: OPENTUNITY has received media coverage in **14 news articles** featured across European and international outlets, enhancing the project's recognition.
- Research contributions: Project partners have submitted **three open-access scientific papers** to a conference, all of which have been accepted and published.
- Collaboration and engagement: OPENTUNITY continues to be actively involved in the **four BRIDGE Working Groups**, participating in working sessions, surveys, and joint publications. The project has also launched its first collaborative action with the Every1 project, with additional joint activities planned.
- **Stakeholder involvement: Pilot sites have begun implementing their citizen engagement strategies**, with several outreach actions already in progress to strengthen end-user involvement.

At the end of this twelve-month period (M18–M30), the data collected through various analytics tools suggests that the dissemination and communication strategy is moving in the right direction to meet the Key Performance Indicators (KPIs) established in D8.1. The progress achieved so far reflects a solid foundation and steady momentum in reaching the project's visibility goals.

That said, the current analysis highlights several areas for further improvement. Notably, while progress has been made, there is still room to increase the production of scientific and general-interest publications, strengthen synergies with related projects and initiatives, and improve communication of the project's outcomes to the wider public. Importantly, greater stakeholder and citizen engagement is expected in the coming months, as pilot sites have already started to implement the first actions of their tailored engagement strategies, which will play a key role in boosting participation and impact.

1 Index

List of figures

List of tables

2 Introduction

2.1 Purpose of the document

This second version of the "Dissemination and Communication Activities Report" provides an overview of the activities implemented by all project partners during the period from Month 18 to Month 30. It builds upon the foundations laid in the initial reporting phase and offers an updated view of the actions foreseen in the D8.1 Plan for Dissemination, Communication, and Exploitation of Results.[1]

The main purpose of this document is to consolidate and reflect on the communication and dissemination efforts carried out to date, assess their effectiveness, and identify both strengths and areas for improvement. The findings presented here aim to inform future activities and guide the evolution of the strategy originally defined in D8.1. ETRA, as the lead partner for this deliverable, has coordinated its preparation with input and contributions from the rest of the consortium.

Instead of revisiting the conceptual definitions of communication and dissemination, this document concentrates on presenting the concrete actions implemented to achieve the objectives set for both areas within the project's strategic framework.

2.2 Scope of the document

This deliverable, D8.3, is the third report produced under Work Package 8 (Knowledge Transfer) and stems from the strategy and activities initially defined in D8.1. It brings together the dissemination and communication actions carried out during this 12 month phase of the project, following the principles and objectives set by OPENTUNITY.

In addition to documenting the work completed, this report also integrates feedback and evolving needs identified by project partners, the European Commission, and the target audience. These inputs have contributed to refining and enhancing the overall strategy, ensuring its continued relevance and effectiveness in the project's broader context.

2.3 Structure of the document

The structure of this document is organized to provide a comprehensive overview of the dissemination and communication efforts carried out during the reporting period.

Chapter 3 details the range of actions implemented, including the development of promotional materials, use of communication channels (such as the website and social media), publication of press releases and newsletters, production of scientific and non-scientific outputs, dissemination of public deliverables, participation in events, online campaigns, videos production, media coverage, citizen engagement initiatives, and collaboration activities.

Chapter 4 offers an evaluation of the actions based on the defined Key Performance Indicators (KPIs), providing insights into their reach and effectiveness.

Finally, Chapters 5 and 6 outline the next steps and present the overall conclusions of the report.

3 Communication and dissemination actions

3.1 Promotional materials

The promotional materials used throughout this reporting period follow the visual identity and design guidelines established in D8.1 [1] and further applied in D8.2 [2]. These materials have supported the communication of OPENTUNITY's goals, activities, and results in a consistent and recognizable way.

They include brochures, roll-ups, posters, presentation templates, and other visual assets aimed at informing and engaging different audiences, ranging from technical stakeholders to the general public. These resources have been distributed and displayed during events and other outreach activities, reinforcing the project's presence and visibility.

All promotional content remains publicly accessible via the OPENTUNITY website [3].

3.1.1 Visual identity: Icons

The icons designed and introduced in the Deliverable 8.2 [2], remain in use across OPENTUNITY's promotional and communication materials. Each icon visually represents one of the project's innovation categories, helping to convey their purpose in a clear and accessible way.

These icons enhance the project's visual coherence and support recognition of key concepts across different formats and audiences. All icons are publicly available and can be accessed through the OPENTUNITY website.

Figure 1 - OPENTUNITY icons.

3.1.2 Templates

The templates for reports and presentations were designed at the beginning of the project, in line with OPENTUNITY's visual identity. These templates are used by all partners to ensure a consistent and professional image across all project outputs.

By maintaining a unified visual style, the templates help reinforce the identity of OPENTUNITY and make the project more easily recognizable in both internal and external communications.

3.1.3 Brochure, Roll-up and Poster

The brochure, roll-up, and poster were all designed at the beginning of the project following OPENTUNITY's visual identity, as shown in previous deliverables (D8.1 and D8.2).

- The brochure introduces the project, its consortium, innovations, pilot sites, and the benefits for end-users and the public. It is available in both digital and physical formats, accessible via the website [3] and distributed by partners at events such as conferences and exhibitions.
- The roll-up, also aligned with the project's visual identity, serves as a key promotional tool for exhibitions and events, providing a concise message designed to capture attention. It is available for download on the project's website. [3]
- Additionally, a poster template was created for partners to use at events, offering a clear and efficient way to present the project's progress or results. This template has been displayed at various technical and scientific gatherings to facilitate precise information sharing.

3.1.4 Visuals

Additional visual content has been created to optimize OPENTUNITY's presence on social media, making it easier to communicate key aspects and concepts in a visually engaging way. These materials highlight the project's innovations, pilot sites, and partners, helping to establish a stronger connection with the audience. By featuring the partners who are actively contributing to the project, OPENTUNITY enhances its visibility and fosters greater engagement with its target community.

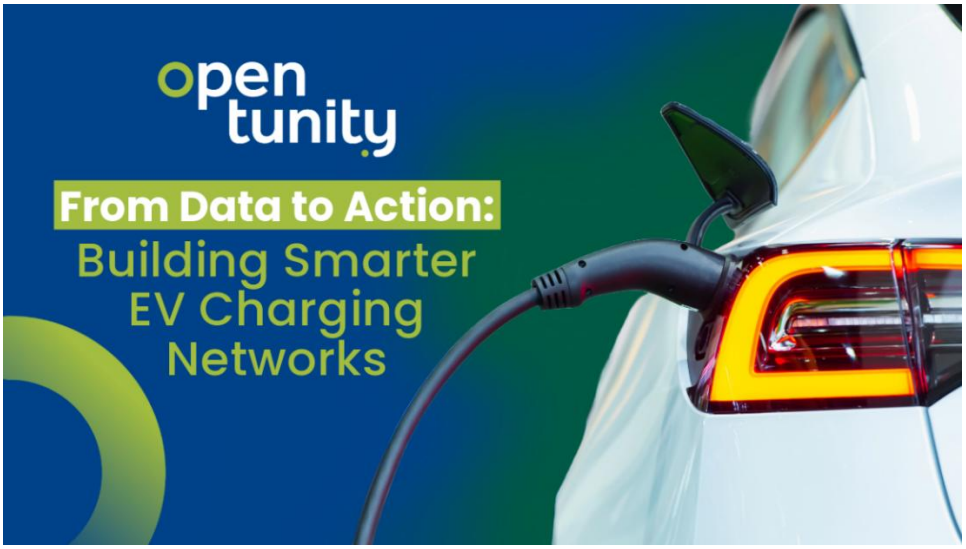


Figure 2 - Examples of visual designs for the OPENTUNITY social networks.

3.1.5 Videos

Throughout the project, various videos have been produced to support the dissemination of OPENTUNITY's activities, progress, and results. These audiovisual materials play a key role in communicating complex concepts in an accessible and engaging format, tailored for a wide range of audiences.

Initially, videos were focused on introducing the project's objectives, its overall value proposition, and the Spanish and Swiss pilot sites. During this reporting period, new videos were developed to showcase the Slovenian and Greek pilots, meaning that all four pilot sites are now represented. These materials highlight each pilot's context, goals, and expected impacts.

In parallel, videos have also been created to explain the innovations developed within the project, providing an overview of the technologies and approaches being tested and implemented.

In addition to technical content, the project has captured its participation in fairs, conferences, and public events through short recap videos. These materials aim to boost visibility, document OPENTUNITY's engagement with the energy and digital ecosystems, and share key moments with a wider audience.

A new format introduced during this period is OpenXplore, a series of interviews with experts and key stakeholders. This series explores current and future trends in energy management, smart solutions, and digital transformation in the energy sector, offering deeper insights through direct conversations with industry leaders and innovators.

All video content is available on the OPENTUNITY website [3] and YouTube channel [4], ensuring easy access and broad dissemination.

A full list of the videos published during this period is provided in Table 1 of this document.

Title of the video	Link
OPENTUNITY pilot site in Greece. Vasileios Boglou 	https://youtu.be/GViaSqX_fb4?si=HBTH4d4LgzbP2CkP

OPENTUNITY Partners - Greek Pilot Site.

Ilias Palaiologou

https://youtu.be/EHEoOHJu7yc?si=SWO3rfxeJ7SQOvpz

Electricity Ecosystem Challenges at the OPENTUNITY Greek Pilot Site.

Dimitris Melissaris

https://youtu.be/cThms-Qlkl4?si=wLvzqPjk8VaKsvQw

EU Projects, OPENTUNITY and Spanish Pilot Updates at Enlit Europe.

Sara Vieira

https://youtu.be/vaJuOxowBNw?si=lif-oqqN3pswYDk4

Exploring the Impact of the OPENTUNITY Project on the Energy Transition.

Álvaro Nofuentes, Kore Adenuga, Gesa Milzer

https://youtu.be/74Jp_D8-cgg?si=G0t4Dt-dWkOcngaO

OPENTUNITY Women powering the future of energy.

Georgia Lazarido

https://youtu.be/XF_bSGASh9c?si=duLjIS94jbNyWe01

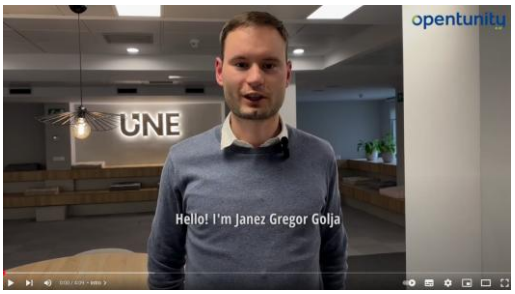
Discover the Innovations behind the OPENTUNITY Project.

Yannis Syrimpeis, Álvaro Nofuentes, Giorgios Pitsiladis, Pablo Bort

https://youtu.be/TwfPxrdMdoE?si=bY8yFbdPl9DcgFUe

Slovenian Pilot of OPENTUNITY Project.

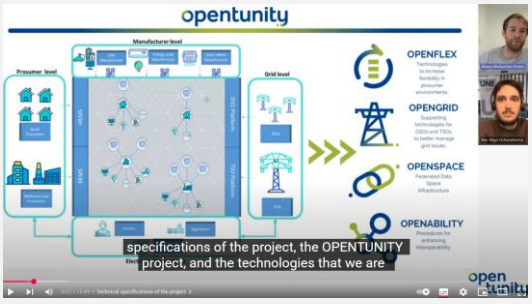
Janez Gregor Golja



https://youtu.be/Wrmc8hFjCDQ?si=Vw6HpRYdxdqiWRUe

OPENTUNITY at CEN/CLC/ETSI Smart Grids Meeting.

Álvaro Nofuentes, Iker Iñigo



https://youtu.be/H6nOc-yOPlU?si=PO_edDofjEsvyyPh

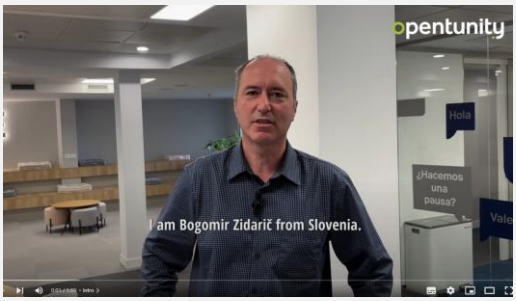
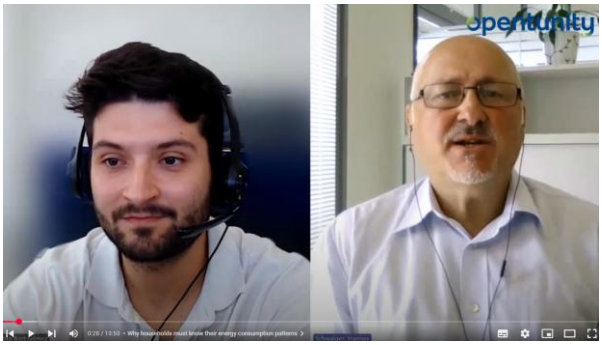
The role of DSOs and OPENTUNITY's impact on the grid. Uršula Krisper 	https://youtu.be/U5dgjIEF9Qo?si=puSk_hlFoJ9UTsOP
Enhancing efficiency and reliability in Slovenia's power grid. Bogomir Zidarič 	https://youtu.be/Hp0pFgmR3DA?si=GhdlH_9SunsPK39_
OPENTUNITY at the service of the End-User. Damir Omrčen, Klemen Peter Kosovinc, Miha Valentinčič 	https://youtu.be/QA2lekHdbp0?si=oHLTrPeCG2lgTnsi
What benefits do OPENTUNITY innovations bring to your energy site? Dimitrios Lagos 	https://youtu.be/mogmlZQXmDI?si=nJ3yRxbfftRpCwTi

Table 1 -List of OPENTUNITY videos produced

Title of the video	Link
openXplore - Ep01: How Flexibility Markets Revolutionize the use of Renewable Energy. Gesa Milzer 	https://youtu.be/emEr_Fek3RE?si=odjOW7mVicC0CYuS
openXplore - Ep02: Unlocking Home Energy Savings with your Smart Meter. Pablo Bort 	https://youtu.be/-L2mw06No8c?si=4R4XTWEwRfHASc4G
openXplore - Ep03: How Data Science saves Power Lines from Heat. Dimitrios Lagos 	https://youtu.be/xWwLafN1Obo?si=robuhn7Z5edvImUi

openXplore - Ep04: How they predict and prevent Black-Outs in Time. Dimitrios Lagos 	https://youtu.be/TXJoWZZedPw?si=ilCQopY69qYjQLSg
openXplore - Ep05: Speeding up Decarbonization: Making Power Grids ready! Dimitrios Lagos 	https://youtu.be/RJ0ZJc_oF8A?si=NbczFX7iM0hrYRml

Table 2 - List of openXplore episodes.

Outcomes: Promotional materials (M18-M30)
• The brochure and roll-up of OPENTUNITY have been downloaded from the website over 170 times. • 29 visuals have been designed for the OPENTUNITY social networks. • In total, there are 18 new videos produced, and they have reached 629 views.

Table 3 - Outcomes achieved from promotional materials until month 30.

3.2 Website

The OPENTUNITY website serves as the central hub for disseminating information to all project stakeholders, with a particular focus on technical audiences. It provides detailed project information, including descriptions based on the public data from the DoA [5], and is accessible at OPENTUNITYproject.eu.

The website is continuously updated with news, progress, and key developments every month. ETRA is responsible for maintaining the site throughout the project's duration.

Key sections such as Home, Library, Partners, Dissemination Materials, News, Sites, and Innovations have been particularly active, showcasing the project's advancements, visibility, and ongoing dissemination efforts. All content shared on the website is also promoted via OPENTUNITY's social media channels.

Website analytics for this period are presented in Table 3.

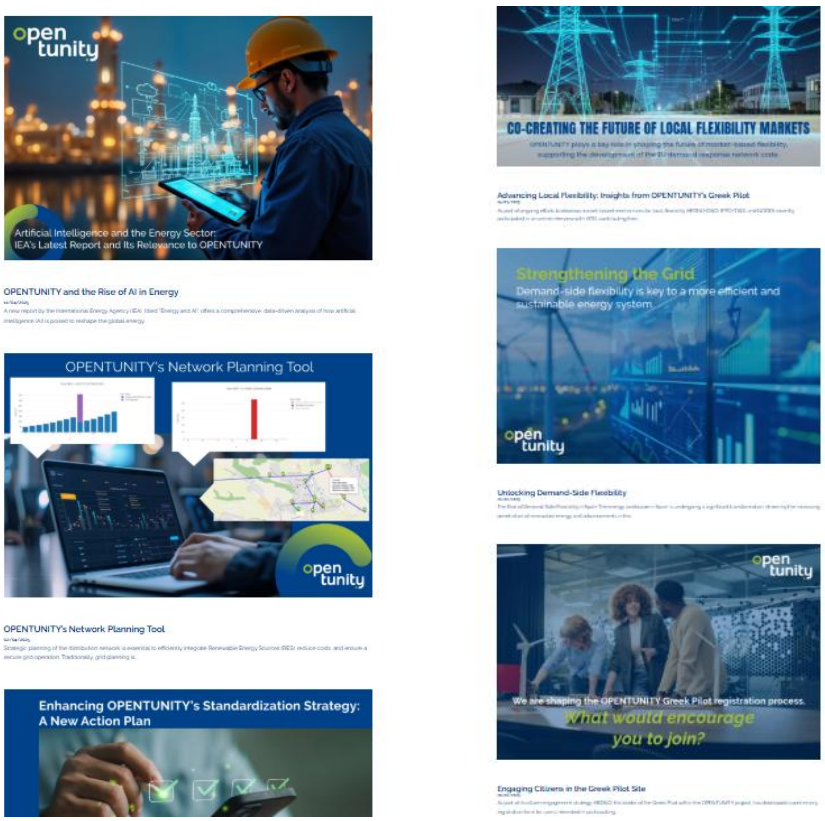


Figure 3 - The 'News' section of the OPENTUNITY website.

Website metrics up to month 30	
Page views	4.568
Users	1.455
10 Top Countries	Spain, Greece, United States, Netherlands, France, Finland, Austria, Norway, Slovenia and Ireland.
N° of posts	48
Most popular sections	Home, Innovations, Partners, The Project, News, Sites, Deliverables, Dissemination materials.
Downloads	1.229

*Table 4 - OPENTUNITY website analytics. Source: Google Analytics, wordpress and metricool. *Metrics taken until June 16, 2025.*

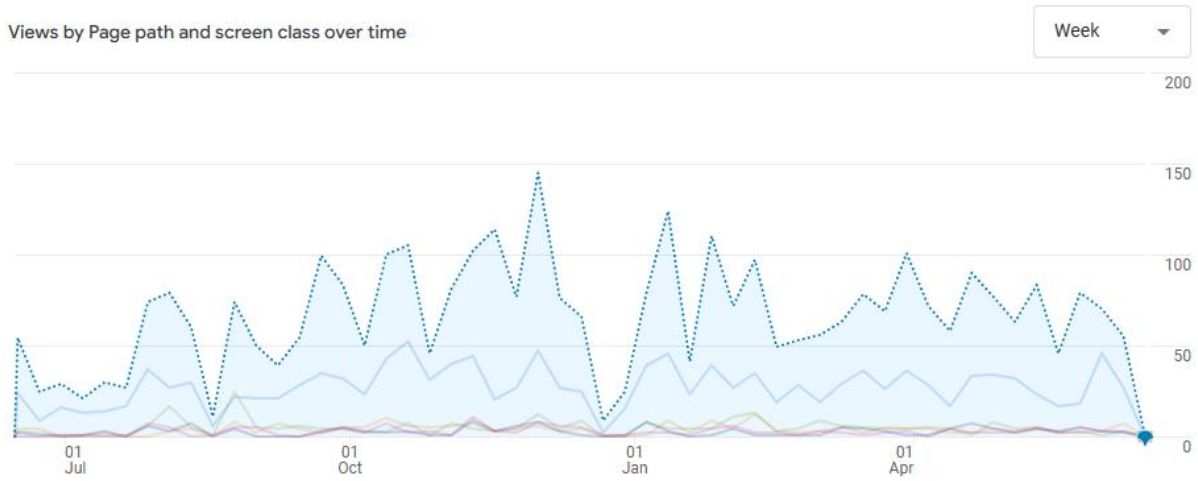


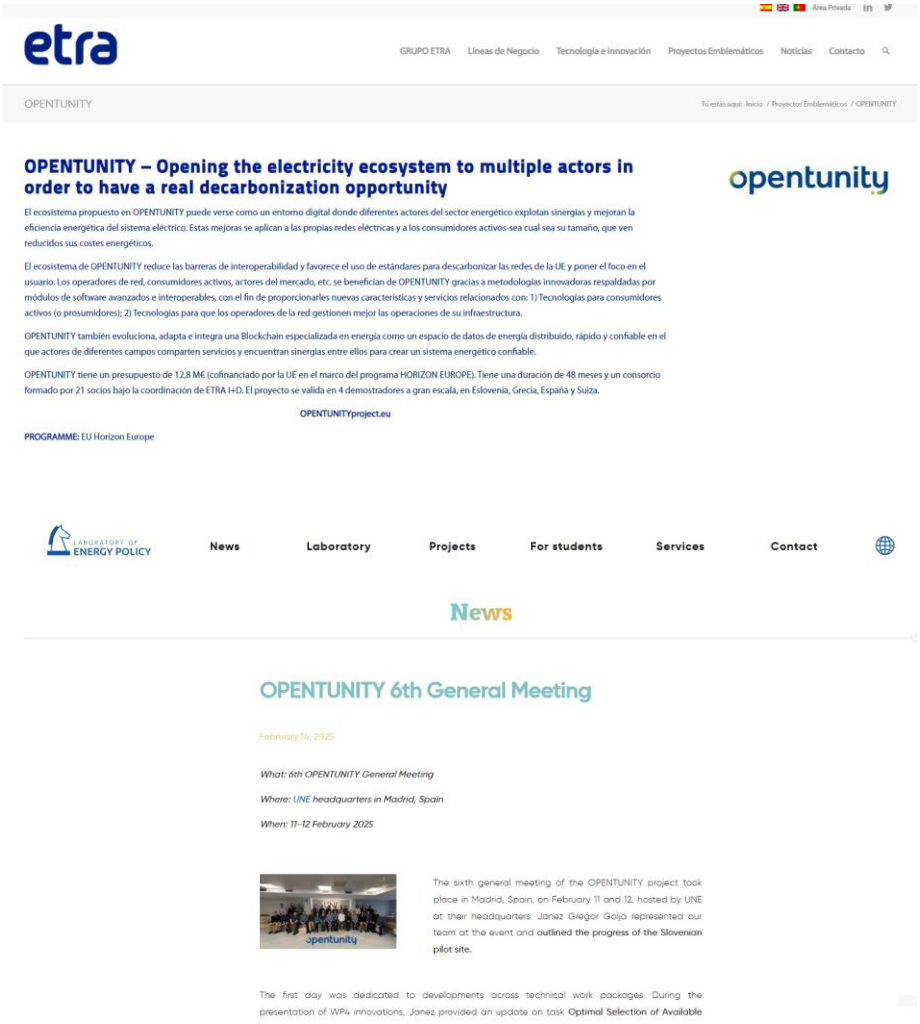
*Figure 4 - OPENTUNITY website views. Source: Google Analytics. *Metrics taken until June 15, 2025.*

Outcomes: website (M18-M30)
• The website continues to attract attention, registering 3,633 views from 1,200 unique users, reflecting sustained interest in the project's activities. • Regular content updates are maintained, with 25 new posts published, ensuring that the site remains dynamic and informative. • Engagement with downloadable resources is strong, with over 1,200 documents accessed, showing users' active interest in project outputs. • The most frequently visited sections—Home, Library, Partners, Dissemination Materials, News, Sites, and Innovations—highlight where users find the greatest value. • The audience comes especially from diverse European countries, but also from the US. • Overall, these insights underscore the website's role as an effective dissemination tool, fostering visibility, global reach, and sustained user engagement.

Table 5 - Outcomes achieved from website between M18-M30.

3.3 Promotion through partners website and media channels

In addition to the official OPENTUNITY platforms, project partners have actively contributed to the dissemination strategy by promoting OPENTUNITY through their own institutional websites, newsletters, and digital communication channels. These efforts have helped amplify the project's visibility, reaching broader and more diverse audiences across different sectors and countries.



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OPENTUNITY

OPENTUNITY – Opening the electricity ecosystem to multiple actors in order to have a real decarbonization opportunity

opentunity

El ecosistema propuesto en OPENTUNITY puede verse como un entorno digital donde diferentes actores del sector energético explotan sinergias y mejoran la eficiencia energética del sistema eléctrico. Estas mejoras se aplican a las propias redes eléctricas y a los consumidores activos-sea cual sea su tamaño, que ven reducidos sus costes energéticos.

El ecosistema de OPENTUNITY reduce las barreras de interoperabilidad y favorece el uso de estándares para descarbonizar las redes de la UE y poner el foco en el usuario. Los operadores de red, consumidores activos, actores del mercado, etc. se benefician de OPENTUNITY gracias a metodologías innovadoras respaldadas por módulos de software avanzados e interoperables, con el fin de proporcionarles nuevas características y servicios relacionados con: 1) Tecnologías para consumidores activos (o prosumidores); 2) Tecnologías para que los operadores de la red gestionen mejor las operaciones de su infraestructura.

OPENTUNITY también evoluciona, adapta e integra una Blockchain especializada en energía como un espacio de datos de energía distribuido, rápido y confiable en el que actores de diferentes campos comparten servicios y encuentran sinergias entre ellos para crear un sistema energético confiable.

OPENTUNITY tiene un presupuesto de 12,8 M€ (cofinanciado por la UE en el marco del programa HORIZON EUROPE). Tiene una duración de 48 meses y un consorcio formado por 21 socios bajo la coordinación de ETRA I+D. El proyecto se valida en 4 demostradores a gran escala, en Eslovenia, Grecia, España y Suiza.

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OPENTUNITY 6th General Meeting

February 14, 2025

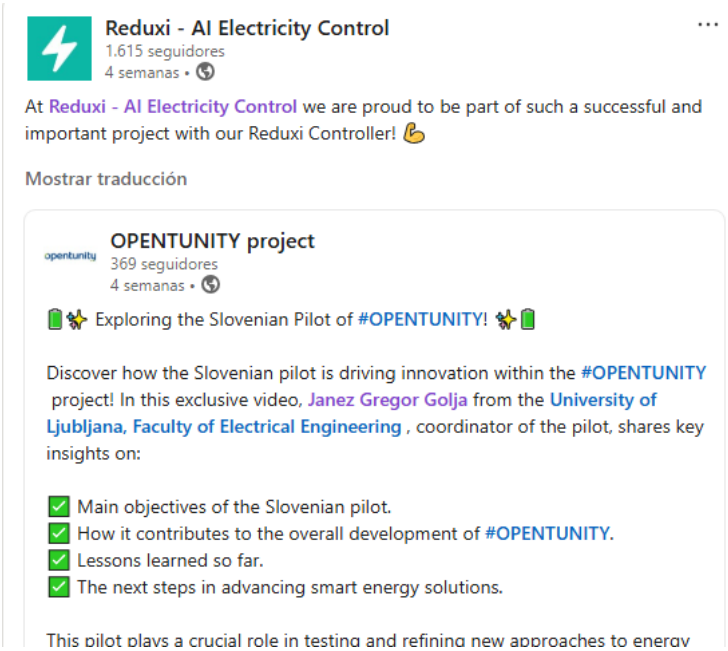
What: 6th OPENTUNITY General Meeting

Where: UNE headquarters in Madrid, Spain

When: 11-12 February 2025

The sixth general meeting of the OPENTUNITY project took place in Madrid, Spain, on February 11 and 12, hosted by UNE at their headquarters. Janez Gregor Golja represented our team at the event and outlined the progress of the Slovenian pilot site.

The first day was dedicated to developments across technical work packages. During the presentation of WP4 innovations, Janez provided an update on task Optimal Selection of Available



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🔋✨ Exploring the Slovenian Pilot of #OPENTUNITY! ✨🔋

Discover how the Slovenian pilot is driving innovation within the #OPENTUNITY project! In this exclusive video, Janez Gregor Golja from the University of Ljubljana, Faculty of Electrical Engineering , coordinator of the pilot, shares key insights on:

✅ Main objectives of the Slovenian pilot.
✅ How it contributes to the overall development of #OPENTUNITY.
✅ Lessons learned so far.
✅ The next steps in advancing smart energy solutions.

This pilot plays a crucial role in testing and refining new approaches to energy

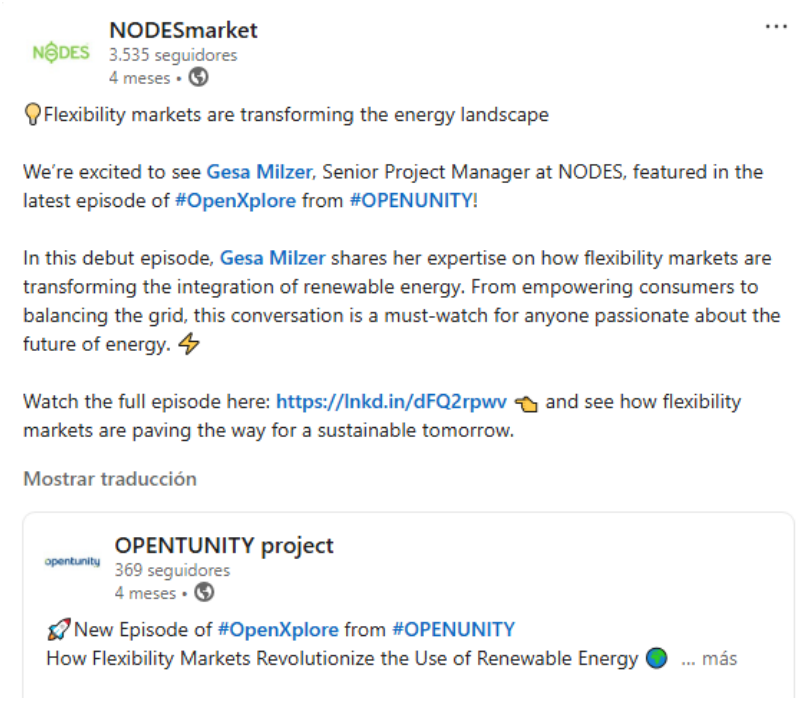


Figure 5 - Some examples of partner websites and media channels where OPENTUNITY is promoted.

3.4 Social networks

Social media plays a central role in OPENTUNITY's communication and dissemination strategy, enabling the project to reach a wider audience, foster engagement, and promote dialogue around key topics on energy.

As outlined in D8.1, each social media platform was selected based on its potential to engage specific stakeholder groups, and clear goals were defined for their use. The following sections detail the activity and impact of OPENTUNITY's presence on each social platform.

3.4.1 X (former Twitter)

The OPENTUNITY presence on X has evolved into a space for real-time interaction, visibility, and sectoral positioning. Beyond simply sharing updates, the platform has been used to actively engage in ongoing discussions within the energy community, react to relevant developments, and highlight the project's alignment with European energy and digital strategies.

Mentions, retweets, and hashtag use have increased steadily, contributing to a broader recognition of OPENTUNITY within both specialised and general audiences.

Content has focused on live event coverage, short project milestones, visual recaps, and key messages supporting the transition toward decarbonisation and smarter energy systems. Interactions on the platform have also provided valuable feedback loops that help adjust outreach efforts in real time.

The account analytics and impact for this period are summarised in Table 6.

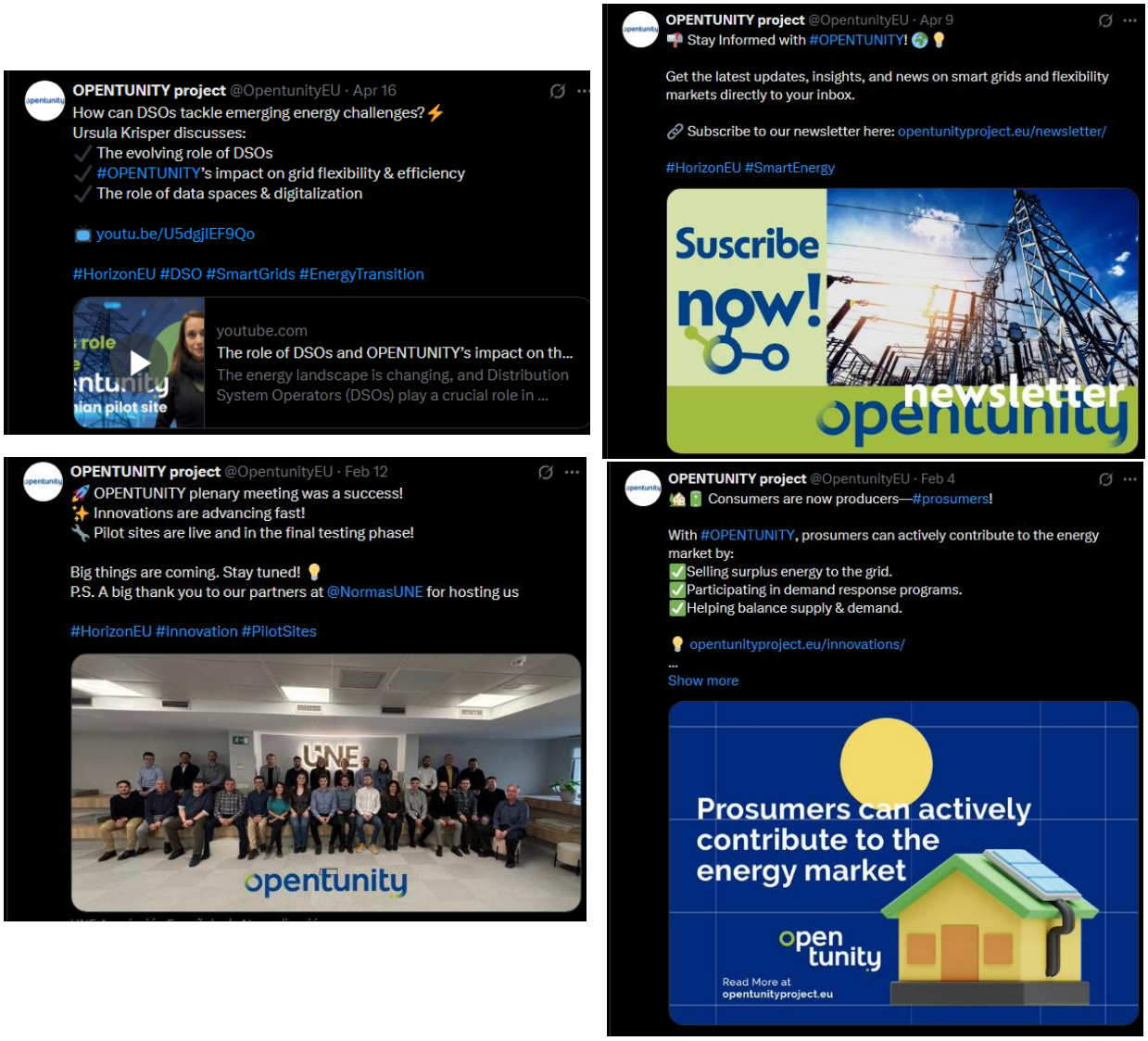


Figure 6 - Examples of X posts.

KPI	X metrics between M18 – M30	X metrics up to month 30
Total posts	44	110
Followers	6	166
Impressions	9.839	31.644
Engagement rate	4.68%	5.61%
Total retweets	34	104
Total likes	109	338

*Table 6 -OPENTUNITY X analytics. Source: metricool. * Metrics taken until June 16, 2025.*

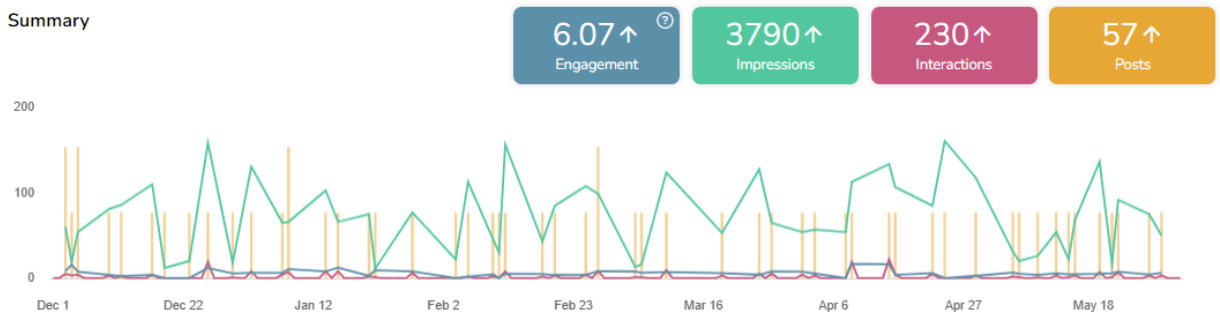


*Figure 7 - Overview of key X performance KPIs for OPENTUNITY. Source: metricool. *Metrics taken until June 1, 2025*

Outcomes: X (M18-M30)
• Between months 18 and 30 of the project, analytics show nearly 10,000 impressions, with 44 tweets published, 166 followers, 34 retweets, and 109 likes. • An engagement rate of 4.68% was achieved—well above the 3% benchmark typically considered strong performance on platform X. The engagement rate measures the level of interaction (likes, shares, comments, etc.) relative to the total number of impressions. • Overall, these figures reflect a solid level of reach and audience engagement, highlighting the project's growing visibility and relevance on social media.

Table 7 - Outcomes achieved from X between M18-M30.

3.4.2 LinkedIn

LinkedIn has become OPENTUNITY's primary social media platform for professional outreach and stakeholder engagement. It serves as the main channel for reaching our core target audience, industry experts, energy professionals, researchers, institutions, and related European initiatives.

More than just a publication space, LinkedIn has enabled the project to establish a strong and credible presence within the energy innovation community. It offers a professional environment that enhances visibility and fosters strategic connections, collaborations, and dialogue with like-minded actors across Europe.

During this reporting period, the platform has been used to share in-depth updates, highlight partner achievements, promote events, disseminate videos and publications, and report on project progress.

This strategic use of LinkedIn strengthens OPENTUNITY's positioning in the energy and digital ecosystem. Performance metrics and impact analysis are presented in Table 7.

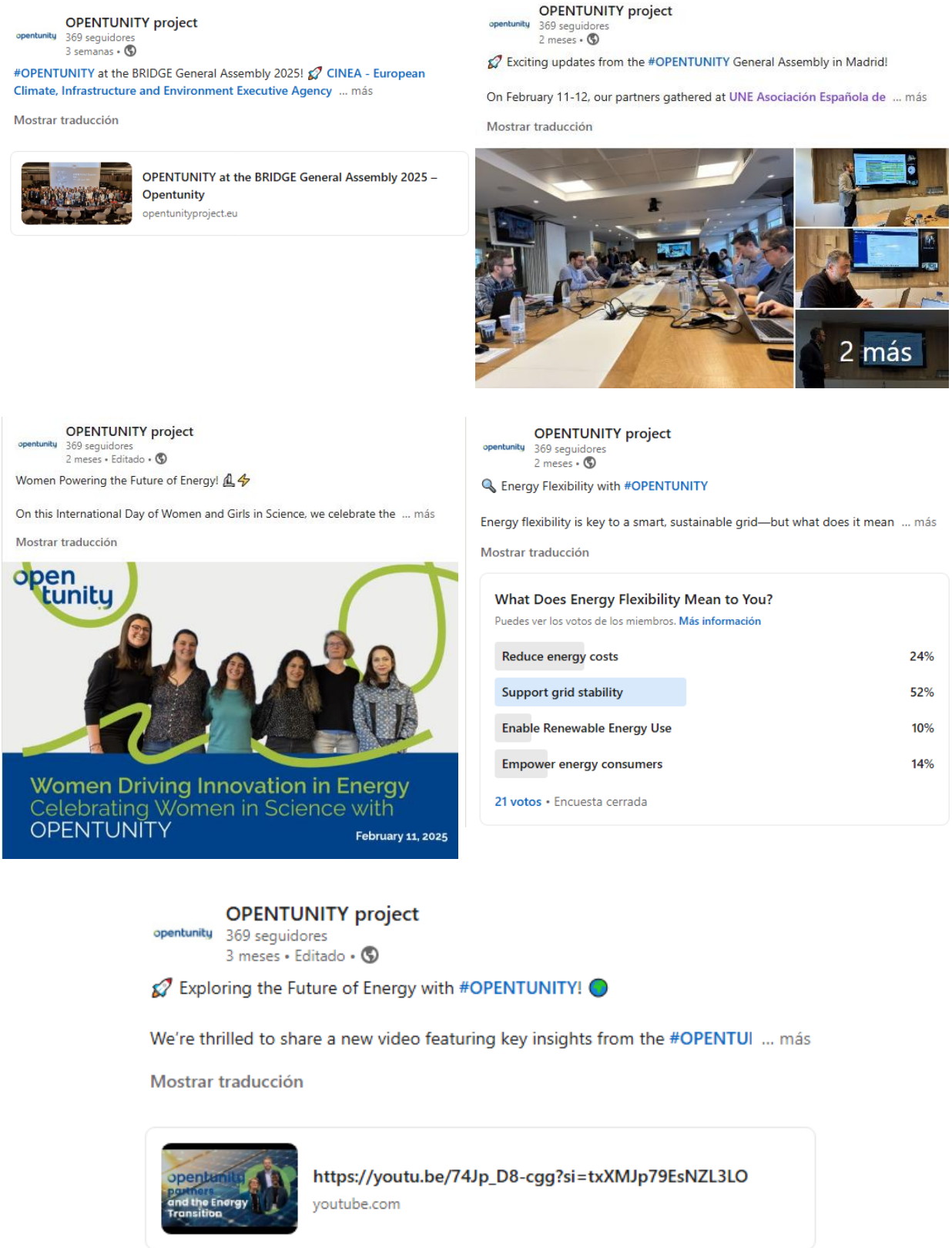


Figure 8 - Examples of LinkedIn posts.

KPIs	LinkedIn metrics between M18 – M30	LinkedIn metrics up to month 30
Total posts	85	121
Followers	164	403
Impressions	37.211	53.729
Reactions	2.567	3.430
Repost	98	160

*Table 8 - OPENTUNITY LinkedIn analytics. Source: metricool. * Metrics taken until June 16, 2025.*

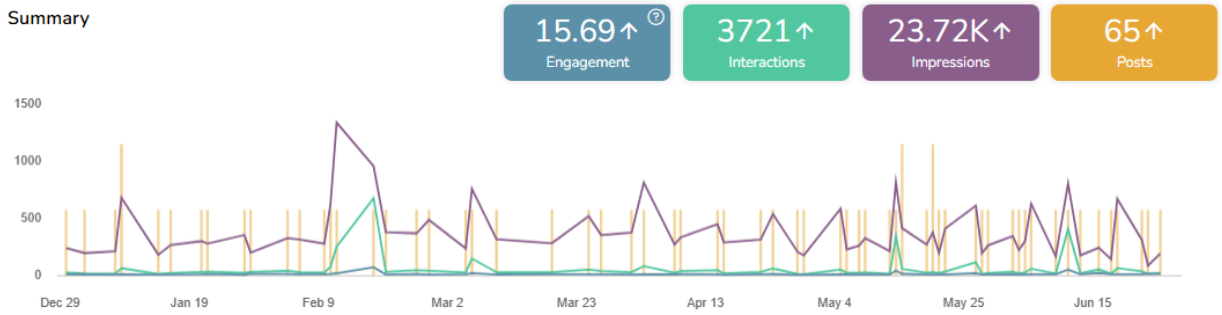


*Figure 9 - Overview of key LinkedIn performance KPIs for OPENTUNITY.. Source: metricool. *Metrics taken until June 1, 2025*

Outcomes: LinkedIn (M18-M30)
• LinkedIn analytics from M18 to M30 show 403 followers, 85 posts published, 37,211 impressions, and 2,567 total reactions. • These figures reflect strong performance, indicating a high level of engagement and growing reach within the LinkedIn community during this period.

Table 9 - Outcomes achieved from LinkedIn between M18-M30.

3.4.3 YouTube

The OPENTUNITY YouTube channel serves as a central repository for all audiovisual content developed throughout the project. Since its launch, the channel has been regularly updated with videos covering a wide range of topics. In addition to the initial project overview and videos promoting participation in major events, new content has been added during this reporting period. This includes dedicated videos for each of the four pilot sites, offering insights into their context, objectives, and implementation progress.

Furthermore, videos highlighting the key innovations developed under OPENTUNITY have been produced to increase public understanding and technical dissemination. A new series, OpenXplore,

was also launched: an interview-based format where sector experts and project partners discuss future trends in energy, digitalisation, and smart systems.

This audiovisual approach has proven to be a powerful tool for reinforcing visibility, simplifying complex concepts, and humanising the project's message. A full list of videos published during this period is available in Table 9.

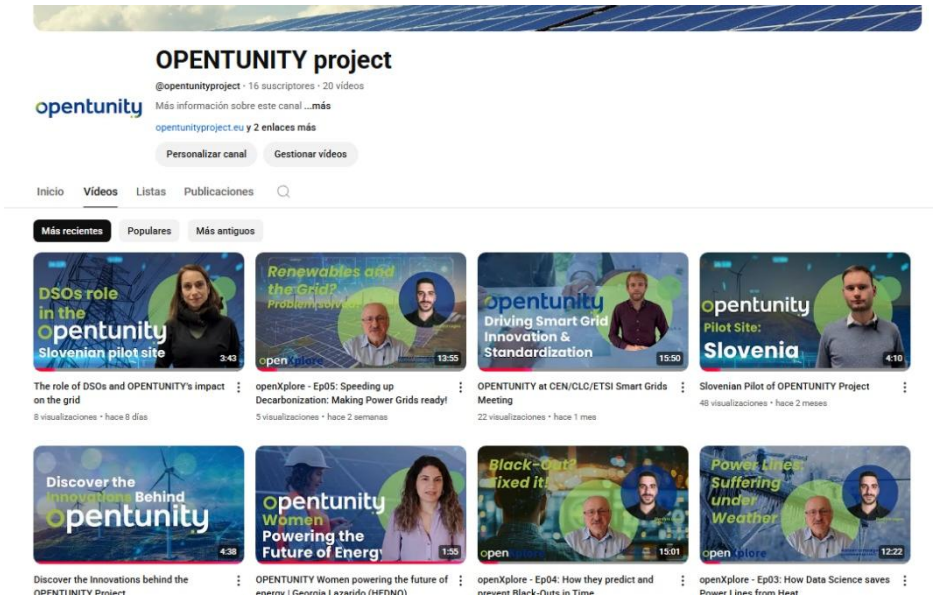


Figure 10 - OPENTUNITY YouTube Channel.

YouTube metrics up to month 30	
Total videos	23
Subscribers	15
Views	1.035

*Table 10 - OPENTUNITY YouTube analytics. Source: YouTube Analytics and metricool. * Metrics taken until June 16, 2025.*

Outcomes: YouTube (M18-M30)
• The YouTube channel features 23 videos, accumulating 1,035 views and 15 subscribers. • The noticeable growth in both content and viewer interaction suggests a positive impact and increasing visibility of OPENTUNITY's channel during this period.

Table 11 - Outcomes achieved from YouTube between M18-M30.

3.5 Press releases

Following the initial press release issued at the project's launch, a second press release was published in December 2024, as planned in D8.2 [2] . This new publication focused on key technical achievements, including the development of a deep learning-based state estimation model and the progress on OPENTUNITY's Data Space (OPENSPACE). It also highlighted the project's presence at major international conferences. Both press releases are available on the project website and were shared with partners for local dissemination.

Both press releases are available on the project website [3] and were distributed among consortium partners to support national-level dissemination in local languages.

3.6 Newsletter

As planned in the previous deliverable, a third OPENTUNITY newsletter was published during this period, continuing the effort to keep stakeholders and the wider audience informed about the project's progress. Produced and distributed by ETRA, the newsletter provides updates on key developments, events, and upcoming activities, along with visual content to boost engagement. All published newsletters are available on the project website [6] and the last edition is included in Annex 1.

Newsletters	Link
N°1	https://mailchi.mp/c272ffd53938/opentunity-newsletter-1-is-out?e=896b8fcc44
N°2	https://mailchi.mp/1fa71bc4e357/opentunity-newsletter-2-is-out?e=fedc0fbc7c
N°3	https://mailchi.mp/ed61535eef8d/opentunity-newsletter-3

Table 12 - OPENTUNITY Newsletters launched between M1-M30.

Figure 11 - Screenshots of OPENTUNITY Newsletters.

Outcomes: Newsletter (M1-M30)
• The OPENTUNITY newsletter has over 40 subscribers. • Three issues have been published so far. • The average click-through rate per unique open is 37.5%.

Table 13 - Outcomes achieved from Newsletters between M1-M30.

3.7 Scientific publications

In alignment with Article 17 of the Grant Agreement, OPENTUNITY ensures open access to all peer-reviewed scientific publications related to project results. Since the first reporting period, progress has been made in this area: three open-access papers have now been published and are available both on the project website [7] and via OPENTUNITY's Zenodo community profile. These publications reflect the outcomes of collaborative research efforts and contribute to the project's visibility within the scientific community.

Open Access Scientific Publications
1. Sapountzakis, H., Andresakis, K., Xygkis, T., Dimeas, A., Korres, G., Hatziargyriou, N., & National Technical University of Athens. (2025, enero 7). Machine learning for distribution grid topology identification and state estimation. PAC World conference 2024 (PACWC24), Athens, Greece. https://doi.org/10.5281/zenodo.14608823
2. Golja, J. G., Kosovinc, K. P., Valentinčič, M., & Medved, T. (2025, enero 7). Analysis of Consumption Forecasting and Flexibility Utilization of an Electric Vehicle Fleet in the OPENTUNITY Project. 4. konferenca SAEE s področja energetske ekonomike, Ekonomska fakulteta, Univerza v Ljubljani. https://doi.org/10.5281/zenodo.14608273
3. University of Ljubljana, Faculty of Electrical Engineering, Medved, T., Lakic, E., & AMIBIT Energy Information System. (2025, abril 29). Analysis of load forecasting and flexibility utilization of the HEMS fleet in the OPENTUNITY project. 17th Conference of Slovenian Electric Power Engineers, Congress center of Bernardin hotel, Portorož. https://doi.org/10.5281/zenodo.15302424

Table 14 - Summary of OPENTUNITY Open Access Scientific Publications

Outcomes: Scientific Publications (M1-M30)
• Three scientific publications have been accepted for open access and have been published on OPENTUNITY's website and Zenodo's profile. • Two additional papers are currently in progress.

Table 15 - Outcomes achieved from scientific publications between M1-M30

3.8 Public Deliverables

Public deliverables play a key role in documenting the project's progress and ensuring transparency with stakeholders. Those marked as public are made available through the OPENTUNITY website, which functions as an open-access library [8]. Since the previous reporting period, new deliverables have been submitted, reviewed, and uploaded. Table 11 summarises the public deliverables made available by month 30.

N°	Deliverable name	WP	Type*	Due date	Approved & uploaded on the website	N° of downloads
D1.1	Project Management Plan (v1)	1	R	3	X	46
D1.2	Data Management Plan	1	DMP	6	X	49
D1.3	Project Management Plan (v2)	1	R	16	X	27
D2.1	Technical foundations	2	R	11	X	85

D2.2	Standardization landscape and socioeconomic context	2	R	9	X	43
D2.3	Open architecture report	2	R	11	X	532
D3.1	Decentralized Data Exchange Architecture (v1)	3	R	22		
D3.2	Decentralized Data Exchange Architecture (v2)	3	R	30		
D3.3	Plug and Play Asset Registration	3	R	30		
D4.1	Enhanced, user-friendly EMS for residential/ building flexibility discovery and delivery (v1)	4	R	22		
D4.2	Enhanced, user-friendly EMS for residential/ building flexibility discovery and delivery (v2)	4	R	30		
D4.3	Optimal selection of available flexibility (v1)	4	R	22		
D4.4	Optimal selection of available flexibility (v2)	4	R	30		
D4.5	OPENTUNITY flexibility market (v1)	4	R	22		
D4.6	OPENTUNITY flexibility market (v2)	4	R	30		
D5.1	OPENTUNITY power flow developments (v1)	5	R	22		
D5.2	OPENTUNITY power flow developments (v2)	5	R	30		
D5.3	OPENTUNITY asset and planning developments (v1)	5	R	22		
D5.4	OPENTUNITY asset and planning developments (v2)	5	R	30		
D5.5	OPENTUNITY Grid integration methodology	5	R	30		
D6.1	Deployment and demonstration plan	6	R	34		
D6.2	Demonstration activities report	6	R	42		
D7.1	Impact Assessment	7	R	48		
D7.2	Replication strategy	7	R	48		
D8.1	Plan for Dissemination, Communication and Exploitation of Results	8	R	3	X	31

D8.2	Dissemination and Communication activities Report (v1)	8	R	18	X	10
D8.3	Dissemination and Communication activities Report (v2)	8	R	30		
D8.4	Dissemination and Communication activities Report (v3)	8	R	48		
D8.5	OPENTUNITY Exploitation and IPR Management (v1)	8	R	30		
D8.6	Dissemination and Communication activities Report (v2)	8	R	48		

Table 16- OPENTUNITY public deliverables

* DMP – Data Management Plan / R — Document, report

Outcomes: Public deliverables (M1-M18)
• A total of 24 public deliverables are scheduled for submission by Month 30. • Currently, 8 public deliverables are available for download on the project website. • These deliverables have been downloaded 823 times, reflecting a solid level of interest and engagement from the audience.

Table 17- Outcomes achieved from public deliverables between M1-M30.

3.9 Other publications

The project partners have also produced various types of publications (excluding scientific publications, generalist media, or specialized media) that showcase their work in OPENTUNITY. During this period, partners participated in the publication of the BRIDGE brochure 2023. Additionally, they have collaborated on other BRIDGE reports as shows the **¡Error! No se encuentra el origen de la referencia.**, which have not yet been published.

Title	Date	Country	Partner involved	Link
BRIDGE Brochure 2023	July 2023	Europe	ETRA	https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/sites/default/files/download/bridge%20cooperation%20between%20horizon%202020%20and%20horizon-MJ0423748ENN.pdf

BRIDGE report: Data Management Working Group Action #5 – Interoperability of home appliances	November 2023	Europe	EL	NYA
BRIDGE report: Regulation WG, action 5	January 2024	Europe	EL	NYA
BRIDGE report Exploration of citizen engagement methodologies in European R&I projects 3.0	June 2024	Europe	ETRA, JR	https://op.europa.eu/en/publication-detail/-/publication/2222ec21-6ef9-11ee-9220-01aa75ed71a1/language-en?WT.mc_id=Searchresult&WT.ria_c=37085&WT.ria_f=3608&WT.ria_ev=search&WT.URL=https%3A%2F%2Fenergy.ec.europa.eu%2F
BRIDGE 2024 Brochure	July 2024	Europe	ETRA	https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/system/files/2024-08/05-07-2024_BRIDGE-brochure-final%20%281%29.pdf
BRIDGE report Consumer and citizen engagement working group	November 2024	Europe	JR	https://op.europa.eu/en/publication-detail/-/publication/34f01804-a563-11ef-85f0-01aa75ed71a1/language-en
FutuRed Libro de comunicaciones	November 2024	Spain	ETRA	https://futured.es/wp-content/uploads/2024/11/Libro-de-Comunicaciones-III-Congreso-Redes-Inteligentes-2024_Futured.pdf
BRIDGE 2025 Brochure	May 2025	Europe	ETRA	https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/sites/default/files/download/bridge%20cooperation%20between%20horizon%202020%20and%20horizon-HZ0125038ENN.pdf

Table 18 - List of other publications between M1-M30.

3.10 Events

Participation in events remains a key element of OPENTUNITY's communication and dissemination strategy, allowing partners to share progress and results directly with targeted audiences. Events continue to be announced in advance on the project website and social media, with dedicated news articles published for major appearances.

This deliverable presents the events held or attended by OPENTUNITY partners between month 18 and month 30. A full list is included in Table 14, while detailed event reports are provided in Annex 2 - Event reports.

Event's name	Date	Location	N° attendees	Type of event	Participation
Grid Service Market Symposium	1-2/07/2024	Lucerne, Switzerland	±50	Participation in a Conference	Presentation and exhibition
European Week of Regions and Cities - Fostering the uptake and social impact of the energy transition through citizen engagement	10/10/2024	Brussels, Belgium	±45	Organisation of a Workshop	Presentation
International Conference on Smart Systems and Technologies (SST)	16/10/2024	Osijek, Croatia	≥ 500	Participation in a Conference	Presentation
MED POWER 2024 - 14th Mediterranean Conference on Power Generation Transmission, Distribution and Energy Conversion	3-6/11/2024	Athens, Greece	50	Participation in a Conference	Presentation
12th Conference of the EU Framework Programme for Research and Innovation Horizon Europe	29/11/2024	Oviedo, Spain	±100	Participation in a Conference	Exhibition
4th SAEE Conference on Energy Economics	22/11/2024	Ljubljana, Slovenia	±100	Participation in a Conference	Presentation

Estabanell - Citizen engagement workshop	30/01/2025	Barcelona, Spain	±5	Organisation of a Workshop	Organiser and presentation
Coordination Group on Smart Grids AhG STD	03/03/2025	Online	13	Participation in a Workshop	Presentation
BRIDGE GA 2025	25-26/03/2025	Brussels, Belgium	±100	Participation in an Event other than a Conference or a Workshop	Attendance
Electrical and Computer Engineering Student Conference (ECESCON)	25-27/04/2025	Greece	300	Participation in a Conference	Presentation
STS Congress 2024	5-7/05/2025	Graz, Austria	± 200	Participation in a Conference	Presentation
Syngrid Summer School	11-16/05/2025	Ljubljana, Slovenia	± 30	Summer School	Presentation
17th Conference of Slovenian Electric Power Engineers	19-21/05/2025	Portorož, Slovenia	300	Participation in a Conference	Presentation
EUSEW 2025	10-12/06/2025	Brussels, Belgium	≥ 9.000	Participation to an Event	Exhibition
Workshop with DSOs and FSPs	11-12/06/2025	Oslo, Norway	45	Organisation of a workshop	Organiser and presentation

Table 19 - List of all events where OPENTUNITY partners participated or organised.

Figure 12 - Some pictures of OPENTUNITY partners representing the project in events.

**1- Grid Service Market Symposium; 2- SST Congress 2024; 3- MEDPOWER 2024; 4- ECESCON 2025; 5,6- OPENTUNITY workshop with externals.*

Outcomes: Events (M18-M30)
Between M18 and M30 of the project, partners have hosted 3 workshops and taken part in 15 external events. These activities highlight the consortium's active involvement in fostering collaboration, promoting knowledge sharing, and strengthening ties with both project stakeholders and the wider energy ecosystem.

Table 20- Outcomes achieved from events between M18-M30.

3.11 Online campaigns

During this period two online campaigns on X and LinkedIn have been conducted to promote the various aspects of the project or related topics. The aim was to reach a broader group of users or generate interactions among their current followers.

Campaigns	Goal	Date	Total posts	Impressions	Reactions
OPENTUNITY Innovations	Highlight OPENTUNITY's key innovations and showcase their impact in advancing the digital energy transition	August – September 2024	18	8.608	199
Stakeholders Engagement Strategy	Ask the experts about their opinions on the citizens perception of the energy sector.	April 2025 - Ongoing	13 (7 already published)	1.230	90

Table 21- OPENTUNITY online campaigns (M18-M30).

3.11.1 OPENTUNITY innovations campaign

During this reporting period, OPENTUNITY launched a dedicated online campaign aimed at highlighting the key innovations and technological advancements developed within the project. The goal was to raise awareness among stakeholders, industry experts, and the general public about the practical outcomes and added value of the project's research and development activities.

This campaign was carried out across the project's main digital platforms, including LinkedIn, X (formerly Twitter), YouTube and the OPENTUNITY website. The content included infographics, short texts, explanatory videos, and links to relevant project results. It reached a wide audience and generated significant engagement.

A detailed list of the publications shared as part of this campaign can be found below:

- 9 posts on LinkedIn.
- 9 posts on X (former Twitter).
- 1 video produced for Youtube.

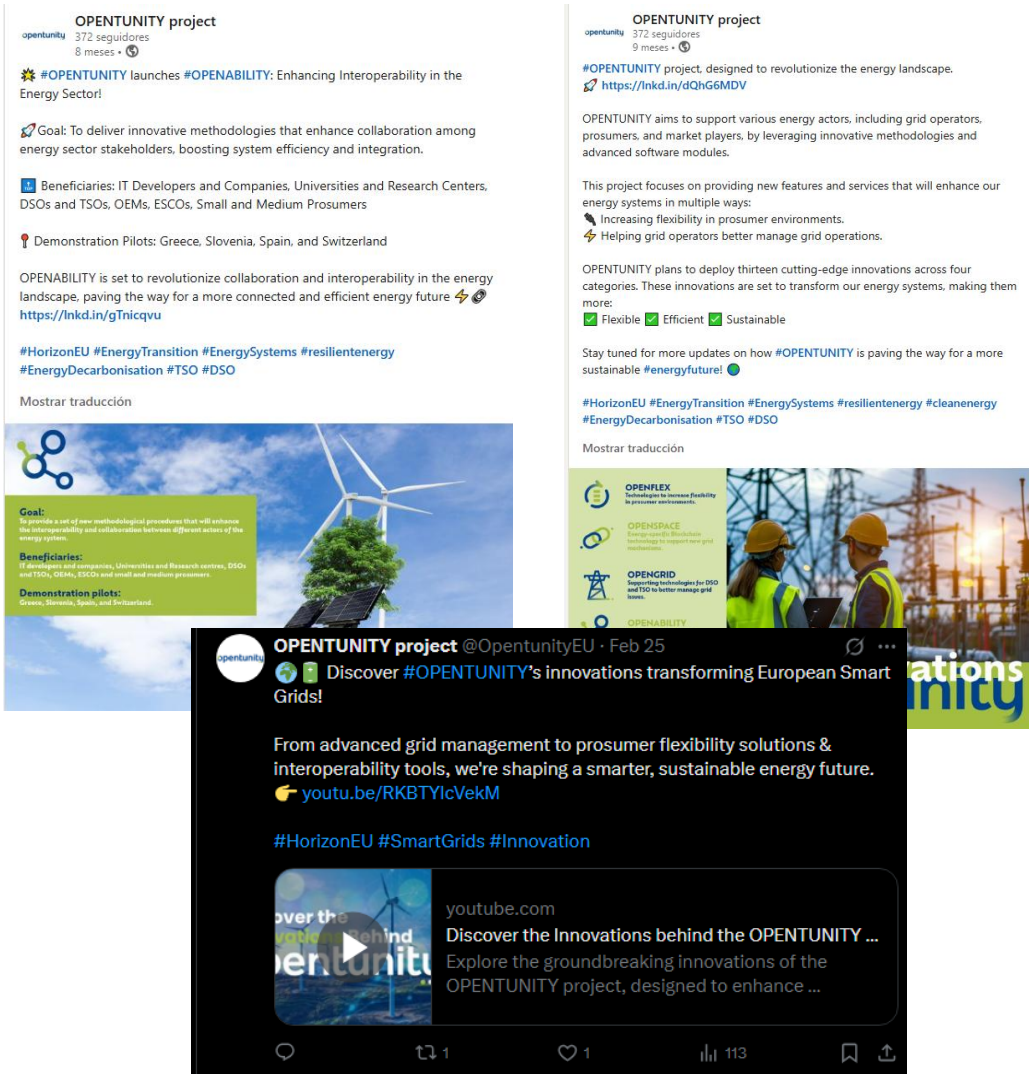


Figure 13 - Examples of innovations campaign posts.

3.11.2 Stakeholders Engagement Strategy

As part of OPENTUNITY's goal to foster stronger interaction with its target audience and energy sector stakeholders, a dedicated online campaign was launched to support the project's stakeholder engagement strategy. Jointly designed by ETRA and JR, the campaign consisted of a series of brief surveys published on LinkedIn, targeting professionals, experts, and interested users in the energy ecosystem.

The main objectives of the campaign were to increase project visibility, encourage dialogue with the public, and gain insights into the current level of awareness, involvement, and perceptions regarding the energy transition. Survey topics included the public's knowledge of energy systems, their degree of engagement with energy-related initiatives, and their views on key sectoral challenges.

Although the campaign is still ongoing and expected to run until mid or late July, it is already serving as a useful tool for engagement. Since LinkedIn polls are not anonymous, responses can help identify individuals with a strong interest in the sector. These contacts may be approached to join future OPENTUNITY activities such as workshops, talks, or communication initiatives.

Once the campaign concludes, the results will be analysed and shared in a dedicated summary post, highlighting key takeaways and identifying potential actions to increase public involvement in the energy transition.

A detailed list of all the surveys created as part of this campaign is provided in Table 22.

Theme	Question	Answer 1	Answer 2	Answer 3	Answer 4
Understanding consumer awareness	What do you think, how familiar are consumers with the concept "Demand-Side Flexibility" in the energy sector?	Very familiar	Somewhat familiar	Heard of it, but unsure	Not familiar at all
Benefits of participating	What would most motivate consumers to participate actively in the energy market?	Reducing energy bills	Environmental sustainability	Gain control over energy usage	Access innovative technologies
Benefits of participating	Which benefit of the energy transition is most important to you as a consumer?	Lower energy costs	Improved energy efficiency	Enhanced energy reliability	Reduced carbon footprint
Interest in the sector	What do you think, how interested are consumers in adopting renewable energy solutions like solar panels or wind turbines for your home or business?	Very interested	Somewhat interested	Unsure	Not interested
Barriers to participate	What do you perceive as the biggest barrier for consumers to engage in energy initiatives like OPENTUNITY?	Lack of information	Concerns over data privacy	Uncertainty about benefits	Technological complexity

Understanding consumer awareness	Through which channel do you think consumers prefer to receive information about energy initiatives and updates?	Social media platforms	Project newsletters	Webinars and online workshops	Traditional media (TV, news)
Understanding consumer awareness	How important is it in your opinion that energy providers are transparent about their sustainability practices and energy sources?	Extremely important	Important	Somewhat important	Not important
Interest in the sector	How interested are you in using smart technologies (e.g., smart meters, automated energy management systems) to optimize your energy usage?	Highly interested	Moderately interested	Slightly interested	Not interested
Understanding consumer awareness	In your opinion, what is the most important factor for a consumer when choosing an energy provider?	Cost of services	Sustainability commitments	Customer service quality	Innovative product offerings
Barriers to participate	Do you find the energy market and its opportunities (e.g., flexible consumption, energy communities) too complex to engage with average consumers?	Yes, it's too complicated for consumers	It is complex but consumers learn more and more to navigate it.	No, consumers understand it well	I've never really thought about it

Barriers to participate	Do you think the majority of consumers know that they can actively participate in energy markets (e.g., selling excess energy, demand response programs)?	The majority know it and participates actively.	The majority know it, but only a minority uses the opportunities.	Only a minority knows it and uses it.	Almost nobody knows.
Understanding consumer awareness	How impactful would you consider friends, family and other people for energy related decisions?	Very impactful	Moderately impactful	Less impactful	Not at all impactful
Participation in energy markets / energy transition / etc	What do you think, can smart tools, such as energy monitoring devices, help to change our habits to become more sustainable?	Yes, definitely	Yes probably	Maybe	No

Table 22 - Online surveys to engage stakeholders via LinkedIn.

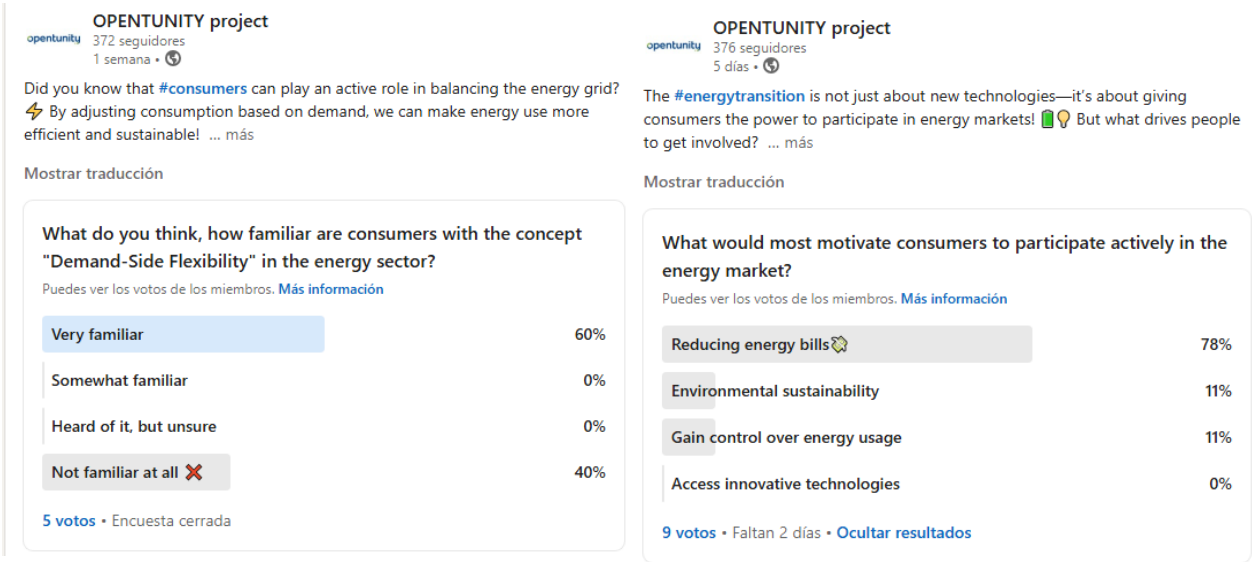


Figure 14 - Examples of survey posts.

Outcomes: Online campaigns (M18-M30)
• Two online campaigns were carried out between M18 and M30. At the time of submitting this document, one of them is still ongoing. • Up to the submission of this document, the two campaigns have generated a total of 9.838 impressions.

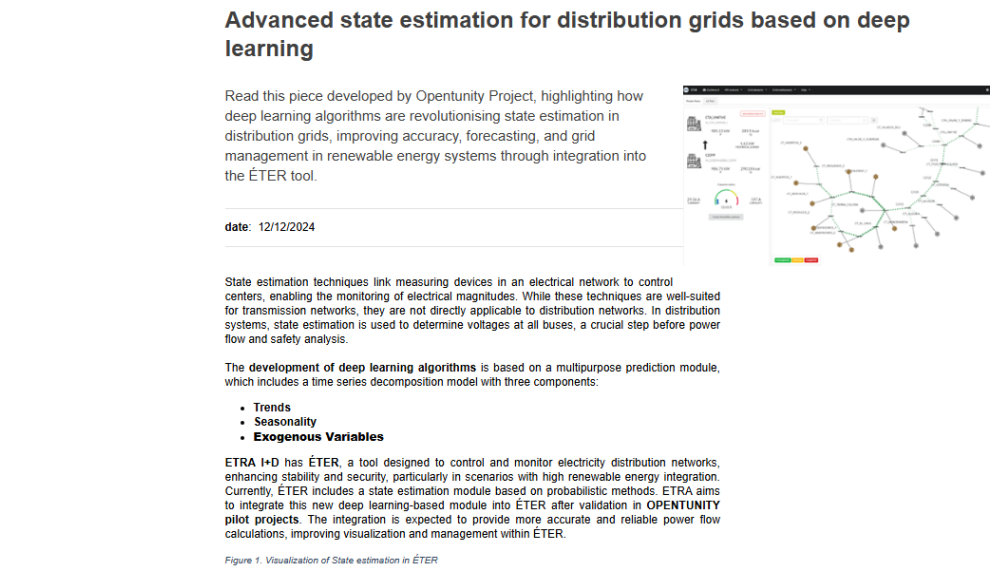
Table 23- Outcomes achieved from online campaigns between M18-M30

3.12 Media impact

This section highlights OPENTUNITY's media presence across digital outlets, industry magazines, and podcasts. Media coverage has been driven both by partners' outreach efforts and by visibility generated through OPENTUNITY's own communication channels. A dedicated section on the website features press clippings [9], and Annex 3 - Press Clipping compiles all media mentions recorded during the M18–M30 period.

Title	Date	Country	Audience type	Language	Link
Advanced state estimation for distribution grids based on deep learning	December 2024	Europe	Specialised	English	https://ec.europa.eu/newsroom/etipsnet_bridge/items/861820/en
OPENTUNITY 6th General Meeting	February 2025	Slovenia	Specialised	English / Slovenian	https://lest.fe.uni-lj.si/news/opentunity-6th-general-meeting/
Smarter grids, smarter choices: OPENTUNITY's role in the future of energy	May 2025	Europe	Specialised	English	https://www.enlit.world/smart-grids/grid-management-monitoring/smarter-grids-smarter-choices-opentunitys-role-in-the-future-of-energy/

Table 24 - Press clipping list of OPENTUNITY M18 – M30.



Advanced state estimation for distribution grids based on deep learning

Read this piece developed by Opentunity Project, highlighting how deep learning algorithms are revolutionising state estimation in distribution grids, improving accuracy, forecasting, and grid management in renewable energy systems through integration into the ÉTER tool.

date: 12/12/2024

State estimation techniques link measuring devices in an electrical network to control centers, enabling the monitoring of electrical magnitudes. While these techniques are well-suited for transmission networks, they are not directly applicable to distribution networks. In distribution systems, state estimation is used to determine voltages at all buses, a crucial step before power flow and safety analysis.

The **development of deep learning algorithms** is based on a multipurpose prediction module, which includes a time series decomposition model with three components:

- **Trends**
- **Seasonality**
- **Exogenous Variables**

ETRA I+D has **ÉTER**, a tool designed to control and monitor electricity distribution networks, enhancing stability and security, particularly in scenarios with high renewable energy integration. Currently, ÉTER includes a state estimation module based on probabilistic methods. ETRA aims to integrate this new deep learning-based module into ÉTER after validation in **OPENTUNITY pilot projects**. The integration is expected to provide more accurate and reliable power flow calculations, improving visualization and management within ÉTER.

Figure 1. Visualization of State estimation in ÉTER

LABORATORY OF ENERGY POLICY

News Laboratory Projects For students Services

News

OPENTUNITY 6th General Meeting

February 14, 2025

What: 6th OPENTUNITY General Meeting

Where: UNE headquarters in Madrid, Spain

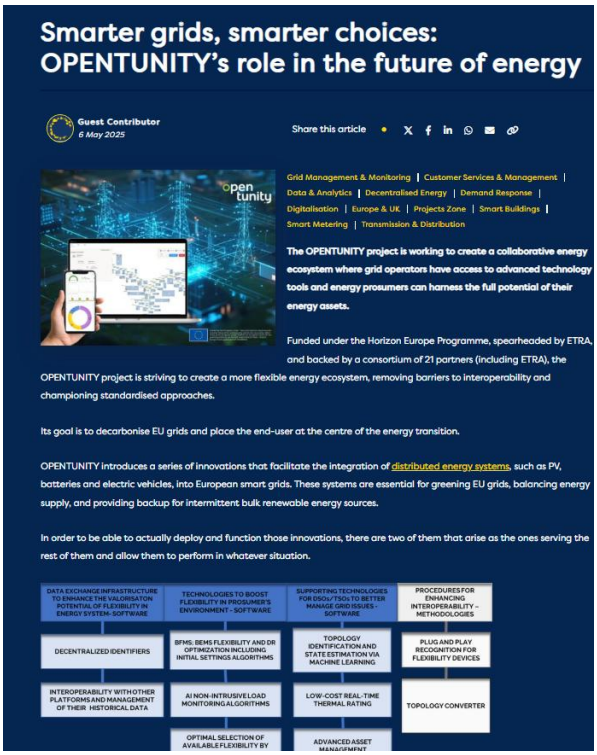
When: 11-12 February 2025

The sixth general meeting of the OPENTUNITY project took place in Madrid, Spain, on February 11 and 12, hosted by UNE at their headquarters. Janez Gregor Golja represented our team at the event and outlined the progress of the Slovenian pilot site.

The first day was dedicated to developments across technical work packages. During the presentation of WP4 innovations, Janez provided an update on task Optimal Selection of Available Flexibility. He showcased the progress made so far, including the successful integration of Avantcar's EV charging stations and Reduxi HEMS as well as presented the analysis of the collected data and the forecasting models developed for these assets. Building on this foundation, the next steps will focus on determining the optimal use of these flexible assets and developing an algorithm to assist the aggregator in identifying the best flexibility options based on forecasted availability.

The second day shifted attention to the pilot sites, with discussions centred around data availability and citizen engagement activities. Janez presented the plans for engaging Amibit and Avantcar users through various interactive initiatives. In addition, a workshop was held to review data availability for the Slovenian pilot, ensuring that Elektro Primorska and Elektro Ljubljana can provide all the necessary inputs for the innovation leaders to carry out their tasks effectively.

Alongside LEST, the meeting was attended by representatives from five other Slovenian partners: Kolektor sETup, Amibit, Avantcar, Elektro Ljubljana, and Elektro Primorska.



Smarter grids, smarter choices: OPENTUNITY's role in the future of energy

Guest Contributor
6 May 2025

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The OPENTUNITY project is working to create a collaborative energy ecosystem where grid operators have access to advanced technology tools and energy prosumers can harness the full potential of their energy assets.

Funded under the Horizon Europe Programme, spearheaded by ETRA, and backed by a consortium of 21 partners (including ETRA), the OPENTUNITY project is striving to create a more flexible energy ecosystem, removing barriers to interoperability and championing standardised approaches.

Its goal is to decarbonise EU grids and place the end-user at the centre of the energy transition.

OPENTUNITY introduces a series of innovations that facilitate the integration of distributed energy systems, such as PV, batteries and electric vehicles, into European smart grids. These systems are essential for greening EU grids, balancing energy supply, and providing backup for intermittent bulk renewable energy sources.

In order to be able to actually deploy and function those innovations, there are two of them that arise as the ones serving the rest of them and allow them to perform in whatever situation.

DATA EXCHANGE INFRASTRUCTURE TO ENHANCE THE VALORISATON POTENTIAL OF FLEXIBILITY IN ENERGY SYSTEM- SOFTWARE
TECHNOLOGIES TO BOOST FLEXIBILITY IN PROSUMER'S ENVIRONMENT - SOFTWARE
SUPPORTING TECHNOLOGIES FOR DSOs/TSOs TO BETTER MANAGE GRID ISSUES - SOFTWARE
PROCEDURES FOR ENHANCING INTEROPERABILITY – METHODOLOGIES
DECENTRALIZED IDENTIFIERS
BFMS: BEMS FLEXIBILITY AND DR OPTIMIZATION INCLUDING INITIAL SETTINGS ALGORITHMS
TOPOLOGY IDENTIFICATION AND STATE ESTIMATION VIA MACHINE LEARNING
PLUG AND PLAY RECOGNITION FOR FLEXIBILITY DEVICES
INTEROPERABILITY WITH OTHER PLATFORMS AND MANAGEMENT OF THEIR HISTORICAL DATA
AI NON-INTRUSIVE LOAD MONITORING ALGORITHMS
LOW-COST REAL-TIME THERMAL RATING
TOPOLOGY CONVERTER
OPTIMAL SELECTION OF AVAILABLE FLEXIBILITY BY
ADVANCED ASSET MANAGEMENT

Figure 15 - Some examples of press clippings.

Outcomes: Media impact (M18-M30)
• Between M18 and M30, OPENTUNITY was featured in 3 additional news articles, bringing the total media presence to 14 appearances across various European and international outlets, including those in Slovenia, the Netherlands, the United Kingdom, Austria, Spain, and EU-wide platforms. • All of them belong to specialised media.

Table 25 - Outcomes achieved from media impact between M18-M30.

3.13 Citizen's engagement initiatives

During this period, citizen engagement initiatives have advanced across several pilot sites, following the internal workshop led by ETRA and JR during the first phase, which provided strategic guidance for end-user interaction.

3.13.1 Greek pilot site

The Greek pilot followed a structured approach to citizen engagement, beginning with the launch of an online questionnaire to assess interest and motivations for participating in OPENTUNITY. The survey received 50 responses in total. One of the key questions asked participants whether they would be willing to receive informational updates about the pilot — 84% of respondents gave their consent.

Based on this group, a first welcome email was sent, providing an overview of OPENTUNITY, details about the Greek pilot's objectives, and a link to the interactive platform, where users can explore project updates and educational content tailored to their role as citizens.

The next steps in the engagement plan include the release of a second email, which will explain how registered users can take a more active role — especially by volunteering as flexibility providers in the local energy market, under the guidance of ICCS and Hypertech. To support this, a coordination meeting with ETRA and JR is scheduled to align the outreach strategy.

In addition, the team plans to organize interactive workshops for the registered users, creating a space for dialogue, feedback, and deeper involvement in the pilot's ongoing activities.

Figure 16 - Some images of the Greek interactive platform.

3.13.2 Slovenian pilot site

The Slovenian pilot has approached citizen engagement through a phased strategy designed to better understand user needs and gradually involve them in energy transition efforts.

The first phase focused on collecting insights via an online survey, active from 7 May to 2 June, which aimed to capture citizens' views on energy consumption, production, management, cost awareness, and interest in becoming more active energy users. The survey was shared through personal networks and LinkedIn to reach both energy experts and everyday consumers. A total of 62 responses were received, with the majority coming from Slovenian household consumers.

Key findings showed that most participants were household users with relatively standard consumption habits and limited use of large appliances or production systems. While many expected electricity costs to rise, this wasn't perceived as a major concern — possibly due to electricity still representing a small share of household expenses. There was a high level of awareness about the new Slovenian Electrical Network Act and strong interest in (H)EMS solutions, particularly in real-time energy monitoring through NILM (Non-Intrusive Load Monitoring).

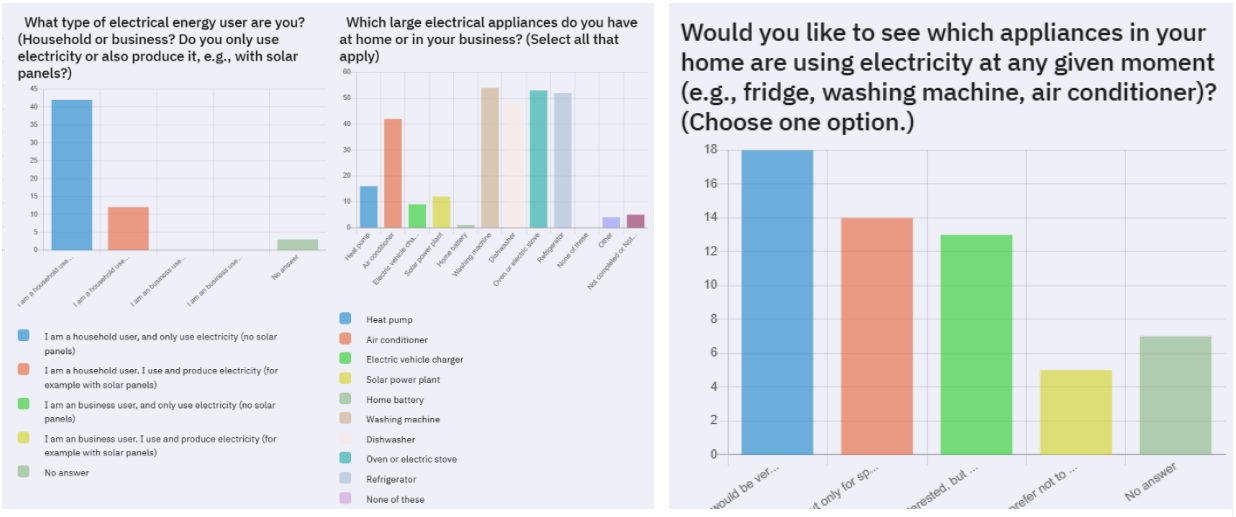

Figure 17 - Slovenian survey results

Based on these findings, the next phase will involve the installation of Reduxi EMS devices at selected users' premises to help monitor and optimize energy usage. In parallel, the team will begin integrating NILM technologies to offer deeper consumption insights, either in real-time or through offline analysis.

3.13.3 Spanish pilot site

The Spanish pilot organised its first citizen-focused workshop in February to recruit participants. The event successfully engaged local households, with 10 participants agreeing to join the pilot. During the session, OPENTUNITY presented a demo of the NILM interface developed by ETRA, offering a practical demonstration of the solution's functionalities and potential benefits.

Since then, technical preparations and device testing have taken place throughout March and June. The equipment installation began in May and is expected to be completed by July. The pilot phase will officially start in August.

To gather feedback from participants, the current plan is to use the feedback function integrated into the OPENTUNITY NILM app that users will be interacting with. In addition, a second citizen workshop is scheduled for September, in collaboration with the city hall, to deepen engagement, collect participants' views on the OPENTUNITY tools, and assess the pilot's progress.

Outcomes: Citizen engagement (M18-M30)
These local engagement actions have successfully initiated direct interaction with citizens, resulting in the first recruited pilot users, increased public awareness of OPENTUNITY, and the creation of tailored tools and platforms to foster long-term participation in the project.

Table 26 - Outcomes achieved from citizens engagement between M18-M30.

3.14 Cooperation activities

OPENTUNITY remains strongly committed to fostering collaboration and knowledge-sharing as essential pillars for addressing regulatory barriers, innovating business models, and accelerating the energy transition. The project actively engages with relevant initiatives, associations, and other EU-funded projects to create synergies and exchange best practices. Special emphasis is placed on the BRIDGE initiative.

During the reporting period (M18–M30), the project strengthened its cooperation activities, maintaining active participation in all four BRIDGE Working Groups (WGs), contributing to joint tasks, surveys, and reports, and attending key events. Table 27 provides an overview of the main cooperation actions carried out.

Name of project or initiative	Activity	Location	Date	N° participants	Link

BRIDGE	Members in the WGs: Regulation, Data Management, Business Models. Chair of the WG Consumer and Citizen Engagement	NA	Ongoing	7	NA
BRIDGE	Regular participation in the meetings and workshops of the different WGs. Partners have participated in 15 internal meetings, 7 workshops, 2 GAs.	Online	Ongoing	NA	NA
BRIDGE	Participation in 12 surveys of different WGs.	Online	2023-2025	NA	NA
BRIDGE	Reference framework	Online	10/2024	NA	https://op.europa.eu/en/publication-detail/-/publication/6c59b7be-a0ad-11ef-85f0-01aa75ed71a1
BRIDGE	Consumer and citizen engagement working group – Annual activity report 2023	Online	11/2024	NA	https://op.europa.eu/en/publication-detail/-/publication/34f01804-a563-11ef-85f0-01aa75ed71a1/language-en
BRIDGE	Publication of an article in the BRIDGE Newsletter, issued in December 2024.	Online	12/2024	NA	https://ec.europa.eu/newsroom/etipsnet_bridge/items/861820/en
BRIDGE	BRIDGE Brochure 2024	Online	07/2024	NA	https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/system/files/2024-08/05-07-2024_BRIDGE-brochure-final%20%281%29.pdf
BRIDGE	Participation in the BRIDGE General Assembly (GA) 2025	Brussels	25-26/03/2025	≥ 100	https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/events/bridge-general-assembly-2025
Every1 Cluster	First joint activity - Interview	Online	26/11/2024	2	https://opentunityproject.eu/2024/11/26/bridging-gaps-in-digital-energy-a-talk-with-every1/
VITO	Interview to discuss the Local Flexibility Market designed for the Greek Pilot in OPENTUNITY.	Online	03/2025	4	NA

Energy Nexus Cluster	OPENTUNITY joins Energy Nexus Cluster	Online	04/2025	10	https://glocalflex.eu/energy-nexus/
Every1 Cluster	Second joint activity – participation on openXplore YouTube series	Online	05/2025	2	Not yet
External DSOs and FSPs	Workshops about flexibity markets – Held in OPENTUNITY GA.	Oslo, Norway	06/2025	5	https://www.linkedin.com/feed/update/urn:li:activity:7338576412863295491

Table 27- List of cooperation activities between M18-M30.

Outcomes: Cooperation activities (M18-M30)
• Six partners are representatives of OPENTUNITY in the four WGs of BRIDGE. • Actively participation in the BRIDGE General Assembly 2025. • Partners have participated in 23 internal meetings and 7 workshops with BRIDGE. • Participation in 12 surveys of different BRIDGE WGs. • Participation in 4 reports in BRIDGE. • Actively participation in the BRIDGE communication action. • Publication of an article in the BRIDGE Newsletter, issued in December 2024. • Start collaboration actions with other EU projects and initiatives

Table 28 - Outcomes achieved from cooperation activities between M18-M30.

3.14.1 BRIDGE initiative

OPENTUNITY remains actively involved in the BRIDGE initiative, contributing to several key Working Groups: Business Models, Regulation, Data Management, and Consumer and Citizen Engagement. These groups serve as collaborative platforms to align with other Horizon Europe projects, share best practices, and contribute to shaping EU energy policy recommendations.

In addition to the technical working groups, OPENTUNITY also participates in BRIDGE communication activities, helping to increase the visibility of EU-funded energy research. This continued engagement ensures that OPENTUNITY remains connected to the broader innovation ecosystem and reinforces its impact beyond the project's direct scope.

3.14.1.1 Partners involved in OPENTUNITY

Since the last reporting period, there has been a change in the project's representation within the BRIDGE initiative on behalf of HYPERTECH. Giorgos Pitsiladis and Ilias Sarantakos are no longer involved in OPENTUNITY. The new representative is Nikolaos Stathopoulos, who has now taken over the responsibilities related to BRIDGE participation.

Nikolaos Stathopoulos (HYPERTECH) **represents OPENTUNITY in the BRIDGE Data Management Working Group**. Nikolaos holds a Physics Degree from the University of Athens - Greece and a PhD in Energy and Thermal Engineering from the École Nationale des Travaux Publics de l'État (ENTPE), Lyon – France. He is currently working at HYPERTECH as a Project and Technical Manager on EU-funded projects. Nikolaos was involved as a Project Manager in the ACCEPT and FLEXIGRID projects and he is currently a Project Manager of EBENTO and OPENTUNITY.

3.14.1.2 OPENTUNITY contributions to BRIDGE Working Groups and Task Forces

WG Consumer and Citizen Engagement

During this period, OPENTUNITY actively participated in various WG Consumer and Citizen Engagement activities, since this working group is led by a member of OPENTUNITY. Contributions included involvement in the preparation and dissemination of key BRIDGE materials such as the 2025 Brochure, the 2024/2025 Annual Report, and the BRIDGE GA Proceedings 2025. The project also took part in interviews with the Working Group Chair and engaged in multiple WG and leadership meetings. Additionally, OPENTUNITY was present at important events including the BRIDGE General Assembly and the European Sustainable Energy Week (EUSEW). Active involvement in the Business Model Working Group Task 1 and Task 2 workshops further strengthened the project's contribution to advancing consumer and citizen engagement within BRIDGE.

WG Data Management

OPENTUNITY has remained active in the Data Management Working Group, attending the planned meetings and contributing to joint actions. Notably, the project completed the 2024 edition of the Action #5 survey on the interoperability of home appliances. In addition, as part of the joint effort between the Consumer and Regulation WGs, OPENTUNITY provided input on the regulatory framework for energy sharing in Greece by completing the relevant questionnaire.

WG Business Models

Within the BRIDGE Working Group on Business Models, OPENTUNITY actively contributed to several key activities during this period. Notably, the project provided input to the survey on business model development (Task 2), drawing from its practical insights and pilot experiences. OPENTUNITY also participated in the preparation of the template for interviews on Energy Efficiency Data Spaces (EEDS) under Task 3, helping shape its structure and content. Additionally, the project contributed to the survey on regulatory and consumer aspects in energy sharing, offering perspectives from Spain, Greece, and Slovenia.

WG Regulation

During this period, OPENTUNITY actively contributed to several activities within the WG Regulation. These included participation in surveys related to Action 1 on improving market access for energy consumers to value their flexibility, and Action 5 focused on supporting system operators to prepare the grid for 2030. The project also engaged in workshops and provided input for

recommendations on energy sharing and peer-to-peer trading, contributing to the development of future regulatory perspectives. OPENTUNITY was present at key events such as the ETIP SNET Regional Workshops (2024 and 2025) and the BRIDGE General Assembly held in March 2025.

Communication Task

During this period, OPENTUNITY has continued to actively support BRIDGE communication efforts. The project has maintained its visibility through regular social media posts, contributions to the BRIDGE website and newsletter, as well as direct communication via email. These actions help ensure consistent dissemination of key updates and reinforce OPENTUNITY's engagement within the BRIDGE community.

3.14.1.3 Synergies with other BRIDGE projects

OPENTUNITY has initiated collaboration with the FEDECOM project to jointly develop a CENELEC Workshop Agreement (CWA). The proposed topic for this initiative is "Impact of P2P trading at distribution grid level." This effort aims to explore and define key considerations, challenges, and potential guidelines for the integration of peer-to-peer energy trading within distribution networks. The development of this CWA represents a strategic contribution to standardisation activities in the energy domain, supporting regulatory harmonisation and technological interoperability across Europe.

3.14.2 VITO - European research centre

OPENTUNITY has actively contributed to a study commissioned by the Directorate-General for Energy (DG ENER) and conducted by the European research center VITO [12], focusing on the specification and design criteria for Local Flexibility Markets (LFMs). This initiative is independent of the BRIDGE activities and aims to support the future development of a network code for demand response under Article 59(1)(e) of Regulation (EU) 2019/943.

The Greek pilot site was invited to participate due to its relevance and practical experience with flexibility markets. Representatives from HEDNO (DSO), IPTO (TSO), and NODES—all actively involved in the LFM developed within OPENTUNITY—took part in the consultation. This included completing an in-depth questionnaire and participating in a follow-up interview with VITO's research team.

Through this contribution, OPENTUNITY supports the development of a coherent and efficient European framework for LFMs, particularly by offering practical insights into DSO-TSO coordination, which is a central element of the Greek pilot.

Although the final results of the study have not yet been published, VITO has confirmed that participating projects will be notified upon release. Additionally, VITO mentioned that the study's insights will be shared in a dedicated follow-up workshop, fostering further knowledge exchange across European LFM initiatives.

3.14.3 Collaboration with Every1 project

The collaboration between OPENTUNITY and the Every1 project [11] has continued to strengthen since its initial stages. During this reporting period, several joint actions have been implemented to enhance visibility and promote shared goals.

1. A written interview was prepared and published on the OPENTUNITY website, highlighting the synergies between the two projects, common objectives in empowering energy communities, and the overall value of inter-project collaboration within Horizon Europe. The interview was further promoted through social media and the OPENTUNITY newsletter [7].
2. Additionally, Every1 participated in our openXplore interview series, focusing on the role of women in science and their contribution to European research projects. This video interview will be published on OPENTUNITY's YouTube channel [5] and promoted through our website and social platforms.

Both projects remain in regular contact and will continue exploring new opportunities for joint actions and shared dissemination activities in the coming months.

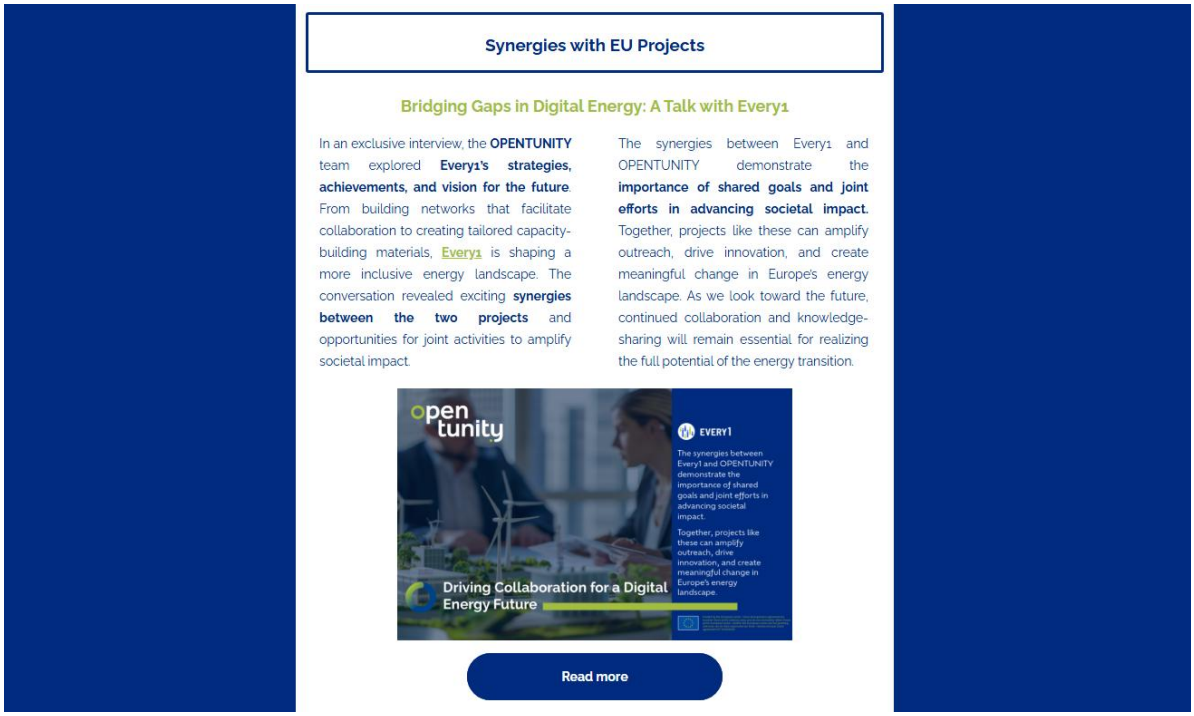

Figure 18 –Actions carried out with Every1 Project.

3.14.4 OPENTUNITY joins Energy Nexus Cluster

During this reporting period, OPENTUNITY officially became a member of the Energy Nexus Cluster, a collaborative network of EU-funded projects focused on the digitalisation and decarbonisation of the energy sector. This membership aligns with OPENTUNITY's objectives to strengthen synergies with other initiatives, increase visibility, and contribute to knowledge exchange within the European innovation ecosystem.

The announcement of OPENTUNITY's inclusion in the cluster was promoted through the project's website and social media channels, reinforcing the commitment to collaboration and joint dissemination efforts. Likewise, OPENTUNITY was featured on the Energy Nexus Cluster website [13] as one of its newest members.

As next steps, the cluster is planning several joint activities during Enlit Europe 2025, which will take place in Bilbao in November. These include:

- An internal workshop among the cluster's projects on Monday, 17th November, the day before the event officially begins.
- A public workshop/panel discussion hosted in the EU Projects Zone, where cluster members will present shared challenges, solutions, and innovation outcomes to a broader audience.

These collaborative actions aim to maximise the cluster's collective impact and promote cross-project learning and visibility.

Figure 19 - Energy Nexus Cluster banner.

3.14.5 CEN-CENELEC Workshop Agreement with FEDECOM

OPENTUNITY has initiated a collaboration with the FEDECOM project [13] to jointly develop a CEN-CENELEC Workshop Agreement (CWA) [14]. This agreement will focus on the impact of peer-to-peer (P2P) energy trading at the distribution grid level, addressing technical challenges and opportunities arising from increased bidirectional flows within energy communities.

The CWA will be divided into two complementary areas of work:

- FEDECOM will lead the section related to P2P energy trading mechanisms within and between communities.
- OPENTUNITY will be responsible for assessing the impact of these bidirectional flows on the grid, particularly focusing on voltage variations and transient state behavior.

As a preparatory step, an internal standardization workshop was organized by UNE on June 23rd. This session introduced the concept of CWAs to the OPENTUNITY consortium, outlined expected outcomes, presented relevant examples, and defined the path forward. FEDECOM was invited to participate in this session. The workshop was recorded and will soon be available on OPENTUNITY's YouTube channel.

The CWA is currently in its initial phase, with the Workshop Description Form—the first step for formal registration—already sent to the CEN-CENELEC Management Centre (CCMC) and the related Technical Committees for approval and registration of the Workshop.

A CENELEC Project Manager has already been assigned to this CWA proposal, and a consultation period with the related TCs has begun.

CENELEC TC 8X will have a 45 days timeframe for approving the creation of this WorkShop (WS), as the CWA scope may fall under its scope (The existence of a CEN and/or CENELEC Technical Body in the same scope of the CEN and/or CENELEC Workshop does not preclude the launch of a CEN and/or CENELEC Workshop. Indeed, it can be a suitable solution to pre-standardize a new topic in the CEN and/or CENELEC Workshop), and the other related Committees might also express their comments about the proposal during this period.

After the approval, the WS will be announced by CENELEC and there will be a 30-day open commenting period during which stakeholders may declare their intention to participate in the WS.

This collaboration represents a significant step toward aligning innovative energy solutions with future European standards.

3.14.6 Standardization bodies

Since the last period, UNE has reported updated information to the standardization Technical Committees that expressed their interest in the project after the first contacts, which include CENELEC TC 13, TC 57 and Coordination Group on Smart Grids (COG-SG), and offered to present the project in their future meetings.

These contacts led to the opportunity to present OPENTUNITY at the March 3rd (M27) online meeting of the COG-SG Working Group "Set of standards", which was recorded for dissemination purposes.

Contact has been made with the Focus Group "Data, Dataspaces, Cloud and Edge" (currently disbanded), CEN-CLC JTC 25 which took over the relevant activities of the previous Focus Group, and CEN-CLC JTC 24 "Digital Product Passport – Framework and System".

The previous Strategy for the development of the standardization activities was updated as a "Report on the interaction with the standardization system" with the relevant adjustments to the strategy according to the latest interactions with the standardization Technical Committees, and regarding the identification of new relevant standardization activities such as the Digital Product Passport (DPP) and Dataspaces standardization Committees.

In addition, the CENELEC TC 8X, SR Smart Energy and COG-SG committees have been contacted regarding the already mentioned CWA for an approval and commenting period as explained in the previous section.

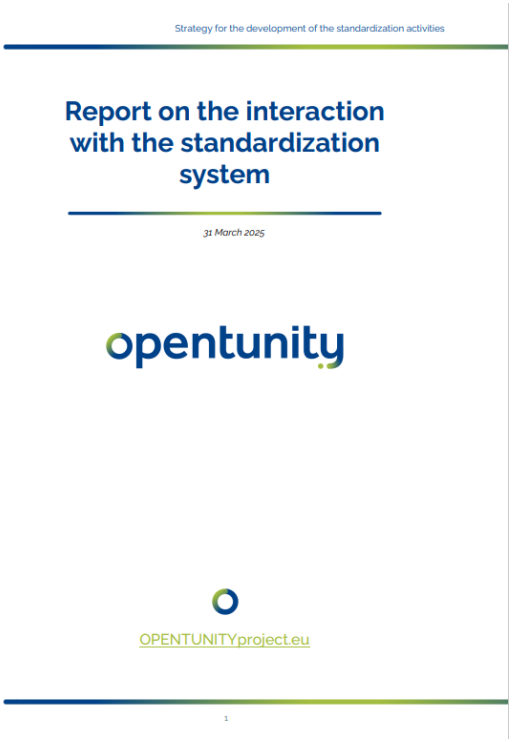

Figure 20 - Frontpage of the draft report "Report on the interaction with the standardization system".

4 Assessment

4.1 Impact – Key Performance Indicators (KPIs)

Key Performance Indicators (KPIs) are essential tools used to measure the effectiveness of OPENTUNITY's dissemination and communication strategy. They serve to assess how well the project is progressing toward its defined outreach goals and to identify areas for improvement.

A preliminary set of KPIs was defined in Deliverable D8.1. In this updated deliverable, the table below presents the evolution of each indicator by comparing the results obtained at M18 with the latest available data at M30, offering a clear view of the progress made over time.

Dissemination action	KPIs	Targets set to achieve in M48	M18	M30
Website	Design and Development of the project's web portal	Fully developed web portal by M4	YES	YES
	Total page views	≥ 10,000	1,638	4.153
	Regular update of the website content	Continuous update (1 time/month)	YES	YES
	Visitor's countries	Minimum 10 countries	≥ 10	≥ 50
	Nº of post	≥ 110	23	46
	Nº of documents published	≥ 30	10	19
	Nº of downloads	≥ 800	95	1.198
Social networks	Nº of followers on X	≥600	160	162
	X posts	≥ 1,000	70	153
	Impressions in X	≥ 200,000	21,805	25.195
	Nº of followers on LinkedIn	≥ 300	239	387
	LinkedIn posts	≥ 200	36	75
	Impressions in LinkedIn	≥ 70,000	16,581	33.143
	Content share in the Zenodo	≥ 4	Period 2	3

	YouTube subscribers	≥ 100	8	15
	YouTube views	≥ 3,500	190	738
Scientific publications	Nº of scientific papers	≥ 9	1	3
Promotional materials	Nº of brochure designed	1	1	1
	Nº of roll-up designed	1	1	1
	Nº of videos produced	≥ 10	5	22
	Handbook lessons learnt	1	NYA (Not Yet Available)	NYA (Not Yet Available)
	Downloads of promotional materials at the webpage	≥ 500	70	243
Newsletter	Nº of newsletter forwarded	8	2	3
	Nº of subscribers	≥ 200	41	42
Deliverables	Nº of public deliverables	28	7	8
	Nº of public deliverables downloaded	≥ 200	10	811
Press releases	Nº of press releases	6	1	2
	Media presence	≥ 40	10	14
	Countries reached	≥ 7	6	6
Events	Nª of events attended	≥ 20	7	22
	Nº of Trade fairs	≥ 3	2	3
	Nº of events organized	≥ 5	2	3
	Nº of pitch events	≥ 10	4	10
	Visitors/attendants reached	≥1,500	≥600	≥1.900
Workshops	Nº of all the workshops	4	Period 2	2
	Nº of joint workshops with other related projects and/or initiatives	2	0	2

	Total participants	≥ 200	NYA	NA
Webinars	N° of all webinars	4	Period 2	0
	Total participants/views	≥ 400	NYA	0
	EU projects invited	≥ 4	NYA	0
Joint activities with other related EU projects or initiatives	N° of related projects or initiatives addressed	≥ 5	2	13
	N° of actions	≥ 5	2	10
	Audience reached	≥ 200	≥ 100	≥ 220
BRIDGE activities	N° of events/meetings attended	20	19	49
	Contributions in reports	2	4	14
	N° of joint actions with other EU projects	≥ 4	Period 2	2
Talks	N° of talks	3	Period 2	5
	Participation of related projects or initiatives	≥ 3	Period 2	2
	Total of participants	≥ 200	Period 2	150
Online campaigns	N° of campaigns	4	2	3
	Engagements	≥ 7,000	286	264
	Impressions	≥ 1,000	3.444	11.210
Women in energy action	N° of actions	2	Period 2	1
	N° of women reached	≥ 100	Period 2	1
	N° entities reached	≥ 5	Period 2	-

Table 29 - List of KPIs for OPENTUNITY to be reached by M48.

5 Conclusions

- The D8.1 Plan for Dissemination, Communication, and Exploitation of Results is being followed by the Consortium to ensure good dissemination and communication progress, particularly adhering to the publication procedure.
- The KPIs defined in D8.1 are on good track or even already achieved, with the exception of KPIs for X (most probably due to the general decline in popularity of X) and Youtube.
- Messages have been effectively conveyed through different target audiences and channels.
- All dissemination materials (icons, brochures, roll-ups, poster and document templates, visuals, and videos) have been consistently used to promote OPENTUNITY at events and other outreach activities
- The website has recorded 4,153 visits, with 46 posts published to date. Key sections attracting the most interest include Home, Library, Partners, Dissemination Materials, News, Sites, and Innovations. Additionally, over 1,198 documents have been downloaded, reflecting strong user engagement with available resources.
- Social media platforms have been instrumental in supporting the project's dissemination activities. On X, the account has generated 25,195 impressions from 153 tweets and reached 162 followers. LinkedIn has shown steady growth with 403 followers, 75 posts, and 33,143 impressions. Meanwhile, the YouTube channel features 23 videos, accumulating 738 views and 15 subscribers.
- Two press releases have been issued: one introducing the OPENTUNITY project and another highlighting recent updates and innovations.
- OPENTUNITY has been featured in a total of 14 news articles published by specialised European and international media outlets.
- OPENTUNITY newsletters have gathered over 40 subscribers. Three editions have been published so far, achieving an average click-through rate of 33% per unique opens.
- Three open-access scientific publications have been published. Additionally, partners are currently preparing two new papers.
- A total of 8 public deliverables have been made available on the website, accumulating 823 downloads to date.
- Two online campaigns were carried out during the reporting period (M18–M30). The most impactful campaign, focused on promoting OPENTUNITY's innovations, reached a total of 8,608 impressions
- Pilot sites have been carrying out surveys and initial outreach to understand and engage end-users, helping to shape future engagement activities.
- During this period (M18–M30), partners have been actively involved in the BRIDGE initiative, contributing to all four Working Groups (WGs). They participated in the 2025 BRIDGE General Assemblies, internal meetings, workshops, and surveys, as well as contributing to the 2024 and 2025 BRIDGE brochures and reports. Additionally, partners published an article in the December 2024 BRIDGE Newsletter and took part in various BRIDGE communication activities.
- Collaboration with the Every1 project has begun, with an initial interview conducted for our website as the first joint action. Further collaborative activities are currently being developed.

- OPENTUNITY has mantained contact with the standardization bodies, disseminating its advances, and identifying new work relevant to the project.
- Previous "Strategy for the Development of Standardization Activities" document which specified an action plan for upcoming tasks involving communication with technical standardization bodies and contributions to standardization, has been updated as a "Report on the interaction with the standardization system" and this document will continue to evolve according to the progress of the project.
- OPENTUNITY has established collaboration with FEDECOM for the development of a common CWA as a way to contribute to standardization.

6 Next steps

In the coming months, a detailed action plan has been established to successfully achieve the targets outlined in D8.1. The key actions include:

1. Create a new OPENTUNITY general video, with partners participation.
2. Publication of three new scientific publications.
3. Establish a strategy to broaden the newsletter's reach and increase its subscriber base.
4. Issuing a press release on the status of the OPENTUNITY project before M36.
5. Production of four new videos by M40.
6. Finalize online campaign about stakeholders' engagement by M32.
7. Define one online campaign to be started by M32.
8. Establishing collaboration actions with two new EU projects and entities.
9. Publication of Newsletter #5 in M36 and Newsletter #6 in M48.
10. Organization of two webinars by M40.
11. Organization of one workshop per pilot site for citizen engagement by M42.
12. Define one Women in Energy action by M40.
13. Upload approved public deliverables to the website.
14. Prioritize increasing the number of publications and enhancing visitor traffic on the OPENTUNITY website.
15. Participation in Enlit Europe (November 2025).
16. CENELEC WS approval and announcement (M32)
17. CENELEC WS open commenting period on draft Project Plan (M32-M33)
18. CENELEC WS Kickoff Meeting (M34)

7 References and acronyms

7.1 References

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7.2 Acronyms

AEM	AZIENDA ELETTRICA DI MASSAGNO (AEM) SA
AI	Artificial Intelligence
AMIBIT	AMIBIT, ENERGETSKI SISTEMI, D.O.O
AVANTCAR	AVANT CAR POSLOVNI INZENIRING D.O.O.O

BM	Business Models
BSA	BLUE SUN AUTOMATION LIMITED
CA	Consortium Agreement
CCE	Consumer and Citizen Engagement
CHP	Combined Heat and Power
CINEA	European Climate, Infrastructure and Environment Executive Agency
D	Deliverable
D&E	Dissemination and Exploitation
DA	Description of Action
DCOM	Dissemination and Communication Manager
DM	Data Management
DSOs	Distribution System Operators
EC	European Commission
EL	ELEKTRO LJUBLJANA PODJETJE ZADISTRIBUCIJO ELEKTRICNE ENERGIJE D.D.
EP	ELEKTRO PRIMORSKA, PODJETJE ZA DISTRIBUCIJO ELEKTRICNE ENERGIJE D.D.
ESCO	Energy Service Companies
ETRA	ETRA INVESTIGACION Y DESARROLLO SA
EU	European Union
EWF	ENERGY WEB DEVHUB GMBH
EYPESA	ESTABANELL Y PAHISA ENERGIA SA
GA	General Assembly
HEDNO	DIACHEIRISTIS ELLINIKOU DIKTYOU DIANOMIS ELEKTRIKIS ENERGEIAS AE
HIVE	HIVE POWER SA
HRB	Horizon Results Booster
HYP	HYPERTECH KENTRO EPISTIMONIKON KAI TECHNOLOGIKON EREVNON AEIFORIAS ASTIKI MI KERDOSKOPIKI ETAIREIA
ICCS	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS
ICT	Information and Communication Technology
IMPULSA	ESTABANELL Y PAHISA IMPULSA
IoT	Internet of Things

IP	Intellectual Property
IPR	Intellectual Property Rights
IPTO	INDEPENDENT POWER TRANSMISSION OPERATOR SA
JR	JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH
KER	Key Exploitable Result
KPIs	Key Performance Indicators
M	Month
NA	Not Available
NODES	NODES AS
NYA	Not Yet Available
PC	Project Coordinator
PDCER	Dissemination, Communication and Exploitation of Results
QUE	QUE Technologies
R&I	Research and Innovation
REG	Regulation
RES	Renewable Energy Sources
SETUP	KOLEKTOR SETUP, STORITVE ENERGETSKEGA UPRAVLJANJA, D.O.O.
SG	Stakeholder Group
SMEs	Small and medium-sized enterprises
STEM	Science, Technology, Engineering and Mathematics
SUPSI	SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA
TSOs	Transmission System Operators
UL	UNIVERZA V LJUBLJANI
UNE	ASOCIACION ESPANOLA DE NORMALIZACION
WGs	Working Groups
WP	Work Package
DG ENER	Directorate-General for Energy

Table 30- List of acronyms

8 Annex 1 - OPENTUNITY Newsletter #3

OPENTUNITY's Milestone Meeting in Graz

On October, the OPENTUNITY consortium held its first **plenary meeting** after the project review in Graz.

This milestone event focused on addressing feedback from the European Commission, reviewing **technical progress**, and planning next steps.

Day 1 featured technical updates from all teams, while Day 2 centered on pilot site progress and future actions to **validate solutions in real-world scenarios**. The meeting also fostered collaboration and team-building in the beautiful setting of Graz, paving the way for the project's next phases.

Advanced State Estimation for Distribution Grids Based on Deep Learning

OPENTUNITY is exploring cutting-edge solutions for modern energy systems, and our latest development focuses on **advanced state estimation for distribution grids using deep learning techniques.**

This approach leverages the power of **artificial intelligence to enhance grid observability**, even with limited measurement data. By combining data-driven models with physical constraints, our solution provides more **accurate and reliable grid state estimations**, paving the way for improved decision-making and grid management.

Visualization of State estimation in ÉTER

Read more

OPENTUNITY in Action: Events, Conferences, and Key Participation

Innovation in Energy Flexibility: MedPower 2024

OPENTUNITY recently participated in **MEDPOWER 2024**, sharing groundbreaking insights on energy flexibility. Our team presented innovative solutions designed to enhance the adaptability and resilience of energy systems, crucial for supporting the energy transition.

The presentation focused on **flexibility mechanisms** that empower energy stakeholders to manage supply and demand more effectively, integrate renewable energy sources, and ensure grid stability.

Read more

Low-Voltage Grid Management Solutions at SST 2024

At **6th International Conference on Smart Systems and Technologies (SST)** *2024*, OPENTUNITY showcased its innovative **solutions for low-voltage grid management**, highlighting the critical role of smart technologies in **optimizing grid performance**. Our team presented advanced tools designed to enhance the efficiency and reliability of low-voltage grids, crucial for integrating renewable energy sources and managing demand.

Read more

7th International Grid Service Market Symposium

OPENTUNITY took center stage, presenting our groundbreaking solutions that are paving the way for a more sustainable and resilient energy system. Our team shared insights into the **latest technologies** designed to address key challenges in the energy transition, focusing on **innovation, flexibility, and efficiency**.

This event was a fantastic opportunity to engage with industry leaders and showcase how OPENTUNITY is driving real-world solutions for the future of energy.

Read more

EV Fleet Flexibility: SAEE Conference 2024

OPENTUNITY presented groundbreaking research on harnessing the **flexibility of electric vehicle (EV) fleets to drive operational efficiency and support the green transition**. With over 50,000 users, Avantcar's EV-sharing service demonstrates the **potential of sustainable mobility**—but its full energy management capabilities remain untapped.

The paper highlights how OPENTUNITY integrates EV charging stations into an advanced **aggregation platform**, leveraging **machine learning models** for consumption forecasting and flexibility optimization.

Synergies with EU Projects

Bridging Gaps in Digital Energy: A Talk with Every1

In an exclusive interview, the **OPENTUNITY** team explored **Every1's strategies, achievements, and vision for the future**. From building networks that facilitate collaboration to creating tailored capacity-building materials, Every1 is shaping a more inclusive energy landscape. The conversation revealed exciting **synergies between the two projects** and opportunities for joint activities to amplify societal impact.

The synergies between Every1 and OPENTUNITY demonstrate the **importance of shared goals and joint efforts in advancing societal impact.** Together, projects like these can amplify outreach, drive innovation, and create meaningful change in Europe's energy landscape. As we look toward the future, continued collaboration and knowledge-sharing will remain essential for realizing the full potential of the energy transition.

Read more

OPENTUNITY's Participation in BRIDGE Activities

European Week of Regions and Cities

OPENTUNITY actively participated in the **European Week of Regions and Cities**, engaging stakeholders in discussions about local energy solutions and their role in the broader energy transition. Through this platform, we highlighted the importance of community involvement and collaboration in implementing innovative energy solutions across Europe.

Read more

BRIDGE Consumer and Citizen's Engagement Working Group

OPENTUNITY project is part of the **BRIDGE Consumer and Citizen's Engagement Working Group (CCE WG)**. In collaboration with the European Commission, we contributed to the **2023/24 CCE WG Report**, focusing on how citizens and consumers can take an active role in driving the energy transition.

Read more

OPENTUNITY Project - Media

OPENTUNITY launches *OpenXplore*!

Watch the video

Discover the OPENTUNITY's Greek Pilot Site

opentunity

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Horizon Europe Grant agreement N° 101096333.

9 Annex 2 - Event reports

EVENT 1: Grid Service market Symposium 2024

a) Place (City and Country): Lucerne, Switzerland
b) Dates: 1-2 July 2024
c) Type of event chose one (multiple choices are able): Participation to a Conference
d) Objective of the event: Bringing together experts from industry and academia to discuss recent developments, technological progress and regulatory challenges to optimally integrate renewable energy sources
e) Organisers: Prof. Christoph Imboden, Institute for Innovation & Technology Management, CC for Power Economy Lucerne University of Applied Sciences
f) Language: English
g) Webpage of the event: https://www.gridservicemarket.com/2024
h) Number of participants:
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Civil Society
j) Partner who participates: NODES to represent OPENTUNITY
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation and poster presentation
l) Main conclusions (after the event): OPENTUNITY addresses key challenges of the energy transition by deep diving into the challenges of the entire flexibility value chain as well as data storage and exchange
m) Press release (link): NA
n) Social media posts (link): https://www.linkedin.com/feed/update/urn:li:activity:7206215232103288832
o) Photos:
p) Attached documents: NA

EVENT 2: European Weak of Regions and Cities

a) Place (City and Country): Brussels, Belgium
b) Dates: 07.10.2024-10.10.2024
c) Type of event chose one (multiple choices are able): Organisation of a Workshop, Participation to a Conference, Participation to a Workshop.
d) Objective of the event: The European Week of Regions and Cities is an annual four-day event during which cities and regions showcase their capacity to create growth and jobs, implement European Union cohesion policy, and prove the importance of the local and regional level for good European governance.
e) Organisers: European Commission
f) Language: English
g) Webpage of the event: https://regions-and-cities.europa.eu/
h) Number of participants:
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Civil Society, Policy Makers
j) Partner who participates: JOANNEUM RESEARCH
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation
l) Main conclusions (after the event): The high level of participation and intense discussion proves that practitioners are eager to understand how to effectively involve citizens in the journey toward a more sustainable future.
m) Early engagement is essential. We need to continue developing methodologies that bring citizens into the fold from the beginning of projects. Early involvement means better alignment, understanding, and impact.
n) Press release (link): NA
o) Social media posts (link): https://www.linkedin.com/in/michael-brenner-fliesser-99b9bb270?miniProfileUrn=urn%3Ali%3Afsd_profile%3AACoAAEJbNscBKz0ti3UKxccd_tAKQ0LTEvi1H24&lipi=urn%3Ali%3Apage%3Ad_flagship3_detail_base%3BIVL0MdFJT2qhLeDZwf8QMw%3D%3D
https://www.linkedin.com/feed/update/urn:li:activity:7216699387534581762
https://www.linkedin.com/feed/update/urn:li:activity:7247511957010825216
https://www.linkedin.com/feed/update/urn:li:activity:7252243900537430016
p) Photos:
q) Attached documents: NA

EVENT 3: 6th SST conference Osijek; Special Session: Creating synergies in Widening countries on the topic of low-voltage grid management – SynGRID

a) Place (City and Country): Osijek, Croatia
b) Dates: 16.10.2024
c) Type of event chose one (multiple choices are able): Participation to a Conference
d) Objective of the event: At the 6th International Conference on Smart Systems and Technologies in Osijek, Croatia, SynGRID led a special session on innovative solutions for low-voltage grid management. The session tackled the critical challenges of integrating flexibility into modern power grids to support Europe's energy transition.
e) Organisers: FERIT - Faculty of Electrical Engineering, Computer Science and Information Technology Osijek
f) Language: English
g) Webpage of the event: https://sst-conference.org/index.php/special-sessions-2024/
h) Number of participants: 50
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research)
j) Partner who participates: IRI UL, FE UL
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): presentation of the project at the session
l) Main conclusions (after the event): NA
m) Press release (link): https://www.syngrid-project.eu/news-events/syngrid-special-session-at-sst-2024-driving-synergies-in-low-voltage-grid-management/
n) Social media posts (link):
https://www.linkedin.com/feed/update/urn:li:activity:7254064170675933185
https://www.linkedin.com/feed/update/urn:li:activity:7251532633761873920
https://www.linkedin.com/feed/update/urn:li:activity:7254763501959684096
o) Photos:
p) Attached documents: NA

EVENT 4: MedPower 2024

a) Place (City and Country): Athens/Greece
b) Dates: 3-6 November 2024
c) Type of event chose one (multiple choices are able): Participation to a Conference
d) Objective of the event: The Conference aims to be at the forefront of shaping the future of decarbonized, efficient, secure and resilient power systems. It intends to provide a forum for distinguished researchers, industry experts, policymakers, and academia to explore the latest trends, challenges, and innovations in the energy landscape.
e) Organisers: Various (see website) Hosted by NTUA/SmartRUE and Nikos Hatziargyriou
f) Language: English
g) Webpage of the event: https://medpower2024.org/
h) Number of participants: NA
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry
j) Partner who participates: NODES, IPTO, HEDNO, HyperTech and ICCS
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Panel session
l) Main conclusions (after the event): OPENTUNITY results and developments are crucial to complement the digital flexibility value chain and are valuable tools overcome operational challenges of system operators and flexibility service providers.
m) Press release (link): NA
n) Social media posts (link):
https://www.linkedin.com/feed/update/urn:li:activity:7257303977828962305
https://www.linkedin.com/feed/update/urn:li:activity:7264215824243048448
o) Photos:
p) Attached documents: NA

EVENT 5: 12th Conference of the EU Framework Programme for Research and Innovation Horizon Europe

a) Place (City and Country): Oviedo, Spain
b) Dates: 29/11/2024
c) Type of event chose one (multiple choices are able): Exhibition, Participation to a Conference
d) Objective of the event: Presentation of a poster
e) Organisers: CDTI España
f) Language: Spanish/English
g) Webpage of the event: https://12conferenciapm.cdti.es/listado_posteres
h) Number of participants: NA
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Civil Society, Policy Makers
j) Partner who participates: ETRA I+D
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Exhibition
l) Main conclusions (after the event):
m) Press release (link): NA
n) Social media posts (link):
https://www.linkedin.com/feed/update/urn:li:activity:7265680640811954176
https://www.linkedin.com/feed/update/urn:li:activity:7267832873154457600
o) Photos:
p) Attached documents: OPENTUNITY Poster

EVENT 6: 4th SAEE Conference on Energy Economics (4. konferenca SAEE s področja energetske ekonomike)

a) Place (City and Country): Ljubljana, Slovenia
b) Dates: 22.11.2024
c) Type of event chose one (multiple choices are able): Participation to a Conference
d) Objective of the event: Presentation of a paper titled "Analysis of Consumption Forecasting and Flexibility Utilization of an Electric Vehicle Fleet in the OPENTUNITY Project"
e) Organisers:
   - SAEE – Slovensko združenje za energetsko ekonomiko (Slovenian Association for Energy Economics)
   - UL EF – Univerza v Ljubljani, Ekonomska fakulteta (University of Ljubljana, School of Economics and Business)
   - CPOEF – Center poslovne odličnosti Ekonomske fakultete Univerze v Ljubljani (Center of Business Excellence of the School of Economics and Business of the University of Ljubljana)
f) Language: Slovenian
g) Webpage of the event: https://konference.ef.uni-lj.si/saee2024/
h) Number of participants: ~100
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Civil Society, Policy Makers
j) Partner who participates: University of Ljubljana – Janez Gregor Golja
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation
l) Main conclusions (after the event): Presentation was successful, with the audience responding to it with great interest – proving that the OPENTUNITY innovations are moving in the right direction.
m) Press release (link): NA
n) Social media posts (link):
   https://www.linkedin.com/feed/update/urn:li:activity:7270369014508371968
   https://www.linkedin.com/feed/update/urn:li:activity:7272898481105555462
o) Photos:
p) Attached documents: Paper "Analysis of Consumption Forecasting and Flexibility Utilization of an Electric Vehicle Fleet in the OPENTUNITY Project".

Analysis of Consumption Forecasting and Flexibility Utilization of an Electric Vehicle Fleet in the OPENTUNITY Project

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ABSTRACT

The mobility sector is undergoing a transformation as electric vehicles (EVs) gradually replace traditional internal combustion engines. This transition is strongly supported by key European Union policies, including the ban on sales of new CO_2-emitting vehicles by 2035. In this evolving landscape, Avantcar's electric vehicle-sharing service has become an attractive and sustainable alternative to vehicle ownership for over 50,000 users. However, the full potential of their EV fleet remains untapped, particularly in the area of energy management and, consequently, operational efficiency. New mobility infrastructure, encompassing vehicles and charging stations, presents significant additional potential in the energy sector. By forecasting consumption and utilizing the flexibility of the EV fleet, fleet managers can optimize operations, contribute to grid stability, and actively support the green transition.

The OPENTUNITY project, funded by Horizon Europe, aims to support energy stakeholders, including grid operators and active consumers, using innovative methodologies and advanced, interoperable software. Part of the project focuses on leveraging flexibility from various sources, including the EV fleet. As part of this, charging stations have been integrated into an aggregation platform, and the collected data have been used for analysis, identifying consumption patterns at both individual charging locations and fleet levels. This was followed by data cleaning and preparation, and machine learning models were trained for consumption forecasting. Based on the analysis, algorithms for flexibility determination were defined. This paper presents a comprehensive analysis of the charging station data, covering the applied methodologies from data cleaning and preparation to advanced time series forecasting methods—and the results from the predictive models used.

Keywords: electric vehicle fleet, consumption forecasting, flexibility, machine learning.

EVENT 7: Spanish pilot site Engagement Workshop

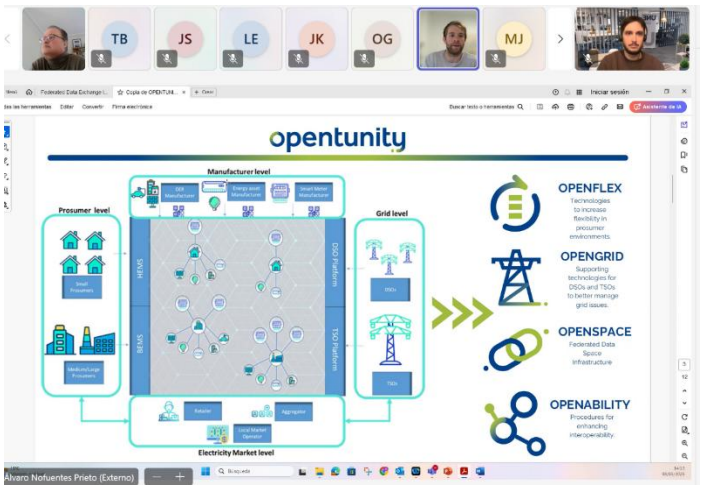
a) Place (City and Country): Civic center Sta Eulalia de Ronçana, Barcelona, Spain
b) Dates: 30/01/2025
c) Type of event chose one (multiple choices are able): Organisation of a Workshop
d) Objective of the event: capture participants for the Spanish pilot
e) Organisers: Estabanell and Anëll
f) Language: Spanish
g) Webpage of the event: not applicable
h) Number of participants: 5
i) Type of Audience (multiple choices are able): General Public
j) Partner who participates: Estabanell and Anëll. JR collaboration for content preparation.
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): ETRA NILM interface to show as demo.
l) Main conclusions (after the event):
   - 2/3 households that attended joined the pilot

- Need to modify the engagement message (content and language) and communication channels to improve attendance

m) Press release (link): NA
n) Social media posts (link): NA
o) Photos: none
p) Attached documents: presentation slides

EVENT 8: ETSI CEN CLC CoG SG - AdG STD

a) Place (City and Country): Online
b) Dates: 03/03/2025
c) Type of event chose one (multiple choices are able): Participation to a Workshop
d) Objective of the event: Review of CoG SG last report and presentation of two projects (one of them OPENTUNITY) interesting for their activities.
e) Organisers: CEN/CLC/ETSI Coordination Group on Smart Grids
f) Language: English
g) Webpage of the event:
h) Number of participants: 13
i) Type of Audience (multiple choices are able): Industry
j) Partner who participates: ETRA and UNE
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation
l) Main conclusions (after the event): The committee expressed the relevance of OPENTUNITY regarding the activities they perform. Special interest on the Topology Converter.
m) Press release (link): NA
n) Social media posts (link):
https://www.linkedin.com/feed/update/urn:li:activity:7300809563589459968
https://www.linkedin.com/feed/update/urn:li:activity:7304791756456263680
o) Photos:
p) Attached documents: OPENTUNITY presentation



EVENT 9: BRIDGE GA

a) Place (City and Country): Brussels, Belgium

b) Dates: 25th and 26th of March 2025

c) Type of event chose one (multiple choices are able): Organisation and Participation to a Conference

d) Objective of the event: To report the BRIDGE outcomes of the last year, learn about the newest relevant development on EU-level and discuss the BRIDGE work programme for the upcoming BRIDGE year

e) Organisers: European Commission

f) Language: English h) Webpage of the event: https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/events/bridge-general-assembly-2025

g) Number of participants: 100 in-person, around 300 online

h) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Policy Makers

i) Partner who participates: JOANNEUM RESEARCH, ETRA

j) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentations

k) Main conclusions (after the event): Focus of the commission (and the associated calls) in the future will be especially on creating a competitive European industry. Further foci will be on upgrading the grid to meet the requirements of a flexible energy system and (further) developing and artificial intelligence applications.

l) In terms of the BRIDGE working groups, the group on Consumer and Citizen Engagement will focus in the next year more strongly on Energy poverty and will continue emphasising the need for an early and meaningful engagement of citizens in all HORIZON projects.

m) Press release (link):

n) Social media posts (link):

https://www.linkedin.com/feed/update/urn:li:activity:7312753523476070400

o) Photos:

p) Attached documents: NA

EVENT 10: Electrical and Computer Engineering Student Conference (ECESCON)

q) Place (City and Country): Thessaloniki, Greece

r) Dates: 25th – 27th April 2025

s) Type of event chose one (multiple choices are able): Participation to a Conference

t) Objective of the event: This conference is an annual student conference which takes place in various cities of Greece, since 2007 and it aims to bring together students from all departments of Electrical and Computer Engineering, in order to learn about new technological developments and challenges.

u) Organisers: Aristotle University of Thessaloniki

v) Language: Greek, English

w) Webpage of the event: https://sfhmmy.gr/about

x) Number of participants: 300

y) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research, General Public.

z) Partner who participates: Independent Power Transmission System Operator (IPTO)

aa) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.):

bb) Main conclusions (after the event): IPTO participated in the Electrical and Computer Engineering Student Conference (ECESCON) in the end of April, where the aspects of this project presented to the students.

cc) Press release (link): NA

dd) Social media posts (link):

https://www.linkedin.com/feed/update/urn:li:activity:7330844951024422912

ee) Photos:

ff) Attached documents: NA

EVENT 11: STS Conference

a) Place (City and Country): Graz- Austria
b) Dates: 05. – 07.05.2025
c) Type of event chose one (multiple choices are able): Participation to a Conference
d) Objective of the event: The conference addresses critical issues in science, technology, and society studies, emphasizing how these domains co-evolve and influence one another. Key topics include:
    - Assessment of emerging technologies.
    - Ethical, legal, and social aspects of scientific practices.
    - Transition to environmentally friendly and socially desirable techno-scientific futures

These themes reflect the conference's commitment to understanding and shaping the societal implications of scientific and technological advancements.

e) Organisers: Science, Technology and Society (STS) Unit at Graz University of Technology, in collaboration with the Interdisciplinary Research Centre for Technology, Work and Culture (IFZ) and the Institute for Advanced Studies on Science, Technology and Society (IAS-STS)
f) Language: English, German
g) Webpage of the event: https://stsconf.tugraz.at/
h) Number of participants: Around 200
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research)
j) Partner who participates: JR
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Organisation of a session and presentation within this session on Advancing Urban and Rural Energy Systems for Inclusive, Scalable, and Technologically Integrated Energy Solutions
l) Main conclusions (after the event):
    - Early citizen participation in technology development and creation of solutions that solve problems of the citizens are key for uptake of complex energy solutions.
    - Energy companies can play a crucial role in the upscaling of energy communities, either as barrier but also as enabler.
    - Sector coupling is an important aspect when it comes to creating sustainable urban energy systems
m) Press release (link):
n) Social media posts (link):
https://www.linkedin.com/feed/update/urn:li:activity:7282691545999265792
https://www.linkedin.com/feed/update/urn:li:activity:7336292305789726720
https://www.linkedin.com/feed/update/urn:li:activity:7335940760413876224
o) Photos:

p) Attached documents: NA

EVENT 12: Syngrid Summer School

a) Place (City and Country): Ljubljana, Slovenia
b) Dates: 12-16.5.2025
c) Type of event chose one (multiple choices are able): Participation to an Event other than a Conference or a Workshop.
d) Objective of the event: One session of the summer school was focused on the various EU projects we (UL) are a part of, where we also presented OPENTUNITY. The SynGRID Summer School is a unique opportunity to explore the Future of Energy Systems through innovations in renewable energy integration and smart grid management. The week-long program combines expert-led sessions, coursework, site visits to progressive energy companies in Slovenia, and engaging cultural activities.
e) Organisers: Faculty of Electrical Engineering, University of Ljubljana (IRI UL)
f) Language: English
g) Webpage of the event: https://www.syngrid-project.eu/summer-school/
h) Number of participants: 30
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Policy Makers.
j) Partner who participates: UL, Kolektor Setup.
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation.
l) Main conclusions (after the event): Presentation of the OPENTUNITY project, its main ideas, goals and what has been going on in the Slovenian pilot site. Team from Kolektor sETup presented real-life examples of how they provide flexibility services to their customers, and how they are driving forward the development of their energy asset management platform, OPTIMA, through several EU-funded innovation projects.
m) Press release (link):

n) Social media posts (link):

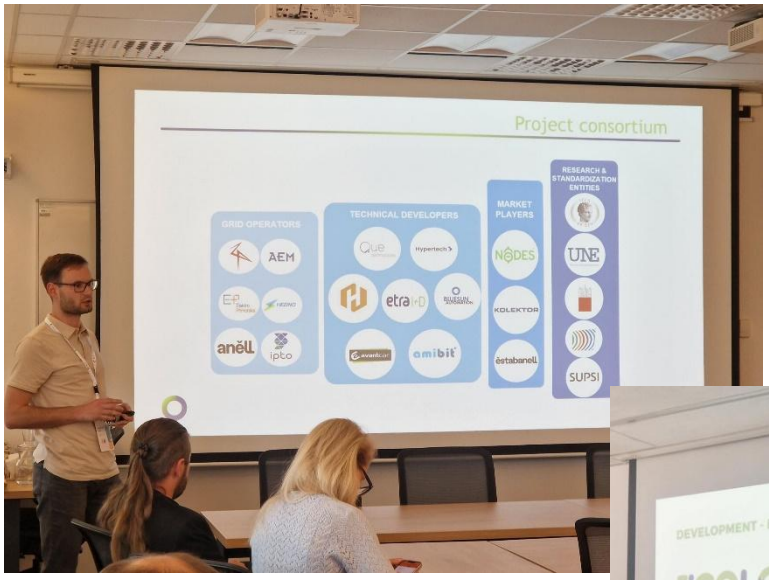
https://www.linkedin.com/feed/update/urn:li:activity:7328307654164922369

https://www.linkedin.com/feed/update/urn:li:activity:7328710119557324802

https://www.linkedin.com/feed/update/urn:li:activity:7335940760413876224

o) Photos:

p) Attached documents: Agenda



EVENT 13: 17th Conference of Slovenian Electric Power Engineers

a) Place (City and Country): Ljubljana, Slovenia
b) Dates: 19-21.5.2025
c) Type of event chose one (multiple choices are able): Participation to a Conference.
d) Objective of the event: Presentation of OPENTUNITY paper on the largest conference in the Slovenian power system industry (attended by TSO, DSOs, large energy companies, research etc).
e) Organisers: CIGRE CIRED Slovenia
f) Language: Slovenian
g) Webpage of the event: https://www.cigre-cired.si/en/event/17-konf/
h) Number of participants: more than 500
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Policy Makers.
j) Partner who participates: UL
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation of a paper
l) Main conclusions (after the event): Presentation of the results of OPENTUNITY project – mainly for the HEMS forecasting. Part of a study section SC D3 – Building blocks of energy transition.
m) Press release (link):
n) Social media posts (link):

https://www.linkedin.com/feed/update/urn:li:activity:7333044974952824832

https://www.linkedin.com/feed/update/urn:li:activity:7335940760413876224

o) Photos:
p) Attached documents:

EVENT 14: European Sustainable Energy Week (EUSEW)

a) Place (City and Country): Brussels, Belgium
b) Dates: 10-12/06/2025
c) Type of event chose one (multiple choices are able): Exhibition, Participation to a Conference, Trade Fair.
d) Objective of the event: Its main goal is to promote renewable energy and energy efficiency, bringing together stakeholders to discuss policy, share best practices, and advance the EU's clean energy transition.
e) Organisers: European Climate, Infrastructure and Environment Executive Agency (CINEA)
f) Language: English
g) Webpage of the event:
h) Number of participants: 10.000
i) Type of Audience (multiple choices are able): ☒ Scientific Community (Higher Education, Research), Industry, Policy Makers
j) Partner who participates: ETRA
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Exhibition area.
l) Main conclusions (after the event): OPENTUNITY's presence at EUSEW 2025 with a dedicated stand helped boost project visibility, attract interest from key energy stakeholders, and strengthen connections for future collaboration and outreach activities.
m) Press release (link):
n) Social media posts (link):

https://www.linkedin.com/feed/update/urn:li:activity:7333762404087918595

https://www.linkedin.com/feed/update/urn:li:activity:7337737622846410752

https://www.linkedin.com/feed/update/urn:li:activity:7340287736966275072

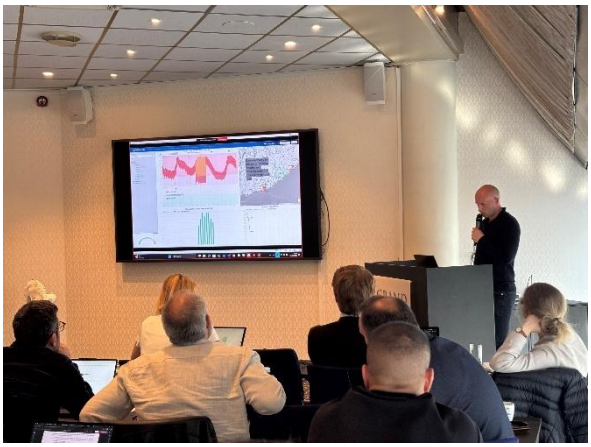
o) Photos:
p) Attached documents:

EVENT 15: Workshop with external DSOs and FSPs

a) Place (City and Country): Oslo, Norway
b) Dates: 11/06/2025
c) Type of event chose one (multiple choices are able): Organisation and participation of a Workshop.
d) Objective of the event: The workshop aimed to facilitate knowledge exchange between OPENTUNITY partners and external DSOs and FSPs by sharing practical experiences and approaches to flexibility market implementation across Europe.
e) Organisers: NODES
f) Language: English
g) Webpage of the event: NA
h) Number of participants: 40
i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry
j) Partner who participates: All
k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Presentation
l) Main conclusions (after the event): The session highlighted the importance of real-world insights for developing effective local flexibility markets, the need for improved DSO–TSO coordination, and the value of collaboration between market actors to move from pilot testing to operational solutions.
m) Press release (link):
n) Social media posts (link):

https://www.linkedin.com/feed/update/urn:li:activity:7338576412863295491

o) Photos:
p) Attached documents:



10 Annex 3 - Press Clipping

Date: 12/12/2024

Source: Bridge Newsletter

Location: Europe

Language: English

Title: Advanced state estimation for distribution grids based on deep learning

Link: https://ec.europa.eu/newsroom/etipsnet_bridge/items/861820/en

Advanced state estimation for distribution grids based on deep learning

Read this piece developed by Opentunity Project, highlighting how deep learning algorithms are revolutionising state estimation in distribution grids, improving accuracy, forecasting, and grid management in renewable energy systems through integration into the ÉTER tool.

date: 12/12/2024

State estimation techniques link measuring devices in an electrical network to control centers, enabling the monitoring of electrical magnitudes. While these techniques are well-suited for transmission networks, they are not directly applicable to distribution networks. In distribution systems, state estimation is used to determine voltages at all buses, a crucial step before power flow and safety analysis.

The **development of deep learning algorithms** is based on a multipurpose prediction module, which includes a time series decomposition model with three components:

- **Trends**
- **Seasonality**
- **Exogenous Variables**

ETRA I+D has **ÉTER**, a tool designed to control and monitor electricity distribution networks, enhancing stability and security, particularly in scenarios with high renewable energy integration. Currently, ÉTER includes a state estimation module based on probabilistic methods. ETRA aims to integrate this new deep learning-based module into ÉTER after validation in **OPENTUNITY pilot projects**. The integration is expected to provide more accurate and reliable power flow calculations, improving visualization and management within ÉTER.

Figure 1. Visualization of State estimation in ÉTER

Date: 14/02/2025

Source: University of Ljubljana website

Location: Slovenia

Language: English/Slovenian

Title: OPENTUNITY 6th General Meeting

Link: https://lest.fe.uni-lj.si/news/opentunity-6th-general-meeting/

LABORATORY OF ENERGY POLICY

News Laboratory Projects For students Services

News

OPENTUNITY 6th General Meeting

February 14, 2025

What: 6th OPENTUNITY General Meeting

Where: UNE headquarters in Madrid, Spain

When: 11-12 February 2025

The sixth general meeting of the OPENTUNITY project took place in Madrid, Spain, on February 11 and 12, hosted by UNE at their headquarters. Janez Gregor Golja represented our team at the event and outlined the progress of the Slovenian pilot site.

The first day was dedicated to developments across technical work packages. During the presentation of WP4 innovations, Janez provided an update on task **Optimal Selection of Available Flexibility**. He showcased the progress made so far, including the successful integration of Avantcar's EV charging stations and **Reduxi HEMS** as well as presented the analysis of the collected data and the forecasting models developed for these assets. Building on this foundation, the next steps will focus on determining the optimal use of these flexible assets and developing an algorithm to assist the aggregator in identifying the best flexibility options based on forecasted availability.

The second day shifted attention to **the pilot sites**, with discussions centred around **data availability and citizen engagement activities**. Janez presented the plans for engaging Amibit and Avantcar users through various interactive initiatives. In addition, a workshop was held to review data availability for the Slovenian pilot, ensuring that Elektro Primorska and Elektro Ljubljana can provide all the necessary inputs for the innovation leaders to carry out their tasks effectively.

Alongside LEST, the meeting was attended by representatives from five other Slovenian partners: Kolektor sETup, Amibit, Avantcar, Elektro Ljubljana, and Elektro Primorska.

Date: 06/05/2025

Source: Enlit World

Location: Europe

Language: English

Title: Smarter grids, smarter choices: OPENTUNITY's role in the future of energy

Link: https://www.enlit.world/smart-grids/grid-management-monitoring/smarter-grids-smarter-choices-opentunitys-role-in-the-future-of-energy/

Smarter grids, smarter choices: OPENTUNITY's role in the future of energy

Guest Contributor
6 May 2025

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Grid Management & Monitoring | Customer Services & Management | Data & Analytics | Decentralised Energy | Demand Response | Digitalisation | Europe & UK | Projects Zone | Smart Buildings | Smart Metering | Transmission & Distribution

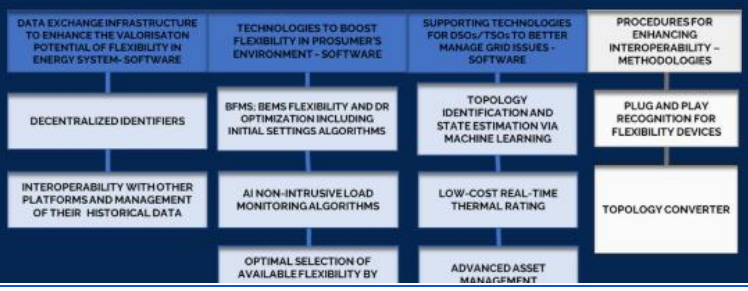
The OPENTUNITY project is working to create a collaborative energy ecosystem where grid operators have access to advanced technology tools and energy prosumers can harness the full potential of their energy assets.

Funded under the Horizon Europe Programme, spearheaded by ETRA, and backed by a consortium of 21 partners (including ETRA), the OPENTUNITY project is striving to create a more flexible energy ecosystem, removing barriers to interoperability and championing standardised approaches.

Its goal is to decarbonise EU grids and place the end-user at the centre of the energy transition.

OPENTUNITY introduces a series of innovations that facilitate the integration of distributed energy systems, such as PV, batteries and electric vehicles, into European smart grids. These systems are essential for greening EU grids, balancing energy supply, and providing backup for intermittent bulk renewable energy sources.

In order to be able to actually deploy and function those innovations, there are two of them that arise as the ones serving the rest of them and allow them to perform in whatever situation.



11 Annex 4 - List of BRIDGE meetings attended

Event/Meeting attended	WG related	Date	Venue	OPENTUNITY Partners
Assessment of progress in energy R&I in Europe - Survey	All	14/06/2024	Online	ETRA
BRIDGE Data Management WG meeting	DMWG	21/06/2024	Online	HEDNO
BRIDGE Data Management WG meeting Action 3	DMWG	20/09/2024	Online	HEDNO
EUSEW Participation	CCE	45575	Brussels (Belgium)	JR
ETIP SNET Regional Workshop of 2024: Applied energy research in South-Eastern Europe: Integrating Renewable Energy Capacity While Ensuring Grid Flexibility	BRIDGE, Etip SNET	21/10/2024	Milan	EL
BRIDGE Data Management WG meeting	Data Management	18/11/2024	Online	HYP
BRIDGE DMWG Action #5 - Interoperability of home appliances survey 2024	Data Management	19/11/2024	Online	HYP
BRIDGE Interview with the Working Group Chair	CCE	45621	Brussels (Belgium)	JR
Strategies of Engagement	WG REG	27/11/2025	Online	EL
BRIDGE DMWG - Participation in the next BSUG Action External - Bridge Standards Users Group (DMWG Action #4).	Data Management	17/12/2024	Online	HYP
Action 5 (Support the system operators to prepare the grid for 2030)	WG REG	10/01/2025	Online	EL
Knowledge Sharing Session on Market Design in Energy Sharing, P2P and Energy Community Models	Regulations	17/01/2025	Online	ETRA
Business Models Working Group Meeting	Business Models	24/01/2025	Online	ETRA
Survey on Business Models development (Task 2)	Business Models	10/02/2025	Online	ETRA

Template for interviews on EEDS (Task 3)	Business Models		Online	ETRA
Business Models Working Group Meeting (Task 2)		10/02/2025	Online	ETRA
BRIDGE BM WG Task 1	BM	19/02/2025	Online	JR
Action 1 "Improving Market Access for Energy Consumers to Value Their Flexibility,"	WG REG	20/02/2025		EL
BRIDGE BM WG Task 1	BM	27/02/2025	Online	JR
BRIDGE Data Management WG meeting	Data Management	06/03/2025	Online	HYP
BRIDGE Business Model Task 2 Workshop	BM	06/03/2025	Online	JR
BRIDGE Survey on Regulatory and Consumer aspects in Energy Sharing	Consumer and Regulation WG	07/03/2025	Online	HEDNO
Survey on Regulatory and Consumer aspects in Energy Sharing	Consumer engagement and Regulations	10/03/2025	Online	ETRA + HEDNO + EL
BRIDGE General Assembly	All	25-26/03/2025	Brussels (Belgium)	All
ETIP SNET Regional Workshop of 2025	WG REG	08/05/2025	Online	EL
BRIDGE Data Management WG meeting	Data Management	03/06/2025	Online	HYP
BRIDGE Data Management WG meeting 2025-2026 Kick off	DMWG	03/06/2025	Online	HEDNO, HYP
Action 1 Workshop on Improving Market Access for Energy Consumers to Value Their Flexibility	WG REG		Online	EL
BRIDGE CCE Working Group Meetings	CCE	Every Month	Online	JR
BRIDGE CCE Leader Meetings	CCE	Every Month	Online	JR

Tabla 31 - List of meetings attended in BRIGDE (M18-M30).

**Consumer and Citizen Engagement (CCE), Regulation (REG), Business Models (BM), Data Management (DMWG)*