Deliverable 8.2 – Dissemination and Communication activities Report (v1)

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Executive Summary

This report serves as a retrospective piece, examining the dissemination, communication actions, and ecosystem involvement initiatives carried out by Work Package 8 (WP8) between January 2023 and June 2024. It embodies a backward-looking perspective, assessing the accomplishments in dissemination and communication during those months. The objective of this document is to provide readers and the external community with a comprehensive view of these successes, showcasing the OPENTUNITY's outreach actions.

In fact, this deliverable shows how the initial plan defined in D8.1 – Plan for Dissemination, Communication and Exploitation of Results is being implemented during the first 18 months. With the results and achievements in dissemination and communication during this period, an evaluation of its proper functioning could be conducted. If necessary, some aspects could be adapted, changed, or reinforced.

All dissemination and communication actions were meticulously crafted to optimize outreach efforts. These actions were designed to ensure that the project's outcomes—including concepts, scientific findings, tools, solutions, methodologies, best practices, and lessons learned—were effectively communicated to the appropriate target audiences. Additionally, the materials aim to identify and engage stakeholders who can contribute to the development, evaluation, uptake, and exploitation of OPENTUNITY outcomes.

To achieve these goals, the project has undertaken various actions:

- Developed and designed promotional materials, including visual identity elements, brochures, roll-ups, videos, overview presentations, graphics, newsletters, and press releases.
- Established and maintained a website as the primary external communication platform.
- Created social media accounts on platforms such as X, LinkedIn, and YouTube to expand external communication channels.
- Published open-access scientific papers and non-scientific publications.
- Submitted public deliverables, which are promptly made available on the website upon acceptance by the European Commission.
- Actively participated in and organised events to foster engagement and knowledge sharing.
- Engaged in collaboration and exchange activities with related projects or initiatives to promote synergies and mutual learning.

The document also assesses the outcomes and influence achieved in communicating and disseminating OPENTUNITY by analysing website analytics, social media engagement, participation in events, audience reached, media coverage, publications and stakeholder engagement, among others.

The OPENTUNITY project and its partners have been highly active in numerous facets of engagement and dissemination:

- Participation in events: Partners actively took part in 10 events, 2 of which were organised by partners and 3 networking actions with other related projects or initiatives.
- Website reach: The project's website has garnered significant traffic, with 1,638 visits. Furthermore, the website serves as a repository for scientific publications, public deliverables, and promotional materials, which have been downloaded more than 95 times.

- Content creation: A robust digital presence is evident through the publication of 23 informative posts on the project's website and the creation of 5 videos, facilitating knowledge dissemination.
- Social media impact: OPENTUNITY social media networks (X, LinkedIn and YouTube) collectively boast a following of 399 individuals, with 21,805 impressions in X and 16,581 in LinkedIn and 190 views on YouTube.
- Media recognition: OPENTUNITY has been featured in 10 news articles across various European and international media outlets, contributing to its visibility and recognition.
- Research contributions: Partners have drafted one open access scientific publication for a Conference, which has been accepted.
- Engagement in collaborative initiatives: High participation in the four Working Groups of BRIDGE and exchange activities with related projects and initiatives have facilitated knowledge sharing and collaboration, enhancing the project's impact and visibility. Furthermore, OPENTUNITY has established first collaborations with the Every1 project to identify synergies.
- Stakeholder engagement: A primary internal workshop was organised addressed to the pilot sites on how to create a citizen engagement strategy.

After this period of 18 months, the analytics showed that the dissemination and communication actions are on the right track to achieve the Key Performance Indicators (KPIs) defined in D8.1. However, more efforts should be made to increase the number of scientific publications and other publications, engage stakeholders and end-users, strengthen collaboration with related projects and initiatives, and spread benefits and results among citizens.

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2 Introduction

2.1 Purpose of the document

The report, "Dissemination and Communication Activities Report (v1)," encompasses all dissemination and communication actions undertaken by all partners during the first 18 months of the project. Additionally, this document serves as an update on certain actions outlined in the D8.1 Plan for Dissemination, Communication, and Exploitation of Results [1].

The primary objective of this document is to present all dissemination and communication actions carried out so far, evaluate the dissemination outcomes, and outline the main successful actions and identified shortcomings to improve the initial plan described in D8.1. ETRA, leading this deliverable, along with the rest of the partners, has contributed to achieving the dissemination and communication actions detailed in this document.

This document does not aim to reiterate the differences between communication and dissemination but to present all actions undertaken to achieve the objectives set in both areas.

2.2 Scope of the document

The deliverable 8.2 is the second document produced within WP8 Knowledge transfer and results from the proposed actions in D8.1.

The document compiles all actions made under the OPENTUNITY dissemination and communication premises. Besides, part of this document absorbs suggestions and needs from partners, the European Commission and the targeted audience to improve the defined strategy.

2.3 Structure of the document

This document firstly presents all actions dissemination and communication carried out in chapter 3: promotional materials, communications channels (website and social networks), press releases, newsletters, scientific publications, public deliverables and other publications, events, , online campaigns, media impact, citizen's engagement initiatives, and cooperation activities, Then in chapter 4, the obstacles and challenges are presented. The chapter 5, the report assesses the actions mentioned through the Key Performance Indicators (KPIs). Finally, the next steps and the conclusions are presented in chapters 6 and 7.

3 Communication and dissemination actions

3.1 Promotional materials

To support the advancement, communication, and widespread awareness of the project's aims and achievements, a set of promotional materials has been crafted based on the corporate identity designed. The corporate identity and the Brand Book are included in the D8.1 [1]. Besides, detailed explanations regarding the strategic aspects and significance of these promotional materials can be found in D8.1.

These promotional materials fulfil a dual role, being both informative and promotional. They are strategically designed to engage a wide range of audiences, including subject matter experts, end users, mass media, and the general public. These materials have been used during various events, serving as essential assets to promote OPENTUNITY and enhance its messaging. All the materials are available on the website [2].

During the first period, the OPENCHAIN innovation category was displaced by the new category OPENSPACE, representing the data space concept. For that reason, the description of this innovation category was replaced for the OPENSPACE on the website and promotional materials.

3.1.1 Visual identity: Icons

As part of the visual identity, four icons have been designed, each representing the goals of a specific category. They all are included in the promotional materials to represent the OPENTUNITY innovations.

Figure 1 – OPENFLEX icon.

Figure 2 - OPENGRID icon.

Figure 3 - OPENABILITY icon.

Figure 4 - OPENSPACE icon.

3.1.2 Templates

Templates for reports and presentations have been designed following the visual identity of OPENTUNITY. The consortium was informed of the use of these official templates for any report, deliverable and presentation conducted in the framework of OPENTUNITY. Annex 1 - Word and Power Point templates shows the designed templates.

3.1.3 Brochure

A brochure following the visual identity has been designed. The brochure is a promotional document, primarily used to introduce the project, the consortium, innovations, and pilot sites, and to inform prospective end-users and the public of the benefits.

The brochure is available in both digital and physical formats. So, it is available on the website [2] but it can also be distributed by partners in conferences, meetings, exhibitions, etc.

Figure 5 - OPENTUNITY brochure.

3.1.4 Roll up

A roll-up banner following the visual identity was also designed. This element is a very important resource for any exhibitor looking to stand out at an exhibition, fair trade, or event. Since its goal is to generate impact, the content gets straight to the point. This element is available on the website [2].

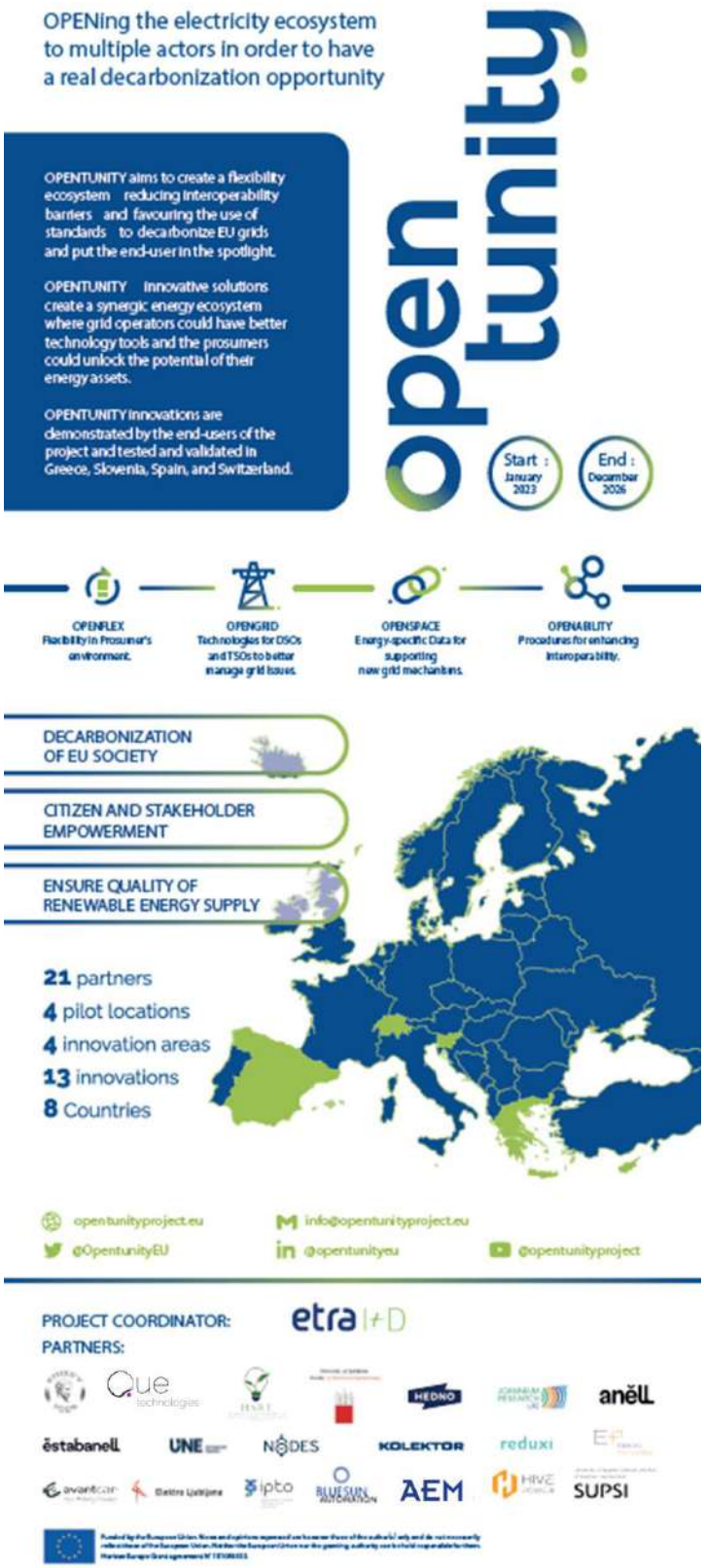

Figure 6 - OPENTUNITY roll-up.

3.1.5 Poster

A template poster has been created for partners to use whenever they need to explain their work in progress or results at events. This poster has been displayed at technical-scientific gatherings, addressing the need for precise information dissemination.

Figure 7 - OPENTUNITY poster template.

3.1.6 Visuals

Additional visual content optimised for social media sharing has been created with the goal of visually communicating key aspects and concepts of OPENTUNITY more effectively. Some of these materials feature the project's innovations and pilots, as well as the partners, aiming to foster a deeper connection with the audience. By introducing partners, who are driving the project forward, OPENTUNITY establishes a stronger rapport and empathy with its target audience.

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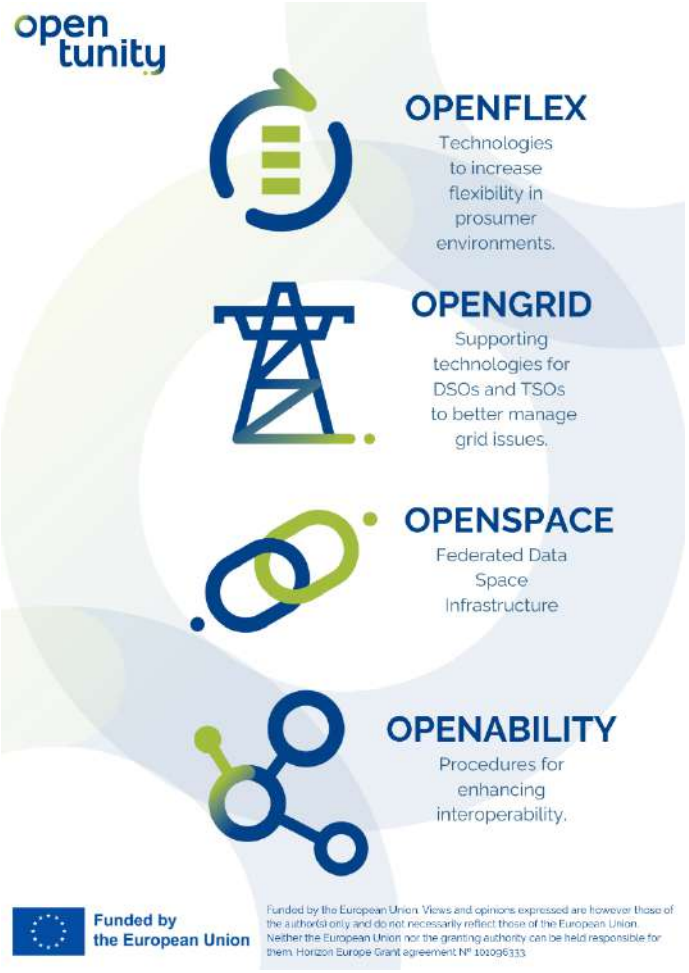
CO2


open
tunity
OPENFLEX
Technologies
to increase
flexibility in
prosumer
environments.
OPENGRID
Supporting
technologies for
DSOs and TSOs
to better manage
grid issues.
OPENSPACE
Federated Data
Space
Infrastructure
OPENABILITY
Procedures for
enhancing
interoperability.
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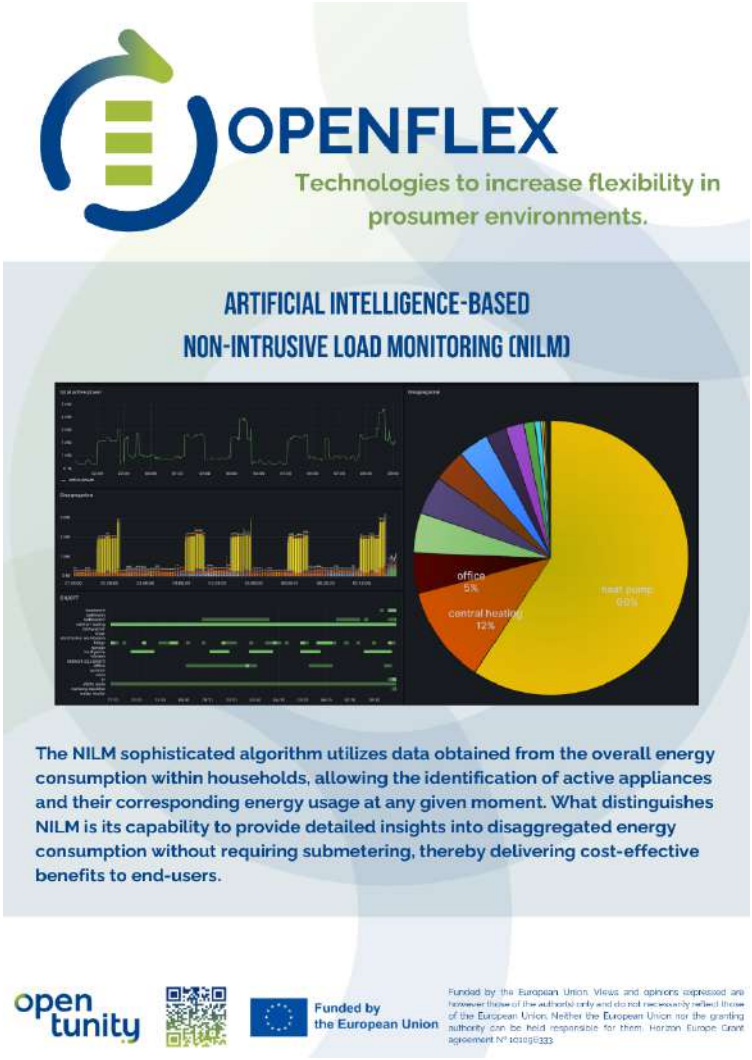
OPENFLEX
Technologies to increase flexibility in prosumer environments.
ARTIFICIAL INTELLIGENCE-BASED
NON-INTRUSIVE LOAD MONITORING (NILM)
office
5%
central heating
12%
The NILM sophisticated algorithm utilizes data obtained from the overall energy consumption within households, allowing the identification of active appliances and their corresponding energy usage at any given moment. What distinguishes NILM is its capability to provide detailed insights into disaggregated energy consumption without requiring submetering, thereby delivering cost-effective benefits to end-users.
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"Our goal is to decarbonize EU society, empower citizens, and ensure the quality of renewable energy supply."
Álvaro Nofuentes (ETRA I+D)
opentunity

Figure 8 - Examples of visual designs for the OPENTUNITY social networks.

3.1.7 Videos

Within OPENTUNITY, initial videos have been produced (see Table 1) to showcase the main goals of the project, key advantages of the project and so far the Spanish and Swiss pilot sites. These videos found resonance across various communication channels of OPENTUNITY. The videos are available on the website [3] and on YouTube [4].

Title of the video	Link
Hello! This is OPENTUNITY project!	https://youtu.be/Effg-bZ_xkI?si=4FxVgmEfY68F1joR
How OPENTUNITY Transforms the Electricity Ecosystem | Benefits Explained by Sara Vieira	https://youtu.be/H1s35bbHLHo?si=4G3hU9E45LT-N7R-
Meet OPENTUNITY at the EU Project Zone during Enlit Europe 2023	https://youtu.be/g6rE_Dj1z0I?si=pXwcjHprTKVjZz5t
OPENTUNITY pilot site in Switzerland	https://youtu.be/rEihIOgS38I?si=17ZkM7d1sW9wSxaY

OPENTUNITY pilot site in Spain 	https://youtu.be/v_YGad8u_Ow

Table 1 - List of OPENTUNITY videos produced.

Outcomes: Promotional materials (M1-M18)
• 100 prints have been made of the OPENTUNITY brochures, and one roll-up was printed out. • The brochure and roll-up of OPENTUNITY have been downloaded from the website over 70 times. • Created 10 visual designs for the OPENTUNITY social networks, achieving over 2,000 impressions. • In total, there are 5 videos produced and they have reached 190 views.

Table 2 - Outcomes achieved from promotional materials between M1-M18.

3.2 Website

The website is aimed to reach all the audiences of the OPENTUNITY project, although a greater number of visits is expected from those groups that are more technical and related to the subject matter of the project. It includes a description of the project according to the public information of the DoA [5]. The URL address is: OPENTUNITYproject.eu. The navigation scheme of the website is depicted in the D8.1. The website is fully operational and is being fed with news and updates every month. ETRA is responsible for maintaining the website portal throughout the lifespan of the project.

The sections of Home, Library, Partners, Dissemination materials, News, Sites, and Innovations have been the most dynamic. These "windows" to the outside world are of great importance throughout the project, as they have truly reflected the progress of the project, its visibility to other stakeholders and entities, the dissemination and promotional actions carried out by the partners, their research work, synergies with other projects and entities, as well as their impact and future replication. All the content generated on the website has also been disseminated on OPENTUNITY's social networks. Table 3 displays website analytics throughout this period.

Figure 9 - The 'Home' section of the OPENTUNITY website.

Figure 10 - The 'Innovations' section of the OPENTUNITY website.

Figure 11 - The 'Pilot sites' section of the OPENTUNITY website.

Figure 12 - The 'News' section of the OPENTUNITY website.

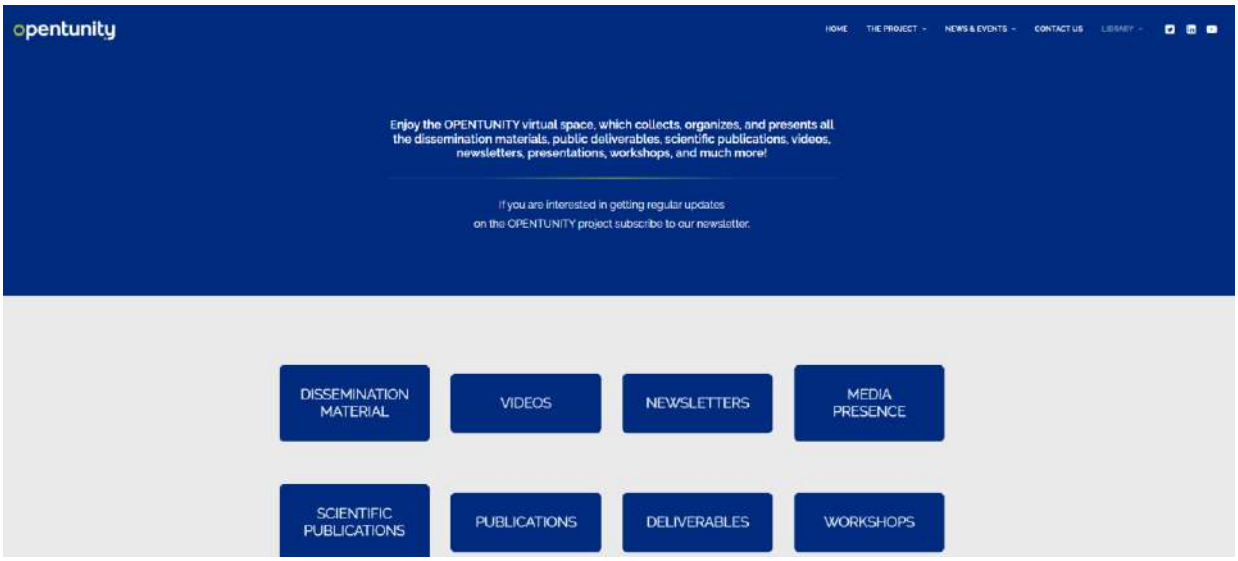


Figure 13 - The 'Library' section of the OPENTUNITY website.

Website metrics up to month 18	
Page views	1,638
Users	523
10 Top Countries	Spain, Netherlands, Finland, France, Greece, Austria, United States, Slovenia, Switzerland, Germany.
Nº of posts	23
Most popular sections	Home, Library, Partners, Dissemination materials, News, Sites, and Innovations.
Downloads	95

*Table 3 - OPENTUNITY website analytics. Source: Google Analytics. * Metrics taken until June 14, 2024.*

Outcomes: website (M1-M18)
• The website has garnered significant attention with 1,638 views from a total of 523 users, indicating a steady interest and engagement from the audience. • A consistent flow of content is being maintained with 23 posts published on the website, reflecting active updates and information sharing. • There is notable engagement with the available resources, as evidenced by over 95 downloadable documents being accessed. • The most visited sections—Home, Library, Partners, Dissemination Materials, News, Sites, and Innovations—highlight the areas of highest interest and value to the users. • The website attracts a diverse international audience, with the top ten countries visiting the site being Spain, Netherlands, Finland, France, Greece, Austria, United States, Slovenia, Switzerland, and Germany, showcasing its global reach and relevance. • These metrics demonstrate the website's effectiveness in disseminating information, engaging a diverse audience, and maintaining active user interaction.

Table 4 - Outcomes achieved from website between M1-M18.

3.3 Partners website

Whenever possible, partners include a presentation of the OPENTUNITY project on their entity websites and share news about the project.

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

qui som
serveis
ajuda
anëll
contacte
àrea client
col·laborar en tots aquests projectes europeus
OMEGA-X
iPLUG
RESPONDENT
OPENTUNITY

NODES
Services
Partners
Knowledge Hub
Company
Markets
opentunity
Contact us →
Share
European Projects
Opentunity
OPENTUNITY's mission (https://opentunityproject.eu/) is to create a flexibility ecosystem reducing interoperability barriers and favoring the use of standards in order to decarbonize EU grids and put the end-user in the spotlight. Grid operators, prosumers, market actors, etc. will be supported by OPENTUNITY via innovative methodologies backed by advanced, interoperable software modules, in order to provide them with new features and services related to: 1) Technologies to boost flexibility in the prosumer's environment; 2) Technologies for grid operators to better manage grid operations).
OPENFLEX
Technologies to increase flexibility in prosumer environments

Figure 14 - Some examples of partner websites where OPENTUNITY is promoted.

3.4 Social networks

Social media forms an important part of the envisioned dissemination and communication activities, aimed at generating interest and reflection on digitalization of the energy sector, the impacts of decisions, and decarbonisation in general. It initiates a dialogue with the general public and interested parties. D8.1 details the goals and expected impacts of the selected social networks. As explained in D8.1, OPENTUNITY uses specific hashtags such as #OPENTUNITY, #HorizonEU, #EnergyTransition, #EnergySystems, #resilientenergy, #decarbonization #cleanenergy, #EnergyDecarbonisation, #TSO, and #DSO.

3.4.1 X (former Twitter)

The energy community on X offers an excellent platform to engage with both the target audience of OPENTUNITY and European citizens. OPENTUNITY established its X account in January 2023, adhering closely to the visual identity guide. Over the past 18 months, the account has actively shared the project's goals and benefits, news, updates, work in progress, events, promotional materials, research findings, and other valuable information related to OPENTUNITY. The content on X plays a crucial role in supporting the project's messages, refining its approach, and aiding in the planning process by providing valuable insights into its account, followers, and the broader X community. Table 5 provides an assessment of the impact achieved on X during the first 18 months.

OPENTUNITY project @OpentunityEU · 3h
🚀 Last week, @OpentunityEU consortium visited Lugano 🇨🇭 for our 1st Review Meeting with the @EU_Commission.
🎊⚡We showcased our #HorizonEU progress and visited the #energycommunity in Motta District.
🔗opentunityproject.eu/2024/06/10/col... #EnergySystems #Decarbonisation
ICCS - NTUA and 9 others
3
2
49

OPENTUNITY project @OpentunityEU · May 17
Our @OpentunityEU newsletter 2️⃣ is out📬!
🚧Status of the Technical Developments
👋New Partner
🔌Integration of EV Charging Stations & HEMS Devices
📲Flexible Demand Optimization
🚦Standardization activities
🤝#BridgeEU
⚡#EUSEW2024
📺videos & more!
🔗mailchi.mp/1fa71bc4e357/o...
open tunity
Newsletter N°2
GRUPOETRA and 9 others
5
8
186

OPENTUNITY project @OpentunityEU · Dec 13, 2023
Boost! @OpentunityEU, in collaboration with partner @hypertechsa, is leading the charge in cost minimization through Flexible Demand Optimization. Our innovative MILP model strategically shifts loads, reducing customer #energybills by 12.5%! 💡👆 #HorizonEU
opentunityproject.eu/2022/12/13/eos...
22%
GRUPOETRA and 9 others
2
5
177

OPENTUNITY project @OpentunityEU · Nov 28, 2023
👋Ready for great interactions and networking! Explore @OpentunityEU work at #EnlitEurope's EU Project Zone 📍 booth 7.2.H80-16.
Also, join us tomorrow at 🕒 09:30 in Theatre 2 (Hall 7.2) for the "Grid Technologies" session!
#IAmEnlit @Enlit_Europe
opentunityproject.eu
GRUPOETRA
3
7
223

OPENTUNITY project @OpentunityEU · Jun 21, 2023
🙌 We had an incredible visit from @KadriSimson, the EU Commissioner for Energy at the #EUSEW2023 Energy Fair yesterday!
🤔 Did you have the chance to join us?
🤝 Don't miss out! Swing by booth C8 to meet our team @OpentunityEU, hosted by @grupoetra. 💡
#HorizonEU #energy
0:05
2
7
218

OPENTUNITY project @OpentunityEU · Jun 22, 2023
📽 Exciting moments @ #EUSEW2023 as Areti Ntaradimou & @Enlit_Europe team interviewed our project coordinator @nofu93, delving into the crucial decarbonization of #EUgrids & @OpentunityEU goals! Stay tuned for the upcoming video release.
Visit @grupoetra booth C8 to learn more!
0:23
5
9
428

Figure 15 - Examples of X posts.

X metrics up to month 18	
Total posts	66
Followers	160
Impressions	21,805
Engagement rate	6,07%
Total retweets	70
Total likes	229

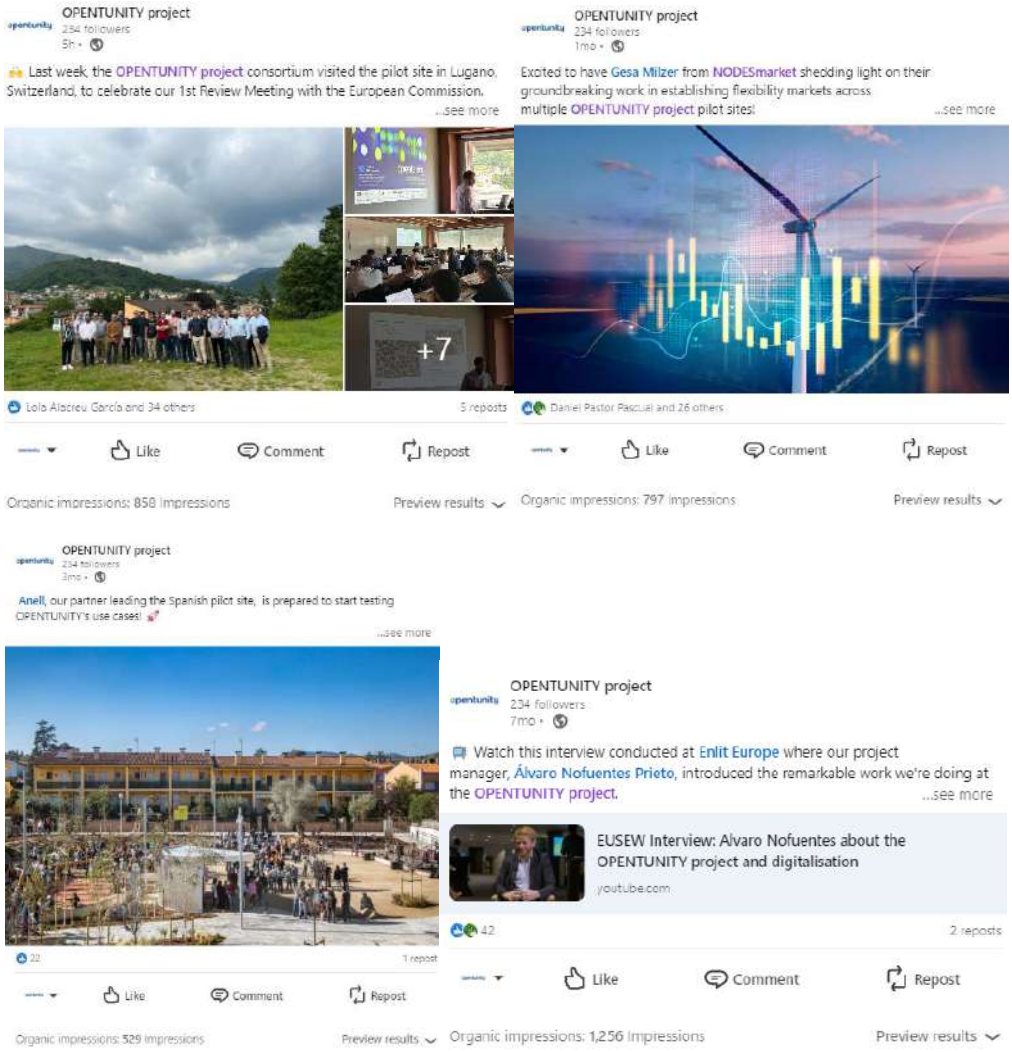
*Table 5 - OPENTUNITY X analytics. Source: X Analytics. * Metrics taken until June 14, 2024.*

Outcomes: X (M1-M18)
• Analytics gathered during the first 18 months of the project indicate a total of 21,805 impressions, 66 tweets, 157 followers, 65 retweets, and 229 likes. • As a general rule in X, an engagement rate of 3% or higher is considered good, so in OPENTUNITY, it was 6,07%. • The analytics for the OPENTUNITY project seem positive, they indicate a notable level of engagement and reach within its audience.

Table 6 - Outcomes achieved from X between M1-M18.

3.4.2 LinkedIn

LinkedIn serves as the project's second social network for dissemination and communication. The objectives of maintaining a user page on LinkedIn include establishing meaningful connections, publishing content, and promoting OPENTUNITY among other energy experts, and related initiatives and projects. Table 7 shows the evaluation the results of OPENTUNITY's LinkedIn activity.



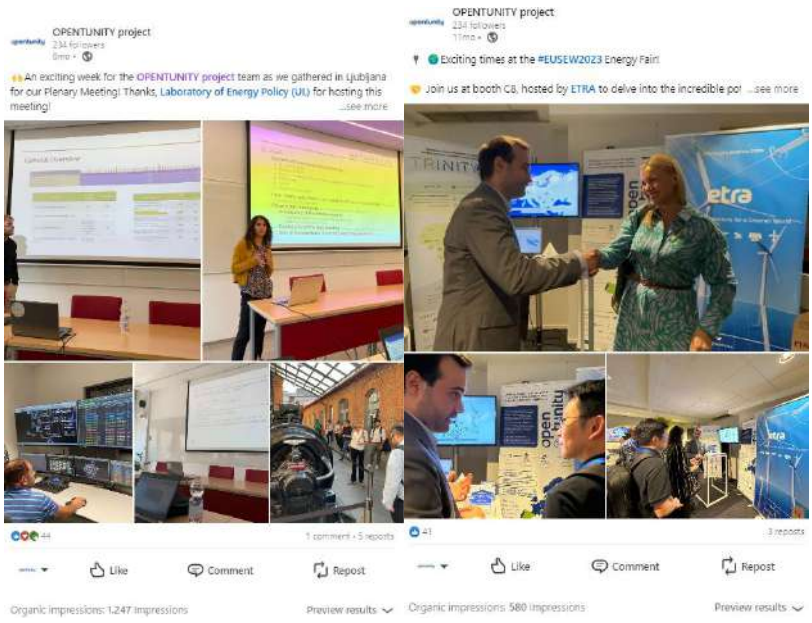


Figure 16 - Examples of LinkedIn posts.

LinkedIn metrics up to month 18	
Total posts	36
Followers	239
Impressions	16,581
Reactions	863
Repost	62

*Table 7 - OPENTUNITY LinkedIn analytics. Source: LinkedIn Analytics. * Metrics taken until June 14, 2024.*

Outcomes: LinkedIn (M1-M18)
• Analytics indicate 239 followers, 36 posts, 16,581 impressions, and 863 total reactions. • Those LinkedIn analytics appear to be quite positive. It suggests a significant level of engagement and reach within the LinkedIn audience during the first 18 months.

Table 8 - Outcomes achieved from LinkedIn between M1-M18.

3.4.3 YouTube

The YouTube OPENTUNITY channel was established to compile all audiovisual content related to the project. During the first 18 months, five videos have been published to present the project as a whole, expone some pilot sites and benefits, and to promote participation in ENLIT conference.

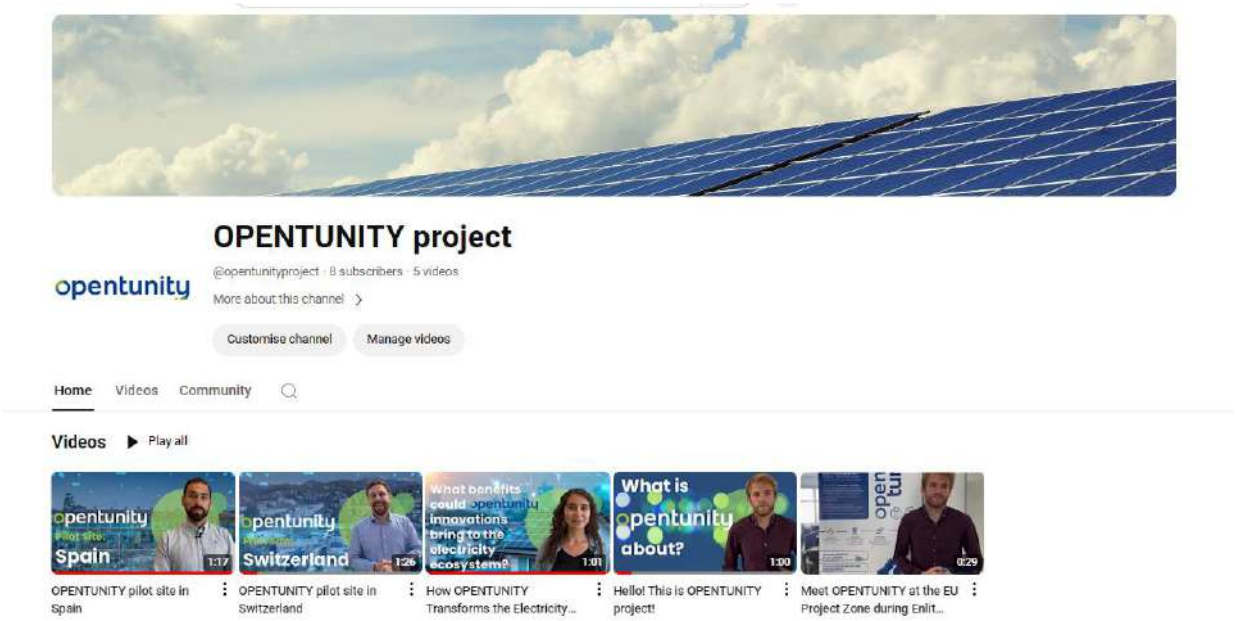


Figure 17 - OPENTUNITY YouTube Channel.

YouTube metrics up to month 18	
Total videos	5
Subscribers	8
Views	190

*Table 9 - OPENTUNITY YouTube analytics. Source: YouTube Analytics. * Metrics taken until June 26, 2024.*

Outcomes: YouTube (M1-M18)
• The channel comprises a total of 5 videos, with 190 views and 8 subscribers. • Given the short period of time that videos have been published online and its technical approach these metrics represent a good impact.

Table 10 - Outcomes achieved from YouTube between M1-M18.

3.5 Press releases

A press release was issued at the launch of the project to introduce OPENTUNITY to various target audiences and enhance its visibility in both specialist and general media. This initial press release was shared with the consortium, allowing them to adapt it to their specific needs and languages. It is also available on the website [2].

3.6 Newsletter

The newsletters for the OPENTUNITY project offer detailed insights into its key activities. They are produced and distributed by ETRA to subscribers, including the OPENTUNITY network, stakeholders, and the consortium. Each newsletter provides comprehensive updates on project developments, event highlights, future plans, and multimedia content to enhance the reading experience. All issues are accessible on the project's website [6]. Annex 2 - OPENTUNITY Newsletters includes the two newsletters published so far.

Newsletter issue	Link
Nº1	https://mailchi.mp/c272ffd53938/opentunity-newsletter-1-is-out?e=896b8fcc44
Nº2	https://mailchi.mp/1fa71bc4e357/opentunity-newsletter-2-is-out?e=fedc0fbc7c

Table 11 - OPENTUNITY Newsletters launched between M1-M18.

One year of OPENTUNITY

OPENTUNITY is achieving significant milestones, and in its inaugural year, the consortium has successfully laid the foundations for the project. This includes finalizing **Use Cases**, requirements, Key Performance Indicators (KPIs), architecture, **standardization** landscape, Pilot Sites analysis, and the **Business Models roadmap**. These foundational elements are strategically designed to facilitate the effective development and impact of innovations that will ultimately benefit European grid operators and prosumers.

Currently, the consortium is actively engaged in the design and development phases of various **innovations**. A preliminary version of these innovations is anticipated to be completed by 2024. Technical leaders are currently working closely with the **pilot sites**, ensuring that the features align seamlessly with the expectations and needs of the **end users**.

Check this newsletter to find more information about these innovations!

Embarking on AI-Powered Non-Intrusive Load Monitoring (NILM) Algorithms

OPENTUNITY is at the forefront of developing **Artificial Intelligence** (AI) -based Non-Intrusive Load Monitoring (NILM) algorithms. These advanced algorithms leverage **household energy consumption** data to deduce active appliances and their corresponding **energy usage in real-time**. What sets NILM apart is its capability to provide detailed insights into disaggregated

OPENTUNITY Hosts European Commissioner for Energy

Kadri Simson, the Commissioner for Energy of the European Commission, visited OPENTUNITY's booth at the EUSEW 2023.

In a momentous occasion, the OPENTUNITY team proudly welcomed Kadri Simson, the **Commissioner for Energy of the European Commission**, to their booth during the European Sustainable Energy Week (EUSEW 2023). This significant encounter unfolded within the ETRA's booth, providing a platform to showcase OPENTUNITY's mission and objectives.

Together with our colleagues from ETRA, the OPENTUNITY team had the honor of introducing Commissioner Simson to the core objectives of our project. We detailed how OPENTUNITY aims to revolutionise the integration of distributed flexibility systems, such as batteries and electric vehicles, while pioneering new market mechanisms within the European Smart Grids.

Commissioner Simson expressed keen interest in the promising future of our technologies, eagerly anticipating their role in enhancing grid flexibility and supporting intermittent renewable energy sources.

Additionally, our project coordinator participated in the **session "Smart Grids: Supporting the Integration of Renewable Energy Sources and the Transition to Clean Energy"** (replay it here!).

Read more

JOANNEUM RESEARCH-LIFE partners

Working to reach final users

How will OPENTUNITY solutions reach users and become viable business models?

By providing social science and economic expertise, the JOANNEUM RESEARCH-LIFE team has a special role in OPENTUNITY. They ensure that the solutions developed in the project find their way to users and become part of viable business models. Currently, they are developing an

Figure 18 - Screenshots of OPENTUNITY Newsletters.

Outcomes: Newsletter (M1-M18)
• The OPENTUNITY newsletter has over 40 subscribers. • Two issues have been published so far. • The average click-through rate per unique open is 50%.

Table 12 - Outcomes achieved from Newsletters between M1-M18.

3.7 Scientific publications

Partners disseminated results from the project's foundation phase by sharing them with the target audience through scientific publications. As emphasised in Article 17 of the GA, OPENTUNITY must ensure open access to peer-reviewed scientific publications related to its results.

During the first 18 months, partners from universities and research centers began drafting scientific publications. Although only one scientific publication was completed during this period, which will be publicly available after the submission of this deliverable, partners are already working on at least six additional papers, ranging from initial drafts to advanced stages of major revision. Scientific publications will be available on the website [7].

Open Access Scientific Publications
1. Haris Sapountzakis; Kyriakos Andresakis; Themistoklis Xygkis; Aris Dimeas; Georgios Korres. Machine learning for distribution grid topology identification and state estimation. PAC World Conference 2024 - Athens, Greece, June 17-20, 2024. [Publication Accepted. Pending to be published.]

Table 13 - Summary of OPENTUNITY Open Access Scientific Publications.

Outcomes: Scientific Publications (M1-M18)
• One scientific publication has been accepted for open access and is pending publication. • Six additional papers are currently in progress.

Table 14 - Outcomes achieved from scientific publications between M1-M18.

3.8 Public Deliverables

Deliverables are created by the OPENTUNITY project team to align with the project's overall objectives. These deliverables form the foundation of OPENTUNITY, and those designated as 'public' must be shared to properly disseminate developments and results. The website serves as an open library [8], sharing these public deliverables with a broad network of relevant stakeholders. Table 15 displays the public deliverables, as well as those approved and uploaded on the website by month 18.

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	3
D1.2	Data Management Plan	1	DMP	6	X	2
D1.3	Project Management Plan (v2)	1	R	16	X	1
D2.1	Technical foundations	2	R	11		
D2.2	Standardization landscape and socioeconomic context	2	R	9	X	2
D2.3	Open architecture report	2	R	11		
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	2
D8.2	Dissemination and Communication activities Report (v1)	8	R	18		
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 15 - OPENTUNITY public deliverables

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

Outcomes: Public deliverables (M1-M18)
• Seven public deliverables were submitted by M18. • Five public deliverables are available on the website. • The downloadable deliverables have been accessed 10 times.

Table 16 - Outcomes achieved from public deliverables between M1-M18.

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 Table 17, 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

Table 17 – List of other publications between M1-M18.

3.10 Events

The active participation and presentation of OPENTUNITY at events are crucial for non-media communication efforts, enabling the dissemination of project results to the target audience. To maximize visibility, all events are pre-announced on the OPENTUNITY website and social networks. For particularly significant events, specific articles are posted in the "News" section to highlight event details.

This deliverable provides an overview of the events up to month 18 where OPENTUNITY was prominently featured. Table 18 provides a detailed account of all events organised and contributed to by OPENTUNITY partners.

The Annex 3 - Event reports provides all the detailed information of the events organised and contributed to.

Event's name	Date	Location	N° attendees	Type of event	Participation
Kick off Meeting of OPENTUNITY - Synergies and collaboration session with other ongoing EU projects	19/01/2023	Valencia (Spain)	≥ 40	Organisation of a Workshop	Organiser
Future-Conference	24/03/2023	Graz (Germany)	±250	Participation in a Conference	Presentation
EU Sustainable Energy Week 2023	20-22/06/2023	Brussels (Belgium)	≥ 500	Participation in a Conference	Exhibition and discussion in a session
IEEE PowerTech Belgrade 2023 / session "The future of Power Flexibility"	27/06/2023	Belgrade (Serbia)	15	Participation in a Conference	Presentation
Turn-to-Zero team-up	19/10/2023	Online	±100	Participation to a Workshop	Presentation
ENLIT 2023	28-30/11/2023	Paris (France)	≥ 3,000	Participation in a Conference	Exhibition and discussion in a session
Citizen engagement workshop	6/02/2024	Granollers (Spain	≥ 25	Organisation of a Workshop	Organiser
BRIDGE General Assembly	9-10/04/2024	Brussels (Belgium)	≥ 100	Participation in a Conference	Discussion in a session
Electrical and Computer Engineering Student Conference of Greece - ECESCON	19-21/04/2024	Xanthi (Greece)	300	Participation in a Conference	Exhibition and oral presentation

European Sustainable Energy Week 2024	11-14/06/2024	Brussels (Belgium)	≥ 800	Participation in a Conference	Exhibition

Table 18 - List of all events where OPENTUNITY partners participated or organised.

Figure 19 - Some pictures of OPENTUNITY partners representing the project in events.

**1- Future-Conference; 2- EUSEW 2023; 3- IEEE PowerTech Belgrade 2023; 4- ENLIT 2023*

Outcomes: Events (M1-M18)
During the first 18 months, partners organised 2 workshops and participated in 8, three of which were networking actions with other related projects or initiatives. This indicates a strong commitment to collaboration, knowledge sharing, and fostering connections within the community and with external projects.

Table 19 - Outcomes achieved from events between M1-M18.

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 facts	Short statements informing about the benefits and impact of OPENTUNITY.	April 2023-Ongoing	7	1,130	138
OPENTUNITY at ENLIT 2023	Promotion of the participation at the EU project Zone of ENLIT	5/10-30/11/2023	14	2,314	148

Table 20 - OPENTUNITY online campaigns (M1-M18).

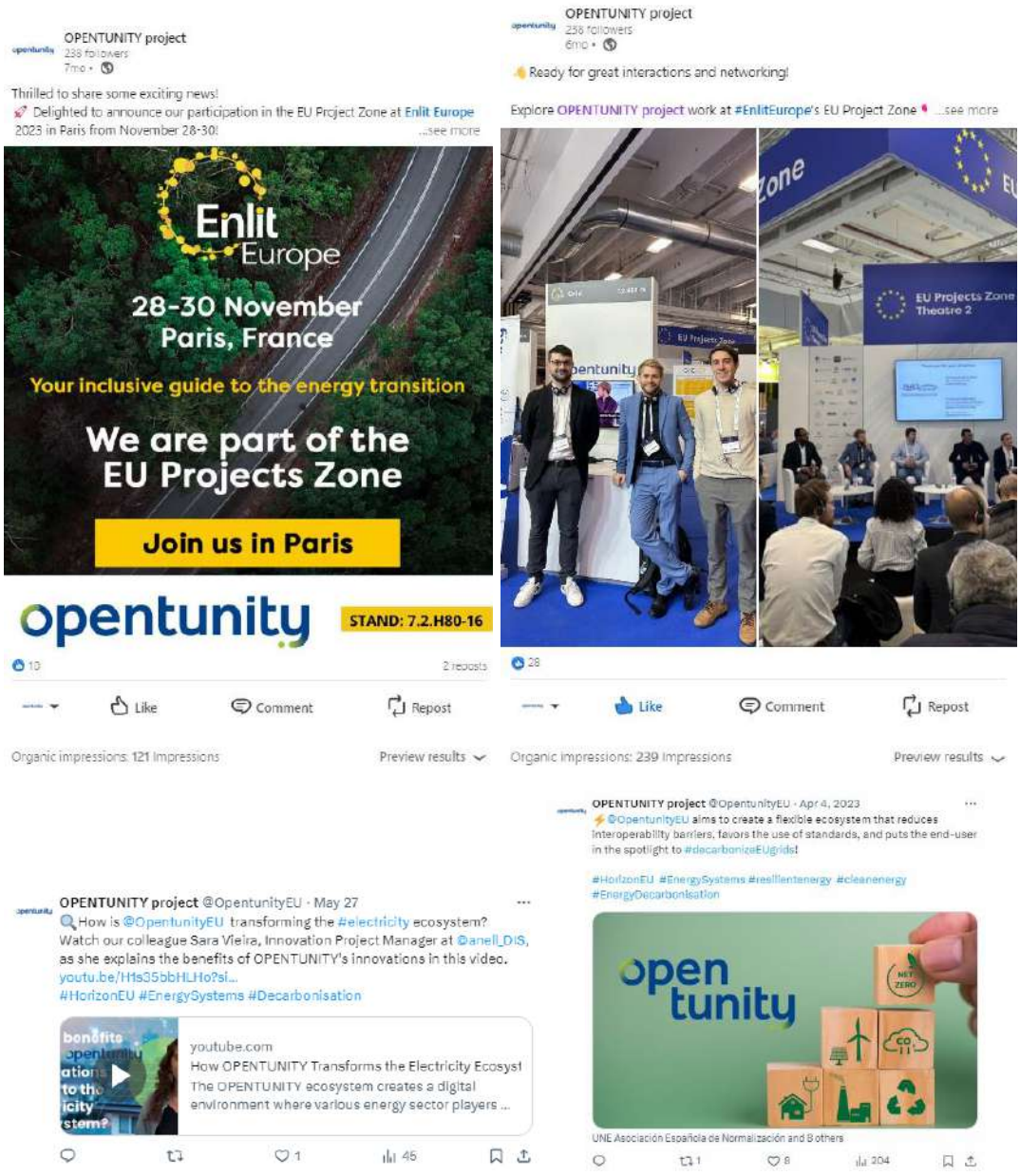


Figure 20 - Examples of campaign posts

Outcomes: Online campaigns (M1-M18)
• 2 online campaigns were run during the first 18 month. • The campaign that has amassed the highest number of impressions, totaling 2,314 in less than 2 months, is the one initiated to promote the OPENTINITY participation at ENLIT 2023.

Table 21 - Outcomes achieved from events between M1-M18.

3.12 Media impact

In this section, the impact of OPENTUNITY across various media platforms, including digital media, magazines, podcasts and specialised outlets, is explored. This media visibility is a result of proactive efforts by partners and their communication departments, who directly engage with media outlets through press releases or previews of their work. Furthermore, the influence extends from the communication channels of OPENTUNITY and its partners, which media outlets utilise as sources for generating news content. The website contains a press clipping section with this impact [9]. This report also includes it in Annex 4 - Press Clipping.

Title	Date	Country	Audience type	Language	Link
Better Hard- and Software for the Energy Transition	January 2023	Austria	Specialised	English	https://www.joanneum.at/en/life/latest-developments/news/news-detail/better-hard-and-software-for-the-energy-transition
The new OPENTUNITY project will open electricity ecosystems towards a real EU decarbonization	January 2023	Slovenia	Specialised	English	https://lest.fe.uni-lj.si/news/the-new-opentunity-project-will-open-electricity-ecosystems-towards-a-real-eu-decarbonization/
The new OPENTUNITY project will open electricity ecosystems towards a real EU decarbonization	January 2023	Slovenia	Specialised	English	https://www.reduxi.eu/news/25/57/The-new-Opentunity-project-will-open-electricity-ecosystems-towards-a-real-EU-decarbonization/
OPENTUNITY launches to enhance DER interoperability	Februar y 2023	United Kingdom	Specialised	English	https://industrialnews.co.uk/opentunity-launches-to-enhance-der-interoperability/
OPENTUNITY launches to enhance DER interoperability	Februar y 2023	The Netherlands	Specialised	English	https://www.smart-energy.com/regional-news/europe-uk/opentunity-launches-to-

					enhance-der-interoperability/
Energy Web joins the OPENTUNITY consortium to open Electrical Ecosystems to Decarbonize European Grids	Februar y 2023	Internatio nal	Specialised	English	https://medium.com/energy-web-insights/energy-web-joins-the-opentunity-consortium-to-open-electricity-ecosystems-to-decarbonize-european-764725e40e1b
ETRA I+D participará en la Semana Europea de la Energía Sostenible de la CE	June 2023	Spain	Specialised	Spanish	https://www.ite.es/etra-id-participara-en-la-semana-europea-de-la-energia-sostenible-de-la-ce/
Video interview "EUSEW Interview: Alvaro Nofuentes about the OPENTUNITY project and digitalization"	Novem ber 2023	Europe	Specialised	English	https://youtu.be/iOdQUl571KE?si=QnvnKe5WMDlcHeY6
The new European Project Opentunity	Februar y 2024	Norway	Specialised	English	https://nodesmarket.com/r&d-projects/opentunity/
OPENTUNITY: Opening the electricity ecosystem to multiple actors	April 2024	Europe	Specialised	English	https://www.enlit.world/projects-zone/opentunity-opening-the-electricity-ecosystem-to-multiple-actors/

Table 22 - Press clipping list of OPENTUNITY.

Enlit

Guest Contributor
8 April 2024

Share this article

Projects Zone | Decentralised Energy | Grid Infrastructure | Grid Management & Monitoring | Smart Grids

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

(OPENTUNITY ecosystem)

Funded under the Horizon Europe Programme, Spearheaded by ETRA, and backed by a consortium of 21 partners (including ETRA) spanning eight European countries, the OPENTUNITY project is striving to create a more flexible energy ecosystem, removing barriers to interoperability and championing standardized approaches. Its goal is to decarbonise EU grids and place the end-user at the center of the energy transition.

In the context of a global climate crisis and the ambitious targets outlined in the EU Green Deal, the digitalisation of the energy sector is as a key solution for decarbonising the European economy.

The 'Fit for 55 package' and the EU's Energy Digitalisation Roadmap highlight the added value of digital solutions, facilitating the integration of energy systems across various carriers, infrastructures, and consumption sectors.

Innovations to integrate distributed flexibility systems

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 built renewable energy sources.

To achieve these objectives, the project deploys thirteen innovations across three categories:

1. OPENFLEX: This category focuses on software technologies designed to enhance flexibility within prosumer environments. It allows for the flexible delivery and valorization of energy assets within buildings, including stationary storage and electric vehicle chargers. This innovation simplifies user-friendly installation and commissioning of a state-of-the-art Energy Management System (EMS) and enables the sale of flexibility in local flexibility markets. It benefits a wide range of stakeholders, including ESCOs, aggregators, small and medium prosumers, facility managers, EV car-sharing companies, and market operators.

2. OPENGRID: It offers supports for software technologies aimed at helping Distribution System Operators (DSOs) and Transmission System Operators (TSOs) to manage grid-related challenges more effectively. It provides powerful grid monitoring and control, offering real-time information on grid status and analysing flexibility requirements to initiate demand response campaigns. This innovation primarily benefits DSOs and TSOs.

OPENFLEX
Technologies to increase flexibility in prosumer environments.

OPENGRID
Supporting technologies for DSOs and TSOs to better manage grid issues

OPENABILITY
Procedures for enhancing interoperability

3. OPENABILITY: This category introduces procedures for enhancing interoperability. It provides a set of methodological procedures designed to enhance cooperation between different actors within the energy system. This innovation is beneficial to IT developers, companies, universities, research centers, DSOs and TSOs, OEMs, ESCOs, and small and medium prosumers.

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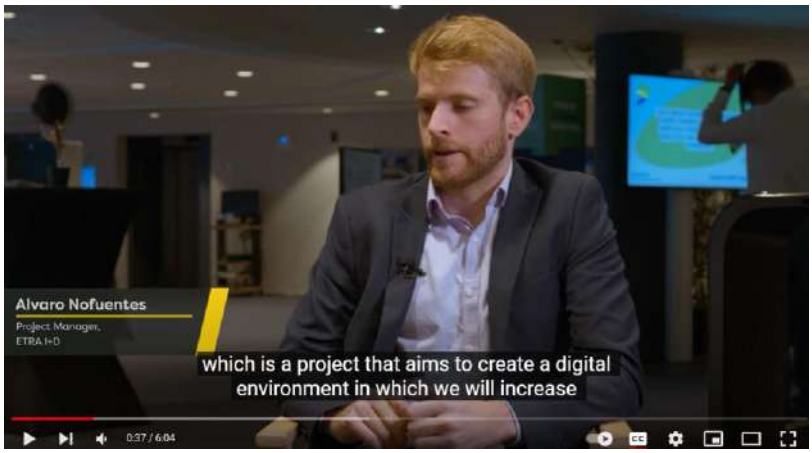

ETRA I+D participará en la Semana Europea de la Energía Sostenible de la CE

NOTICIAS ASOCIADOS

ETRA I+D, empresa asociada al Instituto Tecnológico de la Energía (ITE) contará con un stand en la Feria de la Energía de la Semana Europea de la Energía Sostenible (EUSEW 2023) entre el 20 y 22 de junio en Bruselas. ETRA I+D mostrará algunos de sus últimos y más novedosos proyectos sobre energía en el marco de Horizonte 2020 y Horizonte UE. En concreto, presentará algunos de sus proyectos coordinados como TRINITY (H2020), R2D2 (HorizonEU) y Opentunity (HorizonEU).

Estos proyectos tienen como objetivo lograr una transición a un sistema energético confiable, asequible, sostenible y competitivo; a la vez que reducir la dependencia de los combustibles fósiles ante la creciente escasez de recursos, el aumento de las necesidades energéticas y el cambio climático.

En este stand los visitantes podrán conocer de primera mano estos proyectos gracias a la presencia de los expertos de ETRA I+D que trabajan en estos proyectos, materiales informativos en formato físico y digital, videos explicativos y demostraciones de sus innovaciones en directo. Además, durante los tres días de exhibición en el stand de ETRA I+D se agendarán "Coffee talks" donde los expertos de los proyectos, expertos invitados y visitantes podrán debatir sobre transición energética y las innovaciones en las que trabajan.

La Semana Europea de la Energía Sostenible (EUSEW) es el mayor evento dedicado a las energías renovables y el uso eficiente de la energía en Europa y está organizada por la Dirección General de Energía de la Comisión Europea y la Agencia Ejecutiva Europea de Clima, Infraestructura y Medio Ambiente (CINEA).

En 2023, EUSEW tendrá lugar en un formato híbrido, online y presencial en Bruselas del 20 al 22 de junio. El tema del evento es «Acelerar la transición a la energía limpia: hacia facturas más bajas y mayores habilidades».

En Bruselas tendrá lugar tres días de Conferencia con una amplia agenda de sesiones, la Ceremonia Europea de Premios de Energía Sostenible, la Feria de la Energía y el cuarto Día Europeo de la Energía para la Juventud.

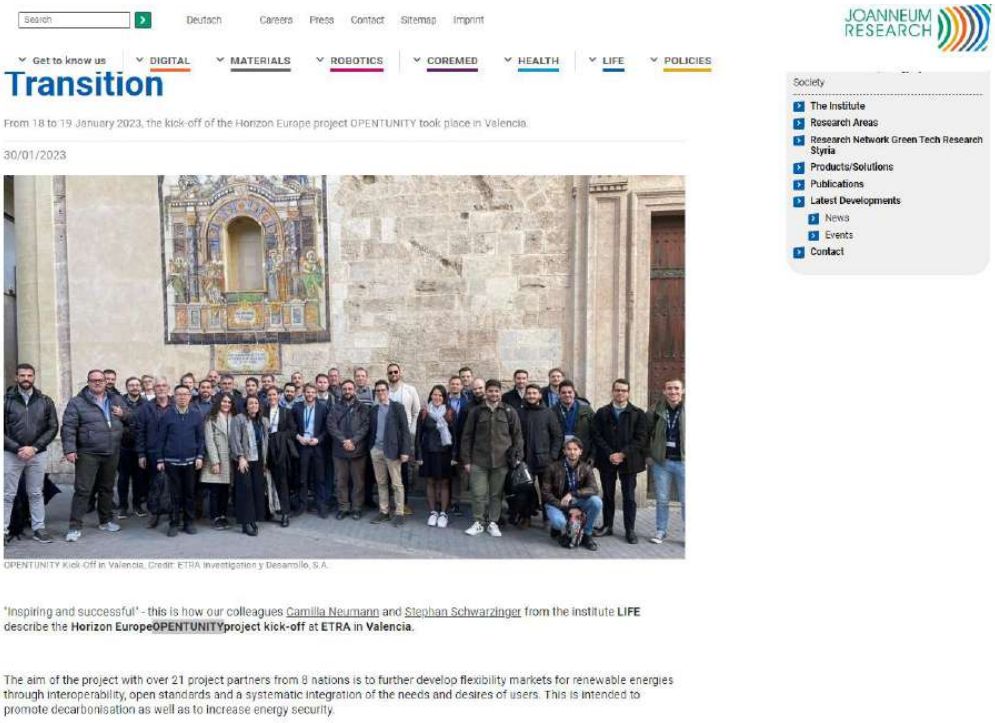

Figure 21 - Some examples of press clippings.

Outcomes: Media impact (M1-M18)
• In total, OPENTUNITY has appeared in 10 news articles across various European and international media outlets (Slovenia, Netherlands, United Kingdom. Austria, Spain, and Europe). • All of them belonging to specialised media.

Table 23 - Outcomes achieved from media impact between M1-M18.

3.13 Citizen's engagement initiatives

During the first period, ETRA and JR organised an internal workshop for the pilot sites focused on creating a citizen engagement strategy. The workshop provided best practices, initial communication tips, and key messages. With these guidelines, pilot site partners can begin planning the most appropriate activities for their end-users and goals.

WP8 - Citizen Engagement

How to create a citizen engagement strategy?

1. Identify your audience/end-users

- **Who will benefit from OPENTUNITY solutions**
- Consider whether **your aim** is to inform, educate, motivate, mobilize, or enroll them in OPENTUNITY.
- Understand **their habits**.
- Understand **preferences for receiving information and feedback**.
- By gaining insight into your audience, you can tailor your message and style accordingly.

2. Choose your channel (action)

- Choose the **most suitable channel** for your engagement strategy.
- Depending on your audience and your goal, you may use different actions such as **face-to-face meetings, workshops, phone calls, emails, social media, newsletters, flyers, posters, podcasts, videos, lading pages, etc.**
- Each channel has its own advantages and disadvantages, such as reach, cost, speed, feedback, and credibility.

6

WP8 - Citizen Engagement

How to create a citizen engagement strategy?

3. Define your message

- Ensure that your message is **relevant, accurate, concise, and persuasive**.
- Use **simple and direct language**, avoid jargon and acronyms.
- Support your claims **with examples and evidence**.
- Maintain a positive and respectful tone throughout your communication.
- Your message should appeal to your audience's emotions, values, and logic, and inspire them to take action.

4. Engage your audience

- You should not only deliver your message, but also **listen to your audience's feedback, questions, and concerns**.
- Encourage **dialogue and discussion**, invite participation and collaboration, and acknowledge and address any challenges or objections.
- Follow up and follow through with your audience, **thank them for their involvement**, and celebrate their achievements.

7

WP8 - Citizen Engagement

How to create a citizen engagement strategy?

5. Powerful strategies

A. **Digital platforms** (landing pages, social networks, etc.): They can serve as **hubs for city information and services**. They can allow citizens to participate in discussions, report issues, and provide feedback.

B. **Events**: Organize community events, workshops, and town hall meetings to **discuss issues, gather opinions, and involve citizens in decision-making processes**.

C. **Diverse Communication Channels**: Use a diverse range of communication channels, such as **flyers, newsletters, billboards, landing page, online adds, etc.** to ensure that citizens from different backgrounds and age are reached.

D. **Feedback actions**: Conduct **surveys** to gather opinions and feedback from citizens on various aspects.

E. **Online Campaigns**: Use social media to **engage citizens, share information, and encourage discussions**. Define the action and message you want spread.

F. **Multilingual Communication**: Offer information and materials in multiple languages to **reach diverse communities** within the city.

G. **Collaborate with local organizations**: Partner with local community organizations, NGOs, and businesses to harness their resources and networks for citizen engagement efforts.

H. **Recognition**: **Acknowledge and appreciate citizens** who actively engage by providing certificates or other forms of public acknowledgment.

I. **Transparent process**: Promote transparency, ensure **citizens are well-informed and understand** how to participate.

J. **Monitor and evaluate**: Regularly assess and **adapt your strategy** based on their feedback and outcomes.

8

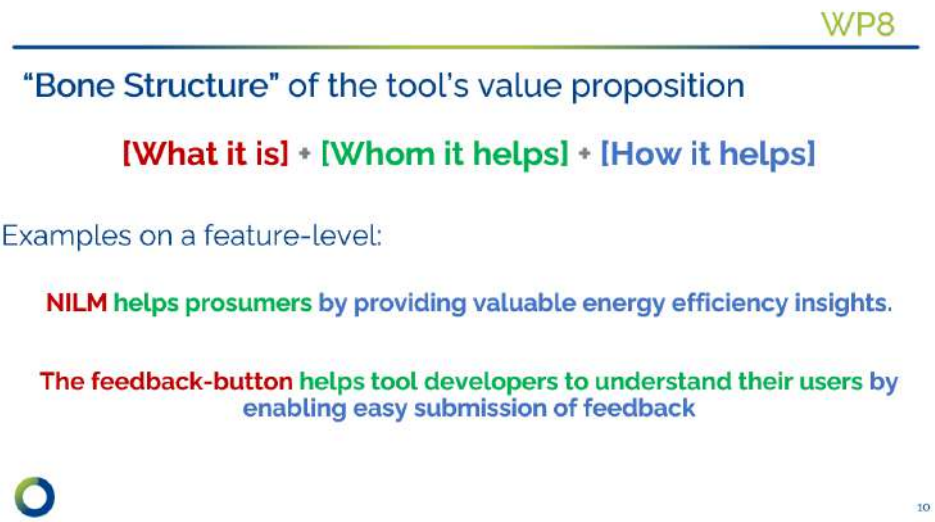

Figure 22 - Some slides of the citizen engagement workshop.

Outcomes: Citizen engagement (M1-M18)
An internal workshop was organised for the pilot sites, focusing on developing a citizen engagement strategy.

Table 24 - Outcomes achieved from citizens engagement between M1-M18.

3.14 Cooperation activities

OPENTUNITY is committed to fostering collaboration and knowledge-sharing as key strategies for addressing regulatory challenges, innovating business models, and overcoming obstacles to progress. Through proactive engagement with various initiatives, associations, and fellow European-funded projects, OPENTUNITY aims to cultivate synergies and facilitate the exchange of valuable experiences. Special attention is paid to the other projects funded under HORIZON-CL5-2022-D3-01-12 and the BRIDGE initiative. Table 25 displays the specific activities over time.

During the first 18 months efforts were focused on the BRIDGE initiative and participated actively in its four Working Groups (WGs).

Name of project or initiative	Activity	Location	Date	N° participants	Link
BRIDGE	Become members in the WGs: Regulation, Data Management, Business	NA	Ongoing	7	NA

	Models, Consumer and Citizen Engagement				
BRIDGE	Participation in the BRIDGE General Assembly (GA) 2023	Brussels	28-30/03/2023	≥ 100	NA
BRIDGE	Participation in the BRIDGE General Assembly 2024	Brussels	9-10/04/2024	≥ 100	https://opentunityproject.eu/2024/04/12/opentunity-participates-in-the-bridge-general-assembly-2024/
BRIDGE	Regular participation in the meetings and workshops of the different WGs. Partners have participated in 15 internal meetings, 2 workshops, 2 GAs.	Online	Ongoing	NA	NA
BRIDGE	Participation in 8 surveys of different WGs.	Online	2023-2024	NA	NA
BRIDGE	Participation in the Brochure 2023	Online	06/2023	NA	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	BRIDGE reports: Data Management Working Group Action #5 – Interoperability of home appliances and Regulation WG, action 5	Online	2023-2024	NA	NYA
BRIDGE	Publication of an article in the BRIDGE Newsletter, issued in December 2023.	Online	12/2023	NA	https://ec.europa.eu/newsroom/etipsnet_bridge/newsletter-archives/49693
Every1 cluster network	First online meeting to discuss synergies and define dissemination activities in the short term.	Online	14/04/2023	4	NA

Table 25 - List of cooperation activities by M18.

Outcomes: Cooperation activities (M1-M18)
• Seven partners are representatives of OPENTUNITY in the four WGs of BRIDGE. • Actively participation in the BRIDGE General Assemblies 2023 and 2024. • Partners have participated in 15 internal meetings and 2 workshops of BRIDGE. • Participation in 8 surveys of different BRIDGE WGs. • Participation in 3 reports in BRIDGE. • Actively participation in the BRIDGE communication action. • Publication of an article in the BRIDGE Newsletter, issued in December 2023. • Direct contact with Every1 project to find synergies and define concrete actions in the short term.

Table 26 - Outcomes achieved from cooperation activities between M1-M18.

3.14.1 BRIDGE initiative

OPENTUNITY is involved in the four Working Groups (WGs) of BRIDGE initiative of H2020/Horizon EU Smart Grids and Storage projects [10] focused on data management, business models, regulations, and customer and citizen engagement. A special effort was made to coordinate activities with the BRIDGE initiative to generate knowledge sharing and create synergies with other projects.

3.14.1.1 Partners involve in BRIDGE

This section shows the partners that are actively participating in the BRIDGE initiative representing OPENTUNITY project:

Álvaro Nofuentes participates in the Business Models Working Group representing OPENTUNITY. Álvaro holds an Engineer's Degree in Industrial Technologies and a Master's in Industrial Engineering (specialization in Energy Management) from the Polytechnic University of Valencia. He is currently working at ETRA I+D as the Project Manager of the EC project OPENTUNITY. Álvaro was also the Project Manager of the finished WiseGRID and TRINITY H2020 projects and former Chair of the Customer Engagement Group at the BRIDGE initiative.

Uršula Krisper represents OPENTUNITY in the BRIDGE Regulation Working Group. Ursula is an electrical engineer (MSc) by profession, namely she works for Elektro Ljubljana, the largest Slovenian DSO. Besides, she works in many Horizon Europe projects: Enershare- responsible for the development of the Data Spaces Governance Models, Senergy Nets, responsible for the Slovenian pilot, R2D2- the manager of the Slovene partners, Flexchess- responsible for the pilots and risk manager, and finally OPENTUNITY- member of the Slovenian pilot and in the role of the data provider. From November 2021 to March 2024, she participated at all meetings of the Regulation WG. In parallel she engaged herself also in other working groups and subgroups. She has the ambition to enhance BRIDGE community the scope of the DSO,

Giorgos Pitsiladis represents OPENTUNITY in the BRIDGE Data Management Working Group. Giorgos holds an Electrical and Computer Engineering Degree and a PhD in Telecommunications from the National Technical University of Athens, Greece. He is currently working at Hypertech as a Project Manager and R&D engineer of EU-funded projects. Giorgos was involved as a Project Manager in DRIMPAC and EBENTO and he is currently a Project Manager in SENDER and OPENTUNITY. In the past, he worked for HEDNO (Greek DSO) as the Deputy Head of the Distribution Network in the Elefsina district.

Ilias Sarantakos had been involved in OPENTUNITY from March 2023 – January 2024 as a project manager and researcher and **represented the project in the BRIDGE Data Management Working Group**. Ilias holds an Engineer's Degree in Electrical Engineering from the National Technical University of Athens, Greece and a PhD in Power Systems from Newcastle University, UK. Prior to joining Hypertech SA, he was involved in 8 UK research projects. Finally, he is an author of more than 40 journal articles, conference papers, and technical reports.

Vassilis Boglou represents OPENTUNITY in the Data Management Working Group. Vassilis holds a M.Eng. degree in Electrical and Computer Engineering and from the Technical University of Crete and a Ph.D. in Electrical Engineering from the Democritus University of Thrace (specialization in integration of DERs and EVs in energy distribution networks). He is currently working at HEDNO as a researcher in EU-funded projects.

Michael Brenner-Fliesser represents OPENTUNITY in the Consumer and Citizen Engagement Working Group. From March 2022 to March 2024, he was the leader of the subgroup on indicators of engagement. In March 2024 he became the new chair of the Working Group. Michael is a social scientist by training and currently works in three Horizon Europe projects (ENCLUDE, Every1, OPENTUNITY) and 2 tenders of the European Commission (Citizen-Led-Renovation Phase 1 and Phase 2). In all the projects, he is engaged with understanding and reinforcing user engagement and user acceptance, which is also highly relevant for the BRIDGE-work and allows for ongoing learning and improving of this topic.

Raquel Castán represents OPENTUNITY in the Communication task. She holds a double major in Environmental Science and a Master's in Journalism. As a multimedia journalist specialising in environmental affairs, Raquel has extensive experience in environmental consulting and communication across the United Kingdom, Canada, France, Belgium, and Spain. She has a wealth of experience managing communication for various EU projects, including NOBEL GRID, CROSSBOW, MEISTER, OPENTUNITY, X-FLEX, OPENTUNITY, R2D2, EBENTO, ECOLOOP, and ODEON.

3.14.1.2 OPENTUNITY contributions to BRIDGE Working Groups and Task Forces

WG Consumer and Citizen Engagement

Since the inception of OPENTUNITY, the Consumer and Citizen Engagement (CCE) Subgroup on Indicators of Engagement has played a crucial role. Meeting twice a month, this subgroup developed and reported on engagement indicators, ensuring alignment with OPENTUNITY's goals. Michael Brenner-Fliesser, as representative of OPENTUNITY, also contributed to the BRIDGE annual report, due in June 2024. In March 2024, Michael Brenner-Fliesser took over the lead of the WG. This new leadership prepared and presented at the BRIDGE General Assembly Meeting in April 2024, underscoring OPENTUNITY's commitment to engagement.

WG Data Management

Partners involved in the WG participated in a total of seven meetings held by BRIDGE organisers and participated and completed the Action 5 on interoperability of home appliances - device-level survey.

WG Business Models

OPENTUNITY has completed all the questionnaires addressed to the members of this Working group and it is included in Task1, 2 and Task 3 subgroups.

WG Regulation

During 2023, the main focus was the preparation of the plan for 2023 and for 2024.

Communication Task

In terms of BRIDGE communication actions, OPENTUNITY actively participates by engaging in social media promotions, publishing on the website and in the BRIDGE newsletter, and through direct email communications.

3.14.2 Collaboration with Every1 project

The Every1 project [11] brings together leading experts in energy, education and social sciences to deliver a new, impactful concept of the energy market. It includes all elements needed to enable an effective participation of all European stakeholders, and digital solutions play an important part in opening the process. Every1 starts from a deep data-informed understanding of stakeholders to map who they are, what they know, how they use information and where they look for it. Existing solutions will be assessed, while a campaign will be launched at the local level. No one will be left behind. The project has a Cluster Network which provides support for dissemination and communication efforts and increase collective outreach ability.

OPENTUNITY and Every1 projects have initiated collaborations through a first online meeting to identify synergies. The meeting revealed several common objectives between both projects, including:

- Fostering energy communities.
- Creating a synergic energy ecosystem where grid operators have better technology tools, enabling prosumers to unlock the potential of their energy assets.

- Boosting flexibility in prosumers' environments with technologies such as Home Energy Management Systems.
- Facilitating the integration of distributed flexibility systems, such as batteries or electric vehicles.

To begin with, the projects have agreed to:

1. Identify actions to support each other's dissemination and communication efforts, thereby increasing collective outreach capabilities.
2. Share project updates across websites, social media, newsletters, etc.
3. Include OPENTUNITY in the Cluster Network mailing list and subpage, providing it with media packs, helpful resources, and dissemination opportunities.
4. Invite Every1 to the OPENTUNITY talk series and contribute to the next newsletter.

Figure 23 - Photo of the online meeting with Every1 project.

3.14.3 Standardization bodies

Following an in-depth analysis of the standardization landscape and socioeconomic backdrop, the OPENTUNITY partners, led by UNE, have been working on the "Strategy for the development of the standardization activities" document, which specifies an action plan for the next tasks involving communication with technical standardization bodies and contributions to standardization. At this moment, the first version of this strategy has been defined, and it will be updated accordingly, as the project progresses.

This document explains the communication that will be established between the OPENTUNITY project, and the key committees identified by the partners, which will allow the dissemination of the project, and obtain valuable feedback. Additionally, OPENTUNITY will be able to contribute to the activity of these committees and European/international standardization with its results. As part of the contribution to the standardization tasks of OPENTUNITY, UNE plans to collaborate with other standardization bodies, such as the European Standardization Organizations (ESOs) and their Technical Committees and Subcommittees. The goal of the project is to decarbonize EU grids, and CEN/CLC Workshop Agreements are usually the most suitable way to contribute to standardization in this kind of projects. Nevertheless, ISO/IEC (International Standardization Organizations) committees and the Connectivity Standards Alliance are also listed among the suggested committees to be considered.

Figure 24 - Frontpage of the draft report "Strategy for the development of the standardization activities".

4 Changes and obstacles found

During this period, OPENTUNITY faced several transformations that directly influenced its dissemination and communication actions. Nevertheless, proactive measures were swiftly implemented to surmount these challenges. Table 27 compiles the main modifications and obstacles identified by the partners, alongside the corresponding corrective actions undertaken.

Changes / Obstacles	Description	Action taken	Stakeholders affected
OPENCHAIN innovation category was displaced	This category was replaced by the data space concept, so called "OPENSPACE"	The description of this innovation category was replaced by the OPENSPACE on the website and promotional materials. New actions will be defined to promote these actions with the help of QUE Technologies, partner as the leader of it.	All
Partners shift	Energy Web partner left the consortium and was replaced by QUE Technologies.	The logos were replaced in the communication channels.	All

Table 27 - List of changes and obstacles that affected OPENTUNITY outreach.

5 Assessment

5.1 Impact – Key Performance Indicators (KPIs)

Key Performance Indicators (KPI), also known as KSI (Key Success Indicators) help OPENTUNITY define and measure progress towards fixed goals for dissemination and communication activities. In this sense, KPI's are the measurements to determine the dissemination plan's success and achievement of the main objective.

A preliminary list of KPIs has been established in D8.1, and this deliverable shows the results achieved after 18 months of project completion.

Dissemination action	KPIs	Targets set to achieve in M48	M18
Website	Design and Development of the project's web portal	Fully developed web portal by M4	YES
	Total page views	≥ 10,000	1,638
	Regular update of the website content	Continuous update (1 time/month)	YES
	Visitor's countries	Minimum 10 countries	≥ 10
	Nº of post	≥ 110	23
	Nº of documents published	≥ 30	10
	Nº of downloads	≥ 800	95
Social networks	Nº of followers on X	≥600	160
	X posts	≥ 1,000	70
	Impressions in X	≥ 200,000	21,805
	Nº of followers on LinkedIn	≥ 300	239
	LinkedIn posts	≥ 200	36
	Impressions in LinkedIn	≥ 70,000	16,581
	Content share in the Zenodo	≥ 4	Period 2
	YouTube subscribers	≥ 100	8

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

Webinars	Nº of all webinars	4	Period 2
	Total participants/views	≥ 400	NYA
	EU projects invited	≥ 4	NYA
Joint activities with other related EU projects or initiatives	Nº of related projects or initiatives addressed	≥ 5	2
	Nº of actions	≥ 5	2
	Audience reached	≥ 200	≥ 100
BRIDGE activities	Nº of events/meetings attended	20	19
	Contributions in reports	2	4
	Nº of joint actions with other EU projects	≥ 4	Period 2
Talks	Nº of talks	3	Period 2
	Participation of related projects or initiatives	≥ 3	Period 2
	Total of participants	≥ 200	Period 2
Online campaigns	Nº of campaigns	4	2
	Engagements	≥ 7,000	286
	Impressions	≥ 1,000	3,444
Women in energy action	Nº of actions	2	Period 2
	Nº of women reached	≥ 100	Period 2
	Nº entities reached	≥ 5	Period 2

Table 28 - List of KPIs for OPENTUNITY to be reached by M18.

6 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.
- Messages have been effectively conveyed through different target audiences and channels.
- All dissemination materials (icons, brochures, roll-ups, template posters, template documents and presentations, visuals, and videos) have been successfully designed and adapted according to project changes.
- The website was launched and has reached 1,638 visits with a total of 523 users. A total of 23 posts have been published. The most visited sections include Home, Library, Partners, Dissemination Materials, News, Sites, and Innovations. More than 95 documents were downloaded.
- Social media platforms have played a significant role in dissemination efforts. OPENTUNITY has active accounts on X, LinkedIn, and YouTube, reaching a wide audience and generating substantial engagement. On X, analytics show 21,805 impressions, 66 tweets, 157 followers, 65 retweets, and 229 likes. On LinkedIn, there are 234 followers, 36 posts, 16,581 impressions, and 863 total reactions. On YouTube, the channel comprises 5 videos with 190 views and 4 subscribers.
- A press release was issued at the project's launch to introduce OPENTUNITY to various target audiences.
- In total, OPENTUNITY has appeared in 10 news articles across various European and international media outlets (Slovenia, Netherlands, United Kingdom. Austria, Spain, and Europe). All of them belonging to specialised media.
- OPENTUNITY newsletters have more than 40 subscribers, and 2 newsletters have been published, achieving a 50% click rate per unique opens (average).
- One scientific publication is in open access and accepted but pending publication. Partners are preparing 6 new papers.
- During this period, 7 public deliverables have been submitted, 5 of which are available on the website and have been downloaded 10 times.
- Two online campaigns were run during the first 18 months. The campaign with the highest number of impressions, totaling 2,314 in less than 2 months, promoted OPENTUNITY's participation at ENLIT 2023.
- An internal workshop was organised for the pilot sites to create a citizen engagement strategy. With these guidelines, pilot site partners can plan the most appropriate activities for their end-users and goals.
- During the first 18 months, efforts were focused on the BRIDGE initiative, with active participation in its four Working Groups (WGs). Seven partners represent OPENTUNITY in the four WGs of BRIDGE. They participated in the BRIDGE General Assemblies in 2023 and 2024, 15 internal meetings, 2 workshops, 8 surveys, BRIDGE brochure 2023 and 2 reports. Additionally, they published an article in the BRIDGE Newsletter issued in December 2023 and actively participated in BRIDGE communication actions.

- Collaboration actions have begun with the Every1 project to find synergies and define concrete dissemination actions in the short term.
- OPENTUNITY partners have been working on the "Strategy for the Development of Standardization Activities" document, which specifies an action plan for upcoming tasks involving communication with technical standardization bodies and contributions to standardization.
- More efforts should be directed towards increasing the number of scientific and other types of publications, engaging stakeholders and end-users, strengthening collaboration with related projects and initiatives, and disseminating benefits and results to the public.

7 Next steps

In the coming months until the second period (M32), an action plan with concrete actions has been defined to achieve and successfully complete the targets outlined in D8.1. The specific actions are as follows:

1. Participation in the Grid Service Market Symposium (July 2024).
2. Publication of Newsletter #3 in M24 and Newsletter #4 in M32.
3. Running two online campaigns to promote innovations and generate end-user engagement until M24.
4. Issuing a press release on the status of the OPENTUNITY project before M24.
5. Preparation of six new scientific publications.
6. Production of four new videos by M32.
7. Co-organization of a joint activity with Every 1 project.
8. Organization of two OPENTUNITY talks by M32.
9. Organization of one cooperative event/workshop with related projects by M32.
10. Defining two Women in Energy actions with partners and related entities by M32.
11. Participation in eight events by M32.
12. Increasing the number of publications across communication channels.
13. Establishing collaboration actions with two new EU projects and entities.
14. Engaging with at least three standardization bodies by M32.
15. Publishing the first version of the “Strategy for the Development of Standardization Activities” document.

8 References and acronyms

8.1 References

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8.2 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
MEPs	Members of the European Parliament
NA	Not Available
NODES	NODES AS
NYA	Not Yet Available
OEM	Original Equipment Manufacturer
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
SSERR	Support Services for Exploitation of Research Results
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

Table 29 – List of acronyms

9 Annex 1 - Word and Power Point templates

[Title of the deliverable]

24 March 2023

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[Title of the deliverable]

Deliverable details

Lorem ipsum

Title	WP	Version

Contractual delivery date	Actual delivery date	Delivery type*	Dissemination**

*Delivery type: R: Document, report; DEM: Demonstrator, pilot, prototype; DEC: Websites, patent fillings, videos, etc; OTHER; ETHICS: Ethics requirement; ORDP: Open Research Data Pilot.

Dissemination Level. **PU: Public. **CO**: Confidential, only for members of the consortium (including the Commission Services)

Author(s)	Organization
Name	-
Name	-

Version	Date	Person	Action	Status***

***Status: Draft, Final, Approved, Submitted (to European Commission)

Authors (organization)
Author (partner)

Keywords

Include your keywords here

[Title of the deliverable]

Executive Summary

Include your abstract here

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2 Introduction

2.1 Purpose of the document

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Figure 1

[Title of the deliverable]

2.2 Scope of the document

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2.3 Structure of the document

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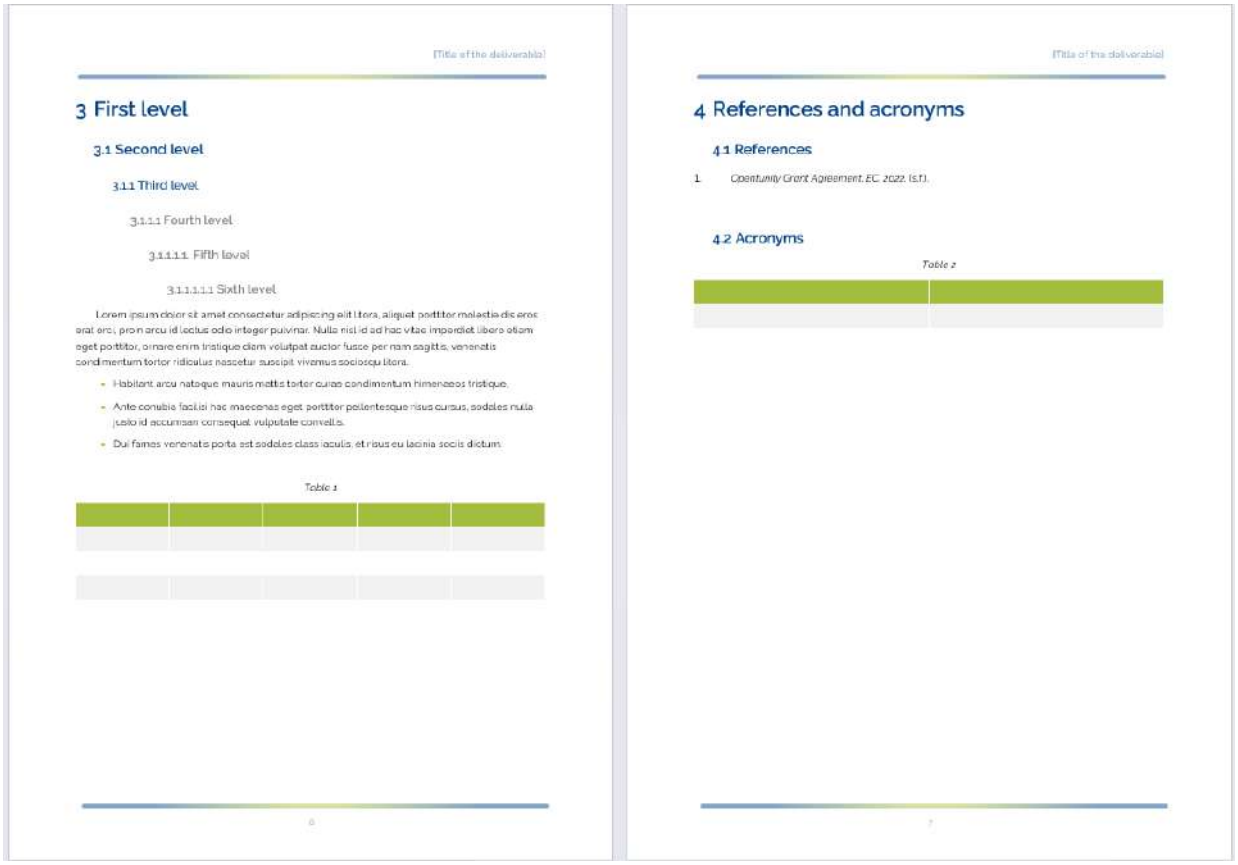
Quisque faucibus porta fermentum aliquam tellus erat himenaeos, lectus pellentesque maecenas non neque iaculis ad, leo ullamcorper duis cum id suspendisse. Vulputate hac sollicitudin posuere urna congue in lectus aptent, pharetra nisi rhoncus consequat scelerisque et bibendum augue habitant, fusce ridiculus tempus orci natoque risus vitae.



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3 First level

3.1 Second level

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- Habitant arcu natoque mauris mattis tortor curae condimentum himenaeos tristique.
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Table 1

[Title of the deliverable]

4 References and acronyms

4.1 References

1 Opentunity Grant Agreement. EC. 2022. (s.f.).

4.2 Acronyms

Table 2

opentunity

/ Event Title

20.01.2023

Presentation title

Partner / Speaker

Funded by the European Union

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Horizon Europe Grant agreement N° 101096333 .

OPENing the electricity ecosystem to multiple actors in order to have a real decarbonization opportunity

TITLE 1

TITLE 2

- Content

  Details

Column 1	Column 2	Column 3
Xx	Details	Details
Yy	Details	Details
Zz	Details	Details

3

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10 Annex 2 - OPENTUNITY Newsletters

One year of OPENTUNITY

OPENTUNITY is achieving significant milestones, and in its inaugural year, the consortium has successfully laid the foundations for the project. This includes finalising **Use Cases**, requirements, Key Performance Indicators (KPIs), architecture, **standardization** landscape, Pilo tSites analysis, and the **Business Models roadmap**. These foundational elements are strategically designed to facilitate the effective development and impact of innovations that will ultimately benefit European grid operators and prosumers.

Currently, the consortium is actively engaged in the design and development phases of various **innovations**. A preliminary version of these innovations is anticipated to be completed by 2024. Technical leaders are currently working closely with the **pilot sites**, ensuring that the features align seamlessly with the expectations and needs of the **end users**.

Check this newsletter to find more information about these innovations!

Embarking on AI-Powered Non-Intrusive Load Monitoring (NILM) Algorithms

OPENTUNITY is at the forefront of developing **Artificial Intelligence** (AI) -based Non-Intrusive Load Monitoring (NILM) algorithms. These advanced algorithms leverage **household energy consumption** data to deduce active appliances and their corresponding **energy usage in real-time**. What sets NILM apart is its capability to provide detailed insights into disaggregated energy consumption without the need for submetering, presenting a **cost-effective** solution

for end-users.

As the coordinator, ETRA has undertaken comprehensive research in this field, meticulously evaluating the State of the Art. The most promising focus for its endeavors lies in the development of semi-supervised algorithms, a relatively unexplored area in the AI. Within the OPENTUNITY project, ETRA is dedicated to advancing knowledge in this domain, with the ultimate goal of introducing innovative technology to European households based on this promising and groundbreaking approach.

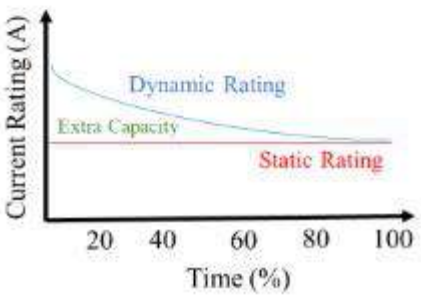
This image shows the NILM. This dashboard shows four KPIs, on the left side, from top to bottom, the evolution of the total consumption of the monitored house, the disaggregation of the consumption of the different connected devices using artificial intelligence algorithms and the ON/OFF connections of each device. Finally, the right-hand side shows the total consumption of each device in the period of study, in this case, the previous 12 hours.

Optimizing Line Rating for Efficient Electricity Market Operation

Line Rating significantly influences the electricity market's efficient operation. Traditional Static Line Rating methods often provide conservative capacity estimates, based on worst-case weather conditions. Enhancing the accuracy of these estimations can **optimise distribution system lines**, increase Renewable Energy Source (RES) hosting capacity, and reduce the need for costly Distribution System Operator (DSO) upgrades.

Accurate line rating involves measuring air and conductor temperatures, solar heat intensity, and wind speed/direction. While deploying numerous sensors along the line enhances accuracy, it also escalates costs.

In the OPENTUNITY context, ICCS partner is developing a cost-effective, real-time



Line rating chart

thermal rating algorithm.

Leveraging machine learning techniques, ICCS integrates numerical **weather forecasts** and data from **OPENTUNITY ecosystem sensors**, including those near distribution lines like RES plants and home automation systems. This approach aims to deliver precise line current rating estimates without the need for an extensive sensor network.

ICCS combines traditional practices with state-of-the-art research methods, aligning with industry standards such as CIGRE and IEEE. This integration promises to enhance the efficiency of electricity market operations through improved real-time current rating.

Spanish pilot site prepares to test OPENTUNITY's uses cases

The Spanish pilot site is prepared to star testing the OPENTUNITY's use cases. After a period identifying challenges in the company's grid and defining corresponding solutions, the ANELL partner, Catalan DSO, initiated the process of delineating the pilot site's activity area. This site covers municipality of Santa Eulàlia de Ronçana, a town located in the county of Vallés Oriental (Barcelona), spanning 14 km2 with a mix of urban and rural areas. ANELL manages almost 80km of Low Voltage (LV) lines, 30km of Medium Voltage (MV) lines and is supplying around 2.500 Smart Meters.

This site was selected based on the high frequency of non-technical losses in the area and the amount of residential photovoltaic solar panel installations, around 120 with a maximum power capacity of around 1 MW.

OPENTUNITY's Use Cases will be very valuable for ANELL in addressing different challenges.

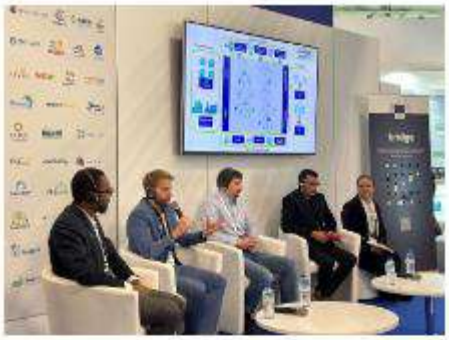
Read more

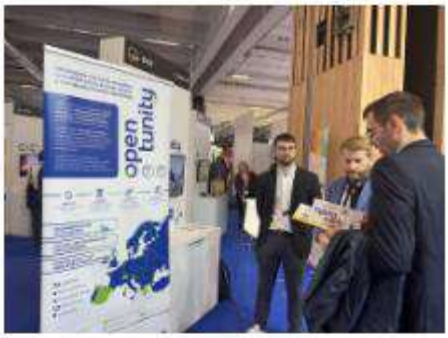
OPENTUNITY Unveils Grid Technologies at ENLIT

OPENTUNITY made its debut in the vibrant world of ENLIT at the **EU Project Zone of ENLIT 2023**, showcasing its stand and actively participating in a hub session focused on 'Grid Technologies.' This event offered a unique platform for connecting with fellow projects under the **BRIDGE initiative**, fostering collaborations, and highlighting the project's benefits to energy sector professionals driving the energy transition.

During the 'Grid Technologies' session, our project coordinator highlighted OPENTUNITY's active development of digital solutions for the grid to support the energy transition. This involves creating software platforms designed to aid small Distribution System Operators (DSOs) lacking proper topology data and state estimation, thereby enhancing their

functionalities.





Read more

OPENTUNITY Hosts European Commissioner for Energy

Kadri Simson, the Commissioner for Energy of the European Commission, visited OPENTUNITY's booth at the EUSEW 2023.

In a momentous occasion, the OPENTUNITY team proudly welcomed Kadri Simson, the **Commissioner for Energy of the European Commission**, to their booth during the European Sustainable Energy Week (EUSEW 2023). This significant encounter unfolded within the ETRA's booth, providing a platform to showcase OPENTUNITY's mission and objectives.

Together with our colleagues from ETRA, the OPENTUNITY team had the honor of introducing Commissioner Simson to the core objectives of our project. We detailed how OPENTUNITY aims to revolutionise the integration of distributed flexibility systems, such as batteries and electric vehicles, while pioneering new market mechanisms within the European Smart Grids.

Commissioner Simson expressed keen interest in the promising future of our technologies, eagerly anticipating their role in enhancing grid flexibility and supporting intermittent renewable energy sources.

Aditionally our project coordinator participated in the **session "Smart Grids: Supporting the Integration of Renewable Energy Sources and the Transition to Clean Energy"** (replay it here!).

Read more

JOANNEUM RESEARCH LIFE partners: Stephan Schwarzinger, Michael Brenner-Fließer and Camilla Naumann.

Working to reach final users

How will OPENTUNITY solutions reach users and become viable business models?

By providing social science and economic expertise, the JOANNEUM RESEARCH LIFE team has a special role in OPENTUNITY. They ensure that the solutions developed in the project find their way to users and become part of viable business models. Currently, they are developing an integrated research strategy that enables collecting close user feedback for the technological features to be tested at the demo sites in Greece, Slovenia, Spain, and Switzerland.

Read more

OPENTUNITY explaination in less than 1 min!

Watch the video

ENLIT interviews
OPENTUNITY's
Project Coordinator

Watch the video

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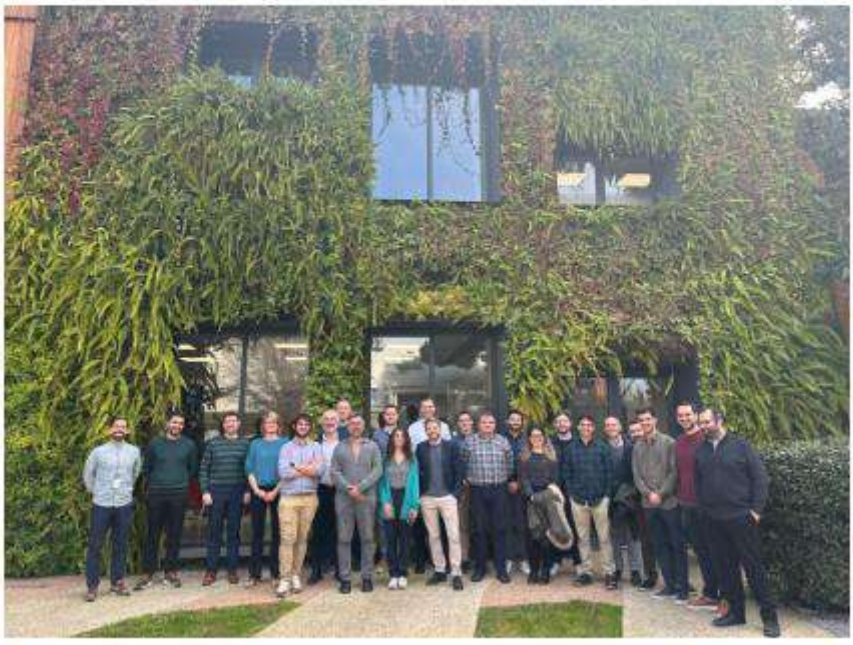
Technical Developments and New Partner Integration

The consortium is progressing as expected intheir technical developments, focusing on technologies for prosumers and grid operators.

Regarding **technologies for prosumers** (OPENFLEX), the consortium has defined the flexibility market conditions for each pilot where flexibility markets will be tested. They are currently working on setting these conditions in the NODES platform, allowing **flexibility optimization algorithms to be more tailored to specific market conditions**. Notably, the OPENTUNITY NILM models are yielding promising results in simulations, prompting ETRA to plan lab testing before deployment and demonstration at the Pilot Sites.

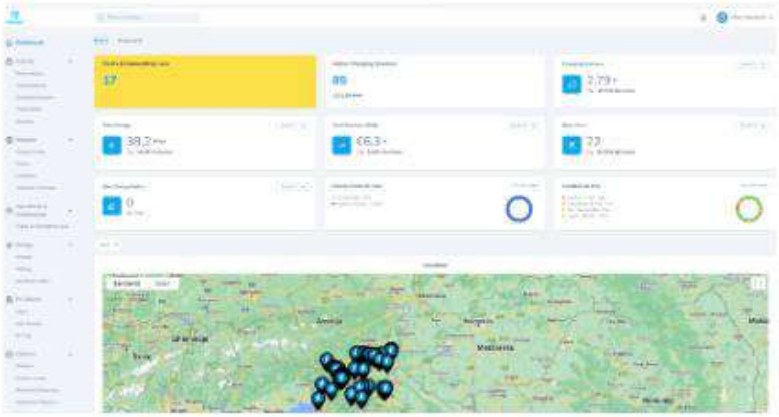
Concerning **technologies for grid operators** (OPENGRID), technical developers, DSOs, and TSOs are collaborating on processing the data provided by grid operators. This preprocessing is essential for developing OPENTUNITY innovations and training certain models. The concerted effort at this stage promises faster and more efficient progress in the coming months.

Lastly, the consortium welcomes a **new partner: QUE Technologies**. Their expertise in data sharing will enable the exploration of advances in Data Spaces and their application in the project.



Integration of EV Charging Stations and HEMS Devices

Over the past six months, Kolektor sETup has been fully immersed in **integrating Avantcar's fleet of EV charging stations and Amibit's HEMS devices fleet with its aggregator platform**. This process began with the seamless integration of a single EV charging station and a single HEMS device to test the monitoring and management capabilities of these individual devices. With the successful validation of this initial integration, Kolektor sETup swiftly progressed to integrate over 70 EV charging stations and more than 50 HEMS devices into its aggregator platform.



Screenshoot of the control panel of Chargers management system.

Real-time consumption data from both fleets is now systematically collected and securely stored within the data bases of Kolektor sETup's aggregator platform. With the completion of the integration phase, they have initiated the data collection period, paving the way for the subsequent development of forecast algorithms tailored to each fleet. These algorithms will serve as the foundation for offering ancillary services, marking a significant step forward in the ongoing efforts to innovate and optimise within the energy sector.

Read more

Cost Minimization through Flexible Demand Optimization

In the pursuit of cost minimisation, OPENTUNITY is at the forefront of revolutionising the energy landscape by **optimising the scheduling of flexible demand for consumers and energy communities**. The focus encompasses crucial elements such as HVACs (heating, ventilation, and airconditioning), domestic hot water (DHW) devices, electric vehicles (EVs), andenergy storage systems.

Our partner Hypertech a key player in this venture is actively developing a **Mixed-Integer Linear Programming (MILP) model to achieve optimal results in flexible demand optimisation**. The essence of this approach lies in the strategic time shifting of loads, leveraging baseline profiles provided for each asset. This strategy proves to be pivotal in achieving **lower customer bills**, especially when coupled with a variable price profile available to consumers.

To demonstrate the tangible benefits of our methodology, let's consider a practical example involving two households equipped with two DHW devices and an HVAC system each. Through our approach, OPENTUNUTY intelligently shift the demand to time intervals when electricity prices arelower. The result? A notable cost reduction of 12.5%, underscoring the efficiency and practicality of OPENTUNITY's steadfast commitment to delivering **cost-effective energy solutions**.

Read more

Strategy for the development of the standardization activities

Following an in-depth analysis of the standardization landscape and socioeconomic backdrop, the OPENTUNITY partners uncovered several European and international technical committees, along with **existing and emerging standards**, that align closely with the objectives of various project work packages.

Recognising this synergy, proactive measures were implemented to engage with the standardization system. These actions aim not only to disseminate project findings effectively but also to actively contribute to ongoing and forthcoming standards initiatives, thereby **fostering collaboration and promoting the project's impact** across diverse domains.

Therefore, partners, led by UNE, have been working ona strategy for the development of the **standardization activities document**, which specifies an action plan for the next tasks involving communication with **technical standardization bodies and contributions to standardization**. At this moment ,the first version of this strategy has been defined, and it will be updated accordingly, as the project progresses.

This strategy has been developed by UNE with feedback from OPENTUNITY partners. Together, they identify possible **standardization gaps** that could be addressed with the results of the OPENTUNITY project. The purpose of this strategy is to provide partners with a clear idea of the next steps and ensure the most effective possible contribution of the project results to new or future standards.

The main objective of the standardization activities in OPENTUNITY is to facilitate the market acceptance of the results by transferring these results and findings to standards that have a wide recognition in the market.

Communication will be established between the OPENTUNITY project, and the key committees identified by the partners, disseminating the project, and obtaining valuable feedback. Additionally, OPENTUNITY will be able to contribute to the activity of these committees and European/international standardization with its results.

Read more

Establishing Flexibility Markets in Various OPENTUNITY Pilot Sites

NODES, OPENTUNITY partner, is an independent market operator based in Norway, dedicated to managing an integrated market place that fosters the exchange and trading of flexibility across all grid levels. By doing so, NODES plays a pivotal role in optimising the utilisation of flexible resources within the grid.

Gesa Milzer, Senior Project Manager at NODES, sheds light on the OPENTUNITY initiative, which focuses on establishing flexibility markets, innovativemarket solutions, and a spectrum of products and services across various pilo tsites in Europe:

- In Spain, collaborating with ANELL (DSO) and Estabanell (FSP).
- In Switzerland, partnering with AEM (DSO) and SUPSI (FSP).
- In Greece, working closely with HEDNO (DSO), IPTO (TSO), HyperTech (Aggregator),and ICCS (FSP).

These pilot-specific solutions are meticulously developed in collaboration with respective partners and subjected to diverse use cases to assess their practicality and necessitate any

technical or operational adjustments. Ultimately, the goal is to transition these developed solutions from the testing phase into widely utilised operational products and services.

Read more

Participated in the General Assembly of BRIDGE

The **BRIDGE General Assembly 2024** convened on April 9th and 10th, embracing a hybrid format with sessions held both in Brussels and streamed online. Among the participants were representatives from the OPENTUNITY project, namely partners Joanneum Research and ETRA, actively participating in the session of the **Working Group on Consumers and Citizens Engagement**.

Throughout the assembly, participants were enriched with insights into the accomplishments of the BRIDGE Working Groups during the 2023-2024 term, delving into the invaluable lessons learned from completed BRIDGE projects and exploring various initiatives shaping the energy landscape. Engaging discussions ensued, examining avenues for enhancing the BRIDGE initiative and addressing cross-Working Group concerns.

Make sure you catch the insights gleaned from our partners by checking out our website.

Read more

How OPENTUNITY Transforms the Electricity Ecosystem | Benefits Explained by Sara Vieira

Watch the video

SEE YOU AT THE EU SUSTAINABLE ENERGY WEEK 2024!

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11 Annex 3 - Event reports

EVENT 1: Kick off Meeting of OPENTUNITY - Synergies and collaboration session with other ongoing EU projects

a) Place (City and Country): Valencia (Spain)

b) Dates: 19/01/2023

c) Type of event: Organisation of workshop.

d) Objective of the event: Special session to present related projects among the consortium partners.

e) Organisers: ETRA

f) Language: English

g) Webpage of the event: NA

h) Number of participants: More than 30.

i) Type of Audience: Partners

j) Partner who participates: All

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

l) Photos:

EVENT 2: "Future-Conference" of Styrian Chamber of Commerce (Wirtschaftskammer Steiermark Zukunftskonferenz)

a) Place (City and Country): Graz (Austria)

b) Dates: 24/03/2023

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

d) Objective of the event: Knowledge Exchange on "Green and Digital Skills", Networking

e) Organisers: Styrian Chamber of Commerce (Wirtschaftskammer Steiermark)

f) Language: German

g) Webpage of the event: https://www.wko.at/stmk/zukunftkonferenz-digital-green-skills-24032023

h) Number of participants: 250 (estimation)

i) Type of Audience (multiple choices are able): Industry, Policy Makers, Investors

j) Partner who participates: JR

k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Stephan Schwarzinger held a talk titled "Skills, Märkte und Innovationen: auf dem Weg zum klimaneutralen Geschäftsmodell" (translated: "Skills, Markets, and Innovations: The path towards a climate neutral business model"). In the talk, he presented OPENTUNITY as an example project in which "Green" and "Digital" skills merge to develop future-proof solutions.

l) Main conclusions (after the event): Flexibility as a concept was new to everyone with whom we personally got in contact.

m) Social media posts (link): https://www.linkedin.com/posts/stephan-schwarzinger-ab8040151_zukunft-konferenz-digital-green-skills-activity-7039520714445471744-vQcI/?utm_source=share&utm_medium=member_desktop

n) Photos:

EVENT 3: European Sustainable Energy Week (EUSEW 2023)

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

b) Dates: 20-22/06/2023

c) Type of event chose one (multiple choices are able): Participation to a Conference, Trade Fair, Participation in activities organised jointly with other EU project(s).

d) Objective of the event: EUSEW is the biggest annual event dedicated to renewables and efficient energy use in Europe.

e) Organisers: European Commission

f) Language: English

g) Webpage of the event: https://energy.ec.europa.eu/events/european-sustainable-energy-week-2023-2023-06-20_en

h) Number of participants: + 1000

i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Civil Society, Policy Makers, Media, Investors, Customers.

j) Partner who participates: ETRA

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

l) Main conclusions (after the event): The OPENTUNITY team had the distinct honor of hosting Kadri Simson, the Commissioner for Energy of the European Commission, at their booth during the European Sustainable Energy Week (EUSEW 2023). This exciting encounter took place within the ETRA's booth, where OPENTUNITY's mission and objectives were showcased.

m) Press release (link): https://opentunityproject.eu/2023/06/22/opentunity-welcomes-european-commissioner-for-energy-at-eusew-2023/

n) Social media posts (link): https://twitter.com/OpentunityEU/status/1671438705591042049

o) Photos:

EVENT 4: IEEE PowerTech 2023

a) Place (City and Country): Belgrade (Serbia)

b) Dates:25-29/06/2023

c) Type of event: Participation to a Conference, participation in activities organised jointly with other EU project(s)

d) Objective of the event: Special session "The future of Power Flexibility" – specifically dedicated to exploring the exciting prospects of flexibility in power grids and established power markets.

e) Organisers: IEEE, IEEE PES, School of Electrical Engineering, University of Belgrade

f) Language: English

g) Webpage of the event: https://powertech2023.com

h) Number of participants: 15 (the specific session)

i) Type of Audience: Scientific Community (Higher Education, Research), Industry, Media

j) Partner who participates: UL

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

l) Social media posts (link): https://www.linkedin.com/posts/laboratory-of-energy-policy-faculty-of-electrical-engineering-university-of-ljubljana_specialsession-flexibility-experts-activity-7079756779399569408-KLPU/?utm_source=share&utm_medium=member_desktop

m) Photos:

EVENT 5: Turn to zero Meetup

a) Place (City and Country): Rankweil (Austria)

b) Dates: 19/10/2023

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

d) Objective of the event: Knowledge Exchange, Networking

e) Organisers: Initiative "turn to zero"

f) Language: German

g) Webpage of the event: https://www.turntozero.com/team-up-2023

h) Number of participants: 100 (estimation)

i) Type of Audience (multiple choices are able): Industry, Civil Society, Policy Makers, Investors

j) Partner who participates: JR

k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Stephan Schwarzinger held a talk titled "Mobilität als Wettbewerbsfaktor auf dem Weg zur Klimaneutralität" (translated: "Mobility as a competition factor on the path to climate neutrality"). In the talk, he referred to OPENTUNITY as a project, in which mobility plays a strong role in terms of using flexibility in the context of EV fleets.

l) Main conclusions (after the event): After the talk, direct exchange with members of the audience led to the impression that the flexibility concept and the role of the EV fleet was well understood.

m) Press release (link): NA

n) Social media posts (link): https://www.linkedin.com/posts/stephan-schwarzinger-ab8040151_joanneumresearch-forschung-steiermark-activity-7122586405536460803-Vzu8/?utm_source=share&utm_medium=member_desktop

EVENT 6: ENLIT 2023

a) Place (City and Country): Paris (France)

b) Dates: 28-30/11/2023

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

d) Objective of the event: Knowledge Exchange, Networking

e) Organisers: Clarion

f) Language: English

g) Webpage of the event: https://www.enlit-europe.com/exhibitor-portal

h) Number of participants: ≥5,000

i) Type of Audience (multiple choices are able): Industry, Policy Makers, Investors, Scientific Community, Media

j) Partner who participates: ETRA, ANELL

k) Type of participation from OPENTUNITY side (Presentation, exhibition area, training, etc.): Participation in the EU Project Zone with a Booth and participation in the "Grid Technologies" session, which focused on the grid infrastructure and technologies crucial for facilitating the energy transition.

l) Main conclusions (after the event): During this session, our project coordinator elucidated that OPENTUNITY is actively developing digital solutions for the grid to support the energy transition. This includes the creation of software platforms designed to assist small Distribution System Operators (DSOs) lacking proper topology data and state estimation, thereby enhancing their functionalities.

m) Press release (link): https://opentunityproject.eu/2023/12/01/enlit-networking-and-christmas-wishes/

n) Social media posts (link): https://x.com/OpentunityEU/status/1729511904710639815

o) Photo:

EVENT 7: Citizen engagement workshop

a) Place (City and Country): Granollers (Spain)

b) Dates: 6/02/2024

c) Type of event chose one (multiple choices are able): Organization of a workshop.

d) Objective of the event: Internal workshop for the pilot sites focused on creating a citizen engagement strategy. The workshop provided best practices, initial communication tips, and key messages.

e) Organisers: ETRA and JR

f) Language: English

g) Webpage of the event: NA

h) Number of participants: 25

i) Type of Audience (multiple choices are able): OPENTUNITY pilot sites

j) Partner who participates: OPENTUNITY partners

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

l) Main conclusions (after the event): With these guidelines, pilot site partners can begin planning the most appropriate activities for their end-users and goals.

EVENT 8: BRIDGE General Assembly

m) Place (City and Country): Brussels (Belgium)

n) Dates: 9-10/04/2024

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

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

q) Organisers: European Commission, PwC

r) Language: English

s) Webpage of the event: https://bridge-smart-grid-storage-systems-digital-projects.ec.europa.eu/events/bridge-general-assembly-2024

t) Number of participants: 75 in-person, around 300 online

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

v) Partner who participates: JOANNEUM RESEARCH, ETRA

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

x) 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.

In terms of the BRIDGE working groups, the group on Consumer and Citizen Engagement will focus on the next year more strongly on Energy communities, on more strongly involving stakeholders other than citizens and consumers (regulators, aggregators, TSOs, DSOs, etc.) and on having a stronger focus on inclusivity of users' engagement.

The working group on data management has created and will expand a use-case repository, will focus on practical tools and on improving the Reference framework and support interoperability of home applications.

The working group on Business models will focus more strongly on knowledge sharing within the working group and contributing to the Common European Dataspace.

The working group on regulations will leverage further on synergies with ETIP SNET/ISGAN, increase synergies between BRIDGE WGs and closer coordinate with ongoing policy initiatives

y) Press release (link):

z) Social media posts (link): https://www.linkedin.com/posts/michael-brenner-fliesser-99b9bb270_bridgeeu-activity-7183717315903983616-rFBk?utm_source=share&utm_medium=member_desktop

Photos:

EVENT 9: Electrical and Computer Engineering Student Conference (ECESCON)

a) Place (City and Country): Xanthi (Greece)

b) Dates: 19-21/04/2024

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

d) 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, to learn about new technological developments and challenges.

e) Organisers: Democritus University of Thrace

f) Language: Greek, English

g) Webpage of the event: https://www.sfhmmy.gr/en/home

h) Number of participants: 300

i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research)

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

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

l) Main conclusions (after the event): The aspects of OPENTUNITY were presented to the students and professors and the potential impact of this project was discussed.

m) Press release (link): https://www.linkedin.com/company/ecescon/posts/?feedView=all

n) Social media posts (link): https://www.linkedin.com/company/ecescon/posts/?feedView=all

o) Photos:

EVENT 10: European Sustainable Energy Week (EUSEW 2023)

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

b) Dates: 11-13/06/2023

c) Type of event chose one (multiple choices are able): Participation to a Conference, Trade Fair, Participation in activities organised jointly with other EU project(s).

d) Objective of the event: EUSEW is the biggest annual event dedicated to renewables and efficient energy use in Europe.

e) Organisers: European Commission

f) Language: English

g) Webpage of the event: https://sustainable-energy-week.ec.europa.eu/index_en

h) Number of participants: + 1000

i) Type of Audience (multiple choices are able): Scientific Community (Higher Education, Research), Industry, Civil Society, Policy Makers, Media, Investors, Customers.

j) Partner who participates: ETRA

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

l) Main conclusions (after the event): ETRA hosted a booth where OPENTUNITY was showcased.

m) Press release (link): NA

n) Social media posts (link): https://x.com/OpentunityEU/status/1798705148715270209

o) Photos:

12 Annex 4 - Press Clipping

Date: April 2024
Source: ENLIT
Location: Europe
Language: English
Title: OPENTUNITY: Opening the electricity ecosystem to multiple actors
Link: https://www.enlit.world/projects-zone/opentunity-opening-the-electricity-ecosystem-to-multiple-actors/

Enlit

Guest Contributor
8 April 2024

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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 consumers can harness the full potential of their energy assets.

(OPENTUNITY ecosystem)

Funded under the Horizon Europe Programme, Spearheaded by ETRA, and backed by a consortium of 21 partners (including ETRA) spanning eight European countries, the OPENTUNITY project is striving to create a more flexible energy ecosystem, removing barriers to interoperability and championing standardized approaches. Its goal is to decarbonise EU grids and place the end-user at the center of the energy transition.

In the context of a global climate crisis and the ambitious targets outlined in the EU Green Deal, the digitalisation of the energy sector is as a key solution for decarbonising the European economy.

The 'Fit for 55 package' and the EU's Energy Digitalisation Roadmap highlight the added value of digital solutions, facilitating the integration of energy systems across various carriers, infrastructures, and consumption sectors.

Innovations to integrate distributed flexibility systems

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 built renewable energy sources.

To achieve these objectives, the project deploys thirteen innovations across three categories:

1. OPENFLEX: This category focuses on software technologies designed to enhance flexibility within prosumer environments. It allows for the flexible delivery and valorization of energy assets within buildings, including stationary storage and electric vehicle chargers. This innovation simplifies user-friendly installation and commissioning of a state-of-the-art Energy Management System (EMS) and enables the sale of flexibility in local flexibility markets. It benefits a wide range of stakeholders, including ESCOs, aggregators, small and medium prosumers, facility managers, EV car-sharing companies, and market operators.

2. OPENGRID: It offers support for software technologies aimed at helping Distribution System Operators (DSOs) and Transmission System Operators (TSOs) to manage grid-related challenges more effectively. It provides powerful grid monitoring and control, offering real-time information on grid status and analysing flexibility requirements to initiate demand response campaigns. This innovation primarily benefits DSOs and TSOs.

OPENFLEX
Technologies to increase flexibility in prosumer environments

OPENGRID
Supporting technologies for DSOs and TSOs to better manage grid issues

OPENABILITY
Procedures for enhancing interoperability

3. OPENABILITY: This category introduces procedures for enhancing interoperability. It provides a set of methodological procedures designed to enhance cooperation between different actors within the energy system. This innovation is beneficial to IT developers, companies, universities, research centers, DSOs and TSOs, OEMs, ESCOs, and small and medium prosumers.

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Date: 15/02/2024
Source: nodesmarket.com
Location: Norway
Language: English
Title: The new European Project Opentunity
Link: https://nodesmarket.com/r&d-projects/opentunity/

Date: November 2023
Source: ENLIT
Location: Europe
Language: English
Title: Video interview "EUSEW Interview: Alvaro Nofuentes about the OPENTUNITY project and digitalization"
Link: https://youtu.be/iOdQUl571KE?si=QnvnKe5WMDlcHeY6

Date: June 2023
Source: ITE
Location: Spain
Language: Spanish
Title: ETRA I+D participará en la Semana Europea de la Energía Sostenible de la CE / ETRA I+D will participate in the European Sustainable Energy Week of the EC
Link: https://www.ite.es/etra-id-participara-en-la-semana-europea-de-la-energia-sostenible-de-la-ce/

ETRA I+D participará en la Semana Europea de la Energía Sostenible de la CE

NOTICIAS ASOCIADOS

ETRA I+D, empresa asociada al Instituto Tecnológico de la Energía (ITE) contará con un stand en la Feria de la Energía de la Semana Europea de la Energía Sostenible (EUSEW 2023) entre el 20 y 22 de junio en Bruselas. ETRA I+D mostrará algunos de sus últimos y más novedosos proyectos sobre energía en el marco de Horizonte 2020 y Horizonte UE. En concreto, presentará algunos de sus proyectos coordinados como TRINITY (H2020), R2D2 (HorizonEU) y Opentunity (HorizonEU).

Estos proyectos tienen como objetivo lograr una transición a un sistema energético confiable, asequible, sostenible y competitivo; a la vez que reducir la dependencia de los combustibles fósiles ante la creciente escasez de recursos, el aumento de las necesidades energéticas y el cambio climático.

En este stand los visitantes podrán conocer de primera mano estos proyectos gracias a la presencia de los expertos de ETRA I+D que trabajan en estos proyectos, materiales informativos en formato físico y digital, videos explicativos y demostraciones de sus innovaciones en directo. Además, durante los tres días de exhibición en el stand de ETRA I+D se agendarán "Coffee talks" donde los expertos de los proyectos, expertos invitados y visitantes podrán debatir sobre transición energética y las innovaciones en las que trabajan.

La Semana Europea de la Energía Sostenible (EUSEW) es el mayor evento dedicado a las energías renovables y el uso eficiente de la energía en Europa y está organizada por la Dirección General de Energía de la Comisión Europea y la Agencia Ejecutiva Europea de Clima, Infraestructura y Medio Ambiente (CINEA).

En 2023, EUSEW tendrá lugar en un formato híbrido, online y presencial en Bruselas del 20 al 22 de junio. El tema del evento es «Acelerar la transición a la energía limpia: hacia facturas más bajas y mayores habilidades».

En Bruselas tendrá lugar tres días de Conferencia con una amplia agenda de sesiones, la Ceremonia Europea de Premios de Energía Sostenible, la Feria de la Energía y el cuarto Día Europeo de la Energía para la Juventud.

Date: 10/02/2023

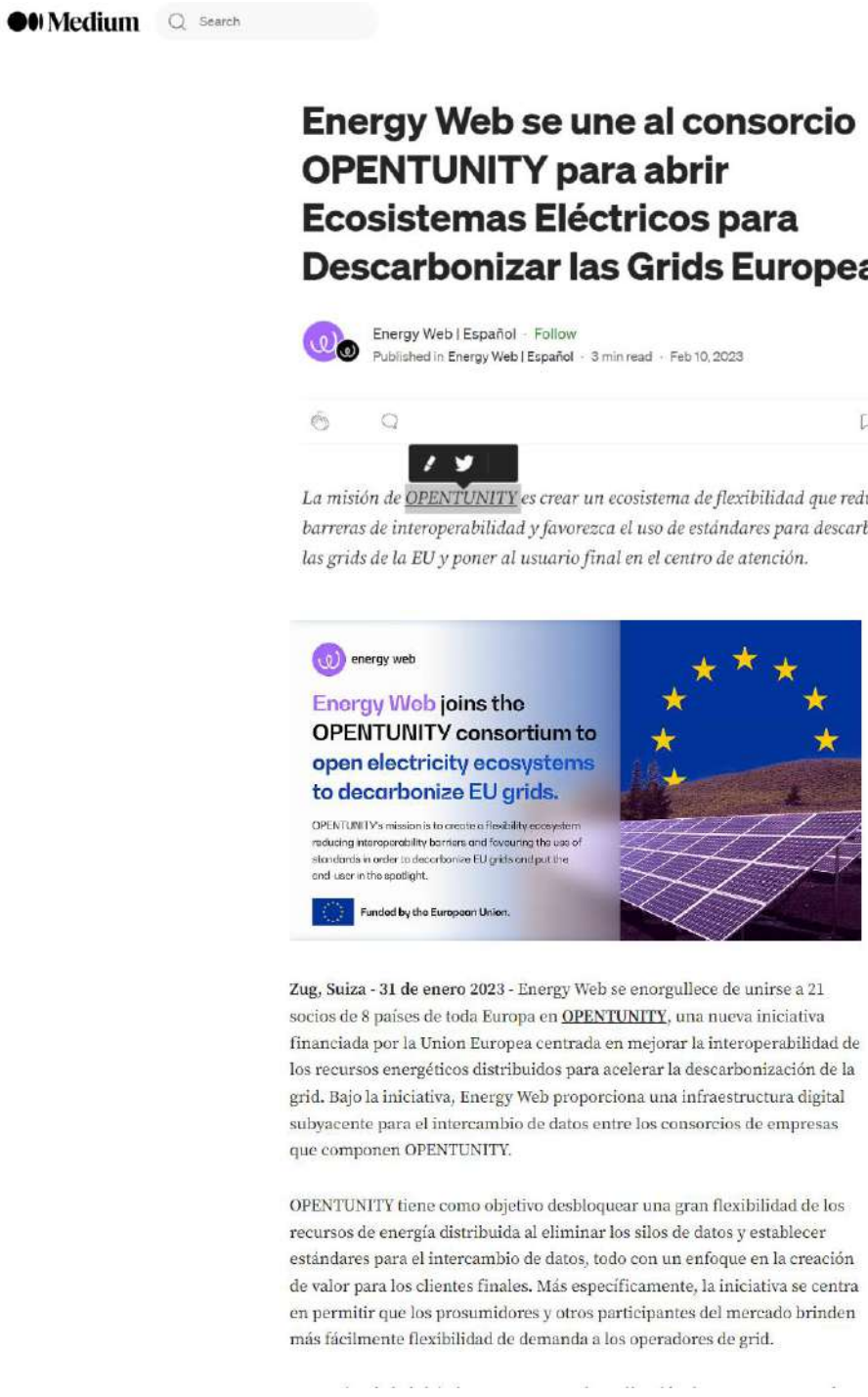
Source: Medium website news

Location: International

Language: Spanish

Title: "Energy Web se une al consorcio OPENTUNITY para abrir Ecosistemas Eléctricos para Descarbonizar las Grids Europeas" / "Energy Web joins the OPENTUNITY consortium to open Electrical Ecosystems to Decarbonize European Grids"

Link: https://medium.com/energyweb-espa%C3%B1ol/energy-web-se-une-al-consorcio-opentunity-para-abrir-ecosistemas-el%C3%A9ctricos-para-descarbonizar-las-e0218faed76e



Medium Search

Energy Web se une al consorcio OPENTUNITY para abrir Ecosistemas Eléctricos para Descarbonizar las Grids Europeas

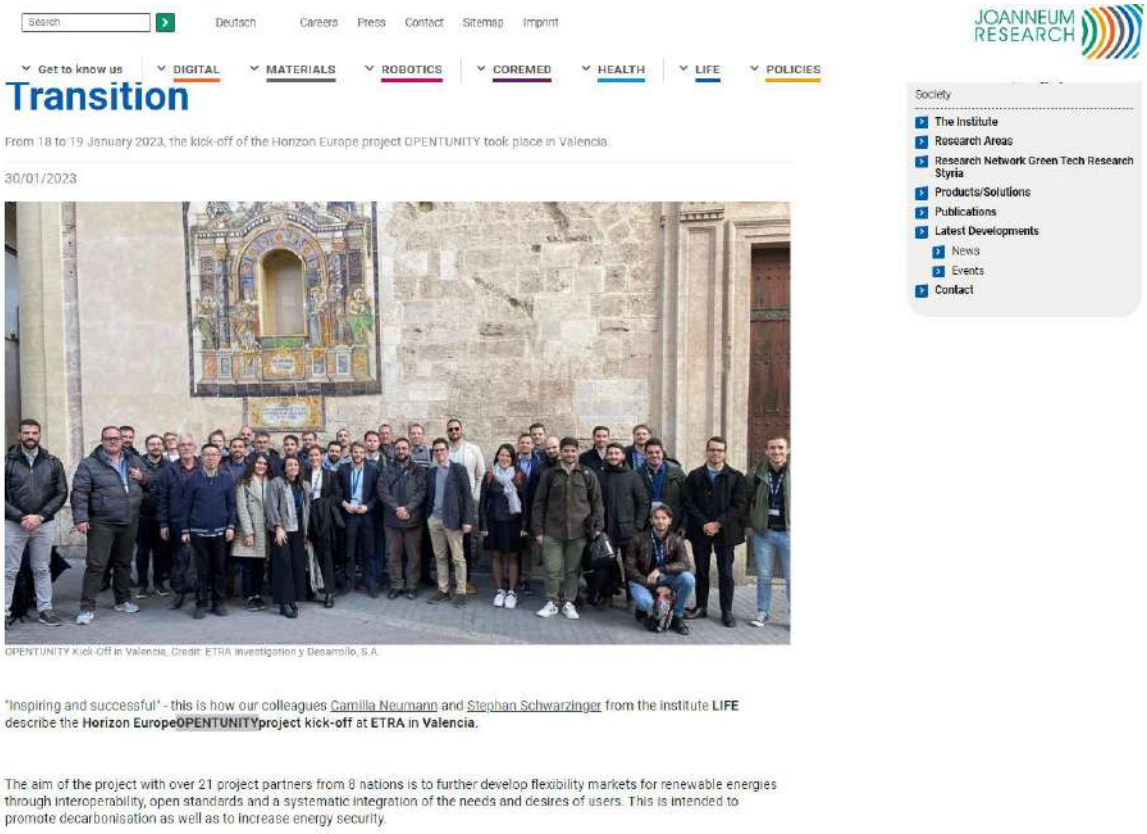
Energy Web | Español · Follow
Published in Energy Web | Español · 3 min read · Feb 10, 2023

La misión de OPENTUNITY es crear un ecosistema de flexibilidad que reduzca las barreras de interoperabilidad y favorezca el uso de estándares para descarbonizar las grids de la EU y poner al usuario final en el centro de atención.

Zug, Suiza - 31 de enero 2023 - Energy Web se enorgullece de unirse a 21 socios de 8 países de toda Europa en OPENTUNITY, una nueva iniciativa financiada por la Union Europea centrada en mejorar la interoperabilidad de los recursos energéticos distribuidos para acelerar la descarbonización de la grid. Bajo la iniciativa, Energy Web proporciona una infraestructura digital subyacente para el intercambio de datos entre los consorcios de empresas que componen OPENTUNITY.

OPENTUNITY tiene como objetivo desbloquear una gran flexibilidad de los recursos de energía distribuida al eliminar los silos de datos y establecer estándares para el intercambio de datos, todo con un enfoque en la creación de valor para los clientes finales. Más específicamente, la iniciativa se centra en permitir que los prosumidores y otros participantes del mercado brinden más fácilmente flexibilidad de demanda a los operadores de grid.

Date: 30/01/2023
Source: Joanneum
Location: Austria
Language: English
Title: "Better Hard- and Software for the Energy Transition"
Link: https://www.joanneum.at/en/life/latest-developments/news/news-detail/better-hard-and-software-for-the-energy-transition



Date: 02/02/2023
Source: Industrial News
Location: United Kingdom
Language: English
Title: "OPENTUNITY launches to enhance DER interoperability"
Link: https://industrialnews.co.uk/opentunity-launches-to-enhance-der-interoperability/

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OPENTUNITY launches to enhance DER interoperability

The OPENTUNITY project has kicked off to create a blockchain-based flexibility ecosystem with reduced interoperability barriers and favouring the use of standards.

OPENTUNITY, with funding from the Horizon Europe programme, is aimed to support grid operators, prosumers and other market players to more easily provide demand flexibility to the grid and thereby accelerate its decarbonisation.

With innovative methodologies backed by advanced, interoperable software modules, the project is focussed on eliminating data silos and establishing standards for data exchange, all with a focus on creating value for end customers

As part of its activities OPENTUNITY will evolve and integrate an energy specialised blockchain as a distributed, fast and reliable energy dataspace for data exchange and service sharing among the participants.

Have you read?
What energy data is of most interest and why?
Monetising flexibility as a fix for grid congestion

OPENTUNITY (OPENing the electricity ecosystem to multiple actors in order to have a real decarbonization opporTUNITY) is coordinated by project coordinators Etra R&D and includes 17 participants and three partners from eight countries in the project consortium.

The project will include 13 demonstrations using a common underlying digital infrastructure to test hypotheses and prove value for different technology and business use cases with a common theme, i.e. that distributed energy resources, properly integrated with the grid, can create value for both end customers and energy market participants.

These demonstrations will be conducted in four different countries, Greece, Slovenia, Spain and Switzerland.

They are expected to benefit some 27,000 citizens with initial estimates forecasting the potential for innovations that are unlocked to reduce energy bills by 30% for end customers and greenhouse gas emissions by 91.2MtCO2e, primarily by making distributed energy resources a core part of grid planning and operations.

Other participants include the energy companies HEDNO and the Independent Power Transmission Operator from Greece, Elektro Primorska and Elektro Ljubljana from Slovenia, Estabanell from Spain and Azienda Elettrica di Massagno from Switzerland.

Energy Web is providing the underlying digital infrastructure for data exchange and NODES' market platform will be connected to test the feasibility and interoperability of the ecosystem setup and the potential of a flexibility market in the different test sites.

Date: 02/02/2023
Source: Smart Energy International
Location: The Netherlands
Language: English
Title: "OPENTUNITY launches to enhance DER interoperability"
Link: https://www.smart-energy.com/regional-news/europe-uk/opentunity-launches-to-enhance-der-interoperability/

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OPENTUNITY launches to enhance DER interoperability

Jonathan Spencer Jones • Feb 02, 2023

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Image: Laboratory of Energy Policy

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Energy Web is providing the underlying digital infrastructure for data exchange and NODES' market platform will be connected to test the feasibility and interoperability of the ecosystem setup and the potential of a flexibility market in the different test sites.

The project runs to the end of 2026 with a budget of €10.8 million (US$11.8 million), of which the EU contribution is €8.5 million.

For the latest updates on EU Projects, visit the EU Projects Zone

Date: 30/01/2023
Source: Laboratory of Energy Policy
Location: Slovenia
Language: English
Title: "The new OPENTUNITY project will open electricity ecosystems towards a real EU decarbonization"
Link: https://lest.fe.uni-lj.si/news/the-new-opentunity-project-will-open-electricity-ecosystems-towards-a-real-eu-decarbonization/

Date: 16/01/2023
Source: Reduxi.eu
Location: Slovenia
Language: English
Title: "The new OPENTUNITY project will open electricity ecosystems towards a real EU decarbonization"
Link: https://www.reduxi.eu/news/25/57/The-new-Opentunity-project-will-open-electricity-ecosystems-towards-a-real-EU-decarbonization/

13 Annex 5 - List of BRIDGE meetings attended

Event/Meeting attended	WG related	Date	Venue	OPENTUNITY Partners
Action-3 of the BRIDGE Regulation WG	REG	01/2023	Online	EL
2nd Knowledge Sharing session of the BRIDGE Regulation WG, on Friday, January 27th,	REG	23/01/2023	Online	EL
Action #5 (Interoperability of home appliances) survey	DM	24/01/2023	Online	EL
GA Bridge 2023	ALL	mar-23	Online	EL
BRIDGE CCE WG 2023	CCE	may-23	Online	EL
BRIDGE SG Smart Tools	Data Management	jun-23	Online	EL
Kick-off meeting of the sub-group for the 2023-2024	BRIDGE SG Strategies of Engagement	14/07/2023	Online	EL
Smart Tools Subgroup of the BRIDGE CCE WG	WG CCE	18/07/2023	Online	EL
BRIDGE DMWG Action #3 – Reference framework	Data Management	14/09/2023	Online	HEDNO
Business Models Working Group Meeting	Business Models	28/09/2023	Online	ETRA
Business Models Working Group Meeting	Business Models	23/10/2023	Online	ETRA
BRIDGE joint discussion on the Data Space topic	Data Management	01/11/2023	Online	EL
Preparation for NEW "Failure workshop" – typical problems in engagement	WG CCE	21/11/2023	Online	EL
BRIDGE Data Management Working Group Action #5	Data Management	24/11/2023	Online	HYP
BRIDGE Smart Tools SG	BRIDGE Smart Tools SG	dic-23	Online	EL
BRIDGE Data Management WG meeting	Data Management	18/01/2024	Online	HEDNO

BRIDGE Data Management WG meeting	Data Management	18/01/2024	Online	HYP
BRIDGE General Assembly	ALL	10/04/2024	Brussels (Belgium) and online	JR, UL, ETRA, HYP, HEDNO, EL

Table 30 – List of meetings attended in BRIGDE (M1-M18).

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