

D4.3 Final report on dissemination and communication

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About the document

This deliverable provides a comprehensive overview of dissemination and communication activities that were organized in the course of the POWERBASE project, and describes how the project employed its communication and dissemination strategy to reach out to various stakeholders.

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PU	Public, fully open. e.g., website	X
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CL	Classified information under the Commission Decision No2015/444	

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POWERBASE

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R: document, report (excluding periodic and final reports).

DEM: demonstrator, pilot, prototype, plan designs.

DEC: websites, patent filings, press and media actions, videos, etc.

OTHER: software, technical diagrams, etc.

Table of contents

Executive summary	6
1. POWERBASE dissemination and communication strategy	7
2. Overview of POWERBASE Communication activities	8
2.1. Generation of a POWERBASE brand identity	8
2.2. POWERBASE website	9
2.3. Social media.....	11
2.3.1. LinkedIn.....	11
2.3.2. YouTube.....	13
2.4. Project videos.....	13
2.5. Communication materials.....	15
3. Overview of POWERBASE Dissemination activities	16
3.1. POWERBASE workshops	17
3.2. Open Market Consultation	22
3.3. Technology showcases	26
3.4. Project webinars.....	28
3.5. Policy recommendation paper	29
3.6. Magazine articles.....	30
3.7. Scientific publications	33
3.8. Press releases.....	34
3.9. POWERBASE attendance at conferences and events	35
3.10. Participation in NATO exercise	43
3.11. Cooperation and communication with other projects	43
3.12. National and international security networks and activities	45
3.12.1. Leverage on Crisis Management Innovation Network (CMINE)	45
3.12.2. Collaboration with CERIS	45
3.12.3. Collaboration with IFAFRI.....	45
3.12.4. Collaboration with DIREKTION.....	45
3.12.5. Interactions with Integrated Disaster Risk Management (IDRiM)	45
3.12.6. Dialogue with International Association of Fire and Rescue Service (CTIF)	45
3.12.7. Interactions with other networks	46
3.13. Engagement with members of the Policy Advisory Board and external experts	47
3.14. Open Access Policy.....	47
4. Evaluation of Key Performance Indicators (KPIs)	48
5. Conclusion	50
Annex I: Press release POWERBASE project start	51

List of figures

Figure 1: POWERBASE logo and icon	8
Figure 2: The POWERBASE visual identity was used in communication materials and social media posts	8
Figure 3: Visitors of POWERBASE project website (users per month)	9
Figure 4: POWERBASE website was launched on 28 November 2024	10
Figure 5: The communication campaign surrounding the project’s kick-off meeting	12
Figure 6: POWERBASE LinkedIn post impressions over the project lifetime.	13
Figure 7: Stills from different POWERBASE project videos	14
Figure 8: The POWERBASE OMC event was recorded, broadcasted and shared on YouTube and the project website	14
Figure 9: Project flyer design	15
Figure 10: Design of POWERBASE project poster and roll-up	16
Figure 11: Workshop 1 was organised during the project’s kick-off meeting.	18
Figure 12: Deliverable D2.1 was published on the project website and on social media ..	18
Figure 13: LinkedIn post covering Workshop 2.	19
Figure 14: D2.2 was published on the project website and on LinkedIn, where it obtained more than 300 views	19
Figure 15: An extensive communication and dissemination campaign for the national needs assessment workshops was launched	20
Figure 16: The needs validation and prioritisation workshop was covered on the project website and on LinkedIn.	21
Figure 17: Impressions from the POWERBASE OMC event in Brussels, Belgium	22
Figure 18: POWERBASE attended EUSEW in Brussels, Belgium	23
Figure 19: POWERBASE regularly promoted the OMC event	24
Figure 20: POWERBASE posted about the POWERBASE OMC event	24
Figure 21: The POWERBASE OMC workshop was covered in 8 social media posts	25
Figure 22: Communication campaign related to technology showcase 1	26
Figure 23: Social media coverage of Technology Showcase 1 during CERIS event	27
Figure 24: Social media coverage of IFAFRI-POWERBASE online technology showcase	27
Figure 25: Procurement training during needs assessment workshop	28
Figure 26: Procurement training during WS4 in Berlin and during the OMC event	29
Figure 27: Lessons learned webinar on 28 August 2025	29
Figure 28: The policy brief on responder technology was a collaborative effort	30
Figure 29: POWERBASE published in THW journal BY 1/2025	31
Figure 30: POWERBASE contributed to the March edition of the Rotkreuzler	31
Figure 31: An article about POWERBASE appeared in "Crisis Prevention"	32
Figure 32: The NOI Vigili del Fuoco magazine is printed in 55.000 copies in Italy	32
Figure 33: OptiBase is an optimisation tool for assessment of potential CO2 emission reductions by implementing renewable energy solutions in Bases of Operation	33
Figure 34: POWERBASE partners inform about project start on social media	34
Figure 35: POWERBASE researchers participated in the NATO exercise	43
Figure 36: POWERBASE project presented during a DIREKTION consortium meeting	44
Figure 37: POWERBASE flyers are available at SYNERGISE stand at SRE2025 in Warsaw ..	44
Figure 38: POWERBASE posted events and activities on CMINE platform	46
Figure 39: Summary of outreach to stakeholders	49

List of tables

Table 1: Overview of conferences and events where POWERBASE was represented	35
Table 2: KPIs for communication and dissemination	48

Abbreviations

BEPA	Batteries European Partnership Association
CAP	Common Alerting Protocol
CBRN	Chemical, Biological, Radiological or Nuclear Threats
CERIS	Community for European Research and Innovation for Security
CIC	Community Interest Company
CMINE	Crisis Management Innovation Network Europe
CTIF	International Association of Fire and Rescue Service
DPO	Data Protection Officers
DoA	Description of Action
EADRCC	Euro-Atlantic Disaster Response Coordination Centre
EIC	European Innovation Council
ERO	Emergency Response Organisation
EUSEW	European Sustainable Energy Week
ICLEI	Local Governments for Sustainability
IDRiM	Integrated Disaster Risk Management
IFAFRI	International Forum to Advance First Responder Innovation
IP	Intellectual Property
NATO	North Atlantic Treaty Organisation
DIANA	Defence Innovation Accelerator for the North Atlantic
NCP	National Contact Point
NOAA	U.S. National Oceanic and Atmospheric Administration
OMC	Open Market Consultation
PAB	Policy Advisory Board
PCP	Pre-Commercial Procurement
PPI	Public Procurement of Innovative Solutions
SIS	Fire and Rescue Services France
SRE	Security Research Event
TISA	Traveller Information Services Association
UCPM	EU Civil Protection Mechanism
USAID	United States Agency for International Development

Executive summary

This report provides an overview of all dissemination and communication activities of the POWERBASE project, and how these activities contributed to building a stakeholder community, generate visibility and awareness of the project among key stakeholders: emergency responders across Europe and beyond, and developers and suppliers of mobile, renewable energy solutions.

1. POWERBASE dissemination and communication strategy

The POWERBASE dissemination and communication strategy is described in D4.1 (Dissemination and Communication plan). Key elements of this strategy are:

- **Tailored stakeholder engagement activities**

As part of the dissemination and communication plan, POWERBASE has conducted an extensive analysis of stakeholders (e.g. emergency responders, suppliers of renewable energy, practitioners and civil security networks, and policy makers, and the civil society), and their contributions and interests to the POWERBASE project. This analysis formed the basis for tailoring the project's dissemination and communication activities to the information needs of different stakeholders and ensure a broad visibility of the project. To enhance the project's visibility, POWERBASE defined a clear and distinctive brand identity, including logo, website and flyers. To effectively communicate with stakeholder groups, the project defined key messages tailored to different stakeholder groups (D4.1). The stakeholder analysis provided the basis for strategic collaboration of POWERBASE with emergency response practitioners and civil security networks, and other end users, and laid the foundation for the future exploitation of POWERBASE results, with special emphasis on the use in future innovation procurement processes beyond project duration.

- **POWERBASE Hub and Spoke concept**

To collect input from emergency responders within the project and their extended networks, POWERBASE employed the Hub and Spoke concept through which emergency response organisations within POWERBASE actively communicated with local emergency response organisations. For instance, through the organisation of national workshops in 9 European countries, input on functional and operational requirements for bases of operations and emergency shelters was collected from more than 58 emergency response organisations and other end users (D2.2). These networks were also employed to validate the identified needs for D2.3.

- **Integrated strategy for managing digital crises**

POWERBASE developed a strategy to anticipate and prepare for situations in which project communications are misunderstood (annex to D4.1), or false or misleading information about the project is shared. These situations can lead to digital crises and need proactive management. The project analysed how key communication messages (defined in D4.1) could potentially be misunderstood and developed a mitigation strategy. This strategy was actively employed when preparing communications e.g. on social media to make sure that the potential for misunderstanding project messages is as low as possible. The project set up google alerts to be alerted of potential crises, allowing the project to respond quickly according to the defined crisis management workflow.

2. Overview of POWERBASE Communication activities

The purpose of POWERBASE communication activities was to (i) raise awareness about the POWERBASE project and (ii) to share information that is of interest to a wide range of stakeholders. For this purpose, POWERBASE has developed a comprehensive set of communication activities and tools, which are described in the following sections.

2.1. Generation of a POWERBASE brand identity

The visual identity was professionally developed and officially released on 12 October 2024. The POWERBASE logo and icon (Figure 1) served as key elements of the project’s branding. They distinguished the project within the European civil protection and energy innovation landscape and visually reinforced its objectives and values.



Figure 1: POWERBASE logo and icon

The logo and visual identity was used in external project communications, on the website and social media (Figure 2).



Figure 2: The POWERBASE visual identity was used in communication materials and social media posts

2.2. POWERBASE website

A central pillar of the POWERBASE communication strategy was the project’s public website, available at <https://www.powerbaseproject.eu> (Figure 4). Officially launched on 28 November 2024, this marked the project’s first milestone and laid the foundation for broader outreach and stakeholder engagement.

Subsections on the website include the following:

- About. This page links to the project’s Aim and Objectives, the Work Plan, the Consortium (information about all partners) and the project’s timeline.
- Procurement. This page explains the innovation procurement concept, as well as Pre-Commercial Procurement (PCP) and Public Procurement of Innovative Solutions (PPI)
- OMC. This page explains how POWERBASE implements the Open Market Consultation (OMC), providing links to important documents (e.g. Prior Information Notice), OMC Scope document and a Q&A document. It also links to registration forms for the POWERBASE OMC event and technology showcases.
- Community. This page explains how different stakeholder groups (e.g. suppliers, emergency responders and Research and Technology Organisations) can engage with the POWERBASE consortium.
- Resources. This page provides a comprehensive repository of all public project documents, like deliverables, press releases, OMC documentation, policy briefs, publications, communication materials and project videos.
- News & Events. This page provides an overview of project news. Since project start, more than 30 news articles were added.

The website attracted almost 15.000 visitors, especially in the months leading up to the POWERBASE OMC event, and towards the end of the project (Figure 3).

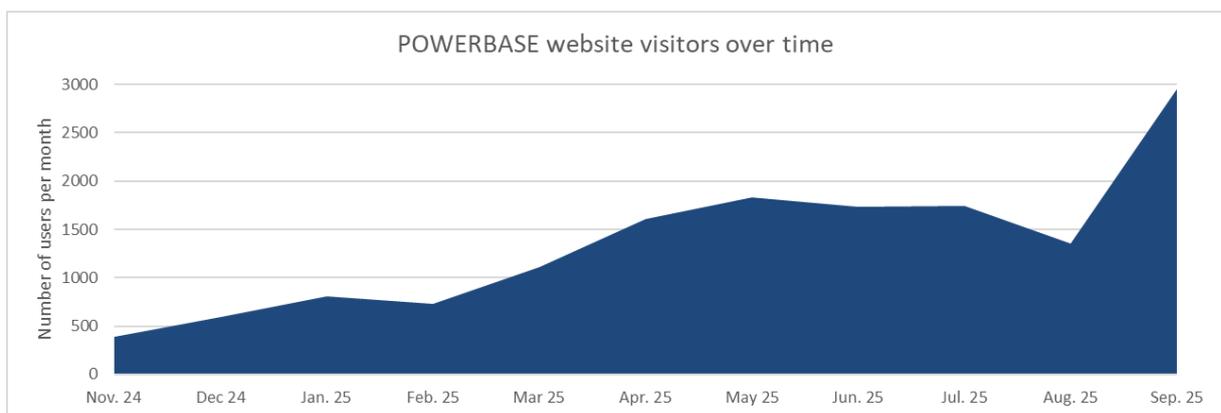


Figure 3: Visitors of POWERBASE project website (users per month) during project lifetime (Source: server data)

Visitors of the website often entered through the project’s home page, or via the OMC procedure subpage. Visitors opened on average 2.4 pages before leaving.

Importantly, the website will remain accessible for up to three years after project completion, ensuring continuity and facilitating access to results during the preparation of follow-up procurement actions.

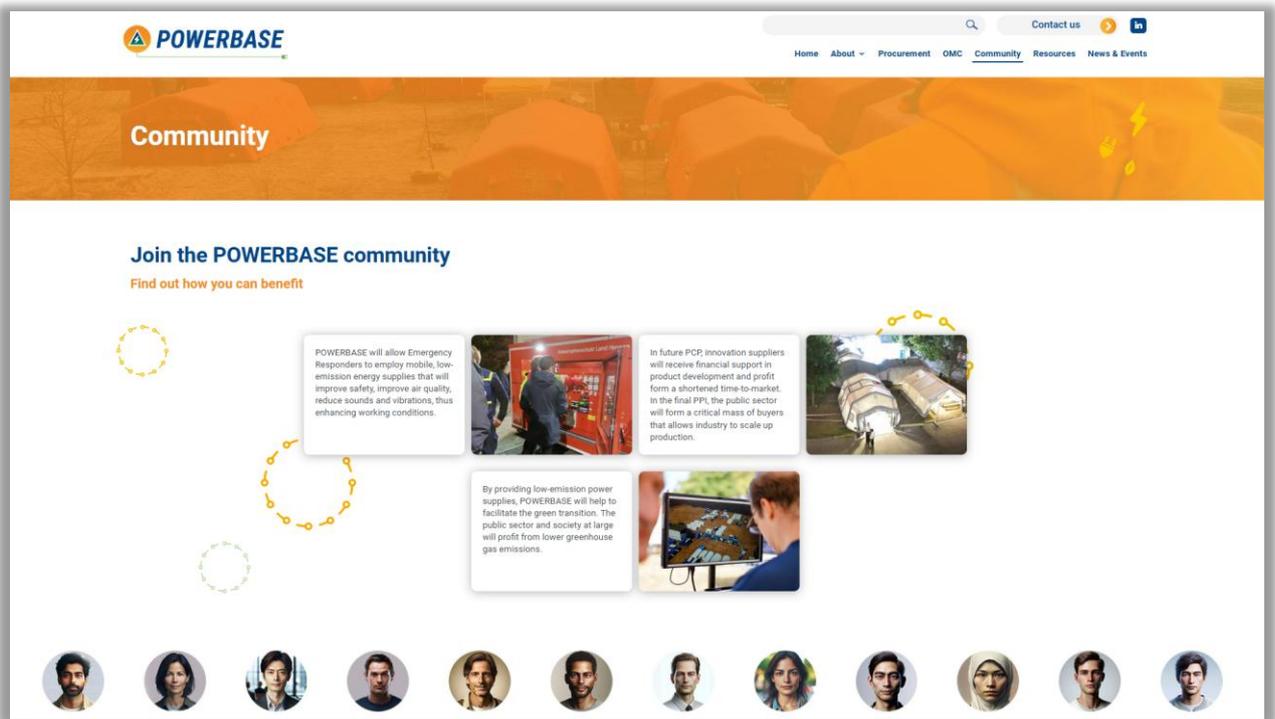
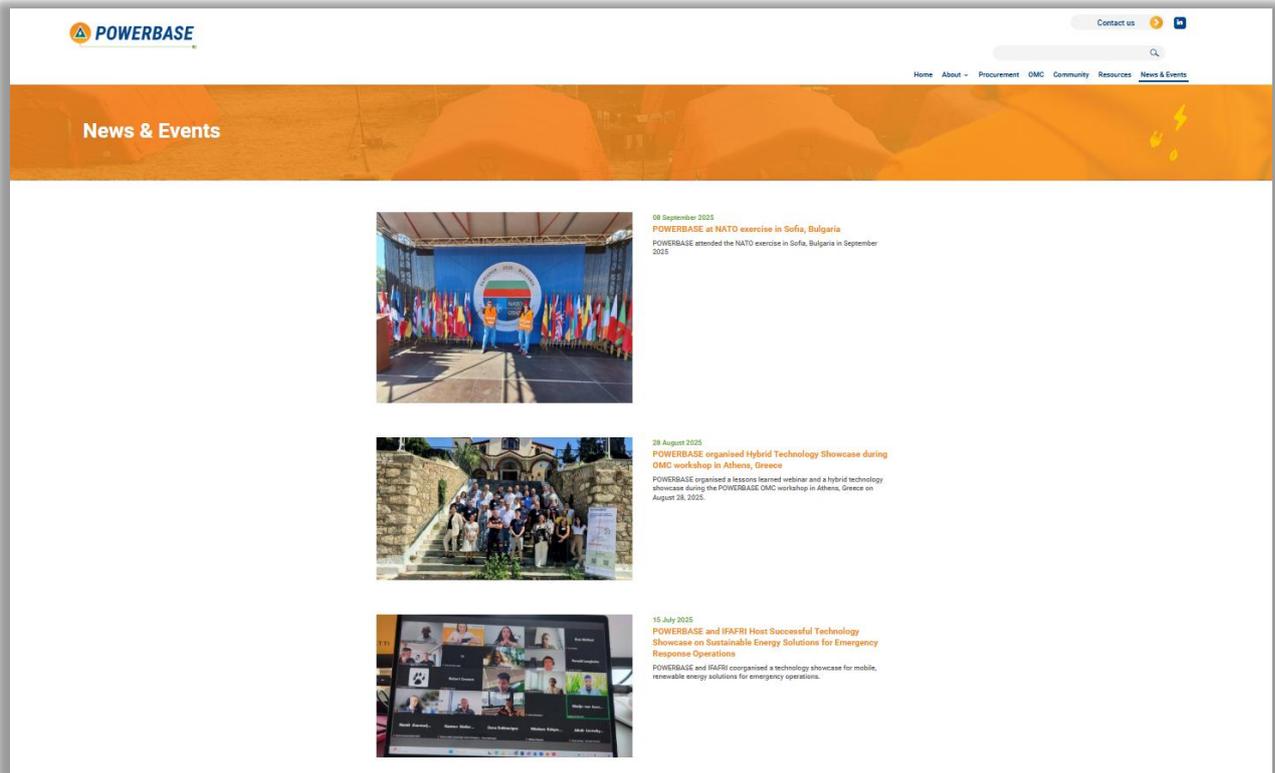


Figure 4: POWERBASE website was launched on 28 November 2024

2.3. Social media

Throughout the project duration, the POWERBASE project actively leveraged social media as a key communication channel to reach diverse target audiences and ensure visibility.

LinkedIn was used as the primary social media channel, and posts appeared on this channel at least once a week, or more frequently in case of events. While the former ensured consistent and structured dissemination, the latter allowed the project to respond flexibly to emerging opportunities within the civil security research landscape. This approach significantly contributed to increasing awareness and engagement with POWERBASE.

This coordinated communication strategy helped establish a strong online presence for POWERBASE and facilitated ongoing interaction with key stakeholders throughout the project duration.

2.3.1. LinkedIn

A dedicated LinkedIn account for the project was established on the first project day. Throughout the project lifetime, this channel was actively used to disseminate project information, announce upcoming events, promote publications, and share relevant news updates. POWERBASE maintained a regular posting rhythm, with at least one post per week, aligning with the communication strategy outlined in the original plan.

Overview of topics for LinkedIn posts:

- **Project dissemination:** Social media was used to share updates on project results, events, and published outputs.
- **Needs assessment workshops:** To raise awareness among emergency responders and enhance visibility of the project, we created posts about the projects' goals, the needs assessment workshops to increase followers among emergency responders, which was used to encourage stakeholders to complete the online Needs Validation Questionnaire.
- **OMC promotion and follow-up:** The OMC event was announced and later summarised via social media, including links to recordings and key outcomes.
- **Technology showcases.** Similarly, the opportunity to showcase technologies was advertised on social media, and a link to the website's registration form was provided.
- **Project awareness:** The aims and objectives of POWERBASE were regularly communicated through dedicated posts.
- **Synergies:** Links to related projects and initiatives in the field of civil security were shared to promote knowledge exchange and collaboration.

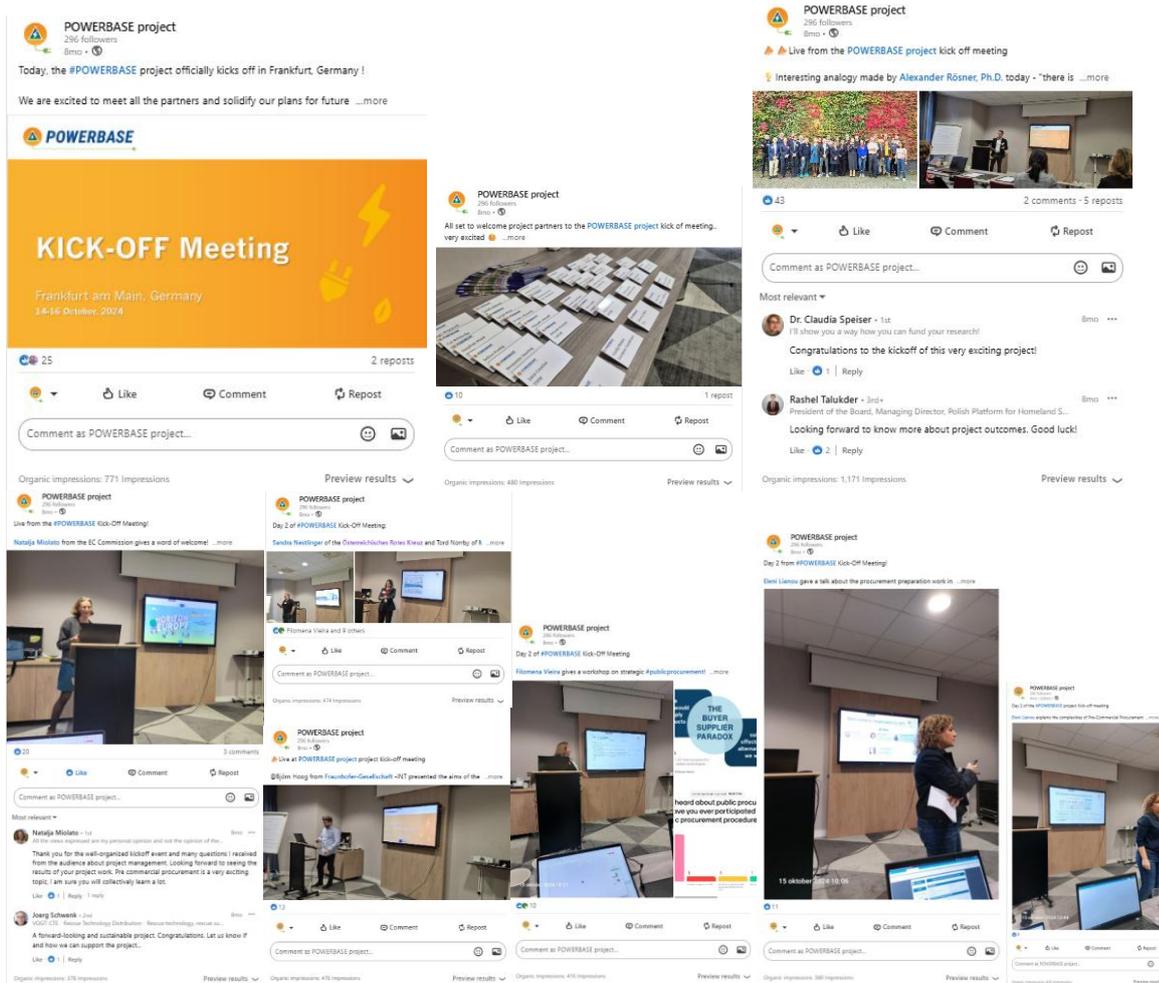


Figure 5: The communication campaign surrounding the project’s kick-off meeting generated 3.000 views and likes and comments from emergency responders, suppliers of renewable energy technologies and other stakeholders

The LinkedIn account allowed POWERBASE to connect with a wide range of stakeholders—including emergency responders, technology suppliers, developers, public procurers, and policymakers. The platform also provided effective outreach to academic and scientific audiences, fostering engagement across both practitioner and research communities.

In the first month, we launched an active communication campaign including coverage of the Kick-Off meeting (Figure 5) that attracted over 100 follower and >8.000 impressions. Since then, the project has consistently attracted over 1000 impressions per month. The number of impressions peaked during posts about POWERBASE project events (national workshops in January, POWERBASE WS3 in March, POWERBASE OMC event in June). By the end of the reporting period, the POWERBASE LinkedIn account had attracted 334 followers outnumbering the initial target of 300. A total of 103 posts were published, which collectively achieved:

- 1.964 reactions
- 50.537 impressions

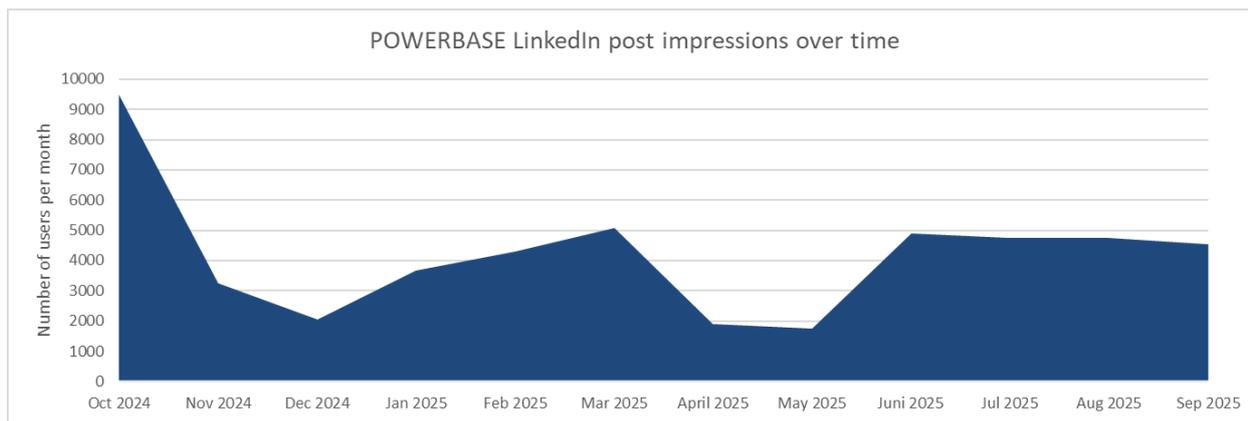


Figure 6: POWERBASE LinkedIn post impressions over the project lifetime. LinkedIn post impressions refer to the number of times a post is shown on someone’s screen. (Source: LinkedIn analytics)

2.3.2. YouTube

To enhance the project’s digital outreach, a dedicated YouTube channel was launched. This channel hosted a variety of audiovisual materials, including project introduction videos, recordings of workshops, and coverage of the OMC event.

2.4. Project videos

Videos are particularly effective in conveying the project’s goals, identified needs, relevant use-case scenarios, and insights into state-of-the-art technologies.

The POWERBASE YouTube channel served as a central platform to host audiovisual content, including recordings of public events (Figure 7).

- Two introductory videos were produced to (i) introduce the concept of the project and (ii) present the POWERBASE objectives to external audiences (see Figure 9). These videos were made available on both the project website and the YouTube channel. The introduction video obtained over 200 views, whereas the video with objectives obtained almost 500 views on LinkedIn/YouTube.
- In addition, project partners were encouraged to record videos during key moments such as the Emergency Response Organisation (ERO) engagement workshops and needs validation sessions. CNVVF recorded one such video, and this video is also uploaded on the project website and YouTube channel. The video received more than 100 views on LinkedIn/YouTube.
- Further, videos were recorded during the GA meeting and WS4 in Berlin to give an impression of the work that is been done in POWERBASE. These videos helped to document project progress and generate visibility. Both videos obtained more than 200 views on LinkedIn/YouTube.
- The OMC event in Brussels was broadcasted via Zoom, recorded and afterwards shared on the YouTube channel and the project website. The video obtained over 400 impressions on LinkedIn/YouTube.
- A final project video captures the achievements and highlights of the POWERBASE project, which was posted on social media to accompany the end of project.

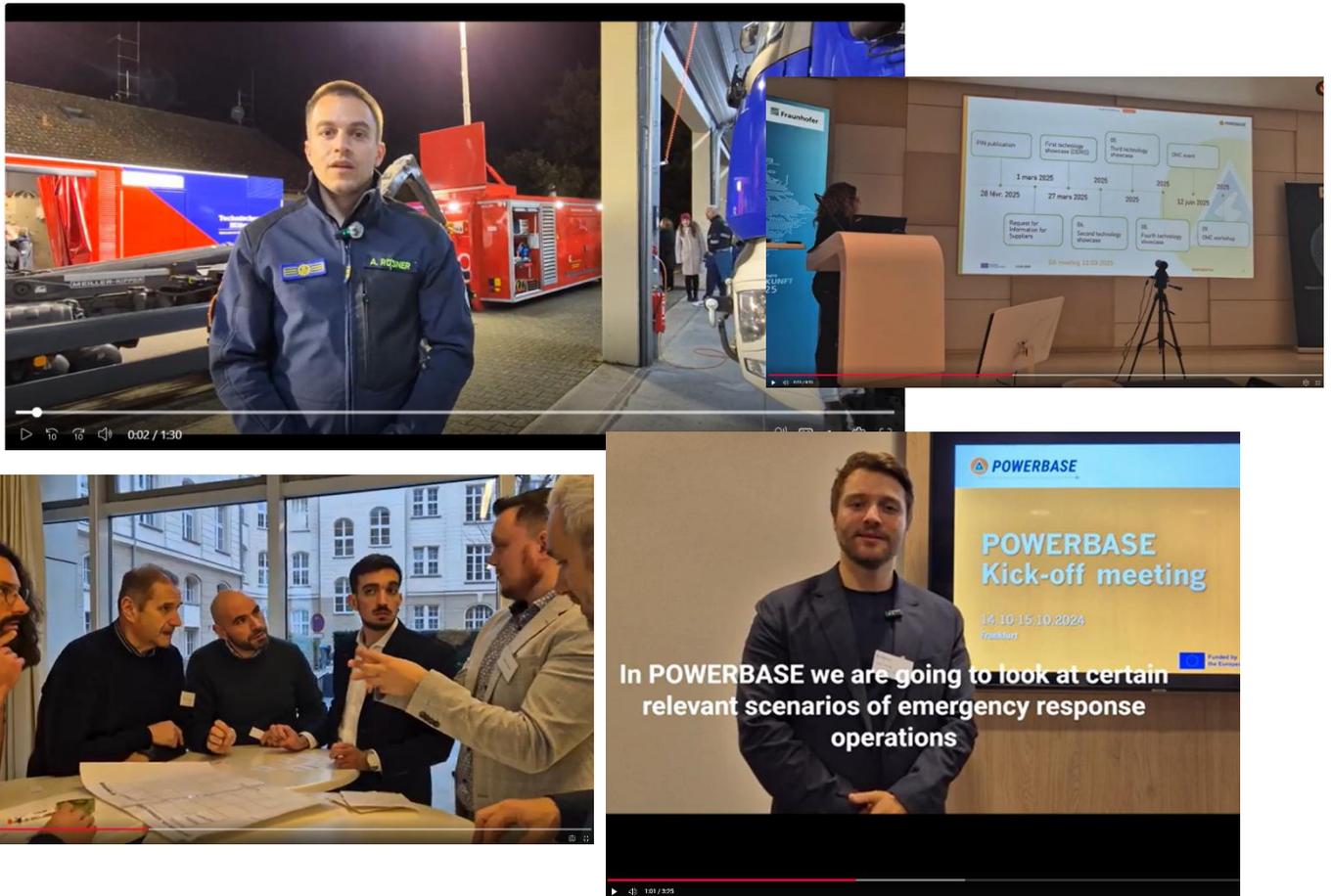


Figure 7: Stills from different POWERBASE project videos

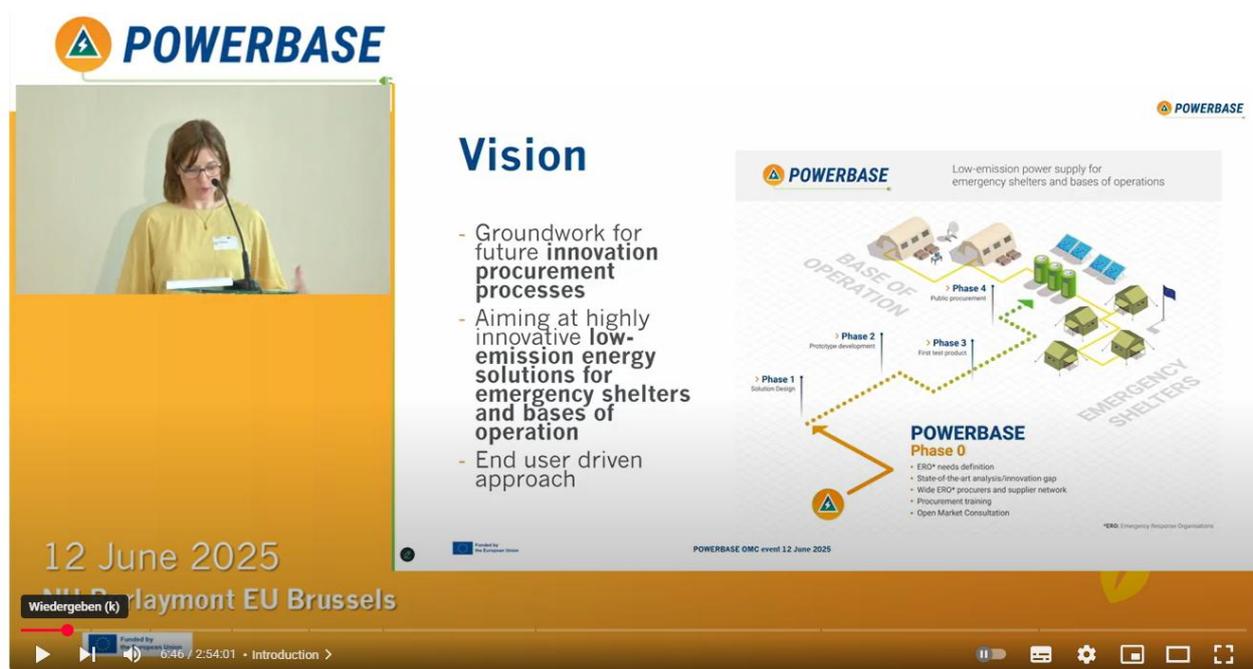


Figure 8: The POWERBASE OMC event was recorded, broadcasted and shared on YouTube and the project website



Figure 10: Design of POWERBASE project poster and roll-up

3. Overview of POWERBASE Dissemination activities

To lay the groundwork for future procurement of low-emission energy solutions, the POWERBASE project assessed the operational needs of emergency response organisations under a variety of conditions and analysed the current state of relevant technologies. Dissemination activities were designed to support this process by fostering cross-sector exchange between emergency response organisations and technology providers—creating a foundation for future procurement processes.

A comprehensive dissemination and stakeholder engagement strategy was implemented (as outlined in Chapter 2 of D4.1 Dissemination and Communication plan), including the organisation of targeted events such as needs assessment workshops, four technology showcases, an OMC event and workshop, and a lessons learned webinar. In parallel, the project focused on capacity-building within emergency response organisations by offering training formats tailored to their needs.

The insights gathered through these activities were further disseminated via:

- Participation in civil Security Research Event (SRE), Community for European Research and Innovation for Security (CERIS) workshops, policy events, industry fairs
- Publications in sector-specific magazines
- A policy recommendation paper addressing emergency responder needs

In the early phase of the project, efforts focused on the development of project branding and communication tools and on initiating first contacts with key stakeholder groups.

As the project progressed, results were actively shared through online channels (website, LinkedIn, YouTube) and at relevant conferences, industry exhibitions, and policy forums. The hub-and-spoke approach was applied to maximise outreach, enabling partners to act as multipliers within their respective networks. Emergency responder networks such as Crisis Management Innovation Network Europe (CMINE), CERIS, and International Forum to Advance First Responder Innovation (IFAFRI) were employed, while technology providers were reached through participation in renewable energy and innovation fairs.

In the final phase of POWERBASE, communication and dissemination activities were closely aligned with the project's exploitation objectives, e.g. preparing for a follow-up PCP action, ensuring they reached relevant decision-makers and potential procurers of innovation. In this way, the project created a solid foundation for ongoing impact and uptake of its results in future acquisition processes.

3.1. POWERBASE workshops

The POWERBASE project organised a series of workshops to assess the operational and functional needs of emergency response organisations and other end users for mobile, renewable energy solutions for bases of operations and emergency shelters. To ensure broad participation, the consortium leveraged the extensive networks of the project partners as part of the Hubs and Spoke concept.

Workshop 1: Scenario definition

In the first workshop, the project's emergency response organisations defined the boundary conditions for three "master scenarios." These were based on previous mission experiences and their relevance to future civil protection and emergency challenges. The workshop facilitated



22 participants representing 10 EROs



1.400 views on LinkedIn



Deliverable viewed >850 times

a discussion on operational challenges and functional requirements, accounting for the diversity of equipment used by different organisations. Details about the workshop were shared on the project website and social media, and the two posts were viewed over **1.400 times**, increasing visibility among emergency responders across Europe.

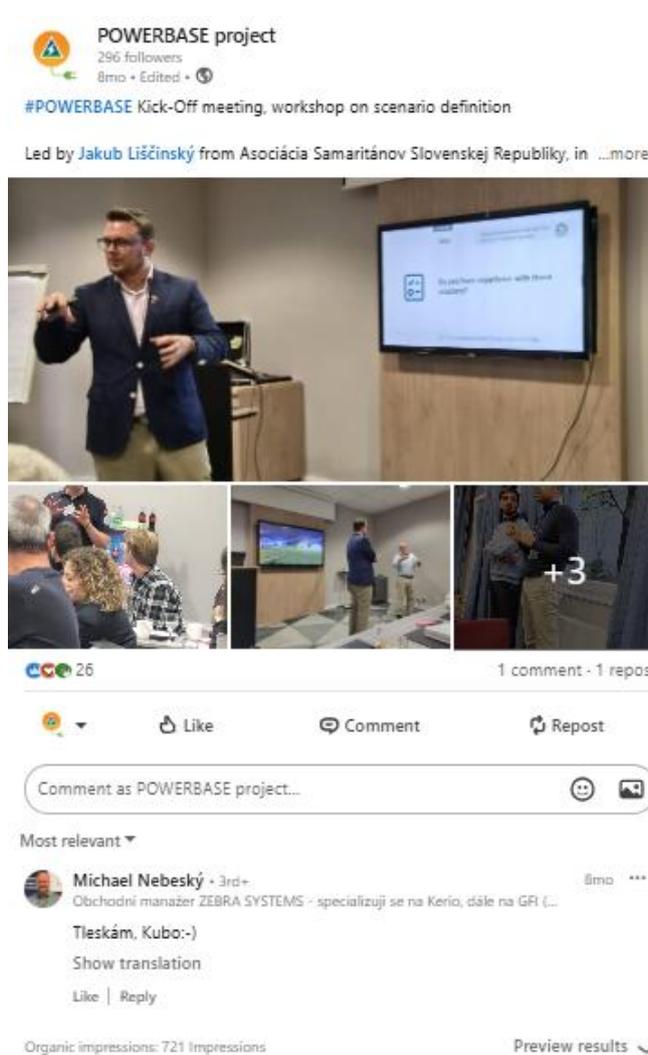


Figure 11: Workshop 1 was organised during the project’s kick-off meeting. The social media posts helped to generate awareness among emergency response organisations.

Outcomes from this session guided the structure and focus of subsequent workshops, and formed the basis for deliverable D2.1, which was published on the project website and shared on social media. The post was viewed over 854 times, indicating broad dissemination among stakeholders.

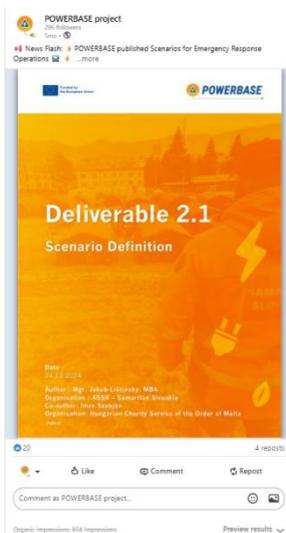


Figure 12: Deliverable D2.1 was published on the project website and on social media, where it attracted more than 850 views.

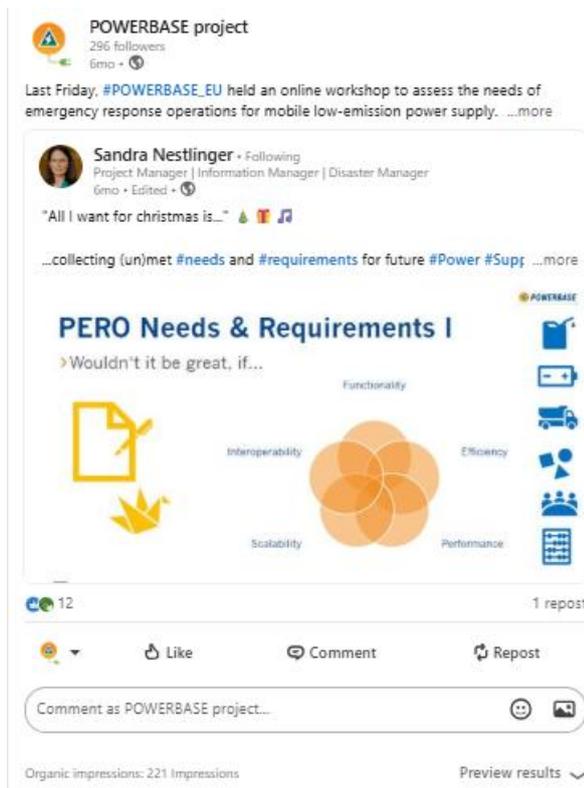


Figure 13: LinkedIn post covering Workshop 2. The post gathered more than 200 views

Workshop 2: External EROs Needs Assessment

19 participants representing 8 EROs

200 views on LinkedIn

Building on the defined scenarios, the second workshop focused on conducting an in-depth needs assessment with the eight EROs participating in the POWERBASE consortium. Using the "Wouldn't it be great if..." (WIBGI) methodology, participants articulated operational challenges, unmet needs, and desired functionalities for sustainable and resilient bases of operations. This exercise produced valuable qualitative insights and laid the groundwork for broader validation.

Information about the workshop was shared on social media and on the project website. POWERBASE's post gathered >200 views on LinkedIn.

Workshop 3: External EROs Needs Assessment

To expand and validate the findings of Workshop 2, POWERBASE facilitated nine national workshops in Germany, Austria, France, Italy, Hungary, Slovakia, the Netherlands, Greece, and Portugal. Although it was originally planned to also organise a workshop in Sweden, we decided not to move forward with the organisation of the Swedish

107 participants representing 58 EROs and other relevant stakeholders

>5.000 views on LinkedIn

Deliverable viewed >300 times

workshop, as except for

our consortium partner MSB, there are no other Swedish organisations involved in setting up bases of operations or emergency shelters in Sweden. The number of participants (48 emergency response organisations, 10 other stakeholders) in these 9 needs assessment workshops greatly exceeded our target of 32 emergency response organisations outlined in the grant agreement, ensuring a robust and comprehensive cross-European end-user needs assessment.

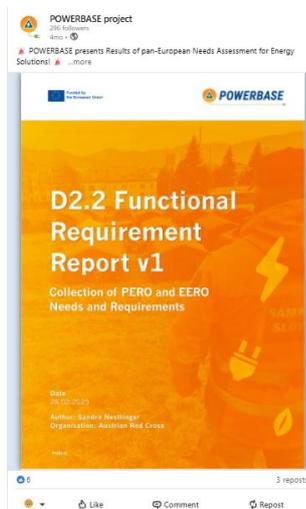


Figure 14: D2.2 was published on the project website and on LinkedIn, where it obtained more than 300 views

The nine workshops were part of an extensive social media campaign to generate visibility and raise awareness of the POWERBASE project, resulting in over 5.000 views on LinkedIn (Figure 15). In addition, information about the workshops was also shared on the project website.

The results of Workshop 2 and Workshop 3 were summarised in D2.2, and published on the project website, and shared on social media. The LinkedIn post was viewed over 307 times (Figure 14).

POWERBASE project
296 followers
Today in Greece: The POWERBASE Greek National Workshop, organised by Center for Security Studies (IKEMEA), brings together 7 key Emergency Response Organisations to discuss their needs for mobile, low-emission, reliable, and ...more

POWERBASE **Greek National needs assessment workshop**

- Hellenic Fire Service
- Ministry of Climate Crisis and Civil Protection
- Attica Prefecture
- Hellenic Red Cross
- Hellenic Police
- Hellenic Ministry of Migration and Asylum

7 Emergency Response Organisations | 3 Scenarios: Wildfire, flood, earthquake

POWERBASE project
296 followers
Today in Italy: The POWERBASE EU National Workshop brings together a diverse group of Italian stakeholders to address the power needs of emergency response operations ...more

POWERBASE **Italian National needs assessment workshop**

- Regional Civil Protection Organisations
- ENEL Power network
- RFI Rail network
- Hospital representatives

POWERBASE project
296 followers
Today in Hungary: The #POWERBASE.EU National Workshop is underway, bringing together key stakeholders to discuss innovative power solutions for emergency response operations ...more

POWERBASE **Hungarian National needs assessment workshop**

- Local Fire Department
- 3 Emergency response organisations
- Budapest's Firefighting Association

POWERBASE project
296 followers
Today: POWERBASE National Workshops in Slovakia and the Netherlands
In Slovakia, representatives from emergency response organisations ...more

POWERBASE **National needs assessment workshops**

Slovakia

- Emergency response organisations
- Critical Infrastructure

Netherlands

- Safety regions
- Search and rescue organisation
- Sustainability experts

POWERBASE project
296 followers
Today in Germany: POWERBASE National Workshop: Needs assessment for sustainable power solutions for emergency response! ...more

POWERBASE **German National needs assessment workshop**

- ISAR Germany
- Johanniter-Unfall-Hilfe e.V.
- Federal Office for Civil Protection

POWERBASE project
296 followers
Today in Portugal: POWERBASE Emergency Responders National Workshop: Bringing expertise from international disaster response to shape the future of emergency power solutions! ...more

POWERBASE **Portuguese National needs assessment workshop**

- Emergency Civil Protection National Authority
- Lisbon Central Fire Regiment
- Lisbon Municipality Civil Protection
- Portuguese Red Cross

POWERBASE project
296 followers
Today in Austria: The POWERBASE EU National Workshop, hosted by Österreichisches Rotes Kreuz, brings together key organizations to discuss experiences, (unmet) desires and potentials regarding energy supplies in ...more

POWERBASE **Austrian National needs assessment workshop**

- Austrian Forces Disaster Relief Unit (AFDRU)
- Humanitarian Aid and Social Aid organisation
- Federal Fire Association
- Arbeiter-Samratlerbund Österreichs (Zivilgesellschaftliche und soziale Organisationen, Wien, Österreich)

POWERBASE project
296 followers
Last week, POWERBASE organised workshops in Greece, Italy, Hungary, Slovakia and Netherlands to assess the needs of the countries' emergency response organisations for renewable power supply for bases of operation and emergency shelters ...more

POWERBASE **Low-Emission Power Supply for Emergency Shelters and Bases of Operations**

Figure 15: An extensive communication and dissemination campaign for the national needs assessment workshops was launched to increase awareness about the project among emergency response organisations and suppliers across Europe both on LinkedIn and on the project website. LinkedIn posts were viewed more than 5.000 times on LinkedIn.

Workshop 4: Requirement validation & prioritisation

The fourth and final workshop focused on validating and prioritising the consolidated requirements emerging from Workshops 2 and 3, which formed the basis for alignment of state-of-the-art technology with responder needs.



24 participants representing 11 EROs



>2.000 views on LinkedIn

POWERBASE generated a video about the workshop, and created several news posts on the project website and on social media. In total, there were more than 2.000 views of the LinkedIn posts, raising awareness of the project, its objectives and its outcomes.

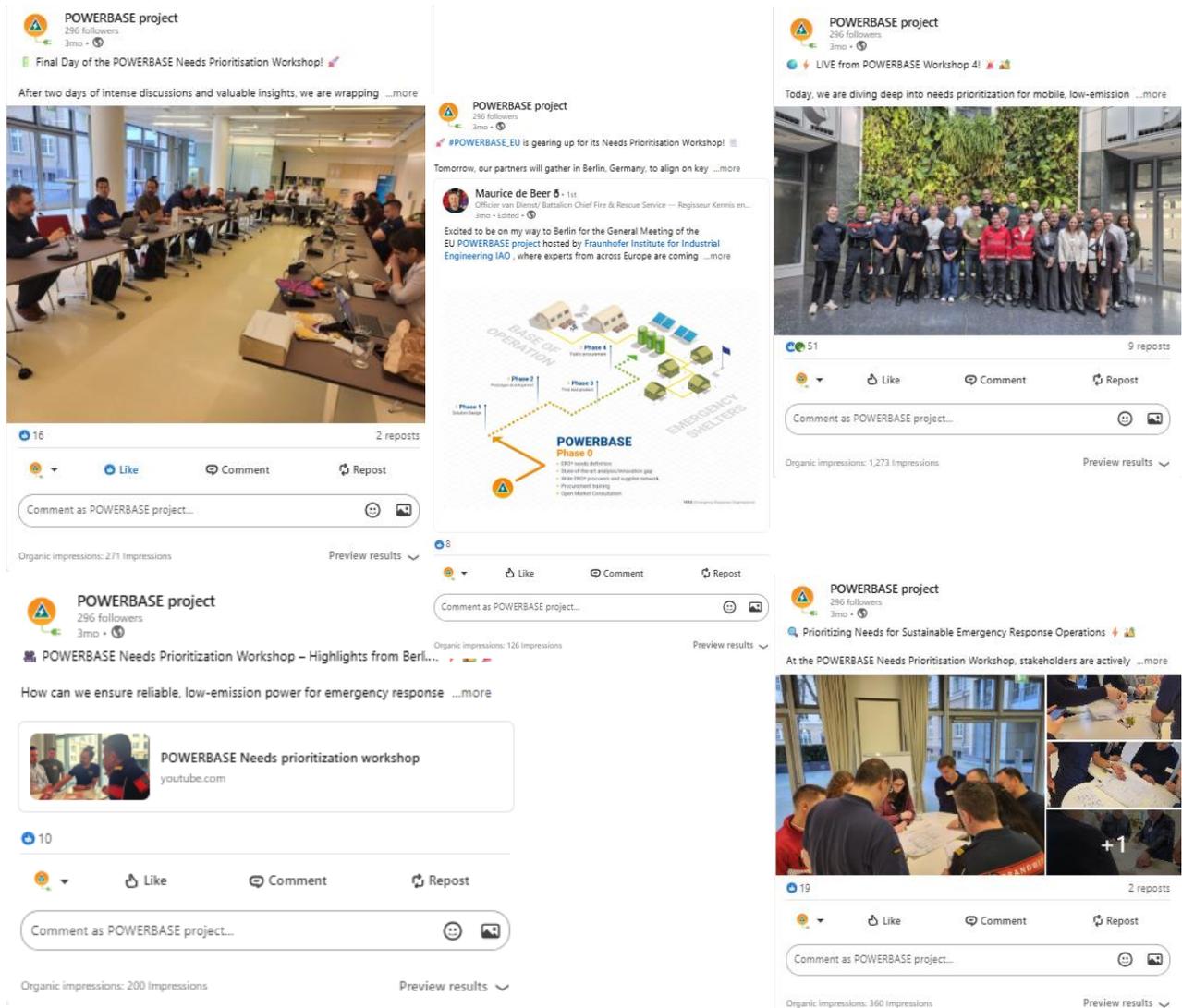


Figure 16: The needs validation and prioritisation workshop was covered on the project website and on LinkedIn, where it gained over 2.000 views.

The resulting requirements catalogue was circulated among the POWERBASE Advisory Board and external emergency response organisations, published on the project website, and shared on social media.

3.2. Open Market Consultation

POWERBASE organised a public OMC event on June 12, 2025 in Brussels, Belgium to obtain feedback from developers and suppliers of renewable energy technology on the energy needs for bases of operations and emergency shelters as identified by the POWERBASE consortium.



55 participants, representing 13 suppliers and 15 EROs



>2.000 views on LinkedIn

To ensure broad visibility and participation, the event was widely promoted through various channels: A Prior Information Notice was published on Tenders Electronic Daily, which referred to information on the POWERBASE OMC procedure website. From this website, more information was provided about the OMC Scope, Answers to frequently-asked questions, as well as the POWERBASE project, the OMC procedure, and useful resources (e.g. relevant deliverables related to needs assessment and state-of-the-art analysis). Interested emergency responders and developers and suppliers of renewable energy could sign up for the event and/or technology showcases.

POWERBASE also reached out to 210 suppliers identified through (i) the state-of-the-art analysis, (ii) companies that previously supplied power generators to the emergency response organisations in the consortium, (iii) companies that are part of EU projects related to renewable energy, and (iv) companies that presented at energy fairs. It also contacted 21 relevant network organisations and associations like the Batteries European Partnership Association (BEPA; Figure 19), hydrogen networks, European Innovation Council (EIC), Business networks, national contact points and national professional associations, Local Governments for Sustainability (ICLEI), CERIS, IFAFRI, CMINE and practitioner networks to multiply and amplify the outreach. POWERBASE consortium partners also attended energy fairs (e.g. Intersolar in München) to further identify interesting contacts, some of which signed up for the POWERBASE OMC event.

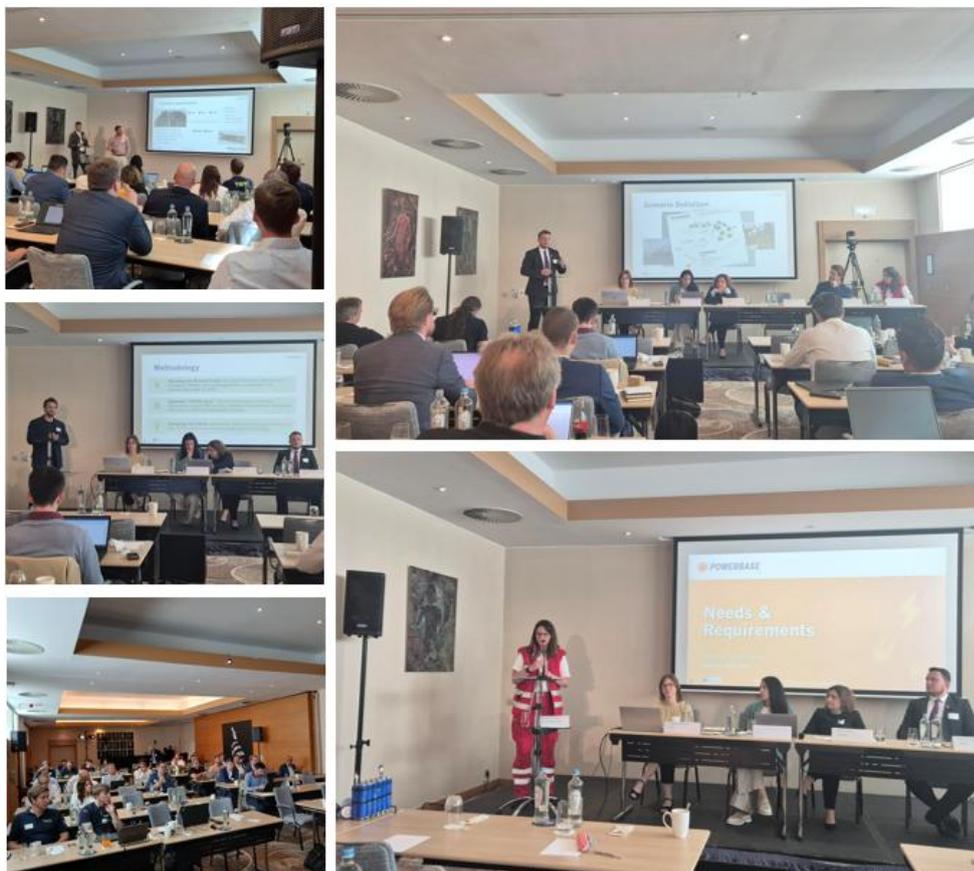


Figure 17: Impressions from the POWERBASE OMC event in Brussels, Belgium

To further increase attendance and outreach, POWERBASE scheduled the OMC event during the European Sustainable Energy Week (EUSEW), and six members of the consortium also joined several activities related to EUSEW to increase awareness about POWERBASE project during the event (Figure 18).



Figure 18: POWERBASE attended EUSEW in Brussels, Belgium to promote the OMC event and enhance visibility of the project among the sustainable energy community

A total of twenty developers and suppliers of renewable energy solutions (each being represented by 1-3 people) signed up for participation at the OMC event, of which 15 were interested in giving a presentation. In addition, 12 emergency responders and/or other stakeholders signed up for participation in the OMC event. In total, **69 stakeholders intended to attend the POWERBASE OMC event**, although the number of actual online + on-site participants was 55. The number of companies that gave a presentation was 11 (although 14 had signed up).

The event was promoted regularly on social media from April – June 2025 with posts sharing the POWERBASE OMC scope document, the state-of-the-art analysis (D2.4) the event agenda, and other information about the event, which together gained over 1.000 views (Figure 19).

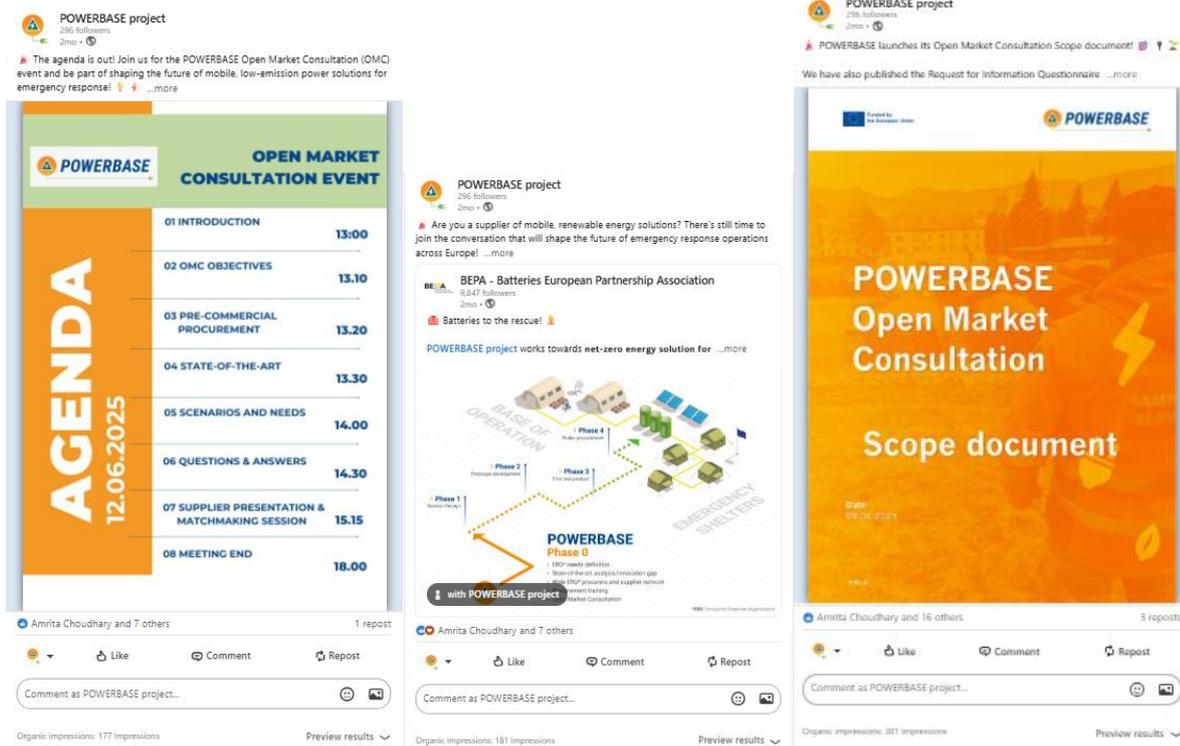


Figure 19: POWERBASE regularly promoted the OMC event from Apr-June 2025 in several social media posts (some examples depicted here).

Posts related to the OMC event itself also generated over 1.000 views and likes and comments by developers and suppliers of renewable energy, demonstrating the project has successfully managed to build a community of developers and suppliers of renewable energy solution providers.

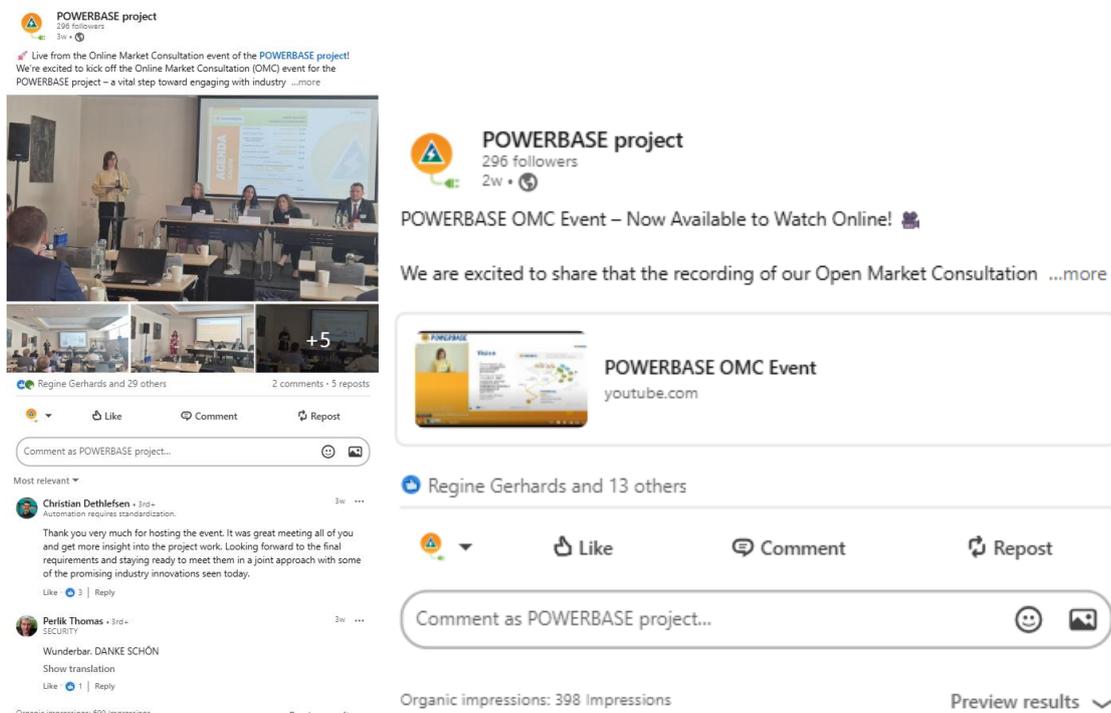


Figure 20: POWERBASE posted about the POWERBASE OMC event and uploaded a recording of the event on the public website and on social media

Follow-up: OMC Workshop

Following the public OMC event, POWERBASE organised an **OMC workshop on August 28, 2025**. The objective of this follow-up session was to:

- Present pre-finalised requirements and challenges communicated by the market, and interact with the suppliers
- Get to know available technology from suppliers of different (hybrid/renewable) energy generation and storage solutions (technology showcase with nine suppliers) and assess the maturity and relevance of existing market solutions
- Reflect on lessons learned from the OMC process
- Training for suppliers and emergency responders on IPR and innovation procurement
- Assess future procurement options



45 participants from 10 companies and 13 EROs



3.230 views on LinkedIn

Information about the event was used to generate 8 social media posts (Figure 21), which received 3.230 views.

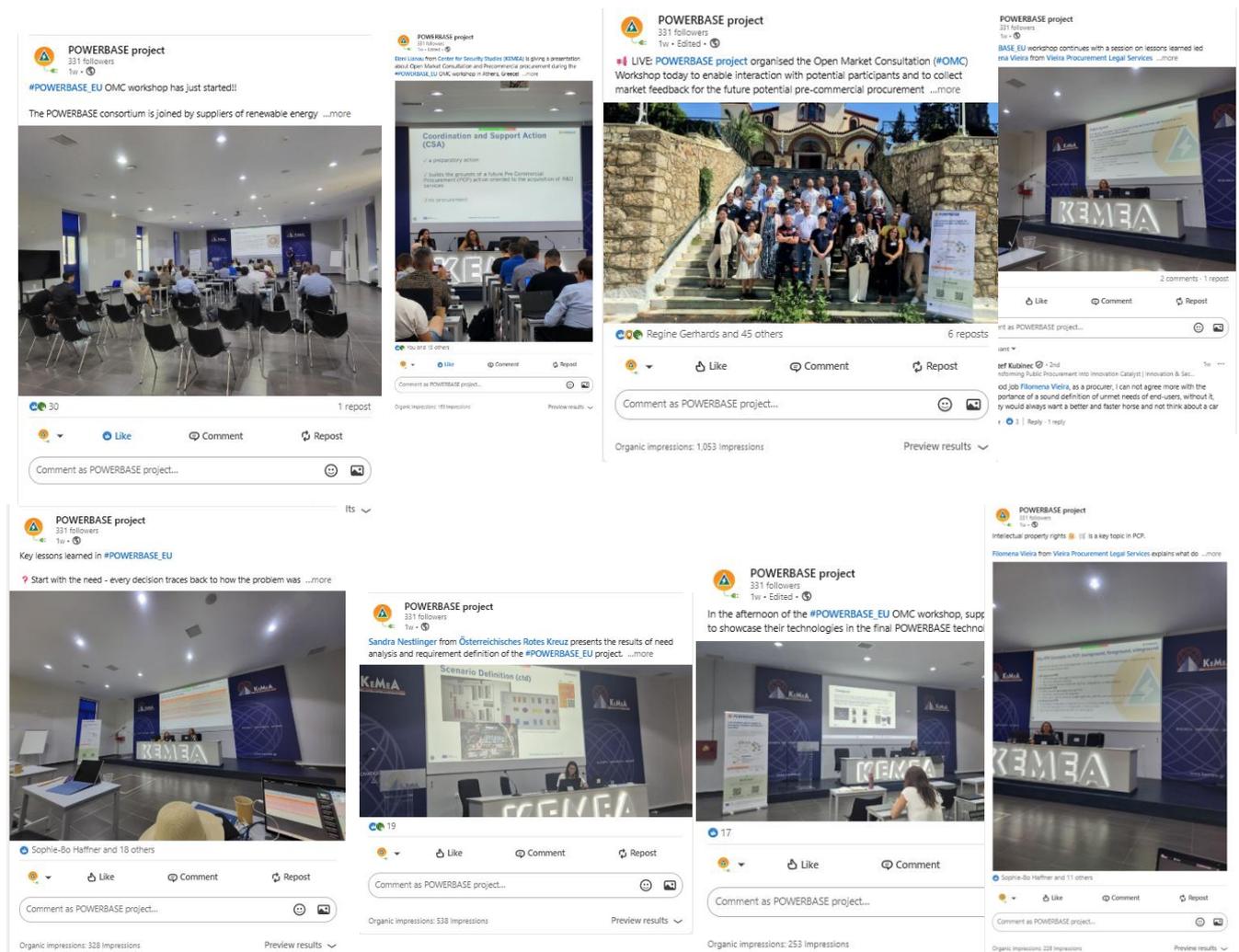


Figure 21: The POWERBASE OMC workshop was covered in 8 social media posts which together gathered over 3.000 views

3.3. Technology showcases

The POWERBASE project organised a series of technology showcases to connect technology providers with emergency response organisations both within and outside the consortium. These showcases served as an opportunity for suppliers to present innovative low-emission energy solutions and to receive direct feedback from end users regarding the functional and operational suitability of their technologies in various emergency response scenarios. A total of four technology showcases were organised over the course of the project. In each session, at least three technology providers presented their solutions and engaged in dialogue with relevant stakeholders. In total, 31 suppliers registered to attend or present at one of the showcases.

Technology showcase 1: CERIS event

Technology Showcase 1 was held on 27 March 2025 during the CERIS event in Brussels, Belgium, which was attended by over 100 emergency responders, researchers and policy makers across Europe.

During this showcase, POWERBASE presented the PCP process and the objectives of its OMC, then three technology providers presented their technology. Afterwards, there were on site demonstrations of the technology to interested emergency responders.



~100 participants from EROs, suppliers, innovators, researchers



>1.800 views on LinkedIn



The technology providers expressed interest about joining the showcases after promotion of the showcase on social media (with posts generating over 500 views, Figure 22), indicating a successful communication campaign.

News about the technology showcases was also shared on the project website and on LinkedIn, which posts generated over 1.300 views (Figure 23).

Figure 22: Communication campaign related to technology showcase 1

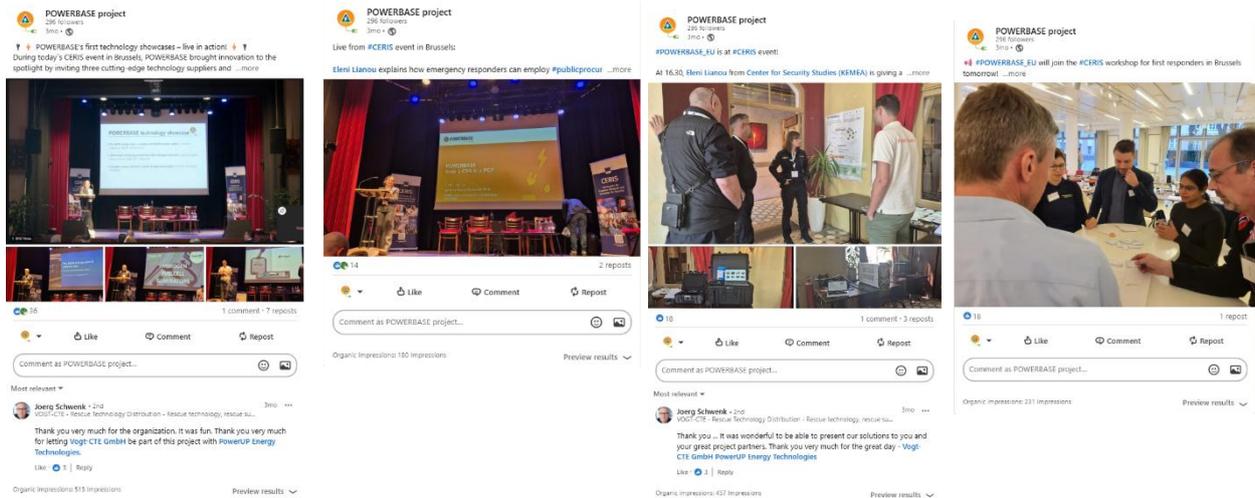


Figure 23: Social media coverage of Technology Showcase 1 during CERIS event

Technology showcase 2: OMC event in Brussels, Belgium

The second showcase was during the OMC event in Brussels, Belgium on June 12, 2025, during which 11 companies presented their technology (see section 3.2).



55 participants representing 13 suppliers and 15 EROs



>2.000 views on LinkedIn

Technology showcase 3: Online IFAFRI-POWERBASE workshop

The third showcase was organised online together with IFAFRI on July 15, 2025, and featured presentations by two EU companies, one hybrid EU/US company, and three US companies. In total, 51 people signed up to join the event, of which 36 people attended the Zoom meeting. Of these 36, at least ten represented companies (eight different organisations), and at least ten represented emergency response organisations (at least five separate organisations).



36 participants, representing 8 companies and at least 5 EROs



2.149 views on LinkedIn

The event was announced on the public website and on social media (Figure 24), where it generated 2.149 views.

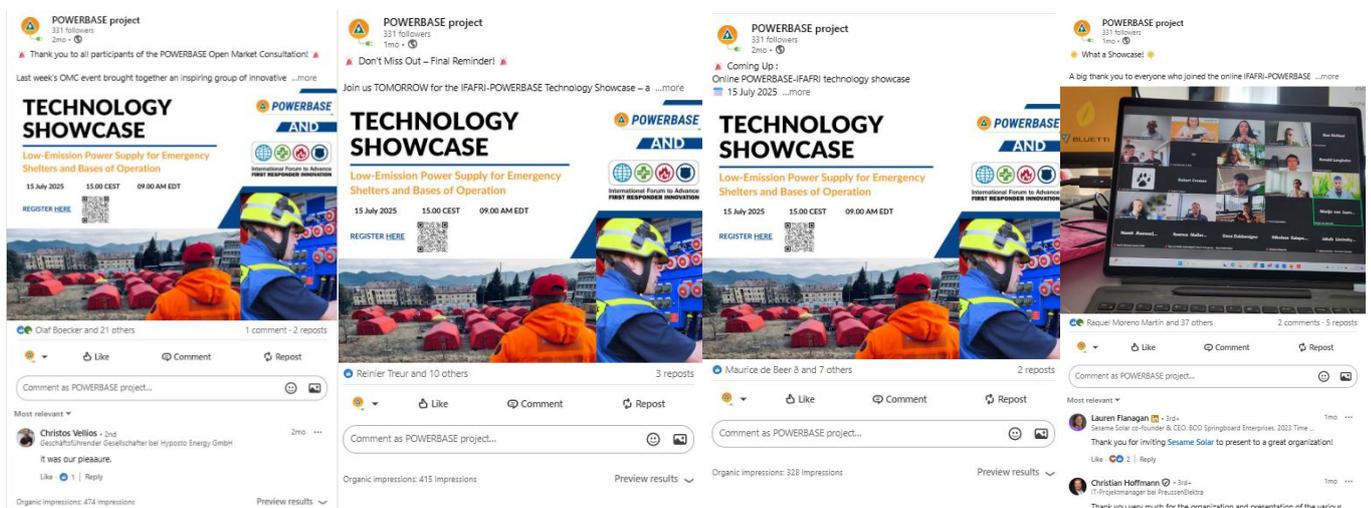


Figure 24: Social media coverage of IFAFRI-POWERBASE online technology showcase generated over 2.000 views

Technology showcase 4: Hybrid OMC workshop in Athens, Greece

The final showcase was organised in hybrid format during the OMC workshop in Athens, Greece, during which nine companies presented their technology, three of which presented physically and six online(see section 3.2).



9 suppliers, 45 participants representing 13 EROs



3.230 views on LinkedIn

These showcases played a crucial role in supporting two-way knowledge exchange between solution developers and operational stakeholders, helping to align technological offerings with real-world emergency response needs.

3.4. Project webinars

One of the core objectives of the POWERBASE project was to strengthen the capacity of emergency response organisations to engage in innovation procurement. To support this aim, the project organised training webinars that provided guidance on technical, operational, and legal aspects relevant to future procurement processes.



135 participants representing 14 EROs



>2150 views on LinkedIn

The first training session was part of the Kick-off meeting. Then, a training webinar was held in Month 3, in conjunction with Workshop 2 (Figure 25), and was attended by 19 emergency responders associated to POWERBASE. It introduced the fundamentals of innovation procurement in the context of low-emission technologies and facilitated an exchange of knowledge between project partners and participating EROs.

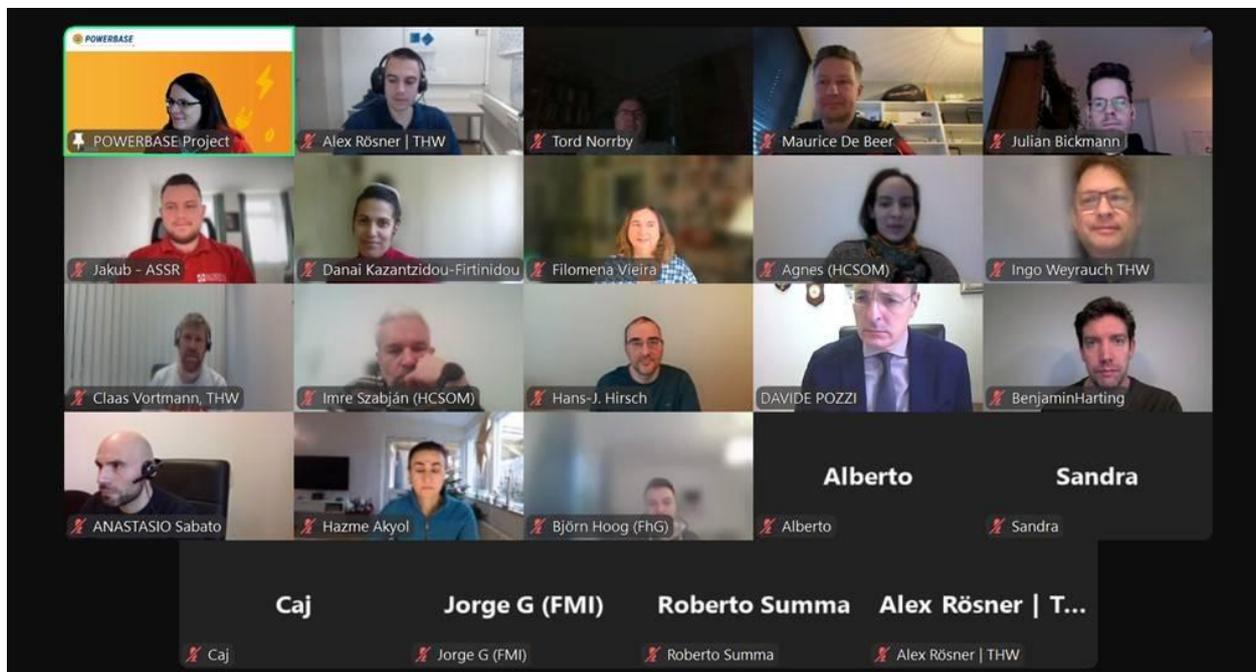


Figure 25: Procurement training during needs assessment workshop

The next procurement training sessions were organised during Workshop 4 in Berlin, which was attended by 25 project members, and during the follow-up meeting after the OMC event on June 13, 2025 (focusing on IP), which was attended by 21 project members, in Brussels, Belgium.

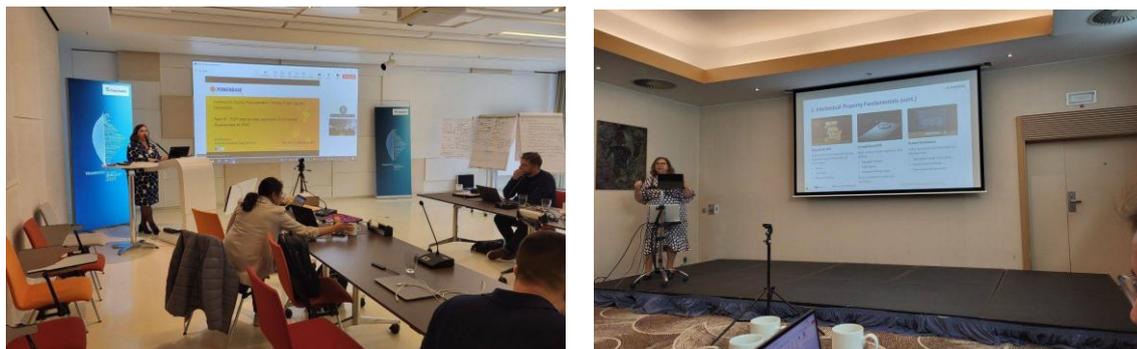


Figure 26: Procurement training during WS4 in Berlin (left), and during the OMC event (right)

A final lessons-learned webinar was delivered on August 28, 2025, focusing on:

- Findings from the needs assessment of emergency responders and other end users
- Lessons learned from the analysis of state-of-the-art mobile, low-emission energy technologies
- Legal considerations related to future joint public procurement initiatives

The webinar was attended by 40 on-site and five online attendees, and social media posts generated over 850 views. These webinars served as key capacity-building tools, equipping emergency responders with the insights and foundational knowledge needed to participate in and lead future procurement actions aligned with sustainable and resilient emergency response operations.



Figure 27: Lessons learned webinar on 28 August 2025

3.5. Policy recommendation paper

POWERBASE is proud that it was able to contribute to a [policy brief](#) about needs for responder technology in disasters.



200 organisations from 17 projects



400 views on LinkedIn

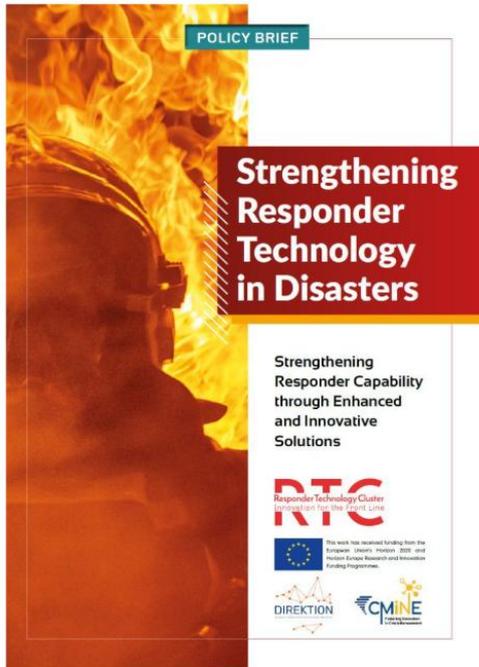
The brief reflects the combined insights of over 200 organisations across 17 European projects, including input from emergency responders, policy makers, and innovation experts. It outlines top priorities for future research, development, and deployment of technological solutions to support responders in an increasingly complex risk landscape.

POWERBASE’s contribution focused on the needs for mobile, low-emission power solutions to support emergency operations — a critical piece in ensuring reliable and sustainable response capacity on the ground. Moreover, POWERBASE shared ideas about innovation procurement and how to overcome the “valley of death”.

The policy brief was distributed through many channels, including the POWERBASE website and the project’s LinkedIn channel, where it generated over 400 impressions.

POWERBASE project
296 followers
3mo •

Strengthening Responder Technology in Disasters – a new European Policy Brief has recently been published, and we're proud to share that #POWERBASE_EU contributed to this important collaborative effort! ...more



Melanie Carevic-Neri and 34 others 2 reposts

Like Comment Repost

Comment as POWERBASE project..

Organic impressions: 417 Impressions Preview results

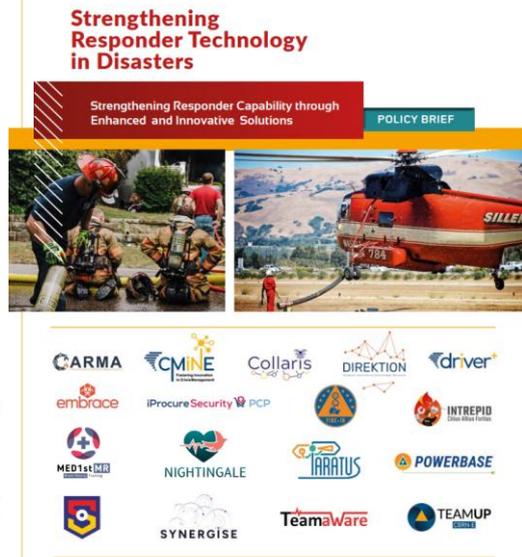


Figure 28: The policy brief on responder technology was a collaborative effort with a shared dissemination campaign.

3.6. Magazine articles

To inform stakeholders about the POWERBASE project and its objectives, POWERBASE has reached out to specialized magazines for developers and suppliers of renewable energy solutions, magazines that focus on sustainability, as well as emergency responders across Europe. Unfortunately, it turned out to be difficult to interest magazines in the project.

 4 articles in ERO magazines

 >75.000 civil protection specialists

In the magazine of THW journal BY of the THW-Landesvereinigung Bayern e.V., the POWERBASE explained its goals and the relevance for emergency response operations in a two-pager (Figure 29). The magazine is directed at emergency responders in Germany with a print of almost 10,000 copies, and was openly available on the magazine website as well as on the POWERBASE website for wide dissemination.

Figure 29: POWERBASE published an article in the January 2025 issue of the THW journal BY 1/2025 of the THW Landesvereinigung Bayern e.V.

The POWERBASE project was also featured as column in the Rotkreuzler, an Austrian Red Cross internal magazine (issued in print in about 4.500 copies). Here, Sandra Nestlinger explained how POWERBASE assesses needs and requirements of emergency response organisations for bases of operations and emergency shelters, and her role.

Figure 30: POWERBASE contributed to the March edition of the Rotkreuzler, an internal magazine of the Austrian Red Cross.

Furthermore, POWERBASE published in the June issue of the emergency responders magazine "Crisis Prevention", a German magazine with a print run of 8.000 copies, and is scheduled to be distributed at a German crisis prevention symposium (Figure 31). The article highlighted the challenges of power supply during emergency response missions, and stressed the importance of facilitating the transition to renewable energy solutions, and described how the project contributes to this goal.



Figure 31: An article about POWERBASE appeared in the June 2025 issue of the German responders' magazine "Crisis Prevention"

Furthermore, an article about POWERBASE and its objectives appeared in an issue (N38) of the national fire brigade NOIVVF magazine (Figure 32), a magazine that is printed in 55.000 copies, and distributed to fire brigade, civil protection specialists, safety regulators, members of the police, Carabinieri and Guardia di Finanza all over Italy.



Figure 32: The NOI Vigili del Fuoco magazine is printed and distributed in 55.000 copies in Italy

3.7. Scientific publications

The work conducted within POWERBASE provided the foundation for the publication [“OptiBase - Optimization tool for reducing emissions from energy self-sufficient accommodation in international disaster response operations \(by implementing photovoltaic generators, wind generators and battery storage systems\)”](#), published in Open Research Europe.



1 scientific publication in Open Research Europe



1 freely available tool on GitHub

This publication introduces an optimization tool, freely available on GitHub, which was developed in response to the specific needs of POWERBASE practitioners.

The tool enables the assessment of potential CO₂ emission reductions through the integration of photovoltaic and wind generators as well as battery storage systems in Bases of Operation, and further supports the (pre-commercial) procurement process by facilitating the alignment of practitioners’ operational requirements with technology providers’ proposals.

The figure displays the scientific publication and the software interface for OptiBase. The publication page on the left includes the title, authors (Leon Himmelsbach, Juliane Schlierkamp, Arjuna Nebel), and abstract. The flowchart on the right illustrates the tool's workflow: GUI (Input, Start Calculation, Messagebox) leads to Calculation: data processing (determination of CO₂ factors, API requests), then Calculation: PyPSA optimization (processing of the datasets, comparison of the datasets), and finally Calculation: results (creation of actual system, optimization actual system, creation of new system, optimization new system, determining best results, updating the result labels). The software interface screenshot shows input fields for coordinates, transport mode, and a detailed load profile table for 10 loads over a 24-hour period.

Figure 33: OptiBase is an optimisation tool that enables the assessment of potential CO₂ emission reductions by implementing renewable energy solutions in Bases of Operation

3.8. Press releases

The POWERBASE project issued its first press release (in English and German) upon the Kick-Off Meeting (14th October 2024, see Annex 1) of the project, and achieved an excellent opening rate² of at least 22%, indicating that about 350 journalists opened the press release email.



1 press release in English & German



>850 views from journalists, 5 responses from suppliers

The press release was shared on social media from POWERBASE project partners, after which five suppliers of renewable energy contacted the project to inform us about their solutions.

Federal Agency for Technical Relief
9,258 followers

Grüne Energie statt schädlicher Dieselgeneratoren im Einsatz - ist das möglich? Antworten soll das im Oktober gestartete Forschungsprojekt "POWERBASE" liefern, in dem sich zwölf Nothilfe- und Forschungsorganisationen zusammengeschlossen haben, koordiniert vom THW.

Um Versorgungscamps und Bereitstellungsräume mit Energie zu versorgen, setzen Zivil- und Katastrophenschutzorganisationen wie das #THW meist mobile Dieselgeneratoren ein. Diese sind einerseits flexibel in der Handhabung und liefern schnell Strom im Katastrophenfall. Andererseits verursachen sie schädliche CO₂-Emissionen, Vibrationen und Lärm. Damit schaden die Generatoren der Umwelt, Schutzsuchenden und Einsatzkräften gleichermaßen.

Derzeit gibt es keine einsatzfähige, grüne Technologie zur mobilen Energieversorgung, die den Anforderungen von Rettungskräften entspricht. Ziel von **POWERBASE project** ist es, eine Grundlage für die Beschaffung neuer Technologien zu schaffen.

Die Europäische Kommission unterstützt das bis September 2025 angesetzte Projekt mit rund einer Million Euro.
European Research Executive Agency (REA)

Technisches Hilfswerk

Grüne Energie für Behelfs-Unterkünfte: Forschungs-Projekt "POWERBASE" gestartet

16 likes, 1 comment

Center for Security Studies (KEMEA)
4,263 followers

Exciting News!

We're thrilled to announce the launch of the **#POWERBASE** project, a cutting-edge **#HorizonEurope** initiative! This project is set to lay the groundwork for the future procurement of low-emission energy solutions tailored to the needs of emergency response organizations.

POWERBASE project aims to define the key requirements and develop procurement documents for highly innovative, low-emission energy solutions that meet the operational demands of Emergency Shelters and Bases of Operations. These solutions will support a sustainable, resilient future for emergency response across Europe.

Kicked off in Frankfurt from October 14th to 16th, this one-year project is coordinated by the **Federal Agency for Technical Relief** and brings together major European Emergency Response organizations and top research institutes.

At **Center for Security Studies (KEMEA)**, we are excited to play a dual role: Our legal advisors will lead the Procurement Preparation Work Package, building on our experience as Lead Procurer in numerous **#PCP** projects. Our researchers from the Emergency Management and Civil Protection division will contribute to defining the requirements, conducting the State of the Art review, and leading the community-building efforts between solution providers and end-users.

Stay tuned for more on this journey towards **#lowemission**, **#innovationprocurement**, and a greener future for **#emergencyoperations**.

#EmergencyResponse #GreenTransition #Sustainability #Innovation

PNO Innovation Germany (fka ARTIC) German Federal Agency for Technical Relief (THW) MSB (Swedish Civil Contingencies Agency) Hungarian Charity Service of the Order of Malta Gezellenlijke Brandweer Ministère de l'Intérieur Ministerio del Interior Center for Security Studies (KEMEA) Fraunhofer INT Österreichisches Rotes Kreuz ASOCIACIA SAMARITANOV SLOVENSKEJ REPUBLIKY (ASSR)

POWERBASE

HORIZON EUROPE project that aims to provide the foundation for future procurement of low-emission energy solutions by emergency response organizations

Funded by the European Union

54 likes, 1 repost

Figure 34: POWERBASE partners provide information about project start on social media

² To measure reach of the press release, we assessed opening rates which represent the percentage of recipients that opened and viewed the press release email.

3.9. POWERBASE attendance at conferences and events

POWERBASE partners have attended large events where emergency response organisations gather such as trade fairs for safety and security, civil protection events/assemblies (e.g. CERIS), but also high-profile procurement events, technology fairs and exhibitions. A list of events that were attended by partners can be found in Table 1.



>30 conferences, events, fairs and procurement webinars attended

Table 1: Overview of conferences and events where POWERBASE was represented

Name	Dates	Location	Short description	Target audience	Partner
2024 CAP Implementation workshop and Training	Oct 22-24, 2024	Leuven, Belgium	TISA, USAID, NOAA, and Alert-Hub.Org CIC hosted the 2024 Common Alerting Protocol (CAP) Implementation Workshop. Cosponsors were the International Association of Emergency Managers (IAEM) and the OASIS standards organization. Several hundreds of professionals participated in person and online from 138 Countries.	International organisations (UN body, OECD), emergency response organisations and other civil protection professionals, public authorities	CNVVF
Hexagon LIVE Make Data Make Sense	Nov 11-12, 2024	Monza, Italy	Hexagon LIVE is a global networking event for industry experts and professionals to explore the latest innovations in information management, digital twins and sustainability solutions.	Industry, business partners	CNVVF
SPHERE Focal Point Forum	Nov 13-15, 2024	Antalya, Türkiye	Sphere is a global community that sets standards for humanitarian action and promotes quality and accountability. The Global Point Forum is a dynamic space of knowledge sharing and collaboration to evaluate the humanitarian response and collaboration	Emergency response organisations	ASSR
Deutsche Wehrtechnik –	Oct 8-9, 2024	Bonn, Germany	This event focused on challenges the military face when preparing for the transition towards renewable energy	Military and defense professionals, national authorities	FhG

Energy transition in military context					
Nicosia Risk Forum	Dec 4-6, 2024	Nicosia, Cyprus	The Nicosia Risk Forum was held at Dec 4-6, 2024, in Nicosia, Cyprus and brought together academic, industrial, governmental, policy and other societal stakeholders active in the area of civil protection and disaster management in South Europe and Middle East.	Research communities, industry, business partners, governmental, policy and other societal stakeholders	KEMEA
1 st International Meeting of Public Sector Data Protection Officers	Dec 6, 2024	Guimarães, Portugal	This meeting focused on the challenges currently facing DPOs in the exercise of their role, particularly in the fields of local public governance, health, education, archives, research and open science	Experts, researchers, representatives of Public Data Controllers and Data Protection Officers, Public Administration	VIEIRA
4 th Annual Public Procurement Council	Feb 4, 2025	Online	This meeting focused on public procurement and AI, sustainability and transformation by means of public procurement, and reforming the directives – what the UK experience can tell the EU about what not to do in reforming the directives	Experts in procurement and private partnerships	VIEIRA
E-world energy and water fair	Feb 11-13, 2025	Essen, Germany	The E-world energy & water fair is among Europe’s largest energy trade fairs, bringing together technology developers from across Europe and beyond.	Industry, business partners	FhG
RTD Library Talk on building an EU legal framework	Apr 8, 2025	Brussels, Belgium	Invited lecture on building an EU legal framework that incentivizes wider implementation of innovation procurement	Policymakers, procurement experts	VIEIRA
11 th BMBF Symposium on Security Research	Mar 5-6, 2025	Brussels, Belgium	This symposium, organized by the German Federal Ministry of Education and Research, serves as a key platform to discuss advancements in European security research.	Experts, policymakers and researchers	THW

			During the event, Dr. Rösner highlighted how POWERBASE is addressing the critical need for reliable, self-sufficient, and sustainable power sources in crisis situations. By identifying user requirements and mapping state-of-the-art technologies, the project is paving the way for future innovation procurement in emergency energy resilience.		
Key Expo – The Energy Transition Expo	Mar 5-7, 2025	Rimini, Italy	This premier event showcased state-of-the-art technologies shaping the future of energy efficiency and sustainability—many of which hold great potential for enhancing emergency response operations. The event provided an excellent platform to discuss the goals of POWERBASE, emphasizing the need for reliable, self-sufficient, and sustainable energy solutions in emergency scenarios. Additionally, the representatives extended an open invitation to organizations and stakeholders to participate in the OMC, a key activity within the project aimed at mapping existing technologies and gathering input from potential suppliers and end-users.	Industry, technology developers, researchers, end users	CNVVF
CERIS workshop on solutions for first responders	Mar 27, 2025	Brussels, Belgium	This thematic Workshop of CERIS aims at presenting and discussing European research and innovative solutions, as well as further capability needs relevant for enhancing first responders' operational capabilities in different rescue operations scenarios. POWERBASE explained the project's	Security practitioners, innovators, operators and policy makers	KEMEA, THW, PNO, AUTRC

				objective and its pathway to precommercial procurement, and three technology developers presented their renewable energy solutions		
4 th Annual Procurement Council	Apr 4, 2025	Online		Leaders in European Public Procurement Law came together to discuss important topics like Artificial Intelligence and Public Procurement, US vs. EU Public Procurement (new perspectives), Strategic public procurement	Procurement professionals, policy makers	VIEIRA
EU Public Procurement Anno 2025	Apr 23-24, 2025	Copenhagen, Denmark		Under topic “Are the rules fit for purpose”, a panel of public procurement experts discussed modernisation of EU procurement rules from different angles.	Procurement professionals, policy makers, researchers, academia	VIEIRA
Intersolar Energy Fair	May 7-8, 2025	München, Germany		Intersolar Europe is the world’s leading exhibition for the solar industry, held annually in Munich, Germany. The event offered a valuable opportunity to explore the latest advancements in renewable energy technologies and engage directly with industry leaders and innovators.	Industry, technology developers, researchers, end users	THW, FhG
CERIS Disaster Resilience Days	May 19-21, 2025	Brussels, Belgium		An important annual event organised by the European Commission to bring together projects and stakeholders working on disaster risk reduction, crisis response, and societal resilience.	Security practitioners, policymakers	KEMEA, AutRC, FhG
Unlocking Low-Carbon Innovation	May 22, 2025	Brussels, Belgium		The event brought together stakeholders from across Europe to explore how Horizon Europe projects can accelerate the transition to a low-carbon economy. Discussions focused on bridging the gap between research and market deployment, with particular attention to the role of public procurement and policy frameworks in supporting innovation.	Innovators, policymakers, project coordinators	FhG

Virtual symposium: driving practical public sector innovation	May 22, 2025	Online	This one-day symposium celebrated groundbreaking strides in public sector innovation supported by the European Commission's Horizon Europe programme.	Innovators, policymakers, procurement experts	VIEIRA
EAFIP Webinar – Innovation Procurement	May 26, 2025	Online	This webinar provided insights into practices to leverage innovation procurement to secure European autonomy, resilience and economy.	Policymakers, procurement experts, business leaders, academia	VIEIRA
Imagine the Citiverse 2025	May 27-28, 2025	Tampere, Finland	IMAGINE is where cities, major companies, startups, investors, and researchers come together to push boundaries and spark new possibilities. Maurice de Beer gave a keynote presentation about GB, and during networking also mentioned POWERBASE	Cities, major companies, startups, investors, researchers	GB
Webinar – Innovation Through Procurement : The NATO-DIANA case study	May 28, 2025	Online	George Washington University Law School's Government Procurement Law Program hosted a one-hour special webinar on procurement-for-innovation, focusing on the NATO DIANA (North Atlantic Treaty Organization (NATO) – Defense Innovation Accelerator for the North Atlantic (DIANA)) initiative as a case study in effective use of public procurement to generate innovation.	Procurement experts, policymakers, researchers, academia	VIEIRA
Austrian Red Cross Federal Exercise	May 31-Jun 1, 2025	Bad Kleinkirchheim, Austria	The Austrian Red Cross and the federal branch of Carinthia conducted their bi-annual large-scale national exercise "Nock Alert 2025" The event brought together around 500 operational staff from various response modules across Austria and involved approximately 1,000 participants, including roleplayers and	Security practitioners, operators	AutRC

			support personnel. AutRC also introduced the POWERBASE project.		
CERIS From Project to Policy Seminar	Jun 4-5, 2025	Brussels, Belgium	The CERIS from project to policy seminar aims to increase the interaction between Horizon EU projects and policymakers, informing projects about policymaking processes, and organising breakout sessions to understand challenges projects face during implementation.	Horizon EU project coordinators, staff involved in dissemination & communication, policymakers	THW, PNO
SIS purchasing club seminar	Jun 5, 2025	Paris, France	Mol-F presented the project and its outcomes at the Fourth Annual Seminar of the Fire and Rescue Services (SIS) purchasing club, a forum for exchanges, meetings and sharing of best practices	Fire and rescue services purchasing community, local authorities, innovation industry, ministry representatives	Mol-F
EUSEW 2025	Jun 10-12, 2025	Brussels, Belgium	The European Commission's premier annual event dedicated to clean and sustainable energy and advancing Europe's energy transition. As a project focused on identifying low-emission, mobile energy solutions for emergency shelters and operations, POWERBASE was keen to engage in these crucial conversations.	Policymakers, researchers, industry, and civil society	THW, PNO, KEMEA, ASSR
Erasmus+ VET Eco Seminar	Jun 16-18, 2025	Warsaw, Poland	This inspiring event brought together professionals and practitioners from across Europe to explore sustainable innovations and practical pathways toward a climate-resilient future. It was discussed how POWERBASE can contribute to the urgent global need to reduce CO ₂ emissions, a critical factor in combating climate change and the rising frequency of natural disasters.	Security practitioners, education professionals	KEMEA

SRE Security event	Jun 24-28, 2025	Warsaw, Poland	<p>This high-level annual event focuses on boosting security in the EU through EU-based innovation.</p> <p>By attending SRE2025, POWERBASE aimed to:</p> <ul style="list-style-type: none"> • Showcase emerging findings on clean energy alternatives for field operations • Engage with emergency responders and policy stakeholders on procurement-driven innovation • Exchange ideas with fellow projects and experts about innovation procurement 	<p>Researchers, policymakers, civil protection professionals, and security practitioners</p>	<p>CNVVF, THW, AutRC</p>
Society, meet digital event – Society 5.0	Jun 27, 2025	Amsterdam, Netherlands	<p>This event focused on challenges for the public sector. Maurice de Beer had a keynote lecture and mentioned POWERBASE during networking conversations.</p>	<p>Cities, practitioners, businesses, public organisations</p>	<p>GB</p>
2025 Global Public Procurement Forum	July 1-2, 2025	Paris, France	<p>The Global Public Procurement Forum aims at reviewing cutting edge public procurement practices across the world to ensure that public procurement is best used to achieve desired economic and social outcomes, while delivering substantial savings.</p>	<p>Policymakers, experts, business leaders, civil society, academia</p>	<p>VIEIRA</p>
NATO 20 th civil emergency response exercise	Sep 7-12, 2025	Sofia, Bulgaria	<p>Organised by NATO's Euro-Atlantic Disaster Response Coordination Centre (EADRCC), the exercise brought together Allies and partners, as well as other international organizations. Participants will be confronted with scenarios that include natural and industrial disasters, hybrid threats, and complex</p>	<p>Security practitioners, policymakers</p>	<p>KEMEA, THW</p>

			emergencies. They were able to test procedures related to the coordination of different activities and logistical support.		
6 th Interdisciplinary symposium on public procurement	Sep 18-19, 2025	Lisbon, Portugal	This international symposium focused on relevant topics related to public procurement. This year's edition will focus on protectionism and public procurement, digital transformation, the case of a new EU public procurement directive and professionalisation in public procurement.	Public procurers, policy makers, managers, academia, researchers	VIEIRA
IFAFRI	Jan-Sep 2025	All online and on-site meetings	As president of IFAFRI, GB attended all IFAFRI meetings	Emergency response organisations, technology developers	GB
European Research and Innovation Days 2025	Sep 16-17, 2025	Brussels, Belgium	The event explored Europe's competitiveness and industrial leadership including debates on the Startup and Scaleup Strategy, the European Life Sciences Strategy, the AI in Science Strategy and the European Innovation and European Research Area Acts. Information about POWERBASE project and its objectives was shared during networking breaks	Policymakers, researchers and business leaders	KEMEA
IDRiM2025	Sep 28-Oct 1, 2025	Samos, Greece	The IDRiM2025 conference provided a forum to discuss disaster risk reduction and management in islands and remote areas, focusing on the distinct risk environments and multifaceted challenges faced by these regions.	Scientists, practitioners, decision-makers	KEMEA

3.10. Participation in NATO exercise

POWERBASE participated in the NATO exercise in September 2025 in Sofia, Bulgaria to collect input from multiple organizations on operational and functional requirements (in terms of *inter alia* efficiency, performance, scalability, interoperability, mobility) for the mobile renewable energy power supply system that is expected to be developed. Data was collected through a questionnaire, by oral short interviews and discussions during the waiting time at the bases of operations of different organizations. Wide dissemination of the project’s vision was achieved among the respondents and not only. Many of the exercise participants showed interest in POWERBASE scope and were engaged to discussion, as the mobile (clean) energy supply in emergency situations in the most efficient way is top in organisations priorities.



Figure 35: POWERBASE researchers participated in the NATO exercise from Sep 7-12 in Sofia, Bulgaria

3.11. Cooperation and communication with other projects

POWERBASE partners are involved in several related civil security projects, providing opportunities for exchange and joint communication and dissemination activities.



Interactions with
5 EU projects

DIREKTION project

First of all, POWERBASE partners KEMEA and AutRC are involved in the DIREKTION project, which is a disaster resilience network (see section 3.12.4), so there is a continuous direct exchange between the projects. POWERBASE presented the project activities and results during two DIREKTION consortium meetings (Figure 36).

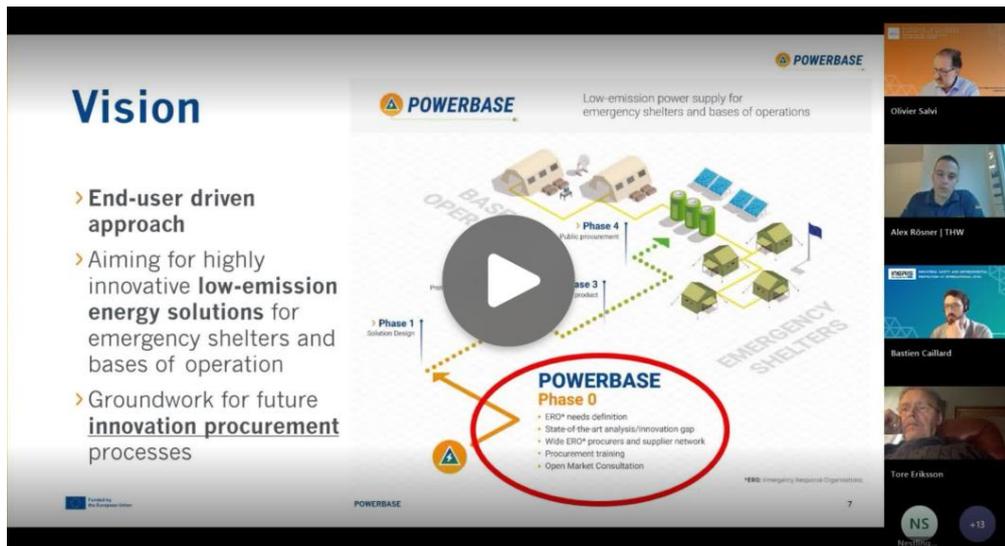


Figure 36: POWERBASE project presented during a DIREKTION consortium meeting

RESCUE project

The RESCUE project is a 4-year EU funded project focusing on the development of a mobile fuel cell power generator for emergency response missions. Like POWERBASE, the project will conduct a needs assessment as a basis for requirement definition to inform technology development. Together with the RESCUE project, POWERBASE attended the Intersolar energy fair in Munich, Germany for common dissemination & communication, and joint research into the current state-of-the-art of renewable energy technologies.

Other projects

POWERBASE also interacted with civil security projects on social media, like SYNERGISE, FORESIGHT and TRIFFID. The SYNERGISE project even included information about the POWERBASE project in their stand on the SRE 2025 event in Warsaw (Figure 37) for joint dissemination.



Figure 37: POWERBASE flyers are available at SYNERGISE stand at SRE2025 in Warsaw

3.12. National and international security networks and activities

3.12.1. Leverage on Crisis Management Innovation Network (CMINE)



Interactions with 6 international civil protection networks

The POWERBASE joined the Responder Technology Network on CMINE, and attended regular CMINE meetings. POWERBASE contributed to the Responder Technology policy paper (Section 3.5) that was coordinated by CMINE, and posted events (e.g. OMC event) and an emergency responder survey on CMINE (Figure 38).

3.12.2. Collaboration with CERIS

The POWERBASE organised a technology showcase during the annual CERIS workshop on solutions for emergency responders, and used that occasion to inform the audience about the project. POWERBASE also attended the CERIS From Project to Policy seminar, and met CERIS staff during related events like Disaster Resilience Days and SRE 2025. CERIS shared information about the project's main event, the OMC event through their communication channels, aiding in the project's communication and dissemination.

3.12.3. Collaboration with IFAFRI

POWERBASE partner GB took over presidency of IFAFRI in 2025, and as such, POWERBASE was at the frontline of developments at IFAFRI. Together with IFAFRI, POWERBASE organised an online technology showcase. IFAFRI also shared information about POWERBASE through their LinkedIn channel.

3.12.4. Collaboration with DIREKTION

The POWERBASE project attended consortium meetings of the DIREKTION project in July and September 2025, and gave a presentation about the project and its results. POWERBASE was also allowed to use the DIREKTION booth at the SRE event in Warsaw, and POWERBASE and DIREKTION shared information about activities of the other project on their social media channels. and renewable energy sector.

3.12.5. Interactions with Integrated Disaster Risk Management (IDRiM)

POWERBASE partner KEMEA has become member of the IDRiM society, and presented results of the POWERBASE project during the IDRiM2025 international conference titled "*Advancing disaster risk reduction in islands and remote areas*". The conference was held from September 28 to October 1, 2025.

3.12.6. Dialogue with International Association of Fire and Rescue Service (CTIF)

The president of the International Association of Fire and Rescue Service (CTIF) Milan Dubravac (POWERBASE Advisory Board) attended the project's workshop on needs Validation in Berlin, and gave input on the identified needs, and requirements for mobile, renewable energy.

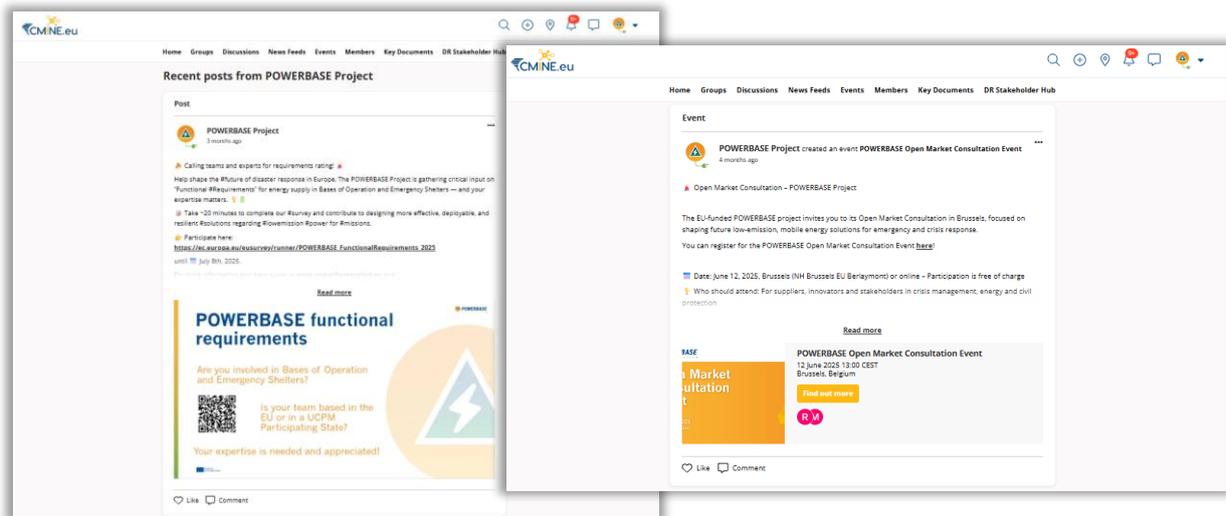


Figure 38: POWERBASE posted events and activities on CMINE platform

3.12.7. Interactions with other networks

In addition to international security networks, project partners disseminated information about POWERBASE, the requirements survey and the OMC event through national contact points (NCPs) and national security networks, e.g. Austrian Strategy for Disaster Risk Reduction, Disaster Competence Network Austria, Red Cross EU Office, and EU Civil Protection Mechanism (UCPM). The nine national needs assessment workshops were also attended by members of Austrian, Dutch, France, German, Greece, Hungarian, Italian, Slovakian and Portuguese civil security networks (see POWERBASE deliverable D2.3).

3.13. Engagement with members of the Policy Advisory Board and external experts

The POWERBASE Project Advisory Board (PAB) played a central role in facilitating cross-sectoral stakeholder engagement. The PAB comprised of eight experts, including emergency responders, public procurers, industry representatives, and legal advisors.



6 advisory board members, of which at least 2 joined POWERBASE meetings

The PAB fulfilled the following key functions:

1. Advising the consortium on the prioritisation of practitioner needs and on procurement processes applicable across different national contexts
2. Providing legal guidance on frameworks relevant to cross-border innovation procurement
3. Promoting awareness of the project and disseminating its results through professional networks
4. Participating in project activities, including physical attendance at key events and active involvement in 1–2 virtual advisory meetings

Through these contributions, the PAB significantly supported the relevance, applicability, and long-term impact of POWERBASE outcomes across both the emergency response and procurement communities.

In the framework of these activities, advisory board members were invited to join consortium meetings, workshops and the OMC event. Advisory board members Bram Krieps, Dr. Mari Ann Simmovart, Olaf Böcker and Milan Dubravac attended at least one event.

3.14. Open Access Policy

The POWERBASE project adopted open science principles as a cornerstone of its dissemination strategy, with the aim of increasing rigour, transparency, accountability, and reproducibility in civil security research. In line with the principle of making results "as open as possible, as closed as necessary", the project made significant efforts to share knowledge and data at the earliest opportunity, while safeguarding sensitive content when required.

Throughout the project, results of high relevance to emergency response organisations—such as scenario descriptions, the catalogue of available low-emission power technologies, and the assessment of operational needs—were made publicly accessible through the project website. The majority of project deliverables were openly published, with the exception of materials containing sensitive or strategic information, such as D3.4 Tendering documents, which were restricted to protect the viability of future PCP activities.

The publication on the OptiBase software tool to assess reductions in CO₂ emission for Bases of Operation by switching to renewable energy sources was made available on Open Research Europe. The software tool and documentation was provided on GitHub.

In addition, the POWERBASE website featured a dedicated publications page, providing an overview of all publicly available documents and publications resulting from the project. This supported knowledge dissemination and encouraged uptake of POWERBASE results across the emergency response, procurement, and innovation communities.

4. Evaluation of Key Performance Indicators (KPIs)

In the Description of Action (DoA), the POWERBASE project has committed to the following KPIs and targets (Table 2, Figure 39) to assess the measures undertaken to maximise the impact of the project through dissemination and communication activities. Except for the organisation of external needs assessment workshops (which did not take place in Sweden due to the fact that there are no other organisations than MSB that deploy bases of operations and/or emergency shelters), all KPIs have been reached or exceeded.

Table 2: KPIs for communication and dissemination

Measure	Targets	Actual number
Project workshops	3 internal, 10 external workshops	4 internal workshops (Scenario definition, needs assessment, needs validation, OMC workshop), 9 external national needs assessment workshops
OMC event & workshop	65 participants	OMC event: 69 registrations, 55 actual attendees, OMC workshop: 45 attendees
Technology showcases	4 showcases, 100 participants	4 showcases, 31 suppliers demonstrated their technology, 234 participants
Project webinars	2 webinars	5 Procurement training sessions including a lessons learned webinar were organised
Publication	1 Policy Recommendation paper	1 Policy Recommendation paper together with Responder Technology Cluster of CMINE, 1 scientific publication
Magazines	3 articles	4 magazine articles in emergency responder magazines
Participation in EU MODEX exercises and other EU R&I projects	1-2 activities	Participation in 1 NATO exercise and 2 shared dissemination activities with other EU R&I projects
Participation in conferences and events	4 conferences; 300 audience reached	>30 conferences attended; >1.000 audience reached
Engage with international security networks	5 Networks reached	Engagement with 6 international security networks (CMINE, IFAFRI, CERIS, DIREKTION, IDRiM, CTIF)
PAB members	5 PAB members	6 PAB members, of which at least 2 attended each project event
Project Sharepoint	1 sharepoint	Sharepoint up and running since Oct 2024
Project Website	1000 visitors	>14.000 visitors
Social media	300 followers	>330 followers on LinkedIn



Figure 39: Summary of outreach to stakeholders

5. Conclusion

This report provides a comprehensive overview of the POWERBASE communication and dissemination activities that aim to enhance the project's visibility, engage with stakeholders, and provide the basis for future procurement of renewable energy solutions.

POWERBASE has fully achieved its communication and dissemination goals. The project established a clear and attractive corporate identity. The >330 followers and >50.000 impressions on the project's social media channel and the close to 15.000 visitors of the project website clearly exceed the communication goals. The project prepared communication materials (e.g. flyers, a project poster and roll-up, a concept graphic) that were presented and handed out during conferences and fairs. The project also published six project videos.

Furthermore, the project engaged with emergency responders through internal and external workshops to collect their needs, and posts about these workshops gathered more than 8.000 views on social media. Through the OMC event and technology showcases, the project was in contact with developers and suppliers of renewable energy technology. 69 attendees signed up for the event, of which 55 attendees showed up, and 11 companies demonstrated their solutions. Posts about this event reached over 1.000 views. At the OMC workshop, nine suppliers of renewable energy solutions presented their technology, and the event was attended by 45 stakeholders and attracted more than 3.000 views on social media. Through technology showcases at the CERIS workshop for solutions for first responders and an online technology showcase in cooperation with IFAFRI, another eight suppliers demonstrated their technologies. Social media posts about these showcases reached >4.000 views. The project organised training sessions and webinars during (i) scenario definition, (ii) needs assessment and (iii) needs validation workshops and (iv) the OMC event, reaching 19-25 internal stakeholders each. The webinar on lessons-learned was joined by 45 participants. Furthermore, POWERBASE contributed to a policy recommendation paper for responder technology needs, published a scientific article about an optimisation tool for reducing emissions in Bases of Operation, and published four articles in emergency responder magazines, which together were printed in more than 75.000 copies. The consortium was represented at numerous events, fairs, seminars, and used international security networks like CMINE, CERIS, IFAFRI and DIREKTION for discussions and common dissemination activities. The Policy Advisory Board helped to prioritise responder needs and promoted the dissemination of the project results.

Together, the numerous communication and dissemination activities helped to build an online identity of the POWERBASE consortium, increased visibility of the POWERBASE project, effectively aided in building a stakeholder base among emergency responders (58 external emergency responders and further relevant stakeholders for power supply from nine countries participated in national needs assessment workshops, >9 external emergency response organisations participated in OMC event and/or CERIS showcase and/or IFAFRI showcase) and developers and suppliers of renewable energy technologies (210 suppliers were contacted, 31 suppliers signed up for a technology showcase and/or OMC activity), and helped to prepare for future procurement of mobile, low-emission power solutions for bases of operations and emergency shelters.

Annex I: Press release POWERBASE project start



Press Release

POWERBASE project improves working conditions and facilitates the green transition of emergency response organisations

Twelve emergency response and research organisations have joined forces to prepare future procurement of renewable energy technologies to set the path towards low-emission emergency operations and significantly improve workplace and accommodation conditions of emergency responders and sheltered people. The project officially kicks off today in Frankfurt am Main, Germany.



Picture credits: Federal Technical Relief Agency (THW)

Bonn, 14 October 2024, Recent disasters like the cross-border flooding in central/eastern Europe, wildfires in Greece, and the earthquake in Turkey have led to large-scale emergency rescue operations. As critical infrastructure is often damaged, emergency responders rely on mobile diesel generators for mobile energy supply. The use of diesel leads to greenhouse gas emissions: E.g. during the Turkey-Syria earthquakes in February 2023, 25,000 emergency responders were deployed for search and rescue missions lasting approximately 10 days. For this, the necessary bases of operations needed ~3,500,000 L of diesel and produced an estimated ~9250 t of CO₂ emission. Further these generators lower air quality in the direct vicinity, produce heat, vibrations and sounds, and pose safety threats for the emergency responders and sheltered people. Currently, there is no operational

technology for green, mobile power supply that meets the needs of emergency responders.

POWERBASE aims to address this technology gap and provide the basis for future procurement of promising renewable energy technologies by emergency response organisations. Working from an end-user perspective, POWERBASE will analyse the needs of emergency operations for different disaster situations, including wildfires in very hot climatic conditions, cross-border flooding with a high number of displaced people, and an earthquake scenario in a rural mountainous region. The project will also map the available technologies and potential new innovations, which can meet these needs in future. This will help emergency response organisations to bridge this gap and channel the investment in low-emission, reliable, self-sufficient, mobile power supply for emergency shelters and bases of operations.

"Under the European Climate Law, the EU aims to reduce greenhouse gas emissions by at least 55% by 2030, and become climate-neutral by 2050. To face the reality of the future and to be able to fulfil our duties in civil protection at the same time, we need innovative procurement tools like POWERBASE. This project will enable a step change in the green transition of emergency response organisations and significantly improve the working and accommodation conditions during disaster response." (Sabine Lackner, president of the German Federal Agency for Technical Relief)

POWERBASE is supported by the EU in the framework of the Horizon Europe research and innovation programme with 1 million €. The project started on October 1, 2024, and will end on September 30th, 2025.

The parties involved

POWERBASE is coordinated by the German Federal Agency for Technical Relief (THW), and brings together the European emergency response organisations Austrian Red Cross, Swedish Civil Contingencies Agency, Ministry of Interior France, Ministry of Interior Italy, Hungarian Charity Service Of the Order of Malta, Slovenian Samaritan Association and the Dutch national Fire Department. Their expertise is complemented by leading research institutes, procurer organisations and legal experts Fraunhofer Gesellschaft (Germany), Center for Security Studies (Greece) and Vieira Costa Gomes – Sociedade de Advogados RL (Portugal), as well as management consulting and dissemination experts - ARTTIC Innovation GmbH (Germany).



For further information:

Website: Will be launched soon

LinkedIn: [POWERBASE project](#)

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