



RE-EMPOWERED

Renewable Energy EMPOWERing
European & InDIan Communities

Deliverable 9.2: Reports on Activities and events



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EXECUTIVE SUMMARY

This document outlines the communication and dissemination activities and events of the RE-EMPOWERED project that took place over its 42-month duration. In total, the project was promoted in around 80 events/activities (conferences, webinars, workshops etc) in EU and India. 10 scientific journal and 16 scientific conference papers were published in the framework of RE-EMPOWERED. The project was also featured in the Indian and Greek press several times.

Additionally, results from the use of social media, website and other media for the project promotion are presented. Total views and engagements for the 42 months of the projects account for about 127.000 and 30.000 respectively.

The promotional material included brochure, poster and roll-up. Three project videos were created, featuring footage from the 4 demo-sites in EU and India. Another video demonstrates the use of ecoCommunity tool mobile phone application. One more video was produced by ENLIT in which the project is presented by ICCS-NTUA. Participation in the Horizon Results Booster service, in cooperation with the sister project SUSTENANCE, led to the creation of additional dissemination material.

A RE-EMPOWERED related publication received the best conference paper award in the IEEE Power & Energy Society General Meeting held in Orlando in July 2023 .

Lastly, the final event of RE-EMPOWERED was held in collaboration with SUSTENANCE project in the framework of MedPower 2024 conference in Athens. The event was attended by more than 30 participants, including representatives from industry, the Greek Regulatory Authority for Energy and water, and academic institutions.

KEYWORDS:

Reports on Activities and events, Communication channels, Project website, Social media, Newsletters, Project synergies, Communication activities, Dissemination, Engagement activities, Project demonstrations, Final event, Publications.

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Acronyms

Acronym	Description
CE4EUI	Clean Energy for EU Islands
CIRED	International Conference on Electricity Distribution
D	Deliverable
DAFNI	DAFNI – Network of Sustainable Greek Islands
DATA	Dissemination Actions and Target Audiences
DERlab	European Distributed Energy Resources Laboratories Association
DST	Department of Science and Technology (India)
EC	European Commission
ETIP SNET	European Technology & Innovation Platforms Smart Networks for Energy Transition
EU	European Union
HRB	Horizon Results Booster
FEDARENE	European Federation of Agencies and Regions for Energy and Environment
GA	Grant Agreement
GDPR	General Data Protection Regulation
H2020	Horizon 2020
IEEE	Institute of Electrical and Electronics Engineers
IEEE INTELEC	IEEE International Communications Energy Conference
IEEE PES	IEEE Power & Energy Society
IPST	International Conference on Power Systems
ISGT	Innovative Smart Grid Technologies
ISUW	Indian Smart Utility Week
M	Month
MDPI	Multidisciplinary Digital Publishing Institute
NII	Non-Interconnected Islands
PV	Photovoltaics
Q & A	Questions and Answers
RD&I	Research, Development and Innovation
RE-EMPOWERED	Renewable Energy EMPOWERing European and Indian communities
RES	Renewable Energy Resources
SET	Strategic Energy Technology
SM	Social Media
SmartRUE	Smart Grids Research Unit ECE NTUA
WG	Working Group
WP	Work Package

1 Introduction

1.1 Purpose of the document

This document reports the communication and dissemination activities and events of the RE-EMPOWERED project that were carried out during the 42 months of the project. The Communication and Dissemination Plan submitted on M9 defined a set of potential activities to be carried out during the project. Most of the proposed activities such as activities with EU bodies and initiatives, collaborations with other EU projects and working groups and participation in selected conferences were effectuated. This deliverable was prepared in the framework of Task 9.1 Dissemination and Communication Activities.

The dissemination and communication activities were coordinated and managed by DAFNI, with the support of the European coordinator ICCS-NTUA. The project partners disseminated the RE-EMPOWERED results via their communication channels and other activities including conferences, journal publications, and other public events ensuring that the project activities were broadly made public in Europe and India.

1.2 Structure of the document

This document is sectioned into 7 chapters including the introduction and conclusions. The main content of the report is developed in Chapters 2 to 6 starting with an overview of the communication and dissemination activities (Chapter 2). In Chapter 3, the analytics- results from the promotion of RE-EMPOWERED on the project's website and social media channels are provided. In Chapter 4, the produced communication and dissemination material is presented. Moreover, in Chapter 5, synergies with other projects and initiatives are analyzed. Additionally, the outcomes of the Final event at MedPower 2024 are presented. Finally, the 7th Chapter summarizes the main conclusions, while the project's communication material (brochure, poster, roll-up) and the list of activities are attached in the Annex.

2 Dissemination and Communication activities

In this section, an overview of dissemination and communication events is provided classified per type (conferences, publications, fairs and forums, workshops).

2.1 Conferences

RE-EMPOWERED has been presented in about 30 conferences in Europe and India. **Selected** events are elaborated in this section. A full list of events is available in the Annex.

1. *International Microgrids Symposium*

ICCS-NTUA & Imperial College London (ICL) disseminated the project's results in December 2024 at Puerto Rico 2024 Symposium on Microgrids which was attended by approximately 100 people from industry and academia.

On December 5th 2024, Alexandros Chronis presented the “Latest developments in the Gaidouromantra Microgrid in Kythnos” in Europe and Africa Sessions. Moreover, during the Special session on Inter-regional cooperations with Europe on microgrids, Alexandros Chronis presented the RE-EMPOWERED project and Sai Pavan Polisetty, presented ecoCommunity and ecoEMS tools that have been developed in the framework of the project.

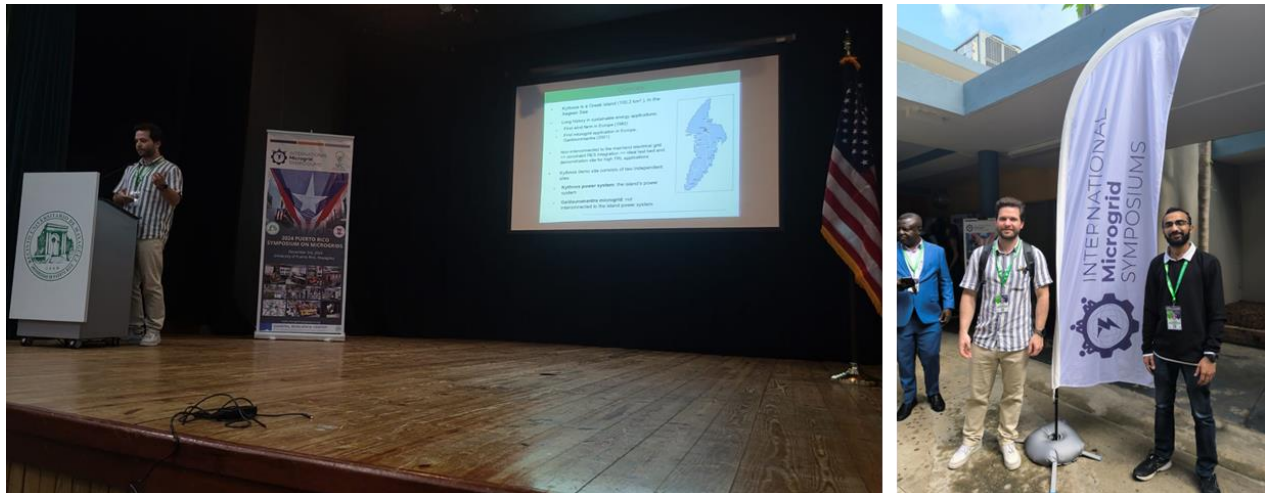


Figure 1 RE-EMPOWERED delegation at Puerto Rico 2024 Symposium on Microgrids

2. International Conference & Exhibition on Smart Energy and Smart Mobility at Indian Smart Utility Week, 2022, 2023 and 2024



Figure 2 Presentation by: ICCS-NTUA at the ISUW 2023 event, (top right) and IIT-BBS at the ISUW 2024 event (left, bottom right)

For three consecutive years, RE-EMPOWERED project was disseminated at the [Indian Smart Utility Week](#) (ISUW) held in New Delhi. In the online event of 2022, the project was introduced to the audience while an overview of the first results was given.

In the physical event of 2023, together with sister project SUSTENANCE, E-LAND and IEletrix an EU-India workshop was held, during which the importance of local energy systems and the combination of energy vectors were discussed. The event was attended by ICCS-NTUA.

Lastly, in the 2024 event, where IIT-BBS represented the project, the focus was given on the developed ecotools and their implementation in the four demo sites. A poster of RE-EMPOWERED was also featured at the EU-India booth.

3. International Conference on Power Systems (IPST)

RE-EMPOWERED project was presented by ICCS-NTUA during the International Conference on Power Systems (IPST 2023) which was organised in Thessaloniki, Greece. During the presentation the objectives of the project, the overview of the demo sites along with stability issues in Gaidouromantra microgrid have been presented.



Figure 3 RE-EMPOWERED at IPST 2023

4. IEEE INTELEC in Bengaluru

As part of the 41st edition of IEEE International Communications Energy Conference (INTELEC), held Dr. Srinivas Bhaskar Karanki (IIT BBS) represented RE-EMPOWERED. INTELEC 2024 continues to be the world-class technical and information exchange forum that deals with critical power and energy storage applications, including information and communications technology networks, power distribution, renewable energy generation, and transportation electrification. Dr. Srinivas Bhaskar Karanki has been invited as a young professional to deliver the talk as part of INTELEC 2024.

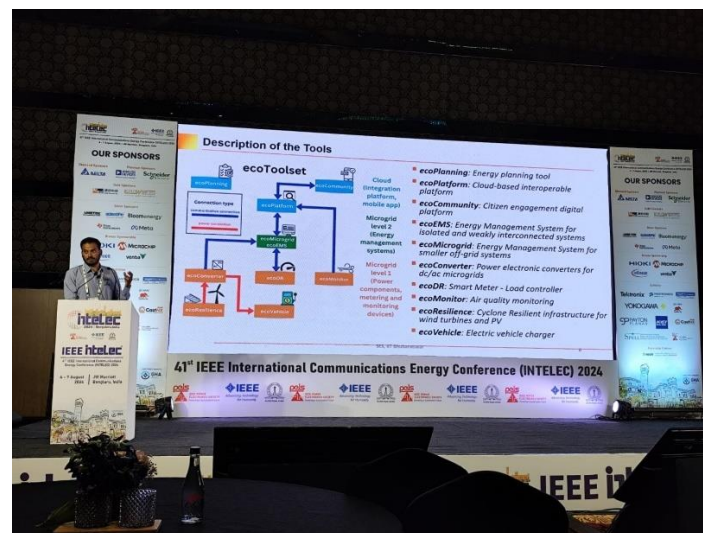


Figure 4 Dr. Srinivas Bhaskar Karanki at INTELEC 2024

5. IEEE Power & Energy Society General Meeting

With both ICCS-NTUA and ICL present, the project was disseminated during IEEE Power & Energy Society General Meeting held in Orlando, Florida in July 2023.

Professor Hatziaargyriou during an insightful panel session entitled 'High Renewable Energy Penetrations within Isolated and Remote Area Power Systems' highlighted the strong European-

Indian collaboration for the electrification of energy islands that has been established in the framework of RE-EMPOWERED.

Xi Luo (part of the Imperial College London team) presented RE-EMPOWERED paper “*Modeling of DC-Side Dynamics in PV/Battery Grid-forming Inverter Systems*” work in the Best Paper Session entitled “Advancements in Power System Generation, Transmission, and Distribution” and Poster Session. The paper, **selected as one of the Best Conference Papers**, is a joint work of ICL and ICCS-NTUA.



Figure 5 Xi Luo (ICL) and Professor Nikos Hatziargyriou (ICCS-NTUA) at IEEE PESGM

6. Sustainable Places (SP) 2023 and 2024

DAFNI presented the progress project in 2023 and 2024 in the EU Geographical Islands as Leaders of Green Energy Transition session. The sessions were joined by other EU projects working on EU islands, INSULAE, REACT, NESOI, IANOS, MAESHA, ISLET, LocalRES, STEP-WISE, SINNOGENES and SMHYLES.



Figure 6 Participation in 2023 and 2024 Sustainable Places events

7. VI National Renewable Energies Congress of Spain

On November 30th and December 1st, 2022, APPA Renovables, the Spanish Association of Renewable Energy Companies, organized the VI National Renewable Energies Congress in Madrid, Spain. Deloitte attended the VI National Renewable Energies Congress of Spain, and had the opportunity to present the RE-EMPOWERED project during the networking sessions.



Figure 7 VI National Renewable Energies Congress 2022

8. International Renewable Energy Conference (SPIREC) in Spain

SPIREC is an international high-level policy event, where decision-makers from across society come together to meet and discuss policies and experiences. It focuses on building collective know-how to advance renewables at the international, national and sub-national levels. SPIREC brings together high-level representatives of governments, the private sector, academia, and civil society. The event is a unique opportunity to create conversations about ways to achieve an energy system that supports sustainable development and climate objectives, particularly in the current energy crisis, concerns over global supply chains and the need to accelerate progress towards climate neutrality. Deloitte attended SPIREC, and presented the RE-EMPOWERED project during the event.

2.2 Meetings with Government Stakeholders and Representatives (India)

14th Clean Energy Ministerial and 8th Mission Innovation meeting (CEM14/MI-8)

Under the aegis of CEM14/MI-8, the Government of India organized a Technology & Cultural Showcase on the side-lines of the G20 Energy Transition Ministerial Meeting (ETMM) in Goa in July, 2023 (Figure 8). In the RE-EMPOWERED booth, more than 2000 people visited and learned about the project and prototypes, mostly from industry and research institutes. Overall, the event

was attended by stakeholders from industry, institutes and ministries.



Figure 8 RE-EMPOWERED booth at CEM14/MI-8

3rd Education Working Group of G20 in Bhubaneswar

The project was promoted at the 3rd Education Working Group, meeting of G20 which took place in Bhubaneswar in April 2023 (Figure 9). The project was represented among other IIT BBS projects with the RE-EMPOWERED roll-up being placed in the IIT BBS exhibition booth. The event fostered interactions between Academia, Industry, Edutech Leaders and Foundations.

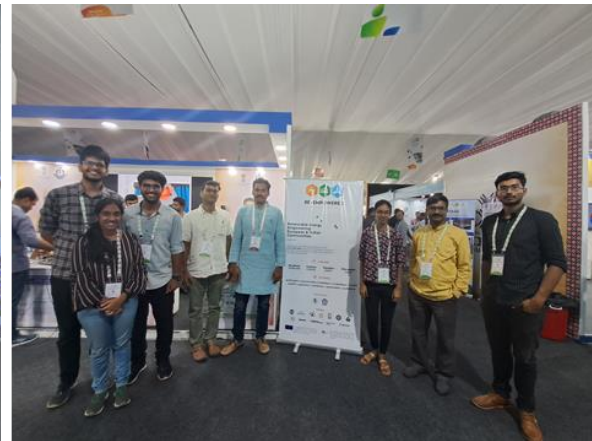


Figure 9 3rd Education Working Group, meeting of G20

2.3 Participation at student fairs and educational activities

NTUA Researcher's night 2022 and 2023

The Electric Energy Systems Laboratory of ICCS-NTUA was present at the 2022 and 2023 NTUA Researcher's Night in Athens, Greece. The NTUA Researchers' Night aims to bring research and researchers closer to the general public, promote excellent research projects across Europe and beyond and increase the interest of young people in science and research careers. The visitors were informed about RE-EMPOWERED objectives, tools, demo sites and related activities through lively discussions and online demonstrations.

Athens Science Festival

RE-EMPOWERED also participated in Athens Science Festival, a festival devoted to Science and Innovation since 2014, an established cultural landmark in the field of Science, Technology, Innovation and Art in Greece! During the festival, attendees were informed about the novel technologies that aim at the development of smarter microgrids for wider uptake of renewable energy and increased energy efficiency.



Figure 10 RE-EMPOWERED at Athens Science Festival

IEEE Western European Students and Young Professional congress

On 17th of September, the project was presented by ICCS-NTUA during IEEE Western European Students and Young Professional congress that took place at École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. The presentation was followed by a productive discussion panel in which topics such as electromobility, recycling, battery energy storage systems, renewable energy production and the role of citizens to the fight against climate change have been discussed. Two webinars have been also organized in cooperation with Indian IEEE student branches

RE-EMPOWERED Indian demo sites used in student projects

The RE-EMPOWERED Indian demo sites Ghoramara island and Keonjhar, were also used as case studies for the student projects of the Off-Grid Energy Systems course of the Technische Hochschule Ingolstadt (THI) University. Under the guidance of Prof Daniel Navarro Gevers (THI) two groups of students (one for each demo-site) worked in the last months to suggest an energy plan for the demo-sites. The analysis considered the local available resources (sun and wind), load estimation and equipment prices, among other, and came up with concrete suggestions for the sizing of the 2 off-grid systems. This was a great example of project-based learning and student team-work.



Figure 11 Case study at THI University (left), team of students participating in the activity

2.4 Fairs, Forums and Festivals

Folkemødet – Danish Democracy Festival

In June 2024, BEOF attended the Danish Democracy Festival “Folkemødet” with BEOF, representing the project RE-EMPOWERED.

With more than 2000 political events created by 650 different organizations, the Democracy Festival of Denmark has become an important democratic event with the purpose of creating informal meetings and dialogue between decision-makers and citizens. Over 50,000 citizens, parliamentarians, NGOs, business representatives and grassroots gather to debate our society and celebrate our democracy during the three-day festival in June. BEOF arranged an event in which, based on the concept of human library, each representative had undertaken a topic/project and visitors of the “library” could borrow a person for an interesting talk about a certain topic. BEOF represented RE-EMPOWERED and had great talks with various people about the project and the importance of integrating renewable energy sources in all parts of the world.



Figure 12 RE-EMPOWERED at Folkemødet

GENERA International Energy and Environment Fair in Spain 2023 and 2024

GENERA is an international energy fair, one of the most relevant events related to renewable energies, energy storage and energy efficiency in Spain. This event, celebrated yearly, brings together professionals of consultancy, engineering, construction, and commerce, including Industrial Energy Users, Equipment Manufacturers and Distributors, Installers and Maintenance Companies, Energy Project Developers, Universities and Research Centers, Prescribers and Real Estate Developers, Public Administrations and, in general, all professionals who work in energy efficiency and renewable energy fields. The events attracted stakeholders from China, Germany, Italy, Turkey, the Netherlands, and the USA. France, Portugal, Belgium and Italy. Deloitte attended the GENERA 2023 and 2024 events and presented the RE-EMPOWERED project during the event.

Covenant of Mayors Investment Forum 2022

Deloitte attended the Covenant of Mayors Investment Forum, and had the opportunity to present the RE-EMPOWERED project during the networking sessions.

The Covenant of Mayors Investment Forum – Energy Efficiency Finance Market Place is an annual conference showcasing successful projects on financing energy efficiency, climate adaptation and innovative energy planning, as well as initiatives working across Europe to facilitate the market for climate and sustainable energy finance. The event was attended by 358 people, including representatives from the European Commission, the Covenant of Mayors, Energy Cities, Eurocities and the European Investment Bank, municipalities, NGOs, universities and private companies.



Figure 13 Deloitte at Covenant of Mayors investment forum representing RE-EMPOWERED

2.5 Workshops

RE-EMPOWERED partners organized the following workshops with main topic the local manufacturing of wind-turbine by students in Indian and Greek universities.

- *Online Workshop on Locally Manufactured Wind Turbines For Empowering Rural India by CSIR-CMERI and ICCS-NTUA (February 2023)*
- *“Small wind turbine manufacturing” workshop organised by NTUA in Athens (October 2022)*
- *Small wind turbine manufacturing workshop in India organized by CMERI and supported by ICCS-NTUA (September 2024)*

The workshops were attended by students (doctoral/graduate/undergraduate engineering students), practicing engineers from industry, faculty members in the fields of electrical/mechanical/aeronautical engineering) were an opportunity to disseminate the project but also go further with the transmission of the technical knowledge gained through it. The wind turbine manufactured by NTUA students has been installed at Gaidouromantra/Kythnos and maintained (some months later) with the active involvement of NTUA students. The wind turbine manufactures at CMERI (India) will be deployed in Ghoramara.

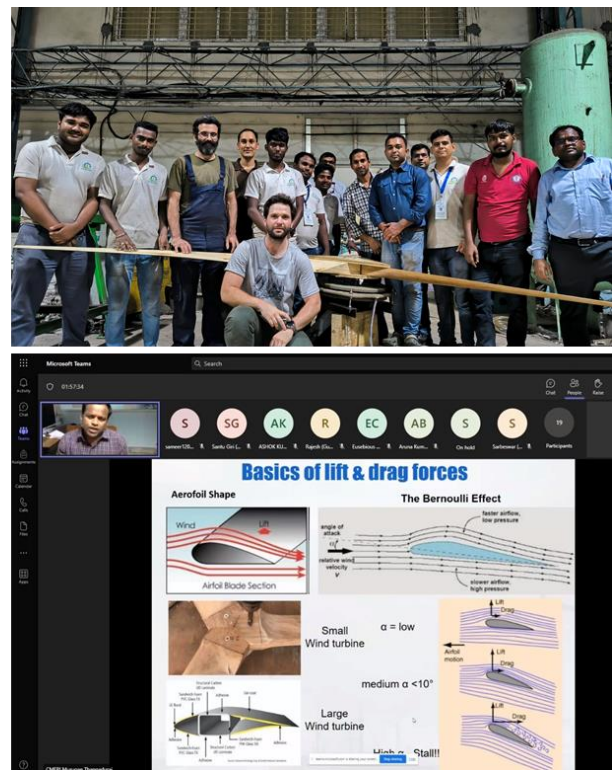


Figure 14 Physical workshops in Greece (left) and India (top-right), online workshop (bottom-right)



2.6 Publications

Three types of publications are identified: scientific journal, scientific conference and non-scientific publications

1. Scientific journal papers

Table 1 Scientific journal papers

Paper title (Linked)	Journal	Involved Partner(s)	Date of publication
Development of Microgrids for Rural Electrification in India: The Case of Keonjhar	ELECTRA	ICCS-NTUA, IIT-BBS, CSIR-CMERI	December 2024
EU geographical islands as leaders of green energy transition	Open Research Europe	ICCS-NTUA, DAFNI	4 December 2024
Performance Evaluation of MLI based DVR in Grid fed EV Fast Charging Station	IEEE Transactions on Energy Conversion V.39, Issue 1, March 2024	VNIT	12 October 2023
Business Model Selection for Community Energy Storage: A Multi Criteria Decision Making Approach	Energies. 2023; 16(18), p.6753	IIT-KGP, ICCS-NTUA	21 September 2023
An investigation of factors affecting Fast-Interaction Converter-driven Stability in Microgrids	Electric Power Systems Research Volume 223, October 2023	ICCS-NTUA	2 July 2023
A Droop based Adaptive Power Management System for Energy Storage Integration to DC Grid using a Modified Dual Active Bridge Converter.”	IEEE Journal of Emerging and Selected Topics in Power Electronics, Vol.11, April 2023	IIT-BBS	28 November 2022
Performance analysis and comparison of various techniques for short-term load forecasting	Energy Reports, Volume 9, Supplement 1, March 2023	VNIT	18 November 2022
An SOC Based Adaptive Energy Management System for Hybrid Energy Storage System Integration to DC Grid	Electric Power Systems Research, Volume: 59, Issue: 1, Jan.-Feb. 2023	IIT-BBS	10 October 2022
Greek Islands' Energy Transition: From Lighthouse Projects to the Emergence of Energy Communities.	Energies 2022, 15	ICCS-NTUA	18 August 2022
Weather classification-based load and solar insolation forecasting for residential applications with LSTM neural networks	Electrical Engineering	VNIT	28 September 2021



2. Scientific conference papers

Table 2 Scientific conference papers

Paper title (Linked)	Conference	Involved Partner(s)	Date
Evaluating Microgrid Controllers Using an Advanced Hardware-in-the-Loop Testing Chain Integrated with Digital Twin Technology	MED POWER 2024	ICCS-NTUA	3-6 November 2024
MIMO Impedance Modelling Of Grid Following Inverter With Local Voltage Control	MED POWER 2024	ICCS-NTUA, ICL	3-6 November 2024
Stability Boundary Analysis Of Grid forming And Grid-Following Inverters	MED POWER 2024	ICCS-NTUA, ICL	3-6 November 2024
Smart Meter-based Outage Detection and Fault Location in a Microgrid in Gaidouromantra	MED POWER 2024	IISc, ICCS-NTUA	3-6 November 2024
A Dual-Active-Bridge Based Four-Port Bidirectional DC-DC Converter for Renewable Energy Integration	11th National Power Electronics Conference (NPEC)	IIT-BBS	14-16 December 2023
Co-Optimization of Electrical and District Heating Networks: Bornholm Case Study	CDC 2023	ICL, DTU	13-15 December 2023
Stabilization of DC Bus Voltage of an Isolated DC Microgrid" in 2023 IEEE 8th Southern Power Electronics Conference (SPEC)	2023 IEEE 8th SPEC	IIT-BBS	26-29 November 2023
Black-start of microgrids: Insights based on demonstration sites in Europe and India	ISGT 2023	DTU, ICCS-NTUA, VNIT	23-26 October 2023
Modelling of DC-Side Dynamics on PV/Battery Based Grid-forming Inverter System	IEEE PES GM 2023	ICL, ICCS-NTUA	16-20 July 2023
An investigation of factors affecting Fast-Interaction Converter-driven Stability in Microgrids	IPST 2023	ICCS-NTUA	12-15 June 2023
Deployment Of Forecasting Tools In Diverse Demonstration Areas To Improve Energy Scheduling Of Microgrids	CIRED 2023	DTU, ICCS-NTUA, VNIT	12-15 June 2023
PV-Supercapacitor Tri-port Converter for Frequency Response Services	IEEE PEDES, 2022	IIT-KGP, ICL	14-17 December 2022
A Complete Frequency Response Service Scheme using PV Supercapacitor Cascade Topology	IEEE ONCON 2022	IIT-KGP, ICL	09-11 December 2022
Irradiance Effect on the Bifaciality Factors of Bifacial PV Modules	IEEE ONCON 2022	IIT-KGP, ICL	09-11 December 2022
EU-India Collaboration for Smarter Microgrids: RE-EMPOWERED project	2022 IEEE PES ISGT-Europe	ICCS-NTUA, IIT-KGP	10-12 October 2022
A Comparative Analysis of Various Stochastic approaches for Short Term Load Forecasting	2022 ICONAT	VNIT	21-22 January 2022



3. Non-scientific publications

Non-scientific articles about RE-EMPOWERED were published in EU and Indian media. These are summarized in Table 1.

Table 3 Media publications related to RE-EMPOWERED

Date	Title	Link/Media
	RE-EMPOWERED: Smart RUE of ICCS-NTUA coordinates H2020 project on Microgrids in EU and India	ECE-NTUA
6 July 2021	RE-EMPOWERED: NTUA's Smart Rue coordinates the EU project for the knowledge transfer of successful EU microgrids in India (translated from Greek)	Energy Press
4 Feb 2022	West Bengal: Solar plant to take electricity to remote Ghoramara island	Times of India
July 2023	National Pilots Report	Green Powered Future Mission (GPFM) of Mission Innovation
20 March 2024	An energy community in India (translated from Greek)	EfSyn
30 July 2024	The microgrid of Gaidouromantra is getting updated (translated from Greek)	Energy Game

3 Dissemination and Communication channels

3.1 RE-EMPOWERED website

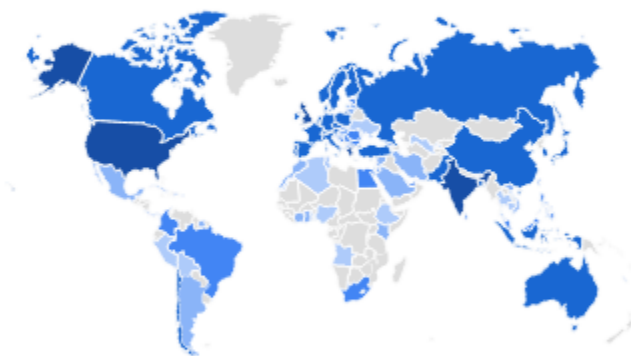
3.1.1 Content

The RE-EMPOWERED website was the main communication channel. Project information such as partners, pilots, ecotools and news were available since its launch. During the project, more sections were added including the [Library](#) where related publications are shared (scientific and public deliverables) and project videos (main page).

3.1.2 Analytics

The data regarding website views and usage are provided by Google analytics. The website, launched on 22nd December 2022. In total, 4590 users have visited the project website. The majority of them comes from the United States (1.106), India (922) and Greece (669). The top 7 countries are depicted in Figure 15. The website counts 14700 views and 232 downloads. All the analytics, including clicks, engagements are presented in Figure 16. It is worth noting that users from 101 countries have visited the website. The most visited page was the main page (3828 views), followed by the library section (1052), project information (723), Kythnos (459 views) and Bornholm (447 views) demosites and ecoTools. Top 10 of most visited sub-pages list is shared on Figure 17.

Active users▼ by Country



COUNTRY	ACTIVE USERS
United States	1.1K
India	922
Greece	669
United Kingdom	275
Denmark	226
Netherlands	131
Germany	130

[View countries](#) →

Figure 15 Website data provided by Google Analytics (period 22.12.21- 16.12.24)

<input type="checkbox"/>	Event name	+	↓ Event count	Total users	Event count per active user
<input type="checkbox"/>	Total		45,178 100% of total	4,582 100% of total	9.86 Avg 0%
<input type="checkbox"/>	1 page_view		14,700	4,561	3.22
<input type="checkbox"/>	2 user_engagement		12,308	2,581	4.82
<input type="checkbox"/>	3 session_start		7,834	4,546	1.72
<input type="checkbox"/>	4 scroll		4,831	1,770	2.73
<input type="checkbox"/>	5 first_visit		4,548	4,546	1.00
<input type="checkbox"/>	6 click		723	262	2.77
<input type="checkbox"/>	7 file_download		232	84	2.76
<input type="checkbox"/>	8 view_search_results		2	1	2.00

Figure 16 Analytics regarding user engagement, views and other metrics

<input type="checkbox"/>	Page path and screen class	+	↓ Views	Active users	Views per active user	Average engagement time per active user	Event count
<input type="checkbox"/>	Total		11,627 100% of total	3,982 100% of total	2.92 Avg 0%	49s Avg 0%	36,470 100% of total
<input type="checkbox"/>	1 /		3,828	1,851	2.07	21s	12,460
<input type="checkbox"/>	2 /news/		1,052	324	3.25	59s	3,150
<input type="checkbox"/>	3 /library/		723	255	2.84	1m 03s	2,198
<input type="checkbox"/>	4 /the-project/		577	347	1.66	33s	1,598
<input type="checkbox"/>	5 /pilots/kythnos/		459	321	1.43	52s	1,611
<input type="checkbox"/>	6 /pilots/bornholm/		447	269	1.66	50s	1,532
<input type="checkbox"/>	7 /ecotools/		308	156	1.97	55s	897
<input type="checkbox"/>	8 /partners/indian-institute-of-technology-bhubaneswar/		279	235	1.19	8s	962
<input type="checkbox"/>	9 /contact/		224	180	1.24	20s	637
<input type="checkbox"/>	10 /pilots/ghoramara/		217	158	1.37	40s	665

Figure 17 Most visited sub-pages of RE-EMPOWERED website

3.2 Social media and platforms

The daily project updates were mostly shared on LinkedIn and X (formerly Twitter) while YouTube hosted the 4 project videos. Relevant project presentations were hosted in Zenodo while GitLab was used as a code-sharing platform.

3.2.1 LinkedIn

From the launch of LinkedIn account on 22 December 2021 until 14 December 2024, 98 posts have been shared. As of 14 December, 786 people follow the page. In total, about 105.000 impressions are accounted. Total engagements are accounted at 17877. The following table shows the distribution of engagement per type.

Table 4 Engagement metrics, LinkedIn account

Metric	Value
Likes	3187
Clicks	14405
Shares	268
Comments	17

3.2.2 X (Twitter)

Since Twitter turned into X in July 2022, the availability of user data has changed. As a result, no data regarding profile visits are available anymore for non-premium users. The 77 posts (including 3 reposts) have been viewed 6912 times and have received about 500 engagements.

3.2.3 YouTube

YouTube channel was launched in the 3rd year of the project in order to host RE-EMPOWERED videos. 4 videos were uploaded from the channel, while 2 more videos created by the Horizon Results Booster and ENLIT were added to the playlist.

Table 5 Video statistics

Video	Views
EU Demosites	65
India Demosites	176
ecoCommunity tool	66
Small Wind turbine installation in Kythnos Island	120
ENLIT channel: Site visit: Electric Energy Systems Laboratory - National Technical University of Athens	671
Horizon Results Booster: SUSTENANCE & RE-EMPOWERED joint dissemination video	9

3.3 Newsletter

Six RE-EMPOWERED bi-annual newsletters (Table 6) have been released, featuring all the main project updates. Newsletters were forwarded to subscribers¹ and shared on website and social media. In total, the 6 newsletters have been viewed 4600 times (estimations based on Mailchimp data and social media).

¹ subscription possible via RE-EMPOWERED website

Table 6 List of RE-EMPOWERED newsletters

Issue (+link)	Date
1	17 March 2022
2	30 September 2022
3	31 March 2023
4	30 September 2023
5	2 April 2024
6	13 December 2024

3.4 Other communication channels

[Zenodo](#) was used to publicly share general material of the project, and specifically presentations that mainly aim to give an overview of the project. The [Zenodo page](#) has as of 8/12/24 244 downloads and 402 views.

[Gitlab](#) was used to upload the [code of ecoPlatform-A \(DTU\)](#) in an effort to promote the use of open-source code (No statistics data about downloads are offered from the platform).

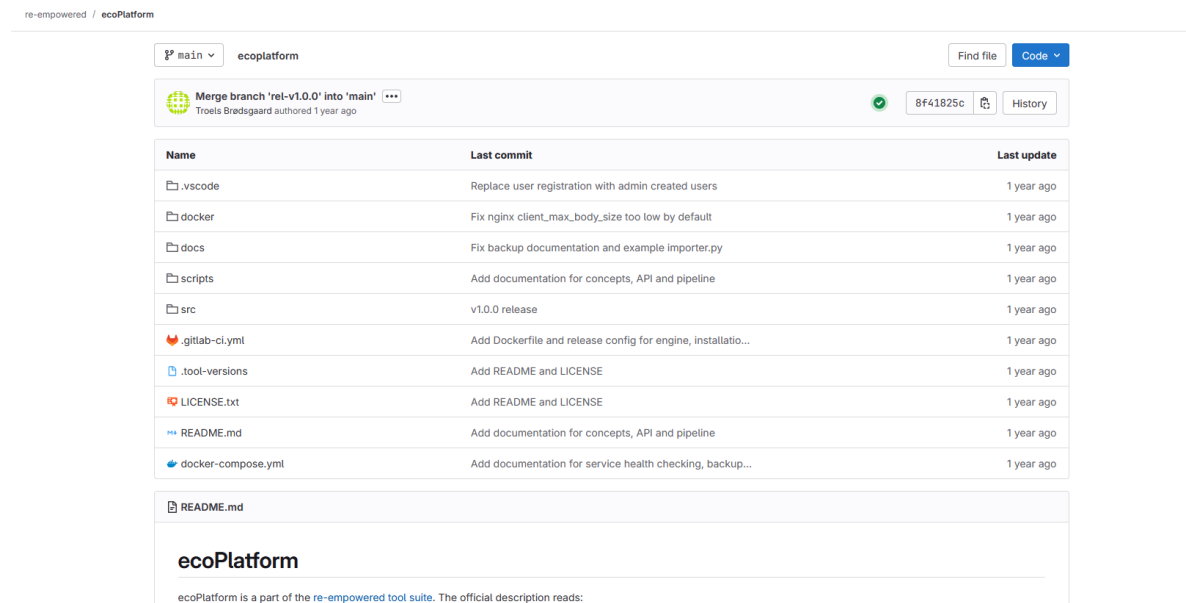


Figure 18 ecoPlatform -A code in Gitlab

4 Dissemination and Communication material

4.1 Brochures, Poster and Roll-up

To promote RE-EMPOWERED in digital events a brochure (attached in the Annex A), a poster and a roll-up have been produced. The brochure includes a description of the project, the key features, the pilots, the objectives and ecoTools and the consortium. Throughout the project, the brochure has been updated to include new communications channels (Zenodo, YouTube) that were created during the project and integrate the changes in the names of the LinkedIn and X accounts.

In the beginning of the project, the European project coordinator ICCS-NTUA printed and distributed 50 copies of the brochure to each partner.

Another 8-page brochure in Greek was prepared as a manual for the users of ecoCommunity application in Kythnos demosite (see Annex B). The brochure was printed and distributed to the residents of Gaidouromantra demo-site.

The poster offers a visual presentation of the pilots, the ecoTools and objectives and partners and it has been used in conferences in EU and India. The poster is attached In Annex C.

The roll-up has similar content to the poster and was printed for use in physical events. The roll-up is exhibited In Annex D.

4.2 Sign placed in Gaidouromantra system house

A sign claiming EU and India DST funding has been placed outside the system house in Gaidouromantra in Kythnos pilot. The sign was designed printed and placed on the site by DAFNI. Figure 19 illustrates the sign while depicts it on the demosite.



Figure 19 Sign Placed in Gaidouromantra

4.3 Videos

Four project videos have been produced serving different purposes. The videos have been posted on the project's [YouTube account](#) and shared on website and social media.

- The [first video](#) shows the installation of the wind turbine (ecoResilience tool) in Gaidouromantra demosite. The wind turbine was manufactured during a workshop coordinated by SmartRUE - Smart Grids Research Unit ECE NTUA students from the electrical and mechanical engineering schools of NTUA.
- The [second video](#) demonstrates step by step the features of the ecoCommunity application providing guidance on how to use the tool.
- The other two videos, present the 4 demo sites; one is for the [Indian](#) and the other for the [EU sites](#). Both videos include a general presentation of the demo sites and footage from site visits.
- RE-EMPOWERED has been also mentioned in the [Enlit video](#) of the Site visit of Electric Energy Systems Laboratory (NTUA) which has more than 600 views on YouTube (Figure 22)
- Lastly, a video about SUSTENANCE and RE-EMPOWERED projects was created by the Horizon Results Booster service([Link](#))



Figure 20 System house in Gaidouromantra, where the sign has been placed



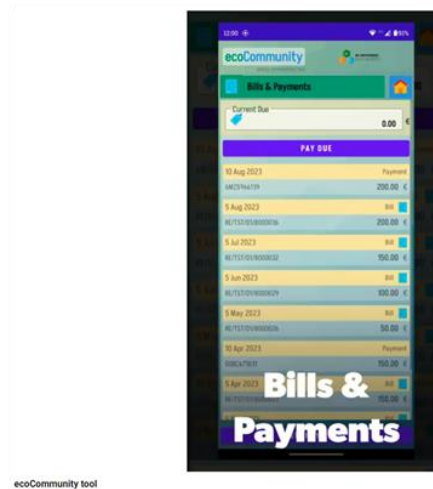
RE-EMPOWERED EU demosites



RE-EMPOWERED India Demosites



RE-EMPOWERED Project: Small Windturbine installation in Kythnos Island



ecoCommunity tool

Figure 21 RE-EMPOWERED videos, EU and India demosites (top), Installation of wind turbine in Gaidouromantra, ecoCommunity demonstration (bottom)



Site visit: Electric Energy Systems Laboratory - National Technical University of Athens



Enlit
1.35K subscribers

Subscribe

10



Share

Download

Clip

Save



665 views 1 year ago NATIONAL TECHNICAL UNIVERSITY OF ATHENS
Enlit on the Road visited the Electric Energy Systems Laboratory at the National Technical University of Athens.

For the last 30 years, the laboratory has been doing research for the integration of distributed resources to the power system. The research has been funded mainly by the European Commission, 1...more

Figure 22 RE-EMPOWERED at ENLIT video

5 Synergies with other projects and initiatives

5.1 SUSTENANCE project

RE-EMPOWERED has hosted joint sessions with sister project [SUSTENANCE](#). Both projects share the same Horizon and DST Topic “Integrated local energy systems (Energy islands): International cooperation with India”. Common activities include:

- Joint panel session “International collaborative projects for the energy transition and rural electrification in India” during PowerTech 2023 in Belgrade.
- Meeting in India in February 2024: Both consortia visited India for site visits. In this framework a joint session was organized in IIT Bombay in order to exchange experiences and lessons learnt. The event was concluded with a poster session and networking time among the partners of the 2 sister projects.
- National workshop on Integrated Local Energy Systems in Vishakhapatnam, India. Researchers from the 2 projects attended the event as well as Indian DST representatives
- Joint session at [MEDPOWER 2024 conference](#) in Athens “EU-India collaboration for smarter energy systems” (more details in Section 6)



Figure 23 Selected synergies with SUSTENANCE project

5.2 Clean Energy for EU Islands

The project has established a strong connection with [Clean Energy for EU Islands](#) (CE4EUI) initiative which has been demonstrated in different ways:

- **Panel presentation** in 2022 and 2024 forums in Rhodes and Pantelleria by ICCS-NTUA and DAFNI respectively. In the first forum, the 4 pilots and foreseen activities were presented ([link](#)), while in the 2024 event, the project was showcased in 2 sessions. The first one focused on the application of district heating in Bonrholm demosite as a best practice, while the second one demonstrated the application on the ecotools facilitating the demand-side management (ecoPlatform, ecoDR, ecoEMS, ecoMicrogrid and ecoCommunity).
- **Online Presentation** in the local seminar for Greek island applicants. The first part of the event, was on the topic of the call “**30 RES islands by 30**” of the [CE4EU](#). In the second part, useful tools for the island decarbonization developed by EU projects were featured with RE-EMPOWERED presenting the ecotool set.
- **Replication webinar for CE4EU islands:** DAFNI organized a webinar to present selected ecotools to the beneficiaries of [CE4EU](#) showcasing examples of potential replication of the RE-EMPOWERED solutions in their islands
- **Articles hosted in quarterly newsletters:** [CE4EU](#) every 3 months invites all the EU projects to send short articles with results and achievements that will be featured in their quarterly newsletters distributed via mail and on their website and social media channels. RE-EMPOWERED activities were featured 4 times ([link](#)).
- **Support through social media:** [CE4EU](#) has promoted the project, by reposting the project’s SM posts or sharing related posts



Figure 24 Presentations at CE4EU annual forum, 2022 (above) and 2024 (below)

5.3 European Technology & Innovation Platforms Smart Networks for Energy Transition (ETIP-SNET)

RE-EMPOWERED was presented by ICCS-NTUA during the 17th ETIP SNET Regional workshop for the Nordic and Baltic Region on 21 March 2023.

The overall purpose of this event was to present and align national and regional research, development and innovation (RD&I) to the RDI activities at the EU level. A brief presentation of the project (objectives, tools, demos) was provided, followed by an elaboration of the work on the Danish island of Bornholm demo site. The association of the objectives of the project with the High-Level Use Cases of the ETIP SNET Implementation Plan 2022-2025 was highlighted.



Figure 25 ICCS-NTUA at 17th ETIP SNET Regional workshop for the Nordic and Baltic Region

5.4 BRIDGE

From the beginning of the project, RE-EMPOWERED has been involved in several dissemination activities promoted by [BRIDGE](#). These include:

- (online) presentation by ICCS-NTUA at the 2022 GA, as a new [BRIDGE](#) project
- physical attendance of 2023 GA by DAFNI in Brussels
- contributions sent for quarterly newsletters one of which was selected for publication (link [here](#))
- presentation by ICCS-NTUA at the [BRIDGE](#) panel during 2023 ENLIT in Paris
- Joint session at Sustainable Places 2024 “EU Geographical Islands as Leaders of Green Energy Transition”. In the event, apart from BRIDGE, another 9 projects participated (NESOI, REACT, LocalRES SINNOGENES, SMHYLES, ISLET, IANOS, MasterPiece, Step-Wise) .
- featured in the annual brochures of [2024](#) (3 dedicated pages) and [2023](#) (2 pages)



Figure 26 Collaboration with BRIDGE projects at Enlit and at Sustainable Places

5.5 Horizon Results Booster

RE-EMPOWERED received support for exploitation of final results by [Horizon Results Booster](#) (HRB) under Module B (Portfolio Dissemination Plan). In this framework, collaboration additional dissemination material was created. In view of the joint event at Medpower 2024 conference, the HRB service created a video and graphic material for both projects.

5.6 NESOI

RE-EMPOWERED was disseminated at the 1st [NESOI – New Energy Solutions Optimised for Islands](#) Erasmus Short Study Tour organized in Astypalea island with the support of the Municipality and RE-EMPOWERED partner DAFNI Network from 7 to 10 March. The study tour with the topic Energy communities and e-mobility was attended by local and national stakeholders and 10 selected participants from organisations (3 island agencies, 2 universities, 1 utility, 2 local authorities, 1 research organisation) of 5 EU countries (Croatia, Spain, Italy, Portugal, Greece).

ICCS-NTUA presented online the project overview including demonstration sites, objectives, the ecoTool set and a short summary of the achievements of the project so far.

The session was also joined by H2020 projects, INSULAE, DECIDE and eCREW.

RE-EMPOWERED poster was placed in the venue while project brochures were available for the participants.



Figure 27 Presentation at NESOI Study Tour

5.7 eNeuron

RE-EMPOWERED participated in the 15th DERlab Knowledge Day (November 2023), organized in cooperation with the EU project [eNEURON](#), on the topic of integrated local (multi-carrier) energy communities: concepts, projects, recommendations, and key aspects for implementation. During the workshop, an overview of energy communities, local energy markets and their importance in the democratization of the energy sector was outlined by ICCS-NTUA. The presentation was followed by a brief overview of the novel technological solutions that are developed in the framework of RE-EMPOWERED project and were to be tested in the four pilot sites, given by Panos Kotsampopoulos (ICCS-NTUA). Emphasis was given on to increasing flexibility to these networks and further promoting citizen engagement through the participation in demand side management schemes.

5.8 ERIGRID 2.0

RE-EMPOWERED projects results were disseminated during the [ERIGrid 2.0 Project](#) Summer School “Advanced operation and control of active distribution networks: 2nd Edition” which was held in Athens from 3rd to 6th of June. In particular the following were presented :

- The Gaidouromantra microgrid, Ghoramara microgrid and Keonjhar as part of the lecture “Microgrids as building blocks of smart grids”, performed by Prof. Nikos Hatziaargyriou
- ecoMicrogrid tool and its implementation in Gaidouromantra microgrid during “Microgrid primary and secondary control” lecture, given by Athanasios Vassilakis and Dr. Dimitris Lagos
- The laboratory testing of ecoMicrogrid during the lecture “Advanced laboratory testing of active distribution networks” delivered by Panos Kotsampopoulos and Alkistis Kontou

The event was attended by 25 participants from 5 EU countries from academia and industry.

6 Final event at MedPower

On the 5th of November the final event of EU-India RE-EMPOWERED project and its sister EU-India SUSTENANCE project, was organized in the framework of MEDPOWER24 conference.

The 14th Mediterranean Conference on Power Generation Transmission, Distribution and Energy Conversion (MEDPOWER24) was held in Athens from 3rd to 6th of November 2024. The event was organized by the [National Technical University of Athens](#), the [University of West Attica](#), IET Hellas, IET Cyprus, and the [Malta Group of Professional Engineering Institutions](#) (MGPEI) with the support of CIGRE Greece, [IEEE Region 8 Young Professionals](#) and IEEE Greece Young Professionals. The conference was attended by 276 participants from Europe, Asia and America!

The session entitled 'EU-India collaboration for smarter energy systems: RE-EMPOWERED and SUSTENANCE projects' was joined by more than 30 people coming from academia, system operators (DSO ([HEDNO](#)) and TSO([IPTO](#))), the Regulatory Authority for Energy Waste and Water ([RAEWW](#)), research centers, etc.

The session started with opening remarks from the President of [CIGRE](#) Konstantin Papailiou who is member of RE-EMPOWERED's advisory board, Bikash Pal from partner Imperial College of London and Petros Markopoulos from DAFNI, representing the [Clean Energy for EU islands secretariat](#).

In the main part, the results from the two projects were presented. A project overview was provided by EU project co-ordinator Panos Kotsampopoulos from ICCS-NTUA. The development of ecoMicrogrid, ecoEMS, ecoPlatform, ecoCommunity tools was elaborated by Athanasios Vasilakis and George Milionis from ICCS-NTUA and Aysegül Kahraman from DTU. Dr Srinivas Karanki from IIT-BBS provided video presentation overview of the Keonjhar microgrid activities. Footage from the 2 videos for Indian and EU demosites were projected, highlighting the project results.

Furthermore, SUSTENANCE coordinator Birgitte Bak-Jensen from Aalborg University, presented the activities of the project and their application in the 6 project demosites. Moreover, Krzysztof Rafal from the Polish Academy of Sciences discussed the industrial implementation of energy management systems in local communities.

Despina Koukoula from [HEDNO](#) and member of the International Advisory Board shared her views on the project results highlighting their importance from an industrial point of view.

At the end of the session a lively discussion took place in which the participants exchanged views on issues faced in other isolated power systems (non-EU) similar to the RE-EMPOWERED demo sites and how these can be resolved in a replicable manner.



Figure 28 Presentations during the RE-EMPOWERED final event at MEDPOWER 24

7 Conclusions

RE-EMPOWERED has been disseminated in around 80 events/activities in EU and India reaching a large audience. The events included scientific conferences, fairs, workshops, and events related to EU projects and initiatives. Moreover, through social media and websites, the project has been reached 113.000 times (based on impressions). 6 bi-annual Newsletters have been released, featuring the highlights of the latest project activities.

10 scientific journal and 16 scientific conference papers have been published, one of which received the best award at an important IEEE conference. The results of the project have been disseminated in both Indian ("Times of India") and Greek press.

A wide variety of promotional material has been produced in the framework of the project: brochure, poster and roll up. Four videos have also been created, while two more videos featured RE-EMPOWERED, accounting for a total of 1107 views. The videos were also projected during several occasions (e.g. project Final Event, ECOs conference, and exploitation and replication workshops).

Significant synergies have been established with the sister project SUSTENANCE, as well as the CE4EUI and BRIDGE. Overall, the project was widely disseminated to different types of audiences: scientific, general audience, municipal authorities, EU islands representatives, Indian government and EC delegates, members of the academia etc.

The final event, held in collaboration with the SUSTENANCE project in the framework of MedPower 24 conference, was successful as it was attended by important energy transition actors.

As for the future, after the project completion, the partners are encouraged to use any available communication material (roll-up, posters, brochure, videos) to demonstrate RE-EMPOWERED as a best practice and further promote its replicability.

Annex

A. RE-EMPOWERED Brochure



Figure 29 First (left) and last (right) pages

B. EcoCommunity User Manual (translated in Greek language)

Οδηγίες χρήσης εφαρμογής ecoCommunity

Διαχειριστείτε εύκολα την κατανάλωση ενέργειας σας προς όφελος του περιβάλλοντος με τη βοήθεια της εφαρμογής ecoCommunity!

www.reempowered-h2o2o.com

Πως :

Το ecoCommunity σας ενημερώνει για τη διαθεσιμότητα της ενέργειας προερχόμενη από ΑΠΕ, ώστε να προγραμματίσετε εγκαίρως τις καταναλώσεις σας.

Οφέλη για όλους!

- Ελέγχετε πότε υπάρχει διαθεσιμότητα κεραιών ενέργειας
- Κάνετε κράτηση ενέργειας όποτε την χρειάζεστε
- Ενημερώνεστε ανά πάσα στιγμή για την ενέργεια που έχει καταναλωθεί
- Συνεργείτε την κατανάλωσή σας με τους προηγούμενους μήνες ή και χρόνια
- Επικοινωνείτε απευθείας με τον διαχειριστή του συστήματος μέσω μηνυμάτων και αναφέρετε τυχόν προβλήματα
- Επικοινωνείτε με τους υπόλοιπους καταναλωτές μέσω φόρουμ και ενημερώνεστε για όλα τα θέματα
- Βασίζεστε στην βιωσιμότητα ενός αιώνα και ασφαλείας δικτύου, χωρίς διακοπές ρεύματος

Είσοδος χρήστη & Επεξεργασία δεδομένων

Αρχική οθόνη - Στοιχεία χρήστη

Εμφανίζεται μετά τη σύνδεσή σας. Πατώντας στο εικονίδιο του προφίλ σας που εμφανίζεται στο πάνω αριστερό μέρος μπορείτε να αλλάξετε το όνομα χρήστη και τον κωδικό, όπως και να επεξεργαστείτε όλα τα δεδομένα. Θα μεταφερθείτε στα Στοιχεία χρήστη, δηλαδή στη λίστα με τα στοιχεία σας, όπου μπορείτε να κάνετε ένα αλλαγή επιθυμίας. Όλα τα προσωπικά σας δεδομένα είναι ασφαλή, καθώς η εφαρμογή ακολουθεί όλους τους Ευρωπαϊκούς κανόνες για την προστασία των δεδομένων.

Επιλέξτε το δικό σας χρήστη (εμφανίζεται) και τον κωδικό πρόσβασης (εμφανίζεται) που σας έχει δοθεί

Κατανάλωση & Ιστορικό κατανάλωσης

- Δείτε την ενέργεια που καταναλώσατε κάθε ώρα της ημέρας (Πρόσφατη κατανάλωση).
- Δείτε και συγκρίνετε παλαιότερες καταναλώσεις σας. Ανοικτείτε πλήρη έλεγχο των καταναλώσεων σας!

Έλεγχος της κατάστασης του δικτύου

Τιμή ενέργειας

Δείτε ανά πάσα στιγμή αν το δίκτυο είναι υπερφορτωμένο ή όχι.

- Κόκκινη ένδειξη: Το δίκτυο πρέπει να καλύψει τις ανάγκες πολλών καταναλωτών
- Πράσινη ένδειξη: Δε χρησιμοποιούνται πολλοί καταναλωτές την διαθέσιμη ενέργεια

Συμβουλή! Αποφύγετε να χρησιμοποιείτε ενέργεια, αν δεν είναι πρωτεύοντα ανάγκη

Συμβουλή! Αυξήστε τις καταναλώσεις σας

Είσοδος χρήστη & Επεξεργασία δεδομένων

Κράτηση ενέργειας

- Αφού επιλέξετε τη μέρα θα σας εμφανιστούν οι διαθέσιμες ώρες (ένδειξη Διαθεσιμότητας). Επιλέγον εμφανίζονται οι ώρες που έχουν κρατηθεί από άλλους χρήστες (ένδειξη Μη Διαθεσιμότητας) και από εσάς (ένδειξη Κρατημένη). Επιπλέον, μπορείτε να δείτε και τα υπολοίπα κρατηθέντων σας από προηγούμενες ημέρες.
- Μπορείτε να κάνετε κράτηση για έως και δύο ημέρες μετά! Κάθε βράδυ στις 00:01 ανανεώνεται η λίστα με τις διαθέσιμες ώρες προς κράτηση. Όταν πιο νωρίς κάνετε την κράτησή σας, τόσο πιο σίγουροι θα είστε ότι θα βρείτε την ώρα που επιθυμείτε διαθεσιμότητα!

Τίπο! Όταν κάνετε κράτηση χωρίς την κράτηση σας βελτιώνει να γίνει καλύτερος προγραμματισμός από τον διαχειριστή και να υπάρχει διαθεσιμότητα ενέργειας για όλους!

Αναφορά προβλημάτων

Αναφέρετε τυχόν προβλήματα που υπάρχουν στο ηλεκτρικό δίκτυο ή ακόμα και στην εφαρμογή!

Αναφορά Νέου Προβλήματος

Επιλέγετε την ενότητα Προβλήματα και έπειτα Αναφορά Νέου Προβλήματος. Γράψτε ένα σύντομο τίτλο που περιγράφει το πρόβλημά σας, επιλέγετε την γενικότερη κατηγορία που ανήκει το πρόβλημά σας (Γύρος) και έπειτα περιγράφετε αναλυτικά ποιο είναι το θέμα που έχει προκύψει. Τέλος, κάνετε ηχογράφηση και αναμεινέτε την επίλυση του.

Τα μηνύματα στέλνονται απευθείας στον διαχειριστή του συστήματος ο οποίος είναι υπεύθυνος για την επίλυση τους.

Forum κοινότητας

Επικοινωνήστε με όλα τα μέλη της κοινότητάς σας!

Οφέλη για όλους!

- Επιλέξτε μια από τις διαθέσιμες κατηγορίες συζητήσεων (στο πάνω μέρος της οθόνης).
- Μπορείτε να δείτε όλες τις προηγούμενες αναρτήσεις που έχετε κάνει εσείς ή τα υπόλοιπα μέλη της κοινότητας
- Επιλέγοντας την ανάρτηση και κατόνιν Νέο Απάντηση, μπορείτε να σχολιάσετε προηγούμενες αναρτήσεις.
- Δημιουργήστε νέες αναρτήσεις επιλέγοντας Νέα Ανάρτηση και συμπληρώνοντας όλα τα πεδία (Τίτλος ανάρτησης - Κατηγορία συζήτησης - Περιγραφή ανάρτησης)

Socials

- RE-EMPOWERED
- RE-EMPOWERED EU India Project
- RE-EMPOWERED EU India Project
- contact@projectreempowered.unimicrosoft.com

Connect with us

- RE-EMPOWERED EU India project

Lead partners

OTU, ΕΠΙΧΕΙΡΗΣΗ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΡΕΥΝΑΣ, DAFNI, Deloitte, Imperial College London, PROTASIS

www.reempowered-h2o2o.com

C. RE-EMPOWERED poster

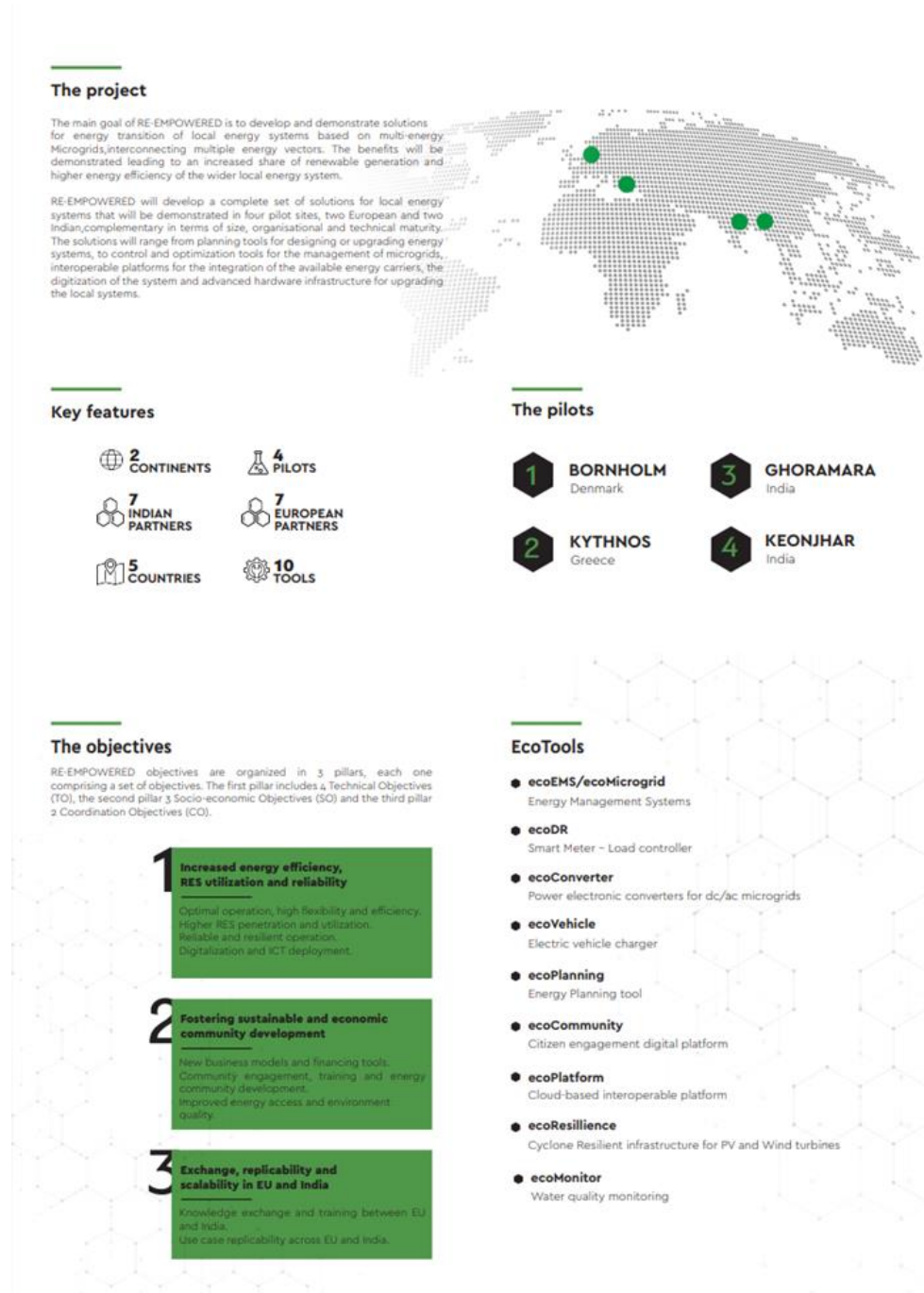


Figure 30 Main content (pages 2-5)



RE-EMPOWERED
Renewable Energy EMPOWERing
European & INdian Communities

RE-EMPOWERED will develop and demonstrate novel tools in EU and India to provide a complete solution for all stages of a Microgrid / Energy Island and Multi-Microgrid applications.



EcoTools

- | | |
|----------------|-----------------|
| 1 ecoEMS | 6 ecoMonitor |
| 2 ecoMicrogrid | 7 ecoCommunity |
| 3 ecoPlanning | 8 ecoResilience |
| 4 ecoDR | 9 ecoConverter |
| 5 ecoPlatform | 10 ecoVehicle |

**Increased energy efficiency,
RES utilization and reliability**

Fostering sustainable and economic community development

Exchange, replicability and scalability in EU and India

Partners:



The project has received funding from the European Union's Horizon 2020 Research and Innovation under Grant Agreement No. 101018160.



This project has received funding from the Department of Science and Technology (DST) under "India- EU Joint Call on Integrated Local Energy Systems"

www.reempowered-h2020.com

Figure 31 RE-EMPOWERED poster

D. RE-EMPOWERED Roll Up



Figure 32 RE-EMPOWERED roll-up



E. List of Events/Activities

Event No	Promoter Partner(s)	Date	Name of Event	Type of Event/Activity	Location	Comment	Type of audience	Approx size of audience
1	ICCS-NTUA	4 May 2021	RE-EMPOWERED: Renewable Energy EMPOWERing European and Indian communities	Web article	Online	Link to the event	ICCS-NTUA faculty, general	
2	ICCS-NTUA	6 July 2021	Translated from Greek: RE-EMPOWERED: NTUA Smart RUE co-ordinates EU programme for the knowledge transfer of successful European microgrids to India	Web article	Online, Greece	Link to the event	General audience	
3	ICCS-NTUA	6 July 2021	RE-EMPOWERED: Smart RUE of ICCS-NTUA coordinates H2020 project on Microgrids in EU and India	Web article	Online, Greece	Link to the event	ICCS-NTUA, NTUA faculty, general	
4	PROTASIS	9 July 2021	International Energy Exhibition of Greece – IEEG 2021- 5th Cretan Energy Conference	Conference	Crete	Roundtable presentation of the projects that PROTASIS participates	Energy experts, EU, Greek and Mediterranean area	



5	VNIT	28 September 2021	Weather classification-based load and solar insolation forecasting for residential applications with LSTM neural networks	journal	Electrical Engineering volume	https://link.springer.com/article/10.1007/s00202-021-01395-2		
6	ICCS-NTUA	19 October 2021	RE-EMPOWERED H2020 project coordinated by Smart RUE of ICCS-NTUA	News article	Online	Link to the event	ICCS-NTUA, NTUA faculty, general	
7	DelAdv	16-18 November 2021	GENERA 2021- International Energy and Environment Fair	Fair of Renewable Energy, Energy Efficiency and Environment	Madrid	DelAdv will attend the event, using the stand of a partner of another project (ANESE), and will present the RE-EMPOWERED project to all attendees and stands we will visit during the event.	General, mostly professional. Both national (Spanish) and International.	Potentially between 15,000 and 20,000 attendees overall (18,886 professionals in 2019). Several were informed about the project
8	DelAdv	16-18 November 2021	The Miss: a B2B Summit by Epower & Building "Getting to Zero"	Event which will be developed face-to-face and with a digital platform, along with GENERA.	Madrid	The event was much smaller than expected: a space next to GENERA 2021. The RE-EMPOWERED project was introduced to some attendees.	Building specialists, both national and international.	
9	DAFNI	22 December 2021	DAFNI members General Assembly	General Assembly	Online, Greece	The project was presented to DAFNI members (51 island municipalities and 4 regional authorities)	local authorities	30 attendants



10		4 February 2022	Times of India	magazine	online	West Bengal: Solar plant to take electricity to remote Ghoramara island		
11	DAFNI	24 February 2022	Post on website section EU projects: Greek and English version	Website post	Online, Greece	https://dafninetwork.gr/en/portfolio/re-empowered-project/	General audience	
12	ICCS-NTUA	2 March 2022	India Smart Utility Week 2022	Conference	Online	Link to the event	EU and India utility experts	2363 delegates. Many attended the presentation
13	ICCS-NTUA	22 March 2022	BRIDGE General Assembly	General Assembly	Online	RE-EMPOWERED was presented as a new H2020 project by Panos Kotsampopoulos	EU experts, participants in other H2020 projects	167 participants
14	ICL-NTUA	April 2022	closure meeting of JUICE project	project meeting	Online	Project presented by Chandan Chakraborty		
15	ICCS-NTUA	6 April 2022	DERlab General Assembly	General Assembly	Athens		members of DER lab	38 participants
16	DTU	13 May 2022	EU-India Roundtable	Webinar	Online	Webinar "EU-India Roundtable: Horizon Europe: "The case for energy and society transition"		
17	ICCS-NTUA	16 May 2022	ENLIT Website	Web article	Online	Project is listed in EU projects section of Enlit website	EU experts, participants in other H2020 projects	
18	ICCS-NTUA	18 May 2022	Clean Energy for EU Islands forum	EU event	Rhodes	EU Project coordinator Nikos Hatzigiorgiou presented the project during the session ACT: Balancing interconnections and energy storage for	EU island experts, authorities, Greek energy industry representatives, EU projects representatives	35 participants (on-site)



						the clean energy transition of islands		
19	ICCS-NTUA	25 May 2022	Malaviya National Institute of Technology (India)	Webinar	Online	EU Technical coordinator Panos Kotsampopoulos		23 participants
20	DelAdv	14-16 June 2022	GENERA 2022 Fair: International Energy and Environment Fair	Fair of Renewable Energy, Energy Efficiency and Environment	Madrid	DelAdv visited the event, and explained the RE-EMPOWERED project to all attendees who were interested in it. DelAdv visited specially the stands of ANESE and APPA, partners of DelAdv in other European countries.	General, mostly professional. Both national (Spanish) and International.	Around 25,000 attendees overall. Several were informed about the project
21	DTU, ICCS-NTUA	23-Jun-22	Technische Hochschule Ingolstadt	Lecture	Ingolstadt	The RE-EMPOWERED Indian demo sites Ghoramara island and Keonjhar, were used as case studies for the student projects of the Off-Grid Energy Systems course of the Technische Hochschule Ingolstadt University.	students	30
22	DAFNI, ICCS-NTUA	29 June 2022	Clean Energy for EU Islands website	Article	Online	Article introducing the project and providing a summary of the events it has been presented. Also giving information about the upcoming	EU island experts mostly also general audience	



						EU-India exchange actions		
23	ICCS-NTUA	20 July 2022	IEEE Power Electronics Society Bhubaneswar/Kolkata Joint Chapter	Webinar	Online	Topic: Real time simulation advancing active distribution network & microgrid research and testing		
24	DAFNI, ICCS-NTUA	22 July 2022	BRIDGE Website/newsletter	Newsletter	online	RE-EMPOWERED: One year since its inception	EU project and policy experts, general public	
25	ICCS-NTUA	28 September 2022	CC-RSG Project	project meeting	Athens	RE-EMPOWERED was presented by Panos during CC-RSG project (Cybersecurity Curricula Recommendations for Smart Grids) meeting in Athens.		
26	ICCS-NTUA	30 Sept 2022	Bravo - Best Practices Meeting Point	Local event	Online	Panos Kotsampopoulos presented the activities of Smart Rue Lab, including RE-EMPOWERED	General public	128 views
27	ICCS-NTUA	30 Sept 2022	NTUA Researcher Night 2022	Local event	Athens	https://reempowered-h2020.com/iccs-ntua-promotes-re-empowered-at-2022-ntua-researchers-night/	NTUA academic community, general public\	100 participants



28	DelAdv	18-Oct-2022	Covenant of Mayors Investment Forum 2022	Event developed by the European Commission-Directorate General for Energy and Climate Action and the European Climate, Infrastructure and Environment Executive Agency (CINEA), and EU Covenant of Mayors for Climate and Energy	Brussels	https://2022.comif-eefmp.eu/	Cities, industry and financial institutions	358 in the attendance list
29	ICCS-NTUA	3-27 October 2022	Small wind turbine manufacturing workshop	Workshop	Athens	https://reempowered-h2020.com/small-wind-turbine-manufacturing-workshop-organised-by-ntua/	NTUA students	34
30	ICCS-NTUA	7 to 9 November 2022	MEDPOWER22	Conference	Valletta			
31	ICCS-NTUA	24 Nov 2022	Synchronization controllers and protocols for largely dispersed minigrids	Webinar	online	Panos Kotsampopoulos presented RE-EMPOWERED in the presentation focused on the results from Indian-Norway bilateral project MultiGrid. The Webinar was hosted by SINTEF		



32	DelAdv	30 November 2022-1 December 2022	VI Congreso Nacional de Energías Renovables (VI National Renewable Energy Congress of Spain)	Event developed by APPA Renovables, Spanish Renewable Energy Association.	Madrid, Spain	https://www.congresoenenergiasrenovables.es/	All entities interested in renewable energy. Mostly renewable energy companies, project developers, manufacturers, public institutions, consulting companies	
33	ICCS-NTUA	10 Dec 2022	Smart Internet of Things for Energy Systems (SIOT4ES)-IEEE Entrepreneurship Week 2022	Conference	Online	Presentation by Panos Kotsampopoulos https://siot4es.ieeeihuserres.org/the-conference/schedule/	Academia	15
34	DelAdv	21 February 2023-23 February 2023	GENERA 2023: Internacional Energy and Environment Fair	Fair of Renewable Energy, Energy Efficiency and Environment	Madrid, Spain	https://www.ifema.es/genera	General, mostly professional. Both national (Spanish) and International.	35,107 professionals attended the event. RE-EMPOWERED was informally presented in about 30 representatives of 25 booths.
35	DelAdv	21 February 2023-23 February 2023	SPIREC-Conferencia Internacional de Energías Renovables (Renewable Energies International Conference) 2023	Conference	Madrid, Spain	https://spirec.idae.es/queesspirec.html	It is a high level event about public policies, in which representatives from all the society reflect about initiatives and	141 high-level international speakers. RE-EMPOWERED was presented informally to about 20 attendants.



							experiences to increase the penetration of renewable energies.	
36	CMERI, ICCS-NTUA		One Day Online Workshop On Locally Manufactured Wind Turbines for Empowering Rural India	Webinar	online	https://reempowered-h2020.com/one-day-online-workshop-on-locally-manufactured-wind-turbines-for-empowering-rural-india		40 participants
37	ICCS-NTUA	2-Mar-23	India Smart Utility Week 2023	Conference	New Delhi	Professor Hatzigiorgiou presented RE-EMPOWERED in the session EU-India Smart Grid Workshop		
38	ICCS-NTUA	10-Mar-23	NESOI Erasmus Short Study Tour	EU event	Astypalea and online	Panos Kotsampopoulos presented the project virtually to the participants of SST. 15' presentation	representatives from: EU utility (EEM), energy communities, island local authorities, island agencies, universities, other H2020 projects	18 onsite + 7 online
39	ICCS-NTUA	21 March 2023	17th ETIP SNET Regional workshop for the Nordic and Baltic Region	Workshop/EU event	Vassa	Maria Valiou presented the project		



40	IIT BBS	23 to 25 and 27 to 29 April 2023	3rd Education Working Group Meeting of G20	Working Group	Bhubaneswar	https://g20indiafutureofwork.org/		
41	ICCS-NTUA	27 April 2023	1st Exploitation workshop	Exploitation workshop	online	<p>On Thursday, 27 April RE-EMPOWERED hosted the 1st exploitation workshop! The 10 ecoTools were presented as well as suggested business plans for future commercialization.</p> <p>About 30 stakeholders from industry and representatives from projects Twinsolar and MAESHA joined the session where they participated in a fruitful conversation regarding the opportunities for the exploitation of RE-EMPOWERED results.</p>		
42	ICCS-NTUA	23/ May 2023	13th DER Lab knowledge day	Web event	online	https://reempowered-h2020.com/re-empowered-presented-at-13th-der-lab-knowledge-day/	members of DER lab	19 participants
43	DAFNI	26 May 2023	CE4EUI linkedin account shared the video of wind	CE4EUI website	online	https://www.linkedin.com/posts/ce4euislands_small-windturbine-		



			turbine installation in Kythnos			installation-in-kythnos-activity-7067865053403705345-c9Sn?utm_source=share&utm_medium=member_desktopz		
44	DAFNI	16 June 2023	Sustainable Places	Conference	Madrid	Petros Markopoulos presented the project in the workshop "EU Geographical Islands as Leaders of Green Energy Transition".	participants from other projects	20 participants on site, 250 participants on the conference (project disseminated through flyers)
45	DAFNI	21 June 2023	Presentation of the launch of CE4EUI call, 30 RES islands to 2030 to DAFNI's members	Webinar	Online	Alkinoos Dimitriou from DAFNI network presented the project focusing on the Ecotool set	representatives from Greek island municipalities industry (HEDNO, DEI) and people involved previously in island projects (University of West Attica)	29 participants
46	ICCS-NTUA	29 June 2023	IEEE PowerTech conference	Conference	Belgrade	Panos Kotsampopoulos and Thomas Joseph presented RE-EMPOWERED in session SS23 International collaborative projects for the energy transition and rural electrification in India		



47	ICCS-NTUA	16-20 July 2023 (presentation on 18 July)	IEEE Power & Energy Society General Meeting	Meeting	Orlando	RE-EMPOWERED was presented by the European Coordinator Nikos Hatziargyriou (ICCS - NTUA) in the 2023 IEEE Power & Energy Society General Meeting that took place in Orlando, Florida. During an insightful panel session entitled 'High Renewable Energy Penetrations within Isolated and Remote Area Power Systems' the strong European-Indian collaboration for the electrification of energy islands that has been established in the framework of RE-EMPOWERED has been highlighted.		20-25 persons
48	IIT-BBS, IIT-KGP, VNIT	19 July-22 July 2023	14th Clean Energy Ministerial and 8th Mission Innovation	Conference	Goa, India	Booth with RE-EMPOWERED related posters and lab prototypes.		
49		July 23	National Pilots Report of the "Green Power Future	Report	Online	https://explore.mission-innovation.net/wp-content/uploads/2023/07/MI-GPFM-%E2%80%93-National-Pilots-Report-2023.pdf		



50	ICCS-NTUA	17 Sep 2023	IEEE Western European Students and Young Professional congress	Congress	Lausanne, Switzerland	https://reempowered-h2020.com/participation-at-ieee-western-european-students-and-young-professional-congress/		100 participants
51	ICCS-NTUA	19-20 Sept 2023	EnergyVille, 17th annual Symposium on Microgrids	Symposium	Genk, Belgium	https://reempowered-h2020.com/re-empowered-at-energyville-2023/		
52	ICCS-NTUA	27 Oct 2023	Enlit article & video	Video		Site visit: NTUA Electric Energy Systems Laboratory		
53	ICCS-NTUA	14-Nov-23	15th DERlab Knowledge day	Webinar		https://reempowered-h2020.com/15th-derlab-knowledge-day/		
54	ICCS-NTUA	29-Nov-23	ENLIT Europe	Conference and Exhibition	Paris, France	<p>Iria Saridaki from EU project coordinator partner ICCS – NTUA represented RE-EMPOWERED in a panel discussion on the topic of grid flexibility which was organized in the framework of Enlit Europe project zones in Paris and moderated by Dr Helena Gerard.</p> <p>The panel was also joined by EU projects HYPERRIDE, FEVER, interOPERA,</p>	General, primarily professional and academia	45 participants



						ebalancePLUS, and HSbooster.		
55	DeIAdv	30 November 2023-1 December 2023	VII Congreso Nacional de Energías Renovables (VII National Renewable Energy Congress of Spain)	Event developed by APPA Renovables, Spanish Renewable Energy Association.	Madrid, Spain	https://www.congresoenenergiasrenovables.es/	All entities interested in renewable energy. Mostly renewable energy companies, project developers, manufacturers, public institutions, consulting companies	.More than 500 attendants (both physically and online). Several were informed about the project
56	DeIAdv	06 February 2024-08 February 2024	GENERA 2024: Internacional Energy and Environment Fair	Fair of Renewable Energy, Energy Efficiency and Environment	Madrid, Spain	https://www.ifema.es/genera	General, mostly professional. Both national (Spanish) and International.	More than 500 expositors, more than 208 companies from 23 countries. More than 35,000 professional visitors. Several were informed about the project
57	DAFNI	12 March 2024	CLean Energy for EU Islands website	publication	online	article has been published at Clean energy for EU islands website		



58	DelAdv	28 February 2024	Empowering Islands: NESOI's Grand Finale - Shaping the Future of Clean Energy	Final event of a relevant H2020 project	Brussels, Belgium	https://nesoi.eu/content/empowering-islands-nesois-grand-finale-shaping-future-clean-energy	NESOI Consortium, EU islands, European Commission representatives	Around 60 people
59	IIT-Delhi, IIT-BBS	12-16 March 2024	Indian Smart Utility Week 2024	Delegation of European Union in setting up of EU booth during ISUW 2024	New Delhi	Presentation in one of the session of 13th March (Joint SUSTENANCE event)		
60	ICCS-NTUA	20th March 2024	ESFYN: Translated from Greek: An energy community in India	News article	online	article written by prof. Nikos Chatziargyriou https://www.efsyn.gr/stiles/apopseis/426613_mia-energeiaki-koinotita-stin-india	General audience	
61	ICCS-NTUA	20th March 2024	Energy press: Translated from Greek: An energy community in India	News article	online	article written by prof. Nikos Chatziargyriou https://energypress.gr/news/n-hatziargyriou-mia-energeiaki-koinotita-stin-india	General audience	
62	ICCS-NTUA		Athens Science Festival	Festival	Athens	https://reempowered-h2020.com/participation-at-athens-science-festival/	General audience	
63	DAFNI	14-16 May 2024	Clean Energy for EU Islands Forum	Forum	Pantelleria	https://reempowered-h2020.com/reempowered-presented-at-clean-energy-for-eu-islands-forum-in-pantelleria/	EU islands stakeholders	
64	ICCS-NTUA	3-6 June 2024	ERIGRID 2.0 Summer school	Summer school	Athens	https://reempowered-h2020.com/reempowered-at-		



						erigrid-2-0-project-summer-school/		
65	BEOF	14 June 2024	Folkemødet - Danish Democracy Festival	Festival	Bornholm	https://reempowered-h2020.com/promotion-at-folkemodet-danish-democracy-festival/	Local citizens	
66	DAFNI	2-4 July 2024	37th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	Conference	Rhodes	The 2 project videos were projected in the main conference room before one session and before the industry keynotes. About 50 and 120 people watched the 2 videos. About 20 flyers distributed.	Academia, EU project representatives , Industry	Estimation that 150 people were reached
67	IIT-BBS	5 July 2024	Lecture of Srinivas Karanki in ICCS-NTUA	Lecture	Athens			
68		30 July 2024	The microgrid of Gaidouromantra is getting updated (translated from Greek)	Web article	online	https://www.energygame.gr/energy-stories/404535/anavathmizetai-to-mikrodiktyo-tis-gaidouromantras-stin-kythno/		
69	IIT BBS	6th August 2024	IEEE International Communications Energy Conference	Conference	Bengaluru	https://reempowered-h2020.com/presentation-at-ieee-intelec-in-bengaluru/		
70	DAFNI	4th September 2024	International Conference Greek Smart Islands	Conference	Pserimos			
71	DAFNI	6th September 2024	National Human Resources Development Institute Visit in Greece	Research Visit	Athens		Representatives of the South Korean Government who will	8 persons



							organize the World Island Expo in Korea in 2026	
72	ICL	12 September 2024	Tata Power visit in Imperial College (ICL)	Company Visit	London			
73	DAFNI	17 September 2024	Clean Energy for EU islands	website	online	Exploring Innovation: RE-EMPOWERED Project Visits Greek and Indian Demo-Sites		
74	DAFNI	24 September 2024	Sustainable Places 2024	Conference	Luxembourg	https://www.sustainableplaces.eu/	Academia, EU project representatives , Industry	350 people attended the event
75	VNIT, IIT KGP, IITD, IISc	10 October 2024	National workshop on Integrated Local Energy Systems	Workshop	Vishakhapatnam , India			
76	DAFNI	21 October 2024	Energy communities DESMI event	Networking event			20	
77	DAFNI, ICL, ICCS-NTUA, PROTASIS , DTU	5-Nov-24	Final Event at MedPower	Conference	Athens		Academia, EU project representatives , Industry	



78	ICCS-NTUA	29 November 2024	IEEE WIE R8 panel		Bari	WIE Track panel discussion: Humanitarian efforts empowering women through Technology. In this panel, best practices of European projects that empower women involvement has been discussed and among them RE-EMPOWERED has been presented	Academia, researchers	
79	DelAdv	4 December 2024- 5 December 2024	VIII Congreso Nacional de Energías Renovables (VIII National Renewable Energy Congress of Spain)	Event developed by APPA Renovables, Spanish Renewable Energy Association. The event is celebrated yearly, and RE-EMPOWERED attended the congress in 2022 and 2023.	Madrid, Spain	https://www.congresoenergiasrenovables.es/	All entities interested in renewable energy. Mostly renewable energy companies, project developers, manufacturers, public institutions, consulting companies	



80	All partners	4 December 2024	2 nd Exploitation and Replication workshop	Workshop	Online	Workshops for exploitation opportunities and replicability of RE-EMPOWERED solutions	Industry, other EU projects representatives	
81	ICCS-NTUA, ICL	5 December	Microgrids	International Microgrids Symposium	Puerto Rico	Presentation titled: "Latest developments in the Gaidouromantra Microgrid in Kythnos" in Europe and Africa Sessions and ecoEMS and ecoCommunity tools	Industry and academia	100 attendees