



Interoperable solutions for implementing holistic **FLEXi**bility
services in the distribution **GRID**

Project Synergies report – Month 48

Deliverable 9.11

WP9

Grant agreement: 864579

From 1st October 2019 to 30th September 2023

Prepared by: CIRCE

Date: 03/10/2023



This project has received funding from the European Union 's Horizon 2020 research and innovation programme under service agreement No 864579

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DELIVERABLE FACTSHEET

Deliverable no.	D9.11
Responsible Partner	CIRCE
WP no. and title	WP 9 Communication and dissemination activities
Version	2
Version Date	03/10/2023

Dissemination level	
X	PU → Public
	PP → Restricted to other programme participants (including the EC)
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Approvals

	Company
Author/s	CIRCE
Task Leader	CIRCE
WP Leader	CIRCE

Documents History

Revision	Date	Main Modification	Author
1	06/09/2022	First draft version	CIRCE
2	03/10/2023	Second draft version	CIRCE

ABBREVIATIONS

PC: Project Coordinator
CA: Consortium Agreement
CC: Communication Committee
DoA: Description of Action
EC: European Commission
GA: General Assembly
IPR: Intellectual Property Right
KPI: Key Performance Indicator
M: Month
PH: Project Handbook
R&D: Research and Development
SC: Steering Committee
TF: Task Force
TP: Technical Partner
WP: Work Package
SME: Small and Medium Enterprise
DMP: Data Management Plan
H2020: Horizon 2020
WG: Working Group
USEF: Universal Smart Energy Framework

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EXECUTIVE SUMMARY

In the framework of WP9, this deliverable is the outcome of Task 9.3. *“Interaction and exploitation of synergies with BRIDGE and other projects/initiatives”*

The main goal of this document is to set the basis of the collaborations and interaction with the BRIDGE initiative and other relevant EU funded projects that share the same goal, to achieve a more flexible and profitable grid improving the operation of the distribution network.

The last deliverable intends to provide evidence of the participation of FLEXIGRID project to the BRIDGE initiatives and meetings (2019-2023). This is an update of the deliverable 9.10 covering the period of 2022-2023.

Meetings and activities with BRIDGE participants, and members of the Working Groups and Task Forces, were scheduled during the project lifetime. The main objective is to collect and exchange information from other EU funded projects regarding demonstration in the grid flexibility thematic through the established working groups: Regulation, Business Models, Data Management and Customer Engagement.

From the beginning, FLEXIGRID has stipulated the objectives, the tasks and the partners in charge, within the consortium, to carry out the said activities in order to achieve the WG's objective and the final general objective of creating synergies with other European projects. Some of the responsibilities established were to participate actively in any related meetings, represent FLEXIGRID in the WGs and TFs and manage any request coming from represented WG/TF.

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1. INTRODUCTION

1.1 Scope and Objectives of Task

FLEXIGRID relies on the lessons learned from previous EU and national projects addressing the development of solutions that provide the network with the necessary capacity to cope with a large share of renewable generation. Therefore, it established links with these projects to find synergies and collaboration opportunities, exchanging information and providing recommendations.

FLEXIGRID made special efforts in exploiting the synergies with the BRIDGE project, so a specific task (Task 9.3) has been included in the dissemination WP for the analysis and exchange of information with this initiative as well as others of relevance for FLEXIGRID that were taken into account in the development of the solutions.

The objective of the Task 9.3 *“Interaction and exploitation of synergies with BRIDGE and other projects/initiatives”* is to establish synergies with other projects and partners to present the project aim and to participate at international events and national forums of interest with the premise of disseminate the project results, mobilize potential stakeholders, to establish ties, organize or be part of joint events with them, exchange knowledge, experiences, and best practices. As well to be part of specific workshops organized on different locations across Europe, such as the events of IEE-PES Innovative Smart Grid Technologies Conference, INNOGRID or ENLIT. All project partners were encouraged to contribute to these targeted international events in order to integrate regional and national programs and initiatives and to allow other organizations, not directly participating in FLEXIGRID, to know about its objectives, evolution and conclusions.

Synergies with similar EU-funded projects through the BRIDGE initiative and other relevant EU funded projects were exploited to increase the outreach of potential stakeholders, organize joint events, exchange knowledge, experience and best practices, and stimulate discussions among key players. Additionally, those entities who will participate in the topic LC-SC3-ES-1-2019 were invited to an event to identify the impacts of FLEXIGRID in future projects. Regarding EU forums, FLEXIGRID take advantage of the relation of its partners with some of the existing associations and platforms where they have an active role; a list of them is provided in the dissemination section.

More specifically, within the frame of task T9.3 active participation in BRIDGE working groups and tasks forces were accomplished with special focus on flexibility in the grid and energy storage.

FLEXIGRID had been presented in the General Assembly of BRIDGE H2020 platform, chaired by the European Commission in Brussels. This served to reinforce the project position in Smart Grid and energy storage research.

The scope of this document is to resume the FLEXIGRID contributions delivered to BRIDGE and give evidence of the activities carried out so far.

2. INTERACTION WITH BRIDGE INITIATIVE

BRIDGE is a European Commission initiative which unites Horizon 2020 Smart Grid, Energy Storage, Islands, and Digitalisation Projects to create a structured view of cross-cutting issues which are encountered in the demonstration projects and may constitute an obstacle to innovation.

The BRIDGE process fosters continuous knowledge sharing amongst projects thus allowing them to deliver conclusions and recommendations about the future exploitation of the project results, with a single voice, through four different Working Groups representing the main areas of interest:

- Data Management
- Business Models
- Customer Engagement
- Regulations

These four permanent Working Groups oversee preparing reports and formulating recommendations for the European Commission on various themes linked to the future of the energy sector.

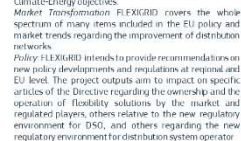
Three Task Forces have already been launched after the 2019 BRIDGE General Assembly, to work on specific topics: Energy Communities, Replicability/Scalability Analysis and Joint Communication.

Thanks to the proactive participation of FLEXIGRID partners such as UNIZG-FER, MOH (formerly VERD), UNICAN, LINKS, ORMAZABAL, HEP-ODS, ATOS, HYPERTECH, ZIV and CIRCE, FLEXIGRID was duly represented in all of the Working Groups.

Further to this, as do all BRIDGE projects, FLEXIGRID participates in the BRIDGE R&I Challenges and Roadmap Definition, for the identification and definition of future EU R&I objectives and priorities in the framework of Smart Grid, Energy Storage, Islands, and Energy Digitalisation.

2.1 FLEXIGRID in the BRIDGE official documents

As reported in the GA, FLEXIGRID joined the BRIDGE Initiative and it has been included in the [projects section on BRIDGE Website](#) as well as in [BRIDGE Brochure](#) in its early 2023 updated version.



On the 12th FLEXIGRID's representative participated in the Parallel Session "Future R&I Priorities and BRIDGE Topics" and in the Parallel Session "TSO-DSO Cooperation#1 – Market Organisation" to discuss project experiences and policy impact or to discuss issues of joint interest for projects.

The Commission proposed the use of the USEF Taxonomy as a reference for TSO-DSO coordination projects in order to have a clearer picture of all the projects and classify them. EU projects agreed to focus their efforts on the definition of operator's needs, standardization of services and products before opening the discussion on coordination schemes and market models. The participants agreed on this approach as otherwise solutions could be proposed which are not effective for network issues.

2.3 FLEXIGRID participating in BRIDGE WGs and TFs

FLEXIGRID partners share a tracking tool for BRIDGE related actions where all meetings, progress, presentation events, etc carried out by the partners involved are monitored by the working groups mentioned before.



Name Organisation	Name	Surname	Email address	Working group	Task Force	Activity attended (Date, Place)	Actions to be committed	Result / Comments
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Figure 3. Header of the WGs monitoring tool

In addition, a specific tab in contact list file had been created including the partners involved in BRIDGE activities. For each Working Group or Task Force a representative has been defined whose responsibilities are:

- Represent FLEXIGRID project in WG/TF meetings.
- Manage the requests coming from represented WG/TF:
 - Receive the request from WG/TF (via email or meeting attendance).
 - Forward it to involved partners.
 - Collect the information needed from the project.
 - Consolidate received data.
 - Send the answer back to BRIDGE WG/TF leader or requestor.

While BRIDGE activities management was continuously improving, this solution has significantly contributed to achieving greater clarity regarding the roles and responsibilities of individuals when beneficiaries receive BRIDGE requests..

To ensure the effective achievement of the established objectives and responsibilities, at the beginning of the project, a leader and co-leader were designated with unanimous consent and approval from all consortium member partners.

In cases where the leader is unavailable due to unforeseen circumstances, the consortium members agreed that these designated individuals would assume the responsibility for managing the tasks and activities of the working groups (WGs) and task forces (TFs). It's important to note that this measure has not been necessary to apply throughout the entire project.

The roles are as follows:

Name Organization	Name	Surname	Email address	Customer Engagement								Task Force						
				Additional topics of interests & synergies	Governance models	Organizational models	Group building	Smart tools	Assessment of engagement	Incentives and Drivers	Energy Communities	Mapping of project objectives into the SCAM architectures	KERs Identification	Identifying quantifiable KPIs (related to KERs)	Results analysis, identification of limitation factors and alternatives solutions	Literature / Common repository	Inter-Communication	Future R&D priorities
CIRCE	Borroy	Samuel	sborroy@circe.es	x							x							
CIRCE	Torres	Jesús	jtorres@circe.es								x							
CIRCE	Rivas	David Miguel	drivas@circe.es								x							
CIRCE	Giménez	Laura	lgimenez@circe.es								x							
CIRCE	Loprete	Aleida	aloprete@circe.es											x				
UNIZEPER	Marić	Marija	marija.marić@fer.hr						x		x							
UNIZEPER	Pavčić	Miroslav	miroslav.pavcic@fer.hr	x							x							
VEDO	Klemenčič	Mentij	mentij@vedo.si								x							
UNICAN	Laso	Alberto	lasoal@unican.es	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
UNICAN	Mañana	Mario	mario.manana@unican.es	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HYPERTECH	Stamopoulos	Nicolaos	n.stamopoulos@hypertech.gr								x	x	x	x	x	x	x	
HEP-ODS	Buril	Ivan	ivan.buril@hep.hr								x							
HEP-ODS	Mikulić	Katarina	katarina.mikulic@hep.hr	x							x							
HEP-ODS	Čerčić	Bernardo	bernardo.cerccic@hep.hr								x							
ORMAZABAL	Del Río	José	jor@ormazabal.com		x	x	x	x	x	x	x	x	x	x	x	x	x	
ORMAZABAL	Urasenka	Aleena	au@ormazabal.com	x							x							
LINKS	Ferrero	Mauricio	mauricio.ferrero@linksfund.es								x							
LINKS	Hernández	María José	mariajose.hernandez@linksfund.es								x							
ATOS	Vasilis	Javier	javier.vasilis@atos.com								x							
Medela	Amuro	Salvador	salvador.medela@medela.com								x							
ATOS	Pericic	Sergio	sergio.pericic@atos.com								x							
CAP	Moreau	Laurine	laurine.moreau@capenergies.com								x							
21V	Varza	José Miguel	josemiguel.varza@21v.com								x							

Main contact

Proxy

Figure 4. Roles of the consortium for BRIDGE working groups and task forces

The main contact is the responsible person to perform the activities for the well execution of the groups, but the proxy must be aware of any activity in case its presence is necessary, so FLEXIGRID is always represented in every WG/TF meeting.

2.3.1 Achievements

General achievements for Task 9.3 “Interaction and exploitation of synergies with BRIDGE and other projects/initiatives”:

ACTIVITY	INVOLVED PARTNERS	OBTAINED RESULTS
The project presents at the annual meeting of BRIDGE H2020 organized by the European Commission	CIRCE	More than 1000 people reached on social media. The meeting was echoed by several digital newspapers. The project reinforced its position in research in Smart grids and energy storage.

Table 1. Task 9.3 general achievement

For the different BRIDGE working groups, FLEXIGRID partners have achieved the following results:

Regulation Working Group

ORGANIZATION NAME	TASK FORCE	ACTIVITY ATTENDED [DATE, PLACE]
UNICAN	Energy Communities & Self-consumption	Bridge Regulation WG survey [02/07/2020]
UNICAN	Energy Communities & Self-consumption	Demo site ID form [09/09/2020]
UNICAN	Energy Communities & Self-consumption	Regulation WG General Assembly [17/11/2020]
HYPERTECH	Energy Communities & Self-consumption	Contributed to the Regulation WG survey focusing on the topic of TSO/DSO product design, coordination models and market design by providing information relevant to the Hypertech solutions developed.
CIRCE	N/A	2021 Kick-off meeting [16/06/2021, online]
UNICAN	Task 4	Kick-off meeting [21/09/2021, Online]

CIRCE	Task 4	Kick-off meeting [21/09/2021, Online]
UNICAN	Action 2	Kick-off meeting [22/09/2021, Online]
UNICAN	Action 1	Kick-off meeting [23/09/2021, Online]
UNICAN	Task 3	Kick-off meeting [29/09/2021, Online]
UNICAN	Action 1	Bridge Regulation WG Action 1 Workshop [17/02/2022]
UNICAN	Action 2	Bridge Regulation WG Action 2 Workshop [17/02/2022]. Workshop for Action-2 'Energy Communities in the EU'
CAP	Task 1	BM working group [03/11/2021]
CAP	Task 1	BM working group [10/12/2021] Discussion on the Business Model Canvas
CAP	Task 1	BM working group [14/01/2021] Repartition of clusters for the different Business Model Canvas
CAP	Task 1	BM working group [11/02/2021] Update on the BM report
CAP	Task 2	BM working group [14/02/2021] Update the report on Use Cases
CAP	Task 1	BM working group [03/03/2021]
HYPERTECH	Action 1	Filled in the Regulation WG Questionnaire for BRIDGE - WG Regulation - Action 1 - Product Design on flexibility product design and harmonisation with a special emphasis on congestion management and voltage control services.
HYPERTECH	Action 4	Support to demo leader (UNIZG-FER) to fill in BRIDGE Regulatory WG Questionnaire for flexibility mechanisms.
UNICAN	Global	Bridge general KOM 2022-2023 [10/04/2022]
UNICAN	Action 1	Regulation WG Action 1 KOM [07/12/2022]
UNICAN	Action 4	Regulation WG Action 4 KOM [08/12/2022]
UNICAN	Regulation WG	Regulation WG 1st Knowledge Sharing [13/01/2023]
UNICAN	Action 1	Regulation WG Action 1 second meeting [27/01/2023]
UNICAN	Regulation WG	Regulation WG 2nd Knowledge Sharing Session [27/01/2023]

Table 2. Regulation WG activities

Business Model Working Group

ORGANIZATION NAME	TASK FORCE	ACTIVITY ATTENDED [DATE, PLACE]
VERD	Energy Communities & Self-consumption / Replicability & Scalability	Participation in the Bridge General Assembly [11-12/02/2020]

VERD, ZIV, HYPERTECH	Energy Communities & Self-consumption / Replicability & Scalability	Participation in the call “Bridge TF Replicability Scalability: launch of the next steps and call for volunteers” [22/04/2020, 15:00 – 17:00]
HYPERTECH	Energy Communities & Self-consumption / Replicability & Scalability	Provided detailed feedback on the Replicability and Scalability Survey 2020 [30/04/2020]
ZIV	Energy Communities & Self-consumption / Replicability & Scalability	Participation in the call "RSA Task Force: general meeting" [11/09/2020]
HYPERTECH	Energy Communities & Self-consumption / Replicability & Scalability	Attended the Energy Communities Task Force session on Day 1 of the BRIDGE General Assembly [02/03/2021]
CAP	Energy Communities & Self-consumption / Replicability & Scalability	Participation in the BRIDGE WG Task 1 BM [10/12/2021]

Table 3. Business Model WG activities

Data Management Working Group

ORGANIZATION NAME	TASK FORCE	ACTIVITY ATTENDED [DATE, PLACE]
LINKS	Energy Communities & Self-consumption	Slide Preparation [15/06/2020, 9:00-11:00]
LINKS	Energy Communities & Self-consumption	KOM Telco Action#3 [16/06/2020, 16:00-17:00]
LINKS	Energy Communities & Self-consumption	Telco on USES Cases [29/06/2020, 13:00-14:30]
LINKS	Energy Communities & Self-consumption	Telco on USES Cases and BPMN [16/06/2020, 14:00-15:30]
LINKS	Energy Communities & Self-consumption	Work on definition of reference models for flexibility transactions [August 2020]
LINKS	Energy Communities & Self-consumption	Data Management Working Group [30/09/2020, 9:00-15:30]
LINKS	Energy Communities & Self-consumption	Action 3 update call [30/11/2020, 14:00-15:30]
LINKS	Energy Communities & Self-consumption	UC mapping call [30/11/2020, 14:00-15:30]
LINKS	Energy Communities & Self-consumption	Preparation of the UC mapping document from FLEXIGRID
LINKS	Energy Communities & Self-consumption	Telco for UC mapping results [11/01/2021, 15:00-16:00]
LINKS	Energy Communities & Self-consumption	Rework of the UC mapping document from FLEXIGRID
HYPERTECH	Energy Communities & Self-consumption / Replicability & Scalability	Contribution on work being carried out by the Data Management WG on DR Models [provided information to LINKS, incl. sequence diagrams of our UC within the Croatian pilot]
LINKS	Energy Communities & Self-consumption	TelCo For Data Management WG 2021 Workplan Kick-off Meeting [21/05/2021]

ATOS	Reference architecture	
ATOS	Use case repository, Reference architecture, Interoperability of flexibility assets	Data Management WG meeting - Action #1 - Use-cases repository - Action #2 - Data exchange reference architecture - Action #3 - Interoperability of flexibility assets"[26/01/2022]
ATOS	Interoperability of flexibility assets	General Assembly [22-23/03/2022]
ATOS	Use case repository	General Assembly [22-23/03/2022]
ATOS	Contribution to standardisation	General Assembly [22-23/03/2022]
ATOS	Contribution to standardisation	Kick-off Meeting - Data Management WG [22/09/2022]
VERD	Contribution to standardisation	Data Management WG meeting - Action #1 - Use-cases repository - Action #2 - Data exchange reference architecture - Action #3 - Interoperability of flexibility assets [21/01/2022]
ATOS	Data Exchange Reference Architecture	BRIDGE Data Management WG meeting [09/12/2022]
ATOS	Data Exchange Reference Architecture	BRIDGE 2023 General Assembly [28-30/03/2023]

Table 4. Data Management WG activities

Customer Engagement Working Group

ORGANIZATION NAME	TASK FORCE	ACTIVITY ATTENDED [DATE, PLACE]
UNIZG-FER, UNICAN, VERD	Energy Communities & Self-consumption / Joint Communication	KOM meeting online [29/04/2020, 09:30 – 11:30]
UNIZG-FER	WG Consumer and Citizen Engagement	SG Organisational models meeting online [16/06/2020, 10:30 – 11:30]
UNIZG-FER	WG Consumer and Citizen Engagement	SG Organisational models meeting online [06/07/2020, 10:00 – 11:00]
UNIZG-FER	WG Consumer and Citizen Engagement	SG Assessment of engagement meeting online [15/09/2020, 15:00 – 16:30]
UNIZG-FER	Energy Communities	Webinar CEER meets BRIDGE Task Force Energy Communities online [17/10/2020, 11:00 – 12:00]
UNIZG-FER	WG Consumer and Citizen Engagement	SG Assessment of engagement meeting online [28/01/2021, 11:00 – 12:00]
UNIZG-FER	WG Consumer and Citizen Engagement	BRIDGE General Assembly online – UNIZG-FER representatives were in attendance in all sessions [02/03/2021 – 04/03/2021]
CIRCE	WG Consumer and Citizen Engagement	Follow-up meeting [24/06/2021, online]

UNIZG-FER	Indicators of engagement over time	CCE SG meeting online and Christmas party [16/12/2021]
UNIZG-FER	Indicators of engagement over time	CCE WG meeting online [21/01/2022]
UNIZG-FER	Indicators of engagement over time	BRIDGE CCE SG Drivers of engagement cluster engagement over time meeting online. Prepare the BRIDGE report for our SG. [24/01/2022]
UNIZG-FER	Indicators of engagement over time	Preparation of BRIDGE report [24/01/2022 - 27/01/2022]
UNIZG-FER	Indicators of engagement over time	BRIDGE CCE SG Drivers of engagement cluster engagement over time meeting online. Work on our next steps. [28/01/2022]
UNIZG-FER	Indicators of engagement over time	Defining the next steps for cluster engagement over time [31/01/2022]
UNIZG-FER	Indicators of engagement over time	BRIDGE CCE SG Drivers of engagement cluster engagement over time meeting online. Finalising the EC report. [15/02/2022]
UNIZG-FER	Indicators of engagement over time	CCE WG meeting online. Finalising the EC report. [24/02/2022]
UNIZG-FER	Indicators of engagement over time	BRIDGE CCE SG Drivers of engagement cluster engagement over time meeting online [KOM year 3]. Prepare presentations about our projects and RRI Tools Project. [04/05/2022]
UNIZG-FER	Indicators of engagement over time	Preparing the presentations for SG meeting [06/06/2022]
UNIZG-FER	Indicators of engagement over time	BRIDGE CCE SG Drivers of engagement cluster engagement over time meeting online. Contribute to the joint spreadsheet - provide info on FLEXIGRID and comment others' indicators. [07/06/2022]
UNIZG-FER	Indicators of engagement over time	Contributing to the SG CEE cluster engagement over time joint spreadsheet on indicators [16/08/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time meeting online [18/08/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time meeting online [07/09/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE meeting online [15/09/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time, subcluster methodologies meeting online [21/09/2022]
UNIZG-FER	Indicators of engagement over time	Categorising indicators by methodologies [26/09/2022]


UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time, subcluster methodologies meeting online [28/09/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE meeting online [28/09/2022]
UNIZG-FER	Indicators of engagement over time	Working in the SG CEE cluster engagement over time joint spreadsheet on indicators [24/10/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time meeting online [24/10/2022]
UNIZG-FER	Indicators of engagement over time	Consolidating sheets in the joint spreadsheet on indicators [23/11/2022]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time, subcluster methodologies meeting online [14/12/2022]
UNIZG-FER	Indicators of engagement over time	Preparing the BRIDGE report for subcluster on methodologies [16/01/2023]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time, subcluster methodologies meeting online [16/01/2023]
UNIZG-FER	Indicators of engagement over time	Preparing the BRIDGE report [26/01/2023]
UNIZG-FER	Indicators of engagement over time	SG CEE meeting online [01/03/2023]
UNIZG-FER	Indicators of engagement over time	SG CEE cluster engagement over time meeting online [07/03/2023]
UNIZG-FER	Indicators of engagement over time	Attending the BRIDGE General Assembly – online [28-30/03/2023]
UNIZG-FER	Indicators of engagement over time	Preparing a paper based on the BRIDGE report for CIGRE conference in Croatia (draft) [24-28/04/2023]
UNIZG-FER	Indicators of engagement over time	BRIDGE CEE WG 2023 KOM meeting online [24/05/2023]
UNIZG-FER	Indicators of engagement over time	CEE WG indicators SG KOM [19/06/2023]

Table 5. Customer Engagement WG activities

3. INTERACTION WITH H2020 PROJECTS AND OTHER INITIATIVES

FLEXIGRID is committed to create synergies and to forge communication with other on-going funded R&D projects related to smart grids, both nationally and EU funded, in particular with those participating in BRIDGE.

This interaction promoted synergies with other projects and the establishment of cluster participation in events and publications, promoting the dissemination potential of FLEXIGRID website by sharing news and links. These synergies facilitated project partners to disseminate results to other H2020 projects, share knowledge for mutual benefit particularly on horizontal topics like regulation, business models, socio-economic assessment etc., organize joint events to facilitate project dissemination, among other results.

PROJECT NAME & LOGO	BRIEF DESCRIPTION, PARTNERS INVOLVED AND MAIN LINKS WITH FLEXIGRID
 FLEXICIENCY	<p>Energy services demonstrations of demand response, FLEXibility and energy efficiency based on metering data</p> <p><i>Partner: CIRCE</i></p> <p>The project puts in place five large-scale demonstrators for the deployment of novel services in the retail market due to a virtual ICT environment to exchange data and services and advanced monitoring and control systems.</p> <p>Point of contact with FLEXIGRID: Key results and conclusions on architectures, market opportunities and data accessibility will be transferred to FLEXIGRID for the development of WP8 and WP9.</p>
 SmartNet	<p>Smart TSO-DSO interaction schemes, market architectures and ICT Solutions for integration of ancillary services from demand side management and distributed generation</p> <p><i>Partner: EDYNA</i></p> <p><i>Website: http://smartnet-project.eu/</i></p> <p>The SmartNet project arises from the need to find answers and propose new practical solutions to the increasing integration of Renewable Energy Sources in the existing electricity transmission network.</p>
 Nobel Grid Smart energy for people	<p>New cOst-effective Business modELs for flexible Smart Grids</p> <p><i>Partner: HYPER</i></p> <p><i>Website: https://nobelgrid.eu/</i></p> <p>NOBEL GRID provides advanced tools and ICT services to all actors in the Smart Grid and retail electricity market to ensure benefits from cheaper prices, more secure and stable grids and clean electricity.</p>
 MIGRATE	<p>Massive InteGRATion of power Electronic devices</p> <p><i>Partner: CIRCE</i></p> <p><i>Website: https://www.h2020-migrate.eu/</i></p> <p>MIGRATE will develop and validate technology-based solutions making possible the management of the growing penetration of power electronics-connected generation and consumption.</p>

Point of contact with FLEXIGRID: As a result, an easier integration of distributed generation will be achieved, which is crucial for FLEXIGRID.

Wide scale demonstration of Integrated Solutions & business models for European smartGRID

Partner: HYPER

Website: <https://www.wisegrid.eu/>



WiseGRID will provide a set of solutions and technologies to increase the smartness, stability and security of an open, consumer-centric European energy grid. The project provides services for the actors of the distribution network in different scenarios to promote more sustainable energy grids, empowering the prosumers and enabling the establishment of a near real-time pan European energy balancing market.

Integrated Smart GRID Cross-Functional Solutions for Optimized Synergetic Energy Distribution, Utilization & Storage Technologies

Coordinator: ATOS

Website: <http://www.integridy.eu/>



inteGRIDy pursues facilitating the optimal and dynamic operation of the Distribution Grid, fostering the stability of the electricity grid and coordination of distributed energy resources, Virtual Power Plants and innovative collaborative storage schemes within a continuously increased share of renewable energy.

Indian and European Local Energy CommuniTies for Renewable Integration and the Energy Transition

Partners: CIRCE

Website: <https://ielectrix-h2020.eu/>



A concept composed by mobile storage systems combined with forecasting, DR programmes and islanding capabilities of local energy communities will be implemented in 4 EU and 1 Indian networks.

Point of contact with FLEXIGRID: Main results from IELECTRIX will be used to optimize flexibility and stability of the MT-HV grid.

Maximizing the impact of innovative energy approaches in the EU islands

Coordinator: CIRCE

Website: <http://insulae-h2020.eu/>



To foster the deployment of innovative solutions for the EU islands decarbonization by developing and demonstrating at three Lighthouse Islands a set of interventions linked to seven replicable use cases, whose results will validate an Investment Planning Tool that will be then demonstrated at four Follower Islands for the development of four associated Action Plans.

Real proven solutions to enable active demand and distributed generation flexible integration, through a fully controllable LOW Voltage and medium voltage distribution grid

Partner: ZIV

Website: <http://upgrid.eu/>



	<p>This project focuses on addressing the constraints and needs arisen from poor observability of LV grid, local accumulation of distributed generation, risks and difficulties in managing the distribution network, aging infrastructure and social and environmental restrictions that inhibit grid development.</p>
	<p>Integrated Cybersecurity Solution for the Vulnerability Assessment, Monitoring and Protection of Critical Energy Infrastructures <i>Partner: -</i> <i>Website: https://energy-shield.eu/</i> EnergyShield captures the needs of Electrical Power and Energy System (EPES) operators and combines the latest technologies for vulnerability assessment, supervision and protection to draft a defensive toolkit.</p>
	<p>SDN - microgrid reSilient Electrical eNergy SystEm <i>Partner: ATOS</i> <i>Website: https://www.sdnmicrosense.eu/</i> SDN-microSENSE aims at providing and demonstrating a secure, resilient to cyber-attacks, privacy-enabled, and protected against data breaches solution for decentralised Electrical Power and Energy Systems (EPES). All designed, developed, and tested technologies should consider the latest related research findings and maintain high compliance with current industrial standards [e.g., IEC standards].</p>
	<p>People for tHe eurOpean bioENergy mIX <i>Partner: ATOS</i> <i>Website: https://phoenix-h2020.eu/</i> The development and adoption of renewable and sustainable forms of energy has become a major priority for Europe and is an important theme in H2020. Research into new, energy-related technologies to reduce Europe's reliance on non-renewable fossil fuels is a critical need, and requires more newly qualified people in areas such as renewable-energy infrastructure management, new energy materials and methods, as well as smart buildings and transport.</p>

Within our constant pursuit of opportunities to enrich our research and collaborations, we have had participated in a series of events that have allowed us to create significant synergies and establish fruitful interactions with other European Projects and other entities.

These events became an essential component of our strategic approach to expanding our reach and sharing knowledge with the European scientific and technological community. The pandemic posed significant challenges in terms of attending these events. Despite the complexities and limitations imposed, we had successfully presented our project at significant events, achieving the expected impact.

NAME OF THE EVENT	DESCRIPTION	PARTNER
ENLIT Europe Forum 2022	Forum for the energy transition with EU projects	CAP, CIRCE, ATOS, SELTA, HYPERTECH
INNOGRID 2023	Conference on European innovation in power networks, co-organised by the European Distribution System Operators'	CAP, CIRCE

Innogrid 2020	Conference on European innovation in power networks, co-organised by the European Distribution System Operators'	ATOS
EUSEW 2022	EU Sustainable Energy Week	ATOS
Domestic highly technological solutions in support of energy transition	Held as a part of the series of panel discussions providing insights into developments of smart grids and energy communities in Croatia. This discussion was aimed at figuring out technological drivers behind the energy transition.	UNIZG-FER
Policy Lab - Energy communities are in law. What does it mean in practice?	A workshop organised in cooperation with ZEZ, an energy coop from Croatia. The goal of is this workshop is promote discussion of the practicalities behind the recent recast of Electricity Market Law in Croatia among relevant stakeholders. Participants include representatives from the Ministry of Economy, Regulatory bodies, academia, as well as technology providers.	UNIZG-FER
STRIDE project dissemination event	A dissemination event held for project STRIDE in Zagreb. We present current research activities to the STRIDE partners.	UNIZG-FER
CIREC workshop on E-mobility and power distribution systems	Presentations issued from the call for papers	OPA
ESPON Peer Learning Workshop on Sustainable Pathways for the Tourism Industry in Malta	Presentation of FLEXIGRID's sustainability solutions for the hospitality segment as implemented in the Greek demo site	MOH (formerly VERD)
Platone 2nd ES-1 Projects Coordination Workshop	Presentation of FLEXIGRID project answering the question "What steps did you take, and which ones are needed next to overcome the challenges faced by your project?".	MOH (formerly VERD)
Final presentation of gGENESIS project	Final presentation of gGENESIS project	UNIZG-FER
MIPRO conference	MIPRO conference (education and promotion activities for system operators and industry stakeholders)	UNIZG-FER
AEIT Webinar	On-line meeting of the AEIT (Associazione Elettrotecnica Italiana) to present the project FlexiGrid and similar projects	SELTA-DP
Future Grid Day 2022	The technological development of the Distribution Networks Combining Sustainability, Digitization and Flexibility	SELTA-DP

Redes Inteligentes 2022	Presentation of a paper about some solutions of the project	CIRCE
Days of the electrical engineer 2022.	Models of participation of citizens and entrepreneurs in the green energy transition with reference to the global energy crisis	HEP-ODS
Workshop of Capenergies "Club Systèmes Energétiques"	Capenergies reunited all the members of the Smartgrid Club and external actors to promote their synergy.	CAP
Symposium on power system managment	Symposium on protection and management of the electric power system, distribution network, distribution production and automation of the electric power system	HEP-ODS
PAC World Conference	Conference about Protection, Automation and Control	ZIV

Figure 5. Events where the project has been presented

4. CONCLUSIONS

In the framework of FLEXIGRID's Communication and Dissemination Activities work package and aligned with the Dissemination and Communication Plan described in D9.3, this report presents FLEXIGRID's work and interaction with other EU funded projects and forthcoming initiatives related to energy flexibility and smart grids, to obtain better results for the European Union.

The most relevant initiative intercepted so far in this framework is the BRIDGE initiative.

In the lifetime of the project, FLEXIGRID had the opportunity to get acquainted to the activities and working groups of such initiative to understand where the project had the opportunity to provide relevant inputs to the thematic and create synergy with other projects.

Participating in the events provided by BRIDGE allowed FLEXIGRID project to setup collaboration with further on going H2020 projects and be part of a bigger consortium network. Despite the challenges posed by the pandemic, we have successfully shared our work in prominent scientific and technological forums and created synergies with other European founded project and other initiative. We have participated in key events such as ENLIT Europe and INNOGRID, as well as some more specific ones aimed at reaching a more targeted audience, such as Domestic highly technological solutions in support of energy transition and STRIDE project dissemination event.

D9.11 presents how FLEXIGRID has been taking advantage of this initiative to create synergies and connections towards mutual benefit knowledge sharing and the achievement of project objectives.

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