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Responsible:	Organisation:	Contributing WP:
Vaiva Indilaite	REScoop.eu	WP 20

Authors (organisation):
Vaiva Indilaite, Sara Tachelet (REScoop.eu), Álvaro Nofuentes (ETRA), Ine Swennen (ECO), Antonis Papanikolaou (HYP), Tommaso Bragatto (ASM), Valia Iliopoulou (AEA), Eric Portales (BYES), Esther Mocholí (ITE), Foivos Palaogiannis (ICCS), George Thanos (AUEB)

Abstract:
This document represents the implementation of WiseGRID project's communication and dissemination strategy. It outlines a plan to inform the relevant target audiences of the project by means of appropriate communication tools and implement the project objectives in the WiseGRID pilot sites.

Keywords:
Communication, dissemination, citizen engagement, WiseGRID

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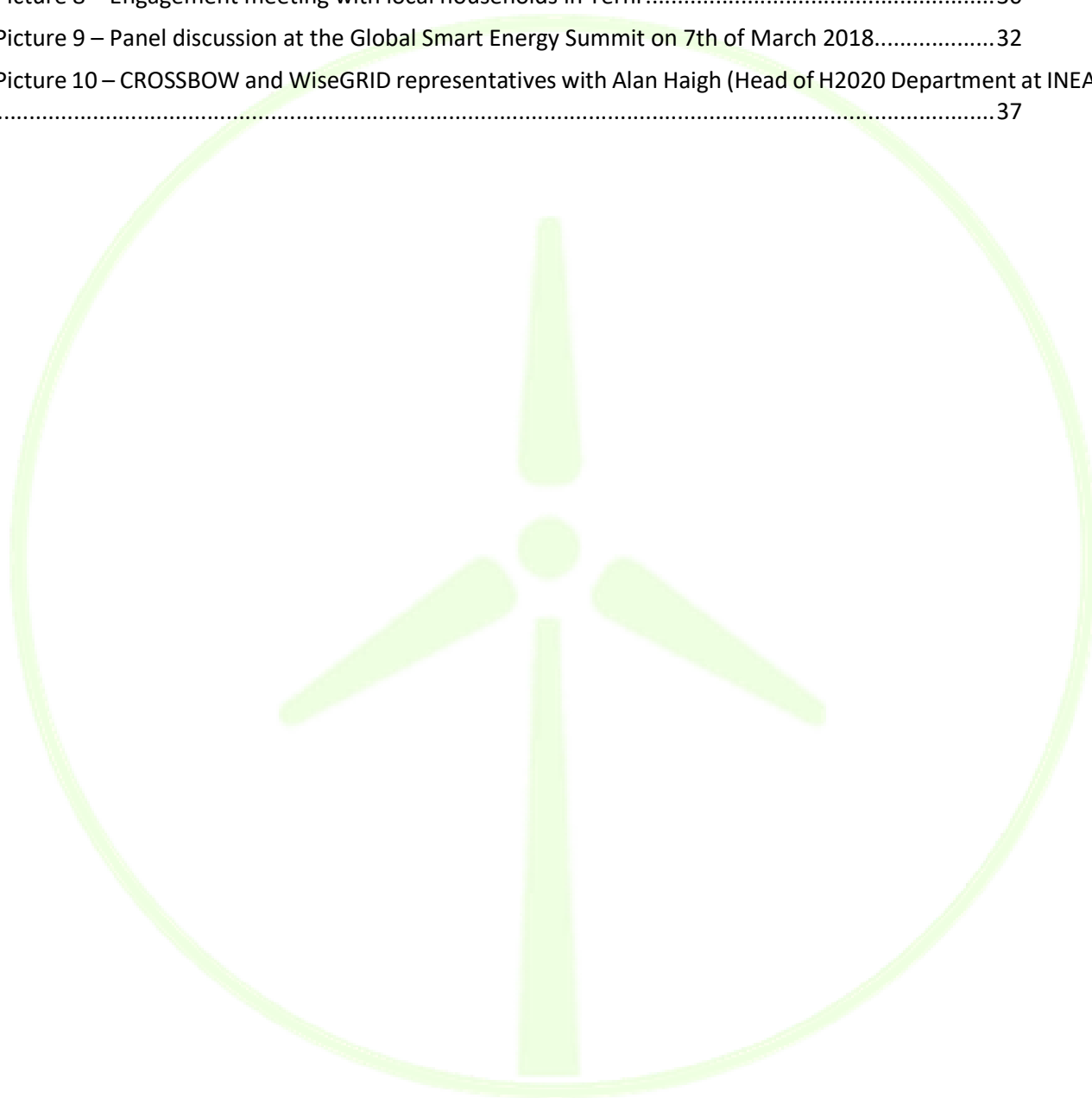
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EXECUTIVE SUMMARY

This deliverable reports in detail about the WiseGRID dissemination and communication activities during the period of month 18 to month 30 of the project. WiseGRID dissemination and communication activities are based on an elaborated multi-channel dissemination and communication strategy. The strategy employs different media to reach the relevant targeted audiences. Following the KPI targets set out in the previous Dissemination Master Plan D20.1 for fostering both internal as well as external communication and awareness of the project's key results to a broad audience of academics, professionals, stakeholders and even members of the general public, this deliverable presents a detailed breakdown of these activities performed during the first year of the project.

Showcasing the main goal of the WiseGRID project (SMARTER SYSTEMS.EMPOWERED CITIZENS), WiseGRID has been very active in many diverse areas of dissemination and communication in an attempt to reach out and engage as many people as possible. The main goal of the dissemination activities is to make a broad engaged audience aware of the project's work as well as to collect useful feedback, which -especially in the early stages of a project- can be extremely beneficial for further improving the project's approach and targets. The thematic interest of this report is to outline the strategies involved from the pilot site partners in following the citizen engagement process for the WiseGRID project.

This report covers 4 main activities; dissemination activities, citizen engagement activities, cooperation activities and future plans.

The first set of activities are the different dissemination activities that were performed and the dissemination material that has been created during month 18 to month 30 of the project. The major dissemination achievements of the second reporting period include the pilot site edits of the WiseGRID website, attracting over 800 followers on Twitter, and consistently using the platform to engage people and to promote the broad range of project events. Other dissemination efforts include the winning of two EUSEW Awards in Business and Citizens category and Good Practise of the Year Award accompanied by pilot site partners citizen engagement activities. Moreover, the project continuous the circulation of an Internal Dissemination Newsletter informing partners of dissemination opportunities. Finally, an important share of dissemination activities can be found in the participation in approximately 60 public events, including several high-profile conferences.

The second set of activities focusses on the first series of citizen engagement activities pilot site partners together with WiseGRID Dissemination Manager performed in the five different pilot sites in Belgium, Spain, Greece (x2) and Italy. The success of this first round of workshops showcases the following activities been performed in the pilot sites in order to prepare for the second citizen engagement workshops and creating the continuous cycle of the engagement mechanism for the citizens.

The third set of activities cover the different cooperation activities between WiseGRID and other initiatives in the different energy fields (consumption, distribution, generation and trans-mission) and even in the smart city field. It will highlight mutual benefits and interconnected vessels of WiseGRID and smart energy related initiatives.

The last set of activities briefly refers to the planned dissemination activities that have been scheduled for the next reporting period of the project.

1 INTRODUCTION

This deliverable reports in detail about WiseGRID dissemination and communication activities between M18 and M30 of the project. WiseGRID dissemination activities are based on an elaborated multi-channel dissemination and communication strategy. The strategy employs different media to reach the relevant targeted audiences. The thematic focus of dissemination activities from month 18 to month 30 has been primarily linked to the kick-off of pilot operations in the five WiseGRID pilot sites in Belgium, Italy, Spain and Greece. All communication aimed, as before, to disseminate the WiseGRID rationale, objectives and approach. The project focused on various media, material and networks that have been used or created, and the events that have been attended or organised, with the aim of promoting the project research activities and results and fostering the project's exploitation potential.

1.1 PURPOSE OF THE DOCUMENT

Dissemination refers to all internal and external activities which sustain the results of the project. The aim is to communicate the results to different target groups that can be assumed to be interested in the WiseGRID project. Resuming from the conclusions of the previous report D20.2, the present deliverable evaluates the continuation of the project's established dissemination strategy, and documents the activities undertaken in months 18 to 30 in the area of dissemination.

1.2 SCOPE OF THE DOCUMENT

Deliverable 20.3 is written under the scope of the Dissemination and Communication work package (WP20) in order to continue showcasing the project's dissemination and communication strategy, combined with the overall approach and expectations, the objectives and goals and the resulting messages and audiences. The document will provide a clear vision about the project's dissemination timeline, citizen engagement activities and the attended and planned events.

1.3 STRUCTURE OF THE DOCUMENT

The document is structured in seven clearly defined sections:

1. Introduction
2. Dissemination activities
 - a. General activities
 - b. Press releases and publications
 - c. Events and networking
3. Citizen engagement activities in WiseGRID pilot site regions
4. Cooperation Activities
5. Future Plans
6. Conclusion
7. Appendixes

The second section is the most extensive one, covering the totality of WiseGRID's dissemination and communication activities in the second period of the project. The activities are split between the project's broad online presence, at one hand, covering the status of the project's website (including web analytics), presence at different social media channels, press releases and the internal dissemination newsletter. At the other hand, this section also focusses on the various offline dissemination activities including public events the project has been part of, such as conferences, presentations and workshops, pilot site press conferences, events organized with the project's involvement, awards and accolades received by the project. Besides dissemination and communication activities, citizen engagement activities in the different pilot sites will be described and analysed. This section will showcase that engagement is not only providing information and gaining support from citizens, it is also about reinforcing the sense of community and building up citizenship

in a participatory process to better deal with the challenges of the WiseGRID tools deployment in the pilot sites.

On top of that the cooperation activities between different H2020 projects and WiseGRID participation in BRIDGE working group activities will be discussed. Moreover, the future plans for dissemination activities will be showcased.



2 DISSEMINATION ACTIVITIES

This section gives a broader overview of the dissemination and communication activities performed during this year. The section outlines the activities undertaken to ensure a common view and foster an efficient working environment among the project partners themselves. For each respective category we give further details regarding what each activity entailed, what has been the respective frequency etc.

2.1 STRATEGY SUMMARY

As in the previous report the dissemination strategy of the WiseGRID project is based on four stages of the dissemination strategy:

1. Foundation
2. Construction
3. Implementation
4. Evaluation [1]

Establishing WiseGRID's creation of a citizen's engagement toolkit for pilot sites which were distributed among partners as a tool to support the dissemination activities in order to involve local citizens in different WiseGRID workshops was a major achievement of the second year of the project, together with ongoing engagement activities in the pilot site regions by the local partners. In addition, the continuous promotion on the social media platforms along with improvements of the project's official website and the engagement of its official Twitter, Facebook and LinkedIn accounts, it laid the groundwork for a sustained and coherent approach for dissemination and visibility of the project. Media coverage and participation in the local and European events drew attention to the project as well. The partners dissemination tracking sheet on events tracking revealed the partners' unanimous commitment to making the project known both regionally and internationally, tallying 59 public events with WiseGRID participation.

2.2 WEBSITE

Similar to the previous reporting period, the project website [2] remained a central point for building an online community by providing a platform where people could check the projects process at any time. Summarized, the website contains all the necessary information regarding the project's objectives, the consortium, the pilot sites, the tools that have been developed, news items and press releases, resources like publications and presentations, an overview of WiseGRID related events, reporting of the project's results, contact information and information about the Bridge initiative. Note that all deliverables (categorized as public in the Grant Agreement) are publicly available and free of access.

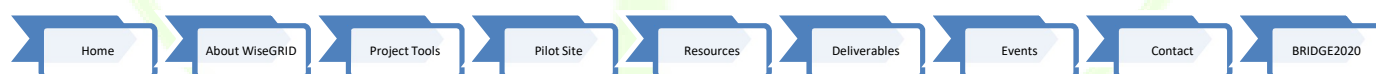


Figure 1 – The WiseGRID website Structure

Besides the regularly content updates, only minor structural changes were integrated on the website during this reporting period. The most visible change can be seen at the pilot site sections. Analytical website data and hands-on feedback from partners and pilot site citizens were at the basis of restructuring the pilot site sections. A submenu was added to each of the pilot site pages, both in English as in pilot site language. Every pilot site page consists of five building blocks including general information, an overview of upcoming and past events, information about the tools that will be tested, the use-cases that will be implemented and a gallery with pictures from the pilot site or citizen engagement activities.

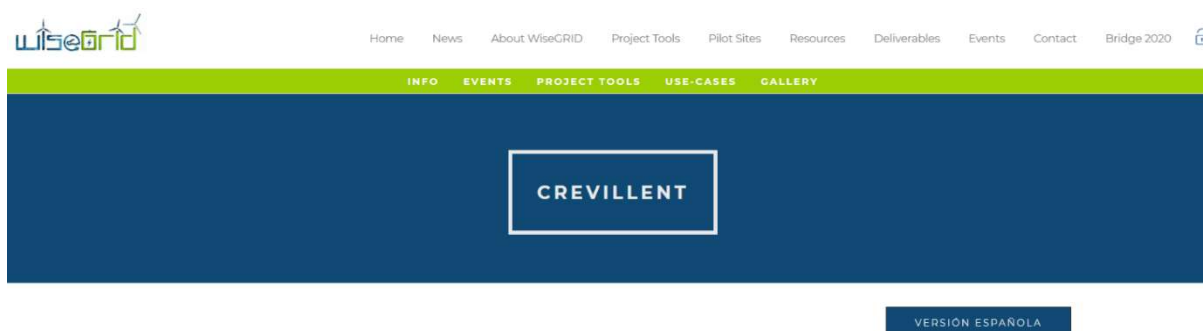


Figure 2 – Pilot site section with submenu

Another page that got a slightly different look and feel is the ‘news’-section. Again, a submenu was added to enhance the structure, readability and attractiveness of this section. The submenu consists of different tags categorising the different types of news. In one click a visitor can get an overview of each of the subtypes of news items. On the news page there are press releases, award news, issued newsletters and news about the pilot sites.

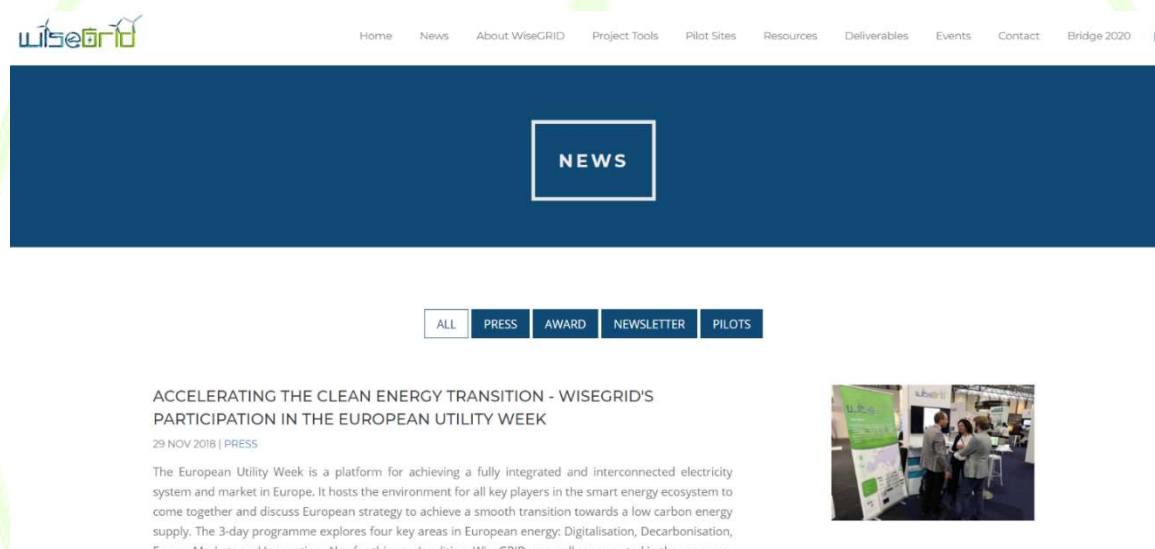


Figure 3 – News page with submenu

Data from Google Analytics shows that the official WiseGRID website has attracted around 10.116 visitors (more than half of those were new visitors) from April 2018 till April 2019 (M18-M30). This generated over 17.500 page views. The four pilot site regions – Spain, Belgium, Greece and Italy are well represented in the list of the ten countries that are visiting the WiseGRID website the most. The average time spent on the WiseGRID website is around one minute and people check out on an average basis two pages per visit. This learns us that visitors of the WiseGRID website do more than just having a look at the homepage. With the ‘Questions’-pop-up we aim to convince people asking questions via email in case they don’t find their way on the website.

2.3 SOCIAL MEDIA

To engage with the ever growing communities in social media WiseGRID also has a strong presence on Twitter and Facebook and a business page on LinkedIn. WiseGRID’s Twitter account (@WiseGRID_H2020) has continued growing, reaching 843 followers as of mid-April 2019. WiseGRID’s Facebook account has 181 likes and 205 followers. These social media accounts are mostly used to provide information on upcoming events, to share pictures from consortium meetings and other events, sharing quotes from high level policy events, update on new project developments and report on citizen engagement activities and milestones in the

changing European legislative energy landscape (clean energy package) to engage the followers in our progress. Especially the consortium meeting generated high interest within our accounts. On top of that we can monitor website access spikes after popular posts. The twitter account regularly interacts with those of BRIDGE initiative, as well as with those of Smart Grid projects under H2020 funding scheme and other relevant initiatives, particularly through mutual retweeting. This showcases the importance of interconnectivity of the WiseGRID project with other projects or events within the same scope.

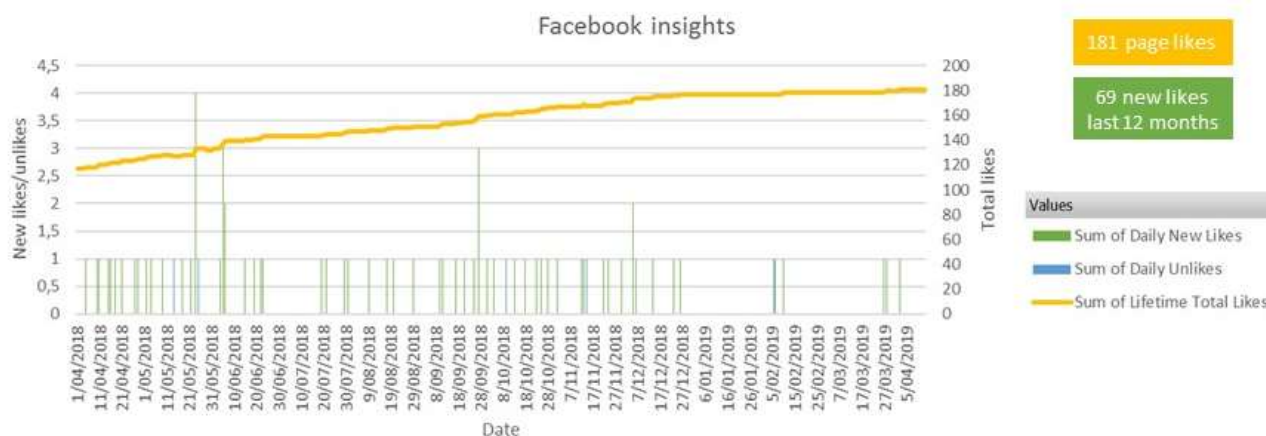
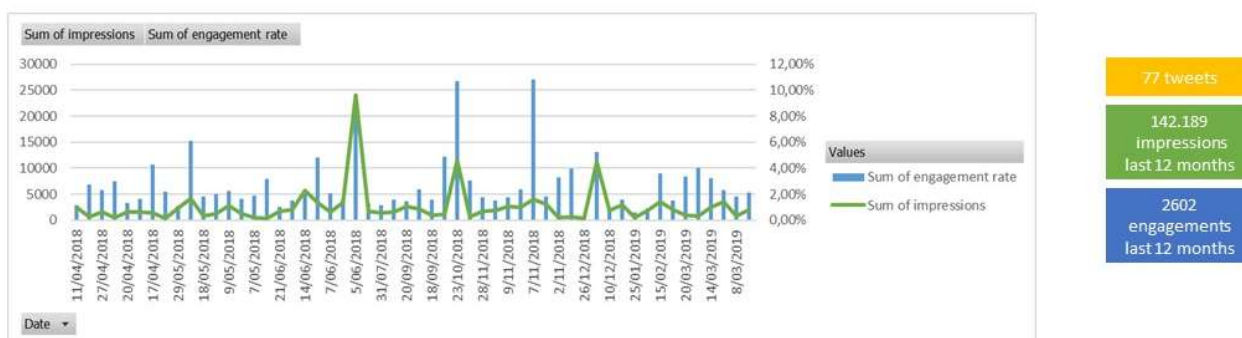


Figure 4 – Facebook insights M18-M30



*numbers imported from the Twitter account (April 2018 – April 2019)

Figure 5 – Twitter insights M18-M30

While Facebook and Twitter generate interest from the broader public, the LinkedIn page attracts mainly business related stakeholders. Project partners as well as other smart grid related projects or businesses showed interest in our LinkedIn profile. Analytics show us that the main countries from the consortium are well presented in the top 10 list.

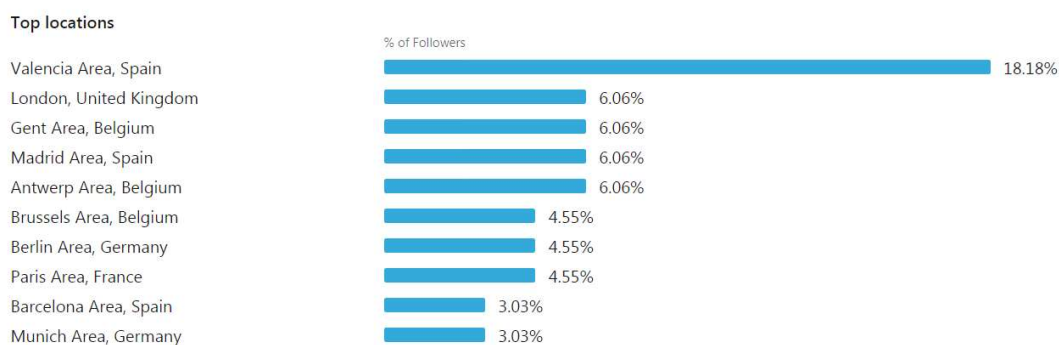


Figure 6 – LinkedIn demographic insights

Furthermore, the WiseGRID information is always embedded in the REScoop.eu social media network. This enables a crosscutting conversation with a broader audience and frames the project in the broader context of community energy, energy transition and energy democracy. Therefore the REScoop network benefits from the WiseGRID project as it enhances the cooperatives knowledge about the technological knowledge that is being built in the WiseGRID project. On the other hand, WiseGRID benefits from the unique proposition of REScoop.eu, offering citizens something that is often overlooked in the energy sector – ownership, control, and a voice in how the business operates.

Moreover, continuously encouraging project partners to engage with our social account also resulted in a better connection with some of our partners social media channels.

Relevant hashtags such as #empoweredcitizens, #smartsystems or #Smartgrids as well as specific event hashtags have been used in most social media appearances. The last year, much important work has been done related to acknowledging citizens and their communities in EU energy policy. Therefore, a lot of social media posts were linked to those - mainly positive - developments as the citizen engagement part of the WiseGRID project is obviously closely related.

Social media posts have the most interactions (likes, retweets, shares) when they are well targeted and linked with offline presence of one or more partners of the WiseGRID consortium (e.g. during a consortium meeting the awards ceremonies or important events like the Utility Week).

2.4 PROJECT VISIBILITY

The WiseGRID logo and the project templates haven't changed, keeping the same style and colour scheme as it was already delivered in the Dissemination Master Plan in D20.1 [3]. A new poster will be created in M30 to highlight the three awards WiseGRID has won in 2018. Moreover, a new version of the leaflet including the awards has already been created.



Figure 7 – new design to include in poster, flyer & factsheets

After winning the Good practice award of the Renewable Grid initiative in May 2018, the project has been awarded in the framework of the EU Sustainable Energy Week in June 2018.

First, a high-level jury appointed WiseGRID as Best Energy Project of Europe in the category of Businesses. One of the reasons WiseGRID stood out is because it proves that social revolution and innovative technologies can go hand in hand. Secondly, the project received the EUSEW Citizens Award, which was awarded by a popular vote. It made 2018 undoubtedly a year of success for WiseGRID which managed to win three awards in two important events.

Due to this awards the WiseGRID project got a lot of extra visibility which increased both offline and online attention for the project. The momentum was used to highlight the project uniqueness and objectives to a broader public. Winning the awards resulted in more website visitors and higher engagement rates on social media.



Figure 8 – Highlighting the awards on social media

After the citizen engagement workshops performed in 2018, a feedback leaflet was created and made available on the project website on each of the pilot site sections. The aim of the feedback leaflet is to increase transparency on one hand and enhance the feeling of involvement towards workshop participants and pilot site citizens in the broader context in the other hand. In annex

ANNEX C – FEEDBACK LEAFLET FOR CITIZEN ENGAGEMENT WORKSHOP an example of a feedback leaflet can be consulted.

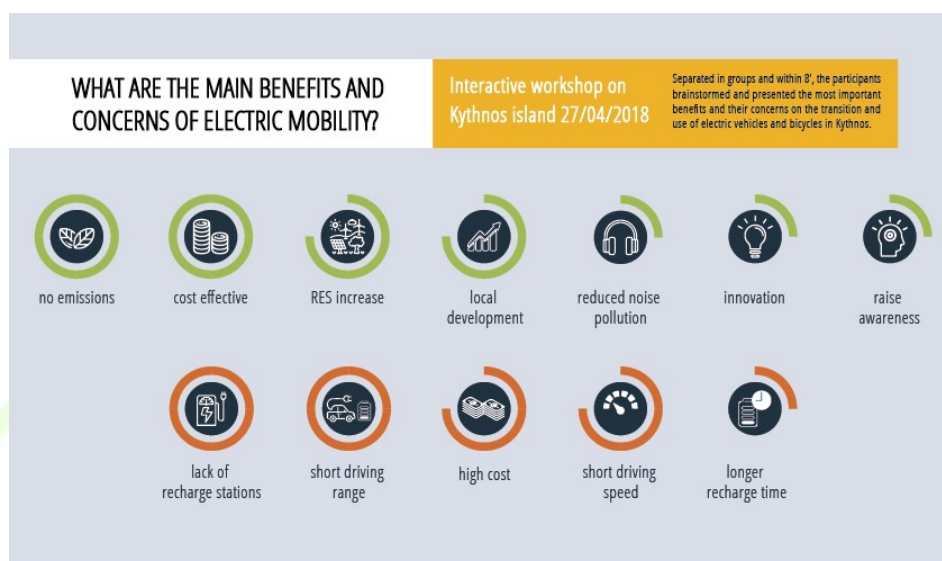


Figure 9 – one part of the feedback leaflet of Kythnos

Moreover three videos have been created. A first video [4] was created due to our nomination for the EU sustainable energy awards. This attractive video was created by the EUSEW team to present the main highlights of the project. It featured the coordinator of the WiseGRID project, ETRA, explaining the added value of the project. A second BuzzFeed video [5] (photo and text slideshow) was created to present the different pilot sites at the EU project zone of the European Utility Week that took place in November 2018. WiseGRID was part of the networking village for exchanging information, experience, knowledge and best practices both with visitors and other Horizon 2020 funded projects and showcased the different pilot sites by broadcasting the pilot site video. The third video [6] was created by project partner Partago and gave detailed insights in the Ghent pilot site. The video was recorded during the consortium meeting in Ghent in October 2018 and featured several WiseGRID partners. The video is mainly used in online communication to attract the interest of the broader public as it gives concrete information about the impact of the WiseGRID project at a local citizens level.



Figure 10 – Snapshot from the EUSEW video

In December 2018, WiseGRID participated in a side event during COP24 [7] in Katowice, focusing on the WiseGRID mobility solutions. For the occasion a special event poster has being created together with the co-organiser, the Bellona Foundation. The poster, as well as the side event description was included in online and offline UNFCCC communications, therefore giving WiseGRID high level visibility in Europe and beyond.

The poster is included in ANNEX E – POSTER FOR WISEGRID SIDE EVENT AT COP24.

Furthermore, a WiseGRID sticker was designed at the beginning of 2019. The design consists of the WiseGRID logo surrounded by the nine icons of the WiseGRID tools. The sticker was disseminated to the project partners and will be used during conferences or to share with pilot site citizens or other interested stakeholders. It provides a visible trigger to explain the aims and tools of the WiseGRID project.

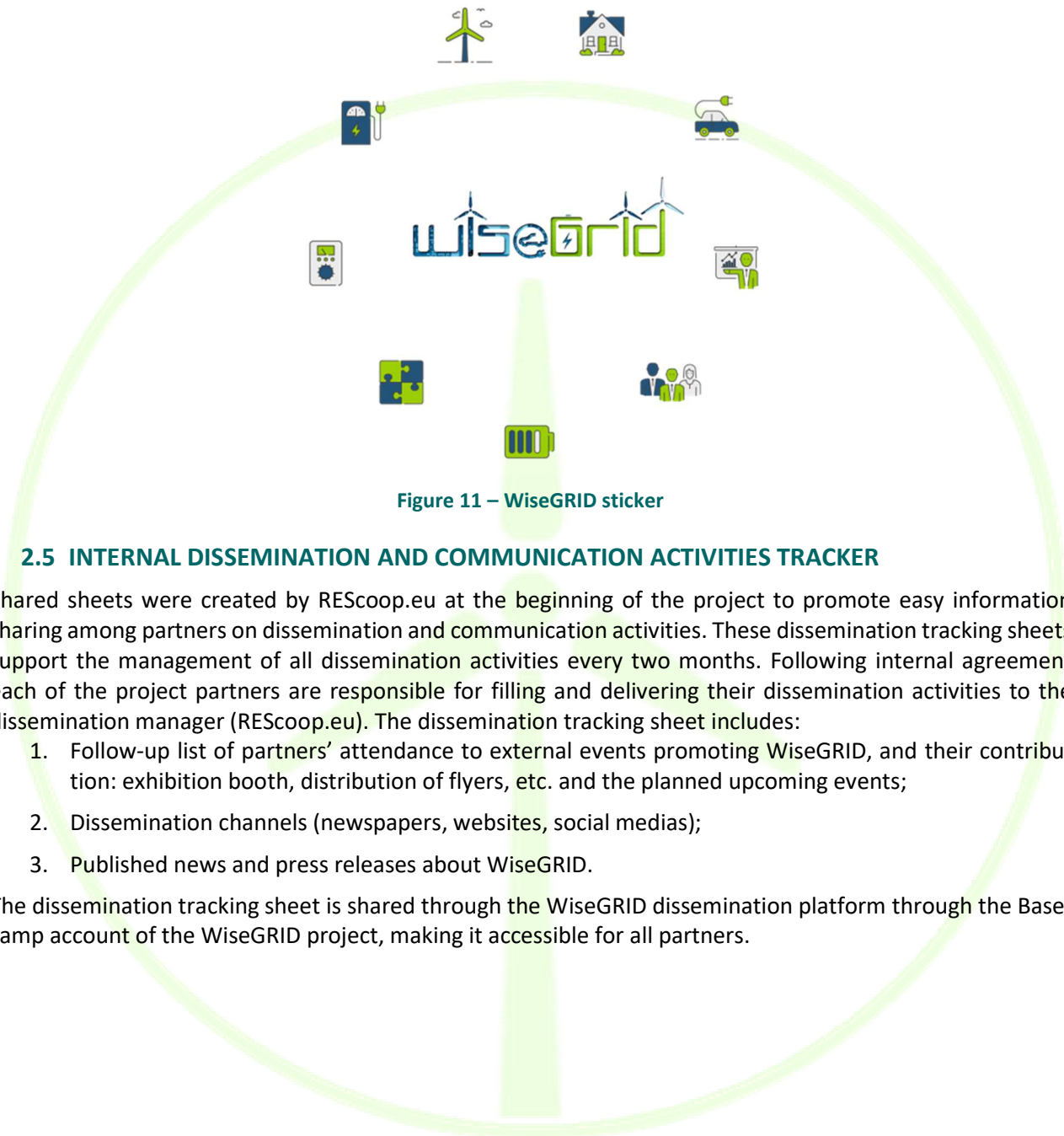


Figure 11 – WiseGRID sticker

2.5 INTERNAL DISSEMINATION AND COMMUNICATION ACTIVITIES TRACKER

Shared sheets were created by REScoop.eu at the beginning of the project to promote easy information sharing among partners on dissemination and communication activities. These dissemination tracking sheets support the management of all dissemination activities every two months. Following internal agreement each of the project partners are responsible for filling and delivering their dissemination activities to the dissemination manager (REScoop.eu). The dissemination tracking sheet includes:

1. Follow-up list of partners' attendance to external events promoting WiseGRID, and their contribution: exhibition booth, distribution of flyers, etc. and the planned upcoming events;
2. Dissemination channels (newspapers, websites, social medias);
3. Published news and press releases about WiseGRID.

The dissemination tracking sheet is shared through the WiseGRID dissemination platform through the Basecamp account of the WiseGRID project, making it accessible for all partners.

Consortium Partner Name			
Activities	Task	Number	Date
Presence on social media	Facebook		Partners are expected to follow WiseGRID on Facebook, Twitter and Instagram, tag the project while posting any news related to WiseGRID, retweet and repost at least one tweet or Facebook post a month. Send one project related update that could be shared on social media every month to the REScoop team
	Number of feeds produced		
	Twitter		
	Number of re-tweets		
	LinkedIn		
Scientific Publications	Number of post produced		WiseGRID partners are expected to publish results in scientific (peer-reviewed) publications. Joint publications among WiseGRID partners are highly encouraged
	Instagram		
Press releases/Publications	Number of re-post		Partners are encouraged to have an abstract about the particular events they are organizing. Also partners are encouraged to work together in producing the publications with WiseGRID material and content.
	At least one publication produced		
	Proportion of joint publications		
Promotional and Dissemination Material	Number of publications co-produced	2	All partners have to download the copy of the factsheet brochure for distribution (print or electronic) to their personal and institution network of contacts. Partners are encouraged to translate the factsheet into their own language. The protocol for translation is described in the Dissemination Master Plan
	Number of publications produced		
Participation in thematic events	Number of coordinated press releases		Only events that were known in advance will have an opportunity to be eligible to the expenses on the project.
	No of events attended		
	No of events organised		

Dear Partner,
 Please fill:
 Your Organisation Name
 Number of activities

KPI tracking tool | WiseGRID_atended events | WiseGRID_future events | WiseGRID_publications | (+)

Figure 12 – Internal WiseGRID dissemination tracking tool

3 PROJECT PRESS RELEASES AND PUBLICATIONS

This section gives an insight in the already strong presence of WiseGRID in the public space. Presence in terms of publications, journals and other media increases the project's visibility in the academic and research community and supports a more general public debate.

3.1 PRESS RELEASES

The main press releases in this reporting period were created to outline the 3 Awards won by the WiseGRID project and were placed in the WiseGRID website. In addition, the most press releases were created, targeting local media contacts in the different pilot sites in order to give more concrete information to the local level, increasing the visibility of the project and emphasizing and explaining what is happening in the respective local pilot site. This dissemination is carried out in synergy with all partners, sharing the press release through their networks in English and local language. The outline of the press releases can be seen below in the Figure 13.

The name of the press release	Date	Partner contribution
Tools for Smarter Grid	14/05/2018	REScoop.eu
WiseGRID wins the 'Good Practice of the Year Award' 2018	24/05/2018	REScoop.eu
Active participation by citizens in decision making processes for local development	01/06/2018	REScoop.eu
WISEGRID Project keeps on receiving international awards	08/06/2018	ETRA
EUSEW Awards: WiseGRID wins Twice!	30/06/2018	REScoop.eu
Citizen engagement in Kythnos	27/04/2018	AEGEAN
Citizen engagement in Crevillent	15/03/2018	Enercoop
Citizen engagement in Mesogia	25/09/2018	HEDNO
Kick-off event Buurzame Stroom	11/03/2018	Energent

Figure 13 – Press releases for the WiseGRID consortium

3.2 NEWSLETTER AND EMAIL BLASTS

The WiseGRID's newsletter list has 100 external subscribers and 85 WiseGRID partner subscribers as of mid-April 2019. The newsletter aims to keep project stakeholders and partners informed about the project's recent and planned dissemination activities. Joined activities like the consortium meetings are also included and achievements like winning awards are highlighted. Partners are actively encouraged to share their dissemination activities and other developments that might be of interest of the consortium and the broader public, which are then being included in future issues of the newsletter. In February 2019, a newsletter was issued to give a project update and to highlight the successes WiseGRID envisaged in 2018.

Campaign URL	https://mailchi.mp/6c1651abdc0/wisegrid-february2019-686573
	Edit
Delivery date & time	Fri, Feb 01, 2019 6:00 am
From name	WiseGrid_EU
From email	contact@wisegrid.eu
Subject line	WiseGRID #February 2019
Preview text	2018: a year of successes for WiseGRID
Recipients	Sent to a segment of audience: WiseGrid newsletter Contacts match any of the following conditions:

Figure 14 – Details of the February 2019 newsletter

The newsletter had an open rate of almost 40% and a click through rate of about 14%. Analytics show as well that the video about the Ghent pilot caused most of the traffic towards the website (one of the aims of the Newsletter). This teaches the Consortium that using audiovisual material and especially video is highly successful in reaching interaction and engagement with WiseGRID's online audience.

Consortium meeting in Ghent

A windy pilot site visit, an impressive e-fleet & much more!



Figure 15 – item about the Ghent consortium meeting with embedded video

WiseGRID project is also part of the BRIDGE newsletter and several partner organisations' newsletters. WiseGRID is often mentioned in the newsletter of REScoop.eu (European federation of renewable energy cooperatives) which is issued once a month and has an audience of about 1400 Newsletter subscribers.

3.3 RESEARCH PAPERS AND ARTICLES

Project partners are committed to publish technical articles, papers and reports presenting project activities and results in highly reputed journals and magazines to spread knowledge among the identified manufacturing and research target groups and ensure sustainable exploitation of the project outcomes. All possible research papers are published according to the internal protocol followed by project partners.

PROTOCOL:

It is strictly advised that:

- Scientific publications resulting from WiseGRID project must be submitted electronically through

- Basecamp 45 days before the intended submission date, notifying all partners.
- Any objection to the planned publication shall be made in accordance with the Consortium in writing to the Coordinator and to any Party concerned within 30 days after receipt of the notice.
- If no objection is made within the time limit stated above, the publication is permitted.

Figure 16 – Protocol for publications

Following the KPI indicators the project partners have delivered three scientific publications that are already publicly available and displayed on the WiseGRID website under the resources category and can be seen in the table below:

The name of the scientific publication	Date	Partner contribution
MEDPOWER 2018 Higher flexibility through new empowered energy communities	18/09/2018	ETRA (Authors: Manuel Serrano, Lola Alacreu and Álvaro Nofuentes)
Smart Grid Architecture, Communications and Data Model: The WiseGRID approach	23/10/2018	HEDNO (Authors: Dimitrios Stratogiannis, Stamatia Gkiala Fikari)
Innovative Tools for Demand Response Strategies: a Real-Life Experience	5/06/2019	ASM, in collaboration with ENG

Figure 17 – The research papers from the WiseGRID consortium

In addition, the WiseGRID consortium partners delivered another 7 publications that were associated with the project also but are not the research papers that directly resulted from the project and are also already publicly available and displayed on the WiseGRID website under the resources category The full list will be displayed in

ANNEX A THE RESEARCH PAPERS AND PUBLICATIONS

THE WISEGRID PUBLICATIONS IN THE 3RD REPORTING PERIOD					
Publication	04/06/2018	HEDNO	Publication at the quarterly published scientific review of HEDNO "Συμμέτοχοι στη γνώση" (Participants in knowledge) published in July.	Greece	https://www.deddie.gr/en/dimosieuseis/dimosies-diavouleuseis/dimosia-diavouleusi-promitheia-logismikou-meletwn
Article	22/06/2018	QMUL	Netherlands Yearbook of International Law Prosumers: New actors in EU energy security	Netherlands	https://www.springer.com/gb/book/9789462652422
Article	6/08/2018	QMUL	Prosumers as new energy actors	London	http://www.law.qmul.ac.uk/media/law/docs/staff/ccls/Prosumers-as-new-energy-actors_RERIS2018_004_v1.pdf
Research paper	23-24/10/2018	HEDNO (Authors: Dimitrios Stratogiannis, Stamatia Gkiala Fikari)	Smart Grid Architecture, Communications and Data Model: The WiseGRID approach	Greece	http://giis-2018.org/
Paper (Authors: Manuel Serrano, Lola Alacreu and Álvaro Nofuentes)	18/09/2018	ETRA	MEDPOWER 2018 Higher flexibility through new empowered energy communities	Croatia	http://medpower2018.com/
Publication	31/1/2018	R. Leal-Arcas and A. Morelli	The Resilience of the Paris Agreement: Negotiating and Implementing the Climate Regime	London	< https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3236985 >,
Journal article	5/02/2019	AUEB and QMUL	Business models for decentralized energy	USA	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3346500
Publication	5/03/2019	QMUL	Regulation, innovation, and technology for the 21st century energy goals, Journal of Law and Cyber Warfare, Vol. 8, Issue 1, 2019	London	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3346527
Publication	22/03/2019	QMUL	Re-thinking global climate change: A local, bottom-up perspective,	London	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3358825
Publication	5/06/2019	ASM, in collaboration with ENG	Innovative Tools for Demand Response Strategies: a Real-Life Experience		

4 EVENTS AND NETWORKING

This section gives a brief overview of the events and conferences organized or performed by the consortium which facilitates dissemination of the project results to different stakeholder groups and represents an opportunity to receive valuable feedback from those stakeholders.

4.1 EVENTS ORGANISED BY THE PROJECT

Project partners have been very active in different conferences, events and formal meetings with different stakeholders to disseminate and outline the first results of the WiseGRID project, all together we participated in 58 events in total, full table of the events can be seen in the ANNEX B THE WISEGRID EVENTS , below the summary of events is outlined:

The thematic events	Number
Conferences	32
Workshops	15
Meetings	12

Figure 18 – The summary of WiseGRID attended events

The WiseGRID consortium has a high percentage of women representing the project in high-level conferences. The partners actively try to foster gender balance whenever participating in WiseGRID meetings, conferences or workshop. Communication and dissemination partner, REScoop.eu has launched a working group within her network to work around the topic of gender equality in REScoops at the end of 2018. This also means that gender balance will be aimed for when compiling programs or panels for high level WiseGRID events.

Presenters & collaborators in events	Number	Percentage
Men	65	52%
Women	60	48%

Figure 19 – Gender breakdown WiseGRID representation

4.2 INTERNATIONAL ADVISORY AND END-USER GROUP ACTIVITIES

In order to promote activities for the end-users and to tackle the best practices from experts, the group of International Advisory Board (IAB) and User group (UG) are involved as much as possible. The goal of bringing the different experts together is to share results and experiences across the dimensions of energy empowerment, smart grids, decentralized energy organizational models and implementation process. In order to deliver this goal a special webinar was created and held on 27th of September 2018 by REScoop.eu and ETRA I+D for WiseGRID IAB (International Advisory Board) and UG (User Group). During the webinar the WiseGRID project tools and citizen engagement activities were described to the participants following the discussion and questions and answers session. After the webinar a survey was distributed to the participants in order to find the most suitable ways and tools to engage with the members of the group. The results were summarized and made available in the [WiseGRID project website](#) [1] and new following webinar sessions will be organized.

5 CITIZEN ENGAGEMENT ACTIVITIES

This section outlines the activities of citizen engagement in the different pilot sites. The purpose of the citizen engagement activities in the WiseGRID project is to create a frame that can be useful for the technical developers of the project that are developing WiseGRID tools in the pilot sites that involve the offer of innovative services and products. In addition, these citizen engagement processes are willing to create the conditions that enable the sharing of the opinion of the local citizens and create a better understanding of citizen's mind-sets' towards the technological tools being developed (WiseGRID apps in this case). Moreover input from citizens was collected through the dissemination of a questionnaire (D16.1). The aim of this questionnaire is the direct involvement of the end users in a set of participatory questionnaires in order to extract the social impact that end users will have after the WiseGRID tools will be implemented in the pilot site regions in Spain, Greece, Belgium and Italy. The targeted groups that are addressed by this deliverable are governance teams (public and private stakeholders), associations, lead users and - most important - the citizens of the pilot sites. During this reporting period, many activities that was held on the pilot sites were a follow -up actions by the local pilot site partners after the first round of workshops that was held in 2017. We made an analyses of this first round of workshops which can be found in ANNEX D – ANALYSIS OF CITIZEN ENGAGEMENT WORKSHOPS.

5.1 GHENT (BUURZAME STROOM) PILOT SITE

After the first citizen engagement workshop performed in March 2018 in the frame of the Buurzame Stroom kick-off, pilot site partners (Partago, EnergielD and Ecopower) managed to facilitate an ongoing conversation with the pilot site citizens. The information about the WiseGRID project is being highlighted at the Buurzame Stroom website [3] as well as at the pilot site section on the WiseGRID website. During the summer, the Buurzame Stroom project was presented at several local neighbourhood events and festivals. Partago organised a Partago Café [4] dedicated to WiseGRID. A Partago Café is a meeting in a neighbourhood in Ghent to bring citizens together to talk about topics such as sustainable mobility, clean air, renewable energy and much more. During one of these cafés the WiseGRID project has been explained and discussed with local citizens. WiseGRID channels were used to extra promote each of the local pilot site events.

At the beginning of April an information workshop was being organised in the Ghent pilot site. Around 100 citizens that will test the Wisehome application were brought together in the local commune building in the Dampoort Neighborhood in Ghent. The context of the WiseGRID project was introduced to the citizens once more and more details about the WiseHome application and the testing of the tool were being shared. The citizens got the opportunity to ask questions and share their opinions and concerns. The WiseGRID information part coincided with information about the cVPP project [5], an Interreg funded project that aims keep energy as much as possible within a local cluster and by doing so to create a self-sustainable neighborhoods. Both WiseGRID and cVPP are part of the Buurzame Stroom project and by collaborating with each other, it is made easier for citizens to participate and minimize their efforts for testing. After the more formal part of the workshop, drinks were provided to continue the conversation in a more informal and relaxed way.



Picture 1 – Wisehome information workshop

5.2 CREVILLEN (SPAIN) PILOT SITE

After the last citizen engagement workshop organized together with REScoop.eu in 2017, the energy cooperative Enercoop engaged in various activities in order to adapt to the upcoming WiseGRID technologies and inform and engage local people of the Crevillent. The main steps taken by the pilot site members were:

- Informing citizens about WiseGRID tools related to technological developments in different areas of Crevillent;
- Summarizing the feedback from the citizens and updating the tool developers.

These two goals were achieved by creating a campaign of communication and contact with the chosen consumers is being prepared to give their consent and complete the questionnaire from D16.1 as much as possible, indicating the possible improvements in their consumption using this application and motivating them to use it. At the moment 48 questionnaires were filled, however the cooperative is willing to include more efforts in order to obtain 100 questionnaires from the citizens. Since the pilot site partners see a huge interest in connecting with the local community, the cooperative is planning to have an informal session with each of the tool users in order to engage the citizens to use the application and even visit the homes of the citizens in order to teach, explain and motivate people to use the application. A customer service will be available to facilitate the use of the application.

Citizen engagement in developing new solutions is a valuable input to the innovation process first because it yields opportunities for accessing more ideas, from more divergent sources. And second, when ideas come from citizens themselves rather than being parachuted in from the outside, they are more likely to represent responses to genuine needs, and in turn to receive wide acceptance.



Picture 2 – WiseGRID tool (WG Fast V2G) delivered to Crevillent

Following these steps the pilot site members believe to increase the capacity of the local citizens in raising people's awareness of the significance of using ICT interfaces, reducing the gap between 'technicians' and

‘non-technicians’, encouraging collaboration among public and private institutions to develop and disseminate innovative teaching methods, and supporting skills exchanges and ICT-enabled learning in the local community.

5.3 KYTHNOS (GREECE) PILOT SITE

After last citizen engagement workshop organised in 2018 in cooperation with the local pilot site partner (AEGEA), REScoop.eu started to engage in the process of co-development of engagement techniques with the local community.

Since main tools that will be tested in the Kythnos pilot site will be used for local stakeholder’s more than citizens themselves the local pilot site leaders decided to create the process of co-creation for the developing of local solutions to Kythnos island. These solutions refer to support in gathering the required information about the tools and their benefit for the island.



Figure 20 – Kythnos pilot site overview

However, the pilot site leaders still performed and delivered the questionnaire to the local stakeholders in order to incorporate the ideas from local population in order to improve an existing service or model. The main results of the questionnaire can be seen on the WiseGRID website for the Kythnos pilot site. The local pilot site partner will engage in the follow-up meeting with the local citizens to outline the importance of the WiseGRID project.

5.4 MESOGIA (GREECE) PILOT SITE

A citizen engagement event for Mesogia pilot site was performed on the 25th of September 2018 at the Mesogia Area HEDNO’s building located in the region where the centre of WiseGRID tools deployment will be. The event was the result of cooperation between WiseGRID and GRIDSOL, another H2020 project in which ETRA, HEDNO and ICCS participate, and was co-organised by HEDNO and ICCS in collaboration with Cobra, ETRA and Rescoop.eu. Moreover, the event was supported by the Greek WiseGRID partners being present at the workshop, making presentations and discussing with the rest of the participants.



Picture 3 – WiseGRID – GRID SOL common event

The one-day workshop consisted mainly of two parts: one devoted to GRID SOL and one to WiseGRID bridged with a panel session focused on RES integration and innovation projects. Initially, there was an introduction to both projects and this was followed by GRID SOL partners' talks on the subjects of modelling smart renewable hubs, innovative solar field configurations and multi-tower concept, the dynamic output manager of energy for different configurations, feasibility and adequacy of smart renewable hubs in European electric power system and in the electric power system of European islands (including the case of the Greek island of Crete). After each session, there was time given for questions on the presented topic and clarifications on the chosen approach.

Afterwards, representatives from the European projects CROSSBOW, Flexitranstore, inteGRIDy and SOCRATSES had the chance to present their work and participated in a panel session and discussion with the audience regarding RES integration and the transformation of the energy sector in Greece, its progress, existing barriers and needed incentives along with several invited stakeholders from the Greek Energy Market (e.g. Transmission System Operator).



Picture 4 – Panel session

The afternoon sessions were dedicated to WiseGRID project and the attendants were informed about its general idea, the deployment of the tools in the Mesogia area, the advanced services provided by the smart meters (SMX, SLAM) by ICCS. Furthermore, AUEB presented the socio-economic impact of the proposed solutions along with emerging business opportunities and the public access to this information. Finally, the attendants were informed about the corresponding citizen engagement event organized by AEGEAN at Kythnos so that the citizens of Mesogia would be familiarized with the concept of the event and encouraged to talk and express their opinions, doubts and possible propositions. This part ended with an open discussion where citizens and representatives of the municipalities had the chance to ask their questions, clarify which

are the targets of this pilot and how they can participate in it. After each presentation, there was some time provided for questions. The invited speakers of this part were talking in Greek, but respecting the hosted GRIDSOL consortium, the presentations were in English, so that all participants could actually understand.



Picture 5 – Participation in the workshop

For the preparation and dissemination of the event, HEDNO cooperated with ICCS, Cobra, ETRA and Rescoop.eu and there was a lot of material prepared: a common poster - invitation and press release in English and Greek, solely WiseGRID invitations sent to the Municipalities of Mesogia area, translated subtitles in Greek for a video regarding WiseGRID project in the area, showing of both WiseGRID videos. Finally, there was a table at a corner in the room with the prepared WiseGRID fact-sheet of Mesogia pilot site, an SMX, a SLAM and other projects' brochures so that the people could request additional information and description of the smart meters' function. What is more, questionnaires were given to the participants to provide their feedback on how they felt about this workshop (and based on the results, people were in generally satisfied and felt informed about the project). Finally, this event was considered as an excellent opportunity for a "trial" of the Questionnaire for consumers/prosumers created in the framework of WP16 and included in deliverable D16.1 "Impact assessment and cost-benefit analysis planning" in order first to start collecting some answers, but also to see how well received it could be by citizens no familiarized with the smart grids and the related services. This gave to us the chance to interact more with the people and better understand their thoughts and perspective on this matter.



Picture 6 – Information stand

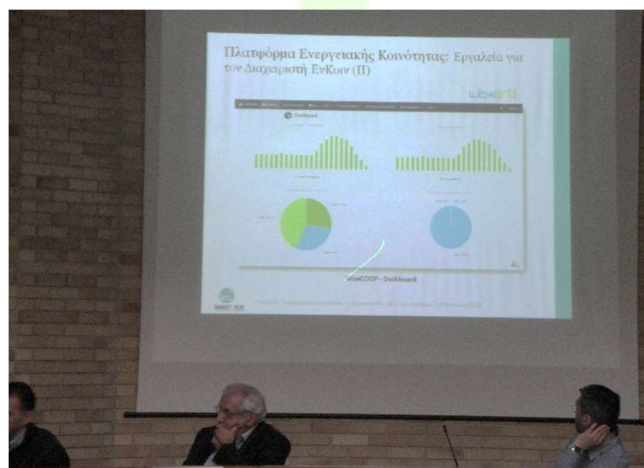
On 18th April 2019, WiseGRID partner ICCS collaborated with ELECTRA Energy cooperative to organize a workshop called 'Energy Communities, energy in citizens' hands' in Athens.

Local energy communities are tools for the transition to a more democratic and decentralized energy system that focuses on the action of citizens, local and regional authorities as well as their synergy and partnership toward the sustainable degrowth. The Energy Communities model, although quite widespread in northern Europe, is quite unknown in Greece, with few successful initiatives mainly emerged in recent years. This arises several questions such as: What are the best models?, What are the benefits that energy communities provide? What is the legislation framework? among others.

The aim of the workshop was to discuss these questions and to highlight sustainable models for the establishment of Energy Communities in Greece, taking into consideration the current legislation and regulation framework in collaboration with relevant experience from existing initiatives.

The event brought together relevant stakeholders from different sectors. The first part of the workshop focused on the new legislative framework with presenters from the ministry of energy, the national distribution system operator (HEDNO) and the depository bank of Greece. The second part was dedicated to social innovation and community energy best practices, methods and tools.

More than 150 people participated in the workshop. At the presentation focusing on techniques and technical tools that can be used by the Energy Communities and can support their activities, instances of the WiseCOOP and WiseHOME tools were presented, as relevant examples.



Picture 7 – Presenting WiseCOOP and WiseHOME as technical tools to support REScoops

5.5 TERNI (ITALY) PILOT SITE

After last citizen engagement workshop organized in 2018 in cooperation with the local pilot site partner ASM Terni together with REScoop.eu continued to engage with their local community.

ASM Terni gathered feedback about current experiences with the project tools and providing information about the current development of the WiseGRID tools deployed in the Terni area. This information accumulated in the form of questionnaires is an essential input throughout the development of WiseGRID tools. The pilot site partners believes that this step is especially important following the development of an innovation in the testing and implementation stages to understand how well an established WiseGRID tool might need to be improved. Survey method helped to successfully involve citizens in different ways to find out how they experience a particular need, how they over-come specific issues and to understand how well or how poorly a current service or product is working. The activity was often extractive since it is primarily

about citizens providing information about their experiences to whoever is driving the innovation process. All in all, 49 questionnaires were received and more follow-up activities such as telephone line and online consultation will be created in the following months.

Consequently the Terni pilot site also followed the implementation on the SMX devices installed at different companies and production activities of the city of Terni. In order to obtain the authorization for the installation, an informative letter has been written, which underlined the importance and usefulness of having this innovative equipment available.

Consequently, the letter has been turned into a confidential e-mail, then into a long paper letter and sent by post (signed by the Director of TDE- Terni Distribuzione Elettrica).

After two weeks from the delivery, each company manager was contacted by telephone since it seemed like the best way to directly communicate with the users and to give them a further explanation of the project.

A face-to-face meeting was arranged during which the Information Sheet and the Informed Consent for processing the personal data were signed by the users and then returned to one of ASM representatives in person or by e-mail. A technical sheet summarizing all the activities performed by the different ASM sectors has been created on a Google-Drive, and it is constantly updated to all variations and observed achievements.

Within Terni's area, 35 companies were engaged using this approach.



Figure 21 – Information leaflet for the survey in Terni

To finalize the 50 SLAM installations in the apartment building, it was necessary to contact the people who still had not signed the Information Sheet and the Informed Consent. In actual fact, some months ago a condominium meeting was held and the results were satisfying since 29 authorizations were signed. However, in order to close the first phase of the project it was decided to issue a poster (measuring 70x100) which explained the whole project and schedules for the following days. Two copies of such poster were hung up at the building's entrance. The same poster was printed as a letter, and together with the Consent form and Information sheet, it was put into the mailboxes of the 21 users who had not given their consent yet. Then, the 21 remaining users were contacted by telephone, the project was explained once again in its details, and in the end the last consents were signed during a specific meeting.



Picture 8 – Engagement meeting with local households in Terni

6 COOPERATION ACTIVITIES

WiseGRID closely worked with former H2020 projects and now feeds new H2020 projects and initiatives in the different energy fields (consumption, distribution, generation and transmission) and even in the smart city field. The following schema shows how WiseGRID interacts and collaborates with other initiatives reflecting how important is WiseGRID in its environment.

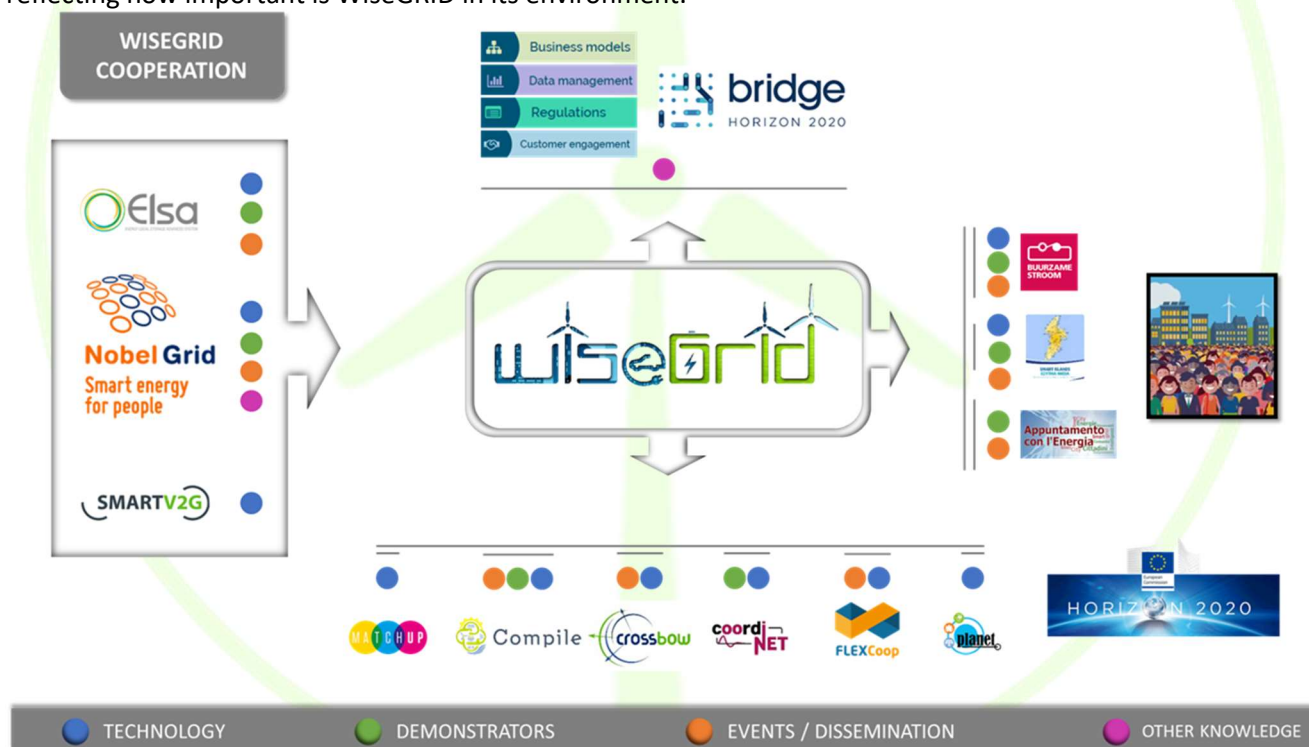


Figure 22 – WiseGRID synergic environment

6.1 FORMER H2020 PROJECTS THAT SUPPORTED WISEGRID

6.1.1 NOBEL GRID

NOBEL GRID [8] provided advanced tools and ICT services to all actors in the Smart Grid distribution system and retail electricity market, in order to create benefits from cheaper prices, more secure and stable grids, and cleaner electricity generation. These tools and services enable active consumer involvement, new energy

system actor business models and the integration of distributed renewable energy production.

6.1.1.1 TECHNOLOGY TRANSFER

NOBEL GRID has developed different technical solutions for its purposes and three of them have served as a basis for the WiseGRID project:

- Smart Low-cost Advanced Meter (SLAM), an innovative and affordable Smart Meter, based on the Unbundled Smart Meter (USM) concept, providing extended functionalities to all stakeholders within the Smart Grid energy system. WiseGRID is taking advantage of the SLAMs available from the common local partners of NOBEL GRID/ WiseGRID (Mesogia, Flanders and Terni). Also, four SMX (Smart Meter eXtension) have been installed in Crevillent and another one in Kythnos. This allows an easy communication between the tools and the different pilot assets.
- Grid Management and Maintenance Master Framework (G3M), the access point for Distribution System Operator (DSO) into the advanced functionalities and services offered by NOBEL GRID, providing electricity network monitoring and control functionalities. This product serves as a basis for the WG Cockpit. Apart from former functionalities like grid elements monitoring, incidents management and synoptic visualization (among others), within WiseGRID, the consortium is increasing and complementing the number of functionalities for providing a more complete tool for DSOs and microgrid operators. Some of these extended functionalities are power flow calculations, grid planning assistance, congestion forecast prediction...
- Demand Response Flexibility Market (DRFM) platform is a decision support system for Aggregators, Retailers and ESCOs to manage their flexibility assets while supporting grid operators to ensure network stability and security. This product serves as a basis for the WiseCOOP. Apart from former functionalities like monitoring customer's consumption, implicit Demand Response capabilities and tariff management, within WiseGRID, the consortium is increasing and complementing the number of functionalities for providing a more complete tool for retailers, aggregators and also energy cooperatives. Some of these extended functionalities are customers profiling, tariff generation, cluster comparisons...

6.1.1.2 DEMONSTRATION SITES SHARED

NOBEL GRID and WiseGRID share three pilot sites and WiseGRID is taking advantage of the previous work performed.

- **Flanders:** ECOPOWER will continue testing new technologies to enhance its business performance and also provide new solutions for its users. They are used to test this kind of tools (a tool for residential users and the DRFM) so WiseGRID can also take advantage of the SLAMs (10) and SMXs (190) already available for having a smooth deployment and demonstration phase for WiseCORP, WiseCOOP, WiseHOME and WG RESCO.
- **Terni:** ASM have tested in Terni the DRFM and the G3M for performing DR demonstrations in the pilot. WiseGRID has taken advantage of the installation of G3M in the pilot for having the topology of the distribution network and access to its SCADA, both required for the WG Cockpit. Moreover, the number of SLAMs (100) and SMXs (100) already deployed facilitated the integration of WiseHOME, WG RESCO and WiseCORP.
- **Mesogia:** Concerning the Pilot Site of Mesogia, NOBEL GRID and WiseGRID share the Meltemi camping. Also, during NobelGRID 155 SLAMs and 35 SMXs were deployed in Meltemi and the wider region of Mesogia (including Municipality of Rafina). WiseGRID will use them for collecting the data required for WiseHOME.

6.1.1.3 JOINT EVENTS/DISSEMINATION

Global Smart Energy Summit

ETRA presented WiseGRID together with NOBEL GRID (and also CROSSBOW) explaining how Horizon 2020 projects are working to provide advanced tools and ICT services to all actors in the Smart Grid to ensure

benefits from cheaper prices, more secure and stable grids and clean electricity.



Picture 9 – Panel discussion at the Global Smart Energy Summit on 7th of March 2018

Medpower 2018

ETRA performed a session in which presented its paper “Higher flexibility through new empowered energy communities” in which are shared the insights of NOBEL GRID, CROSSBOW and WiseGRID regarding the possibilities of flexibility in the energy transition.

2nd IEEE Int. Forum Smart Grids for Smart Cities

WiseGRID was presented together with NOBEL GRID and CROSSBOW in the session “New roles in the grid, customer engagements”.

19th International Conference on Environment and Electrical Engineering

ASM has successfully submitted the paper “Innovative Tools for Demand Response Strategies: a Real-Life Experience” which talks about the knowledge and the experience gained due to the ASM participation in both projects.

6.1.1.4 OTHER KNOWLEDGE

The **AUEB Business Model Evaluation tool** (formerly known as **NobelGrid Business model evaluation tool**) is a “what-if” scenario tool for the techno-economic assessment of innovative and interconnected business models. It is a state-of-the-art tool modelling value networks of multiple roles/actors, aiming at evaluating:

- business models enabled by innovative ICT technologies for individual, but interconnected, actors;
- combinations of business models for all actors involved on a certain value network;
- the overall Cost-Benefit of technologies and business models on the societies; and
- the replication & upscaling of business models to other geographical markets.

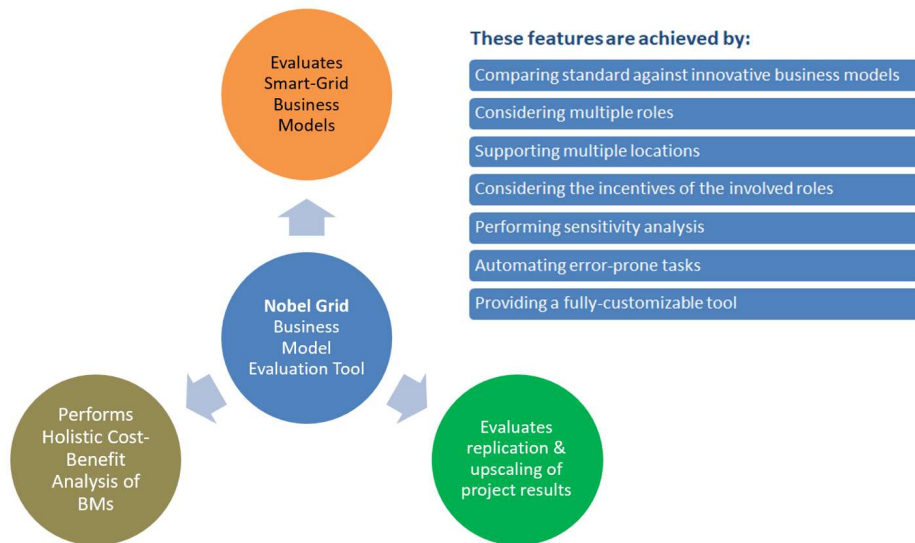


Figure 23 – The Nobel Grid business evaluation tool

A mature version of the tool was made freely available for download from the NobelGrid website (<https://nobelgrid.eu/business-model-evaluation/>) since November 2017 and was endorsed by the EU-supported BRIDGE initiative on business models for the smart grid vertical industry (<https://www.h2020-bridge.eu/>). All features above were successfully tested in the context of NOBEL GRID environment (there is an ongoing extended validation in WiseGRID project as well) involving:

- 11 value networks in the smart grid domain composed of innovative business models for up to five key market players, namely Distribution System Operators (DSOs), Energy Service Companies (ESCOs)/Aggregators, Retailers, Consumers and Prosumers;
- 5 locations: Terni (IT), Valencia (ES), Manchester (UK), Attica (GR), Flanders (BE).

The **AUEB Business Model Evaluation tool** in the context of WiseGRID will be extended and tailored for WiseGRID's pilots and tools in order to perform a cost-benefit analysis of individual products and services, which are combined in arbitrary ways and support the realization of new business models by one or more market actors. In other words, the purpose is to understand what share of the end-to-end benefits in the value network are attributed to a certain product and eventually be used for estimating the return on investment of each product owner. For example, one key differentiation with NobelGrid is the focus (of WiseGrid) on the electric mobility sector and the involved participants in the value chain of the related services. These will be captured in our business models and tool.

6.1.2 ELSA

The main objectives of the EU-Project ELSA [9] were:

- To develop a stationary storage system based **on second life EV batteries without previous dismantling of the individual battery packs**
- To enable an increasing local production of renewable energy and to accelerate the Smart Grid transition.
- To design a low-cost industrialised power converter specially designed to work with 2nd life batteries.
- To develop innovative local ICT-based Energy Management Systems to interface the storage with the building EMS or with the distribution grid.

- To include in the development works, communications and services in order to fully exploit the ELSA concept for local energy optimized management of the storage system and to integrate existing Web/IP based communication standards for Automated Demand Response (ADR).
- To demonstrate the economic viability and effectiveness and the environmental advantages of innovative storage services and related business models.

6.1.2.1 TECHNOLOGY TRANSFER

An interoperable ICT platform has also been developed. Thus, the system can be operated via multiple protocols accordingly to multiple use cases and various clients. The following interfaces have been developed:

- Local embedded HMI using OPC-UA protocol and a supervision software
- HMI hosted on a centralized server using VPN tunnel to comply with cybersecurity recommendations
- Modbus TCP interface for SCADA
- IEC61850 interface for substation
- HTTPS interface for EMS

These developments allowed WiseGRID to have a smooth implementation between the WiseGRID framework and the batteries deployed in Terni.

6.1.2.2 DEMONSTRATION SITES SHARED

Terni was among the six pilot sites of the ELSA project and its system is composed with Kangoo 2nd life batteries. They can provide a power of 72 kW and have a capacity of 66 kWh.

The Terni battery electrical storage system is equipped with the intermediary technical definition (the second one). For the ELSA project, the system has been operated by an EMS designed and controlled by Engineering and also by a SCADA designed by Siemens. The EMS tested the services to the district manager, namely PV power smoothing and peak shaving, while the SCADA tested power quality and ancillary services such as reactive power compensation.

An MQTT adapter has been developed on the system in order to comply with the WG STaaS/VPP data model designed in WP6.

6.1.2.3 JOINT EVENTS/DISSEMINATION

EUW 2018 (European Utility Week; Vienna)

During the European Utility Week in Vienna, BYES organized a conference in which the Storage in Terni used for ELSA and WiseGRID demonstrations was presented. The different possible use cases and business applications were presented and discussed during different panels.

Open Day Terni

ASM Terni was the organizer of an Open Day end of November 2018.

ASM provided the description of the overall company action, its involvement in European projects with specific focus to ELSA experimentation and WiseGRID.

6.1.3 SMARTV2G

The objective of SMARTV2G [10] project has been to create a system that allows the electric vehicle to work not only as an alternative to sustainable mobility, but also as a storage and sale system for energy that could be discharged to the electric grid, when the vehicle was not in use.

This project was focused on optimally connecting the electric vehicle to the electric grid, controlling the energy flows from the perspective of safety, energy efficiency, efficiently and safely, all under an advanced architecture of communications, automation and control of the information and the energy used.

6.1.3.1 TECHNOLOGY TRANSFER

Since the objective has been achieved for Rapid Recharge Stations in direct current (DC CS) and only partially (discharge) for Alternating Current Recharge Stations (AC CS) there are still limitations for standardization. The evolution and performance enhancement within WiseGRID of V2G Station let to develop all current CHAdeMO standards, including charging/discharging mode and dynamic charging. In addition, communications with EV fleet manager are also being developed following the OCPP protocol in its released v1.6.

Other innovations supported by WiseGRID include an intelligent control center that could be used by the consumer allowing him/her to sell the energy they do not consume, becoming a prosumer. On the other hand, DSO could be able to have new electric generation elements that ensure enough energy to supply in case of grid overload issues.

6.2 CURRENT H2020 PROJECTS SUPPORTED BY WISEGRID

6.2.1 COMPILE

COMPILE project [11] aims to activate and use Local Energy Systems in order to support the fast growth of energy production from RES in constrained networks, and foster the transition from centralized system with passive users into a flexible network of active users featuring energy communities. This transformation aims to enhance RES integration and increase the security of supply, without traditional network reinforcement.

6.2.1.1 TECHNOLOGY TRANSFER

COMPILE will use the WiseCOOP and the WG Cockpit as a basis for its Virtual Community platform. COMPILE aims to create a digital platform for the creation of Virtual Social Energy Communities and finds very useful the current features of WiseCOOP. COMPILE will go beyond the management of the daily operation of a cooperative and will add peer-to-peer trading based on blockchain technology to the current WiseCOOP functionalities.

6.2.1.2 DEMONSTRATION SITE SHARED

WiseGRID and COMPILE share the pilot site of Crevillent. A medium voltage line that leads to the municipality of Rafina, which is a replicant site in COMPILE and part of the Mesogia region will play a role in the testing. the testing. COMPILE will use the deployment of the WG Cockpit and the WiseCORP for interfacing (with the proper adjustments) with the rest of COMPILE tools and reach its own objectives. COMPILE will also take advantage of the 4 SMXs installed during WiseGRID and is going to also deploy 10 more SLAMs for facilitating the communication between different grid elements and COMPILE's tools. As explained before, WiseCOOP will be improved with peer to peer functionalities for allowing Crevillent to increase the social involvement of its citizens.

6.2.1.3 JOINT EVENTS/DISEMINATION

During the EUSEW, WiseGRID will participate together with COMPILE (and FLEXCoop) in a common event on 20 June at 14.00-15.30. During the event will be presented and discussed different perspectives of integrating high shares of renewables, ensuring engagement of the demand actors and supporting associated services to support the larger European grid. The event is targeting all energy communities' stakeholders, energy consultants, project managers and citizen audience. The event will be structured around 3 short presentations (10' each) and a panel discussion oriented towards 3 main topics for each of which a multiple-choice question will be submitted to the audience and the answers displayed live using "Sli.do" interactive platform.

6.2.2 CROSSBOW

The main objective of the TSO driven European Project CROSSBOW [12] is to propose the shared use of resources to foster cross-border management of variable renewable energies and storage units, enabling a

higher penetration of clean energies whilst reducing network operational costs and improving economic benefits of RES and storage units.

6.2.2.1 TECHNOLOGY TRANSFER

WG Cockpit will serve as a basis for CROSSBOW's WAMAS (Wide Area Monitoring and Awareness System). WAMAS will take advantage of the monitoring and analysis features of WG Cockpit for scaling it and reaching the Transmission level (it is noteworthy that WG Cockpit only works at Distribution level). Thus, it is possible to cover the operation of LV, MV and HV lines with a high increase of RES, storage and bidirectional power flows.

Moreover, CROSSBOW's Regional DSM (*Demand Side Management*) integration platform (DSM-IP) is a product for the integration of feasible DSM existing solutions to the regional Transmission Networks. Among other functionalities, this platform will provide an interface that informs TSOs about the amount of energy of accessible controllable load and the availability of services that can be offered by the DSOs to TSOs. Thus, the DSM-IP will use as a basis the framework created in WiseCORP for calculating the flexibility that some building loads and how it can be used for solving problems in the distribution grid. This framework will be improved in CROSSBOW for taking advantage of these kind of loads for performing Demand Side Management actions in the scope of tertiary reserves for TSOs.

Finally, WiseGRID has developed some communication protocols for interfacing batteries with generic systems and CROSSBOW will use them in the scope of its Virtual Storage Plant (VSP), a platform capable of integrating the characteristics and limitations of distributed individual storage units in the Transmission Network.

6.2.2.2 JOINT EVENTS/DISSEMINATION

Global Smart Energy Summit

As previously explained, ETRA presented WiseGRID together with CROSSBOW (and also NOBEL GRID) explaining how Horizon 2020 projects are working to provide advanced tools and ICT services to all actors in the Smart Grid to ensure benefits from cheaper prices, more secure and stable grids and clean electricity.

Medpower 2018

As previously explained, ETRA performed a session in which presented its paper "Higher flexibility through new empowered energy communities" in which the insights of NOBELGRID, CROSSBOW and WiseGRID regarding the possibilities of flexibility in the energy transition are shared.

2nd IEEE Int. Forum Smart Grids for Smart Cities

As previously explained, WiseGRID was presented together with NOBELGRID and CROSSBOW in the session "New roles in the grid, customer engagements".

PCI Energy days

WiseGRID and CROSSBOW shared a common stand at the first edition of the PCI (Project of Common interest) Energy Days. In this event, WiseGRID and CROSSBOW representatives explained to the visitors how the technology of H2020 innovation projects can be relevant in future PCI calls.



Picture 10 – CROSSBOW and WiseGRID representatives with Alan Haigh (Head of H2020 Department at INEA)

6.2.3 COORDINET

CoordiNet [13] is developing standardized coordination schemes that allow Distribution System Operators (DSO) and Transmission System Operators (TSO) for efficient operation of renewable energy integrated electricity grid services.

6.2.3.1 TECHNOLOGY TRANSFER

COORDINET is going to develop several modules for enhancing the cooperation between TSOs and DSOs (such as a DSO-TSO market participation platform, solar and wind forecasting services based on radial basis function neural networks, a common model for HV and MV lines...). These modules will be integrated into already existing systems (both commercial and R&D systems) such as WiseCORP and WG Cockpit; integration that will increase cooperation between MV and HV networks. The data exchange between the already existing systems will be performed adapting the WG IOP with the development (or adaptation) of the necessary wrappers.

6.2.3.2 DEMONSTRATION SITE SHARED

WiseGRID and COORDINET share the pilot site of Mesogia. COORDINET will use the already installed 155 SLAMs and 35 SMXs to collect the required data for its demonstration purposes. In addition, it is expected the deployment of additional 100 SLAMs in different households complementing the existing ones. The deployment of WG Cockpit in Mesogia (in which has been already defined the topology of the grid and the already installed SLAMs are configured to send data to the WG cockpit) will speed and facilitate the development and demo phase of the project regarding this pilot. Moreover, the knowledge and experience gained with the WG IOP will also be beneficial for the communications between the different components of the COORDINET framework.

6.2.4 FLEXCOOP

The FLEXCoop [14] solution aims at providing a complete environment enabling energy consumers to valorize their electricity demand flexibility for different purposes in the electricity grid. FLEXCoop stands for the “decentralization” of energy systems and supports energy systems with important amounts of renewables facilitated by the cooperative model. Its target is to collectively (using democratic governance) leverage demand flexibility in order to support the electricity network and maximise RES integration.

6.2.4.1 TECHNOLOGY TRANSFER

One of the outputs of WiseGRID, the DR Framework, a tool-chain enabling the technical management of (price-/incentive-based) demand response campaigns (including software engines for building management system and aggregator/retailer, it is being used as a basis for one of the FLEXCoop outputs, the Local Demand Manager. For that, WiseGRID's DR Framework will be complemented by flexibility-based optimization algorithms for intra-building DR optimization. In addition, as FLEXCoop also deals with explicit DR campaigns initiated by the DSO, FLEXCoop will take advantage of the communication architecture established in WiseGRID between the cooperative/aggregator and the DSO for solving problems in the grid.

6.2.5 PLANET

The PLANET project [15] aims to support policy makers and Smart Grid actors in optimally planning the transition to an energy system paradigm that optimally leverages sector coupling and synergies between networks of different energy vectors in order to fully decarbonize the system as a whole. One of its main concrete goals is the delivery of a Decision Support System that will allow the quantitative assessment of the impact of the penetration of flexible electricity demand and Power-to-X solutions in the electricity grid. By quantifying the impact of demand flexibility on the electricity network via electricity end-use or conversion to other carriers (such as synthetic natural gas), planners can evaluate either policy incentives for technology support or grid investments.

6.2.5.1 TECHNOLOGY TRANSFER

The PLANET Decision Support System relies on the existence of surrogate models of demand flexibility at the macro level (e.g. substation/ district) from various sources in order to evaluate the potential to absorb variable RES generation. One the key models represents the flexibility from residential energy consumption (mostly from heating/cooling and domestic hot water applications). The PLANET consortium will reuse the DR Framework of WiseGRID and the results of its demonstration in the pilot sites in order to create surrogate models of building demand flexibility at the level of neighbourhoods with parameterizable time horizon and granularity to support the envisaged DSS versatility.

6.2.6 MATCHUP

MATCHUP [16] is a EU-funded Smart City project involving three lighthouse cities and four follower cities. MATCHUP cities will join forces to reshape their social, economic and environmental models and to promote social inclusion, livability and prosperity for their citizens. MATCHUP will design and implement a palette of innovative solutions in the energy, mobility and ICT sectors that will serve as a model of urban transformation for other cities in Europe and beyond.

6.2.6.1 TECHNOLOGY TRANSFER

One of the Smart Cities involved in the project is Valencia. Valencia has a smart city platform called VLC-i which allows the integration of different technologies for providing different smart services. In the context of Match-Up, the WiseEVP features of billing and smart charging following the energy mix are being integrated into this system. This will allow a smarter management of the public charging stations and future eBus fleets.

Moreover, a set of 150 SLAMs together with WiseCORP will be deployed in several Valencian buildings. The VLC-I system will use the information in real time from the smart meter and generate strategies, such as demand response, to reduce energy consumption and, finally, the bill thanks to the integration of WiseCORP within the VLC-I platform.

6.3 LOCAL PROJECTS WHICH WISEGRID SUPPORTS

6.3.1 BUURZAME STROOM

Buurzame Stroom is an overarching initiative funded by the City of Ghent. The project's main goal is the achievement of a self-sufficient neighbourhood in the Dampoortwijk in Sint-Amandsberg (Ghent). The

project includes ecological, social and technical aspects. For example, Energent, a RESCoop (renewable energy sources cooperative) that is the project leader of Buurzame Stroom, is investing in PV installations on the roofs of schools and companies in the neighbourhood. They also support households that want to invest in a PV installation on their own roof. Since the Dampoortwijk is an underprivileged neighbourhood, the Buurzame Stroom project also considers social aspects by investigating the possibility of a social fund in order to help the underprivileged to isolate their homes to help them reducing their energy bill. The WiseGRID project interacts with the third and last aspect of the Buurzame Stroom project, the technical part where the research to a self-sufficient neighbourhood takes place based on the smart meters that are installed by 100 households in the neighbourhood.

6.3.1.1 TECHNOLOGY TRANSFER

In the Buurzame Stroom zone 100 flukso's are installed, 60 of them are installed by the NOBEL GRID and WiseGRID projects. The remaining 40 flukso's are financed by the European project LIFE BE REEL [17], the budget of this project is managed by the City of Ghent. All of the 100 flukso's in the Buurzame Stroom zone are equipped with an SMX of NOBEL GRID that can send the data from the households' flukso's to the WiseGRID server. All of the 100 households will test the WiseHOME developed in WiseGRID. Ecopower as a supplier will use the data from these flukso's and smx'es installed in the WiseCOOP app. Also, Ecopower will investigate the possibilities of remunerating flexibility through the WiseCOOP and WG StaaS/VPP.

In the Buurzame Stroom zone, residents have the possibility to use the shared electrical vehicles of WiseGRID partner Partago. Through the WiseEVP tool, Partago will optimize the management of its shared EV's fleet.

One of the main goals of Buurzame Stroom is to enable the Buurzame Stroom zone becoming a self-sufficient neighbourhood in the future. The batteries of VARTA and AMPERE ENERGY that have been installed within the WiseGRID project and in addition all of the WiseGRID tools that are tested in the Ghent pilot site of WiseGRID, are contributing to this goal of Buurzame Stroom.

6.3.1.2 DEMONSTRATION SITES SHARED

By collecting the smart meter data of the households, batteries and PV installations in this neighbourhood, WiseGRID will give an overview of the current level of self-sufficiency of the neighbourhood and which measures can be taken in the future. These results will be useful for the Interreg C-VPP project [18], another project that is active under the overarching Buurzame Stroom project and zone. The households that have a flukso that is financed by the LIFE BE REEL project, are also engaged in the Interreg C-VPP project. In the Interreg C-VPP project 3 experiments will be rolled out with batteries that are funded by the C-VPP project. The first test consists of different batteries collaborating as one battery to increase the self-sufficiency rate of the Buurzame Stroom zone. A second experiment will apply the batteries as grid support in case of voltage problems (active/reactive power). In the third test the batteries will be used to deliver flexibility if frequency problems on the high voltage grid are determined. The C-VPP project wants to embed citizen energy communities in the energy transition by engaging them in the smart grid of the future.

6.3.1.3 JOINT EVENTS/DISSEMINATION

REScoop.eu, communication and dissemination partner of WiseGRID – together with pilot site partner Ecopower - co-organised the kick-off event Buurzame Stroom & WiseGRID (18/3/2018). The event lasted three hours and was attended by 62 local citizens. The workshop was structured around two main parts. The first part gave an overview of the overall 'Buurzame Stroom'. The second part of the workshop included the presentation of all initiatives active within the Buurzame Stroom project. This section included a panel discussion that gave a floor to all participants and panelist to ask questions and interact during the session. The facilitator asked general questions about the different projects and initiatives including WiseGRID which lead to a more in-depth and accurate discussion about the different layers of the project.

During the smart meter event of Buurzame Stroom and WiseGRID at the beginning of April, WiseHOME has been presented to the locals in order to give them an insight of the features of the tool before will test it.

6.3.2 KYTHNOS

The WiseGRID project will catalyse the deployment of smart and innovative technologies on the island of Kythnos helping to realize the Smart Island master plan supported by AEGEA, DAFNI Network of Sustainable Islands and the Municipality of Kythnos to turn the island into a green technology hub and demonstration site of various green energy, resource management, and smart grid solutions.

6.3.2.1 TECHNOLOGY TRANSFER

Large scale renewable energy sources, batteries in public buildings, electric vehicles and charging stations and flexible management of desalination units will be implemented for the first time on a non-interconnected island in Greece. Additionally, thanks to the WiseGRID tools the local island grid will be managed in a smarter, more reliable and flexible way improving its efficiency and allowing for a more sustainable and environmental-friendly operations.

The technologies, the equipment and the tools that will be developed within WiseGRID will be used as a base for the work to be done within 'Kythnos Smart Island', a project that was awarded jointly to DAFNI Network and ICCS and begun officially on April 1st 2019. Kythnos Smart Island envisages the deployment of an Energy Control Center on the island for the dispatching of energy generation, forecasting and flexibility management. Microgrids and demand response mechanisms applied to various technologies (battery storage, EV charging stations, desalination plant, electric boat, smart appliances) as well as their integration in the island's energy management by the local operator will play a significant role in Kythnos Smart Island.

To that end, knowledge and experience that will be produced from the WiseGRID deployment and demos will feed into the design of the island smart energy system.

6.3.2.2 DEMONSTRATION SITES SHARED

Kythnos Smart Island Project will include municipal buildings in Kythnos where battery storage and charging stations will be installed within WiseGRID as well as the desalination plant, which will be enhanced with a small hybrid energy system.

6.3.2.3 JOINT EVENTS/DISSEMINATION

A big launching event for Kythnos Smart Island in the form of a press conference, where local and national media will be present, will take place in Kythnos in spring 2019. A series of local, national and international events, presentations in thematic events and conferences will take place during the two years (4/2019 – 4/2021) of Kythnos Smart Island project. The work done in WiseGRID and the synergies with between the two projects will be highlighted during these events.

6.3.3 TERNI

6.3.3.1 DEMONSTRATION SITES SHARED

With respect to the collaboration with other projects, ASM is pilot of other consortiums that received funds from EU in the context of development plan H2020; notably, the company is participating at eDREAM [19], NRG-5 [20], DEFENDER [21], SOFIE [22]. In these projects, ASM is exploiting the functionality of SMX as a gateway to get near real-time data from the consumers; in addition, it leverages its open access /open source platform to host several applications that can enable new services for both the DSO, in terms of enhanced security and network observability, and the consumer, in terms of consumption awareness and increasing self-consumption. WiseGRID is an active vector in the improvement of ASM's installation according to its plan to have a safer, more secure and smarter grid.

6.3.3.2 JOINT EVENTS/DISSEMINATION

During EU energy week, ASM Terni organized a workshop at a high school of the city of Terni in order to disseminate and involve citizens in WiseGRID project. During the workshop, named "Appuntamento con

l'energia", several speakers presented activities and software developed over the project to get feedback and opinion from the final users. In this event have been also shown the insights of some of the previously named projects.

6.4 PARTICIPATION IN THE BRIDGE INITIATIVE

BRIDGE [23] is a European Commission initiative which unites Horizon 2020 Smart Grid and Energy Storage Projects to create a structured view of cross-cutting issues which are encountered in the demonstration projects and may constitute an obstacle to innovation.

WiseGRID is involved and represented in the four Working Groups of the BRIDGE initiative. Another fact that shows the engagement of WiseGRID with this initiative is that WiseGRID Project Coordinator and Technical Coordinator are, respectively, Chair of the Customer Engagement group and Rapporteur of the Regulations group.

Moreover, during the last Coordination Meeting of Bridge in March 2019 in Brussels, WiseGRID presented its insights in three of the sessions scheduled: "Smart charging for electro-mobility", "Cybersecurity and resilience" and "Innovation in network management: data, services, TSO-DSO cooperation".

6.4.1 BUSINESS MODELS WORKING GROUP

WiseGRID is involved in this Working Group and due to the development of the business models were one of the first tasks in the project schedule, WiseGRID has been able to contribute since the very beginning. The contributions of WiseGRID has been focused on Business Models for Local Energy Management and the interaction of different actors like ESCOs, DSOs and prosumers. Moreover, also provided input for Storage and Demand Response Business Models.

6.4.2 DATA MANAGEMENT WORKING GROUP

WiseGRID has been also involved in this Working Group. Apart from participating in all the Working Group meetings and provide contributions to the reports, WiseGRID also completed the questionnaire about how Data Handling is performed within each project.

In the EUW 2018, WiseGRID also presented in the BRIDGE session "Interoperable Platforms and Data Exchange for Energy Services" giving its knowledge about the topic.

6.4.3 REGULATIONS WORKING GROUP

The involvement of WiseGRID in this Working Group responds to the project interest to overcome the regulatory barriers that potentially could break the replication of the project outputs. The main involvement of the project within this Working Group deals with new market design options, leading to new services, business models and roles for system operators. As the technical core of the project is focused on the LV and MV lines and their elements, the contribution of WiseGRID to the respective sections of the reports has been highly appreciated. Another relevant interest and contribution of the project was on the topics related with storage valorisation.

6.4.4 CUSTOMER ENGAGEMENT WORKING GROUP

As the social side is a key aspect for the success of the project, WiseGRID actively participates in this Working Group. Since its integration in BRIDGE, WiseGRID worked on settle the basis of the group. WiseGRID collaborated in answering the questionnaire that lead to defining the master lines of the work of the group. This work lead to the division of the Working Group in four different sub working groups in which WiseGRID is involved in the "Barriers to implementation and customers analysis" one, being involved in developing a process for segmenting, and engaging customers early in the project. Of course, WiseGRID also collaborated in all the reports produced by the Working Group.

7 FUTURE PLANS

WiseGRID's visibility has continued growing in the second period, through the continuation of multi-channel dissemination efforts. The project has consolidated its online presence and expanded its reaching. Partners will be actively encouraged to pursue the appearance in national and local conferences and workshops. On top of that, partners will be encouraged to provide publications consolidated from the project results in the form of research papers submitted to scientific journals. The project is determined to maintain its strong ties with other related initiatives and projects described in the section of the cooperation activities. The regular presence of WiseGRID at international conferences has established itself as a very prominent feature of the project's dissemination strategy and helped to win even 3 different project Awards. This final section further highlights planned dissemination activities during the WiseGRID's future period.

7.1 WISEGRID ADVISORY BOARD

The IAB and UG provides advice to ensure that WiseGRID project research is of the highest quality. It also supports the project in forming the links between science and society that are critical for transforming research into action. After the performed webinar on the September 27th, 2018 the Advisory Board will continue to providing guidance on:

- Supporting WiseGRID tools and innovation projects;
- Following that WiseGRID activities are accessible to innovators in policy, business, civil society and more.

The Dissemination Leaders will ensure that the Advisory Board is receiving the updated information on the project in the form that is the most suitable according to the feedback survey questions answered.

7.2 PILOT SITE ACTIVITIES

The next upcoming cycle of the citizen engagement activities will be coordinated after the full deployment of the WiseGRID in five pilot sites. The main goals of these workshops will be:

- To gain feedback from tool users about the possible benefits, troubles or adjustments needed to do in order to improve the WiseGRID tools.
- To engage with the local pilot site citizens and show the benefits of participating in the project.

A dedicated communication and dissemination plan to reach those goals will be outlined before the workshops.

7.3 INTERNATIONAL CONFERENCES

Dissemination activities in international conferences helps to promote WiseGRIDs objectives and to spread the word about the project latest activities, achievements and upcoming events.

International networking activities include organizations from other energy related projects and help to share the lessons learnt. In the near future the WiseGRID project is planning to participate in following international conferences:

- INNOGRID 2020+ May 13-14, 2019 Brussels, Belgium
- EUSEW 2019: 17-19 June 2019 Brussels, Belgium
- The International Conference on Recent Advances in Renewable Energies (ICRARE'19)" in June 29-30, 2019

8 CONCLUSION

This document presents the dissemination activities and describes the results of the strategy previously defined in the Dissemination Master Plan for period 2.

As dissemination manager, REScoop.eu designed a strategy that facilitates engagement with potential adopters across and after the life of the project. WiseGRID consortium strongly believes that informing and engaging the broader community is the only realistic way of ensuring the project's legacy after its nominal duration. Therefore, project promotion and ecosystem development activities should and are taken seriously to maximize the potential and value that the pioneering ideas of WiseGRID can bring to many different aspects of people's daily lives, strengthening the European energy system.

In the second period, apart from continuing pursuing the above categories of activities, the aim was to reach even bigger numbers of audiences and fulfil the dissemination strategy. Therefore a multi-faceted approach was implemented including different communication channels to bring the WiseGRID narrative to the right people and helped to be awarded for 3 different Awards. The citizen engagement strategy helped to reach out to citizens to inform them about the project tools in the relevant pilot sites. By continuing this strategy, the WiseGRID project tries to put consumers in the "driving seat" in concept evaluation through the engagement workshops.

9 REFERENCES AND ACRONYMS

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9.2 ACRONYMS

Acronyms List	
DM	Dissemination Manager
DMP	Dissemination Master Plan
DoW	Description of Work
PC	Project Coordinator
PS	Pilot Sites
PC	Project Coordinator
RGI	Renewable Grid Initiative
IAB	WiseGRID International Advisory Board
UG	WiseGRID User Group
TM	Technological Manager
UNFCCC	United Nations Framework Convention on Climate Change

Figure 24 – List of Acronyms

10 ANNEX A THE RESEARCH PAPERS AND PUBLICATIONS

THE WISEGRID PUBLICATIONS IN THE 3 RD REPORTING PERIOD					
Publication	04/06/2018	HEDNO	Publication at the quarterly published scientific review of HEDNO "Συμμέτοχοι στη γνώση" (Participants in knowledge) published in July.	Greece	https://www.deddie.gr/en/dimosieuseis/dimosies-diavouleuseis/dimosia-diavouleusi-promitheia-logismikou-meletwn
Article	22/06/2018	QMUL	Netherlands Yearbook of International Law Prosumers: New actors in EU energy security	Netherlands	https://www.springer.com/gb/book/9789462652422
Article	6/08/2018	QMUL	Prosumers as new energy actors	London	http://www.law.qmul.ac.uk/media/law/docs/staff/ccls/Prosumers-as-new-energy-actors_RERIS2018_004_v1.pdf
Research paper	23-24/10/2018	HEDNO (Authors: Dimitrios Stratogiannis, Stamatia Gkiala Fikari)	Smart Grid Architecture, Communications and Data Model: The WiseGRID approach	Greece	http://giis-2018.org/
Paper (Authors: Manuel Serrano, Lola Alacreu and Álvaro Nofuentes)	18/09/2018	ETRA	MEDPOWER 2018 Higher flexibility through new empowered energy communities	Croatia	http://medpower2018.com/
Publication	31/1/2018	R. Leal-Arcas and A. Morelli	The Resilience of the Paris Agreement: Negotiating and Implementing the Climate Regime	London	< https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3236985 >,
Journal article	5/02/2019	AUEB and QMUL	Business models for decentralized energy	USA	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3346500
Publication	5/03/2019	QMUL	Regulation, innovation, and technology for the 21st century energy goals, Journal of Law and Cyber Warfare, Vol. 8, Issue 1, 2019	London	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3346527
Publication	22/03/2019	QMUL	Re-thinking global climate change: A local, bottom-up perspective,	London	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3358825
Publication	5/06/2019	ASM, in collaboration with ENG	Innovative Tools for Demand Response Strategies: a Real-Life Experience		

11 ANNEX B THE WISEGRID EVENTS

WISEGRID EVENTS IN 2nd REPORTING PERIOD						
1	EDA	Anastasios Tossios (M)	6 th Smart Cities conference	9/3/2018	Athens (EL)	http://smartcitiesconference.boussiasconferences.gr
2	QMUL	Rafael Leal-Arcas (M)	International Conference on Energy Law, European Law Students' Association	18/03/2018	London (UK)	http://www.ccls.qmul.ac.uk/media/law/docs/news/International-Conference-on-Energy-Law-Schedule.pdf
3	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	CEER - Public Hearing on use of flexibility by DSOs	1/03/2018	Brussels (BE)	https://www.greens-efa.eu/en/article/event/european-ideas-lab-brussels/
4	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	European Ideas Lab - EU Green Party	2/03/2018	Brussels (BE)	https://www.greens-efa.eu/en/article/event/european-ideas-lab-brussels/
5	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	Vlerick Business School – RES bootcamp	16/03/2018	Brussels (BE)	
6	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	Climate Group - Webinar	21/03/2018	Brussels (BE)	
7	QMUL	Rafael Leal-Arcas (M)	THE LAW OF THE EUROPEAN UNION SEMINAR SERIES	13/04/2018	Milan (IT)	https://www.unibocconi.it/wps/wcm/connect/ev/Eventi/Eventi+Bocconi/THE+LAW+OF+THE+EUROPEAN+UNION+13+aprile
8	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	DG Ener Workshop - Consume perspectives in Energy R&I programmes	18/04/2018	Brussels (BE)	

9	REScoop.eu Ecopower	Josh Roberts (M) Ine Swennen (F)	CEER - Q&A on energy communities	4/05/2018	Brussels (BE)	https://www.etip-snet.eu/wp-content/uploads/2018/05/Deaft-Agenda-ETIP-SNET-Vision-release-v3.pdf
10	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	EERA 10 Year Anniversary Conference	15/05/2018	Brussels (BE)	https://www.eera-set.eu/eera-10-year-anniversary-conference-brussels-26-27-june-2018/
11	REScoop.eu	Josh Roberts (M)	Meeting with T&D Europe	25/05/2018	Brussels (BE)	
12	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	Florence Regulatory Forum	17/05- 18/05/2017	Brussels (BE)	https://ec.europa.eu/info/events/meeting-european-electricity-regulatory-forum-florence-2018-may-30_en
13	REScoop.eu	Sara Tachelet (F)	Decarb Europe	4/05/2018	Brussels (BE)	http://go.leonardo-energy.org/180604DCEForumJoin.html
14	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	GEODE	15/05/2018	Brussels (BE)	
15	REScoop.eu	Vaiva Indilaite (F) Sara Tachelet (F)	InnoGrid2020+	15- 16/05/2018	Brussels (BE)	https://www.innogrid2020.eu/
16	QMUL	Rafael Leal-Arcas(M)	Round Table 'International trade regulation and the social and political model,	24- 25/05/2018	Granada (ES)	https://www.kapsarc.org/news-events/#eventslist
17	QMUL	Rafael Leal-Arcas (M)	Round Table 'Regional Electricity Sector Integration in GCC and MENA: Imperatives & Challenges	10/05/2018	Riyadh (Saudi Arabia)	http://www.dipri.org/index.php/international-conference-2018

18	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	EUSEW: Energy Communities, pathways for the citizens leading a decentralised transition to energy democracy	5/06/2018	Brussels (BE)	https://eusew.eu/energy-communities-pathway-citizens-leading-decentralised-transition-energy-democracy
19	REScoop.eu	Vaiva Indilaite (F) Sara Tachelet (F)	EUSEW Awards ceremony/Stand and networking in the EUSEW	05-07/06/2018	Brussels (BE)	https://eusew.eu/about-awards-competition
20	REScoop.eu EnergieID	Josh Roberts (M) Vincent Dierickx (M) Vaiva Indilaite (F) Sara Tachelet (F)	EUSEW: The value of people power: the case for decentralised solar and demand-side flexibility	7/06/2018	Brussels (BE)	https://eusew.eu/value-people-power-how-fairly-value-distributed-generation
21	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	CEDEC	12/06/2018	Brussels (BE)	
22	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	EERA 10 Year Anniversary Conference	26/06/2018	Brussels (BE)	https://www.eera-set.eu/eera-10-year-anniversary-conference-brussels-26-27-june-2018/
23	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	ETIP-SNET Vision Launch	27/06/2018	Brussels (BE)	https://www.etip-snet.eu/wp-content/uploads/2018/05/Deaft-Agenda-ETIP-SNET-Vision-release-v3.pdf
24	ETRA	Álvaro Nofuentes (M)	Energy Infrastructure Forum, RGI Award ceremony	24-25/05/2018	Copenhagen (DK)	http://www.energy-infrastructure-forum.com/
25	CRE	Corneliu Bodea (M) Mihai Păun (M) Ioan Roșca (M) Radu Popa (M)	Romanian Energy Day 2018 regional Energy Security in the context of European Internal Energy Market	5-6/06/2018	Brussels (BE)	http://www.crenerg.org/en/events/prezentare-conferinta-achizitii-publice/
26	CRE	Corneliu Bodea (M) Mihai Păun (M)	Securing the smart grid towards up to 100% Renewables -	28-29/06/2018	Bucharest (RO)	http://www.crenerg.org/en/events/prezentare-

		Mihai Sanduleac (M)	Succes Project Open Day - BRIDGE and Synergies with other EU Projects			conferinta-achizitii-publice/
27	AMP ETRA	Jose Manuel Torrelo (M) Lola Alacreu (F)	Infoday Regional 2018 - RS3 H2020 "Energía segura, limpia y eficiente"	10/07/2018	Valencia (ES)	http://www.ite.es/evento/infoday-regional-2018-rs3-h2020-energia-segura-limpia-y-eficiente/
28	AEGEA	Kostas Komninos (M)	NobelGRID	24/07/2018	Valencia (ES)	
29	ETRA ITE	Julio Díaz (M) Álvaro Nofuentes (M)	GPEX	18/09/2018	Barcelona (ES)	https://gpexevent.com/
30	AEGEA	Kostas Komninos (M)	Kefalonia Development Forum	22/09/2018	Kefalonia (EL)	
31	AEGEA	Kostas Komninos (M)	FEDARENE - Networking pub	11/09/2018	Tipperary (UK)	https://www.fedarene.org/wp-content/uploads/2018/09/AG-2018-Networking-Pub-programme_final-version.pdf
32	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	4 th ManagEnergy Expert Mission	3/10/2018	Athens (EL)	https://www.managenergy.net/node/522
33	QMUL	Rafael Leal-Arcas (M)	2 nd International conference on Solar Technologies & Hybrid Mini Grids to improve energy access	17-19/10/2018	Palma de Mallorca (ES)	www.energy-access-conferences.com
34	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	EU Commission Workshop on Open Marketplaces to Spur Innovative Energy Services	22/10/2018	Brussels (BE)	https://aioti.eu/wp-content/uploads/2018/11/20181022-Summary-of-outcomes-Workshop-on-open-marketplaces-to-spur-innovative-energy-services_Final.p

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35	HEDNO	Dimitrios Stratogiannis (M) Stamatia Gkiala Fikari (F)	Global Information Infrastructure and Networking Symposium (GIIS 2018)	23-24/10/2018	Thessaloniki (EL)	http://giis-2018.org/
36	AUEB/ITE	George Thanos (M) Julio Cesar (M)	INVADE Oslo 2018	10/10/2018	Oslo (Fi)	www.invadeoslo2018.com
37	QMUL	Rafael Leal-Arcas (M)	Smart grids in the EU: Assessing Energy Security, Regulation & Social and Ethical Considerations	17-19/10/2018	Palma de Mallorca (ES)	http://energy-access-conferences.com/_files/_event/_17286/_editorFiles/file/DraftProgramme19July.pdf
38	EDA	Vasilis Kleftakis (M)	3 rd Energy Tech Forum	16/10/2018	Greece (EL)	https://www.ien.e.eu/en/congresses/10/3rd-energy-tech-forum?p=42
39	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	BEIS Talk: The new Renewables Directive: New opportunities for community energy in the energy transition	5/11/2018	London (UK)	
40	AEGEA REScoop.eu	Kostas Komninos (M) Alkisti Florou (F) Myriam Castanié (F)	2 nd Clean Energy for EU Islands Forum	5/11/2018	Lanzarote (ES)	https://ec.europa.eu/info/events/2nd-clean-energy-eu-islands-forum-2018-nov-05_en
41	ETRA, REScoop.eu	Álvaro Nofuentes (M)	SET Plan Conference	20-21/11/2018	Vienna (AT)	https://www.setplan2018.at/
42	ETRA	Álvaro Nofuentes (F)	IEEE World Forum on Smart Grids for Smart Cities	28/11/2018	Genk (BE)	http://ieeesg4sc.org/
43	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	DAFNI Annual Conference	18/11/2018	Athens (EL)	
44	QMUL	Rafael Leal-Arcas (M)	Energy security in the EU, Keynote speaker, The 3rd Athens conference on	7/12/2018	Athens (EL)	

			European Energy Law			
45	REScoop.eu and ETRA, BYES, Hypertech, HEDNO, ICCS	Vaiva Indilaite (F) Sara Tachelet (F) Eric Portales (M) Giannis Vlachos (M) Antonios Papanikolaou (M) Lola Alacreu (F) Álvaro Nofuentes (M)	EUW2018	6-8/11/2018	Vienna (AT)	https://www.european-utility-week.com/
46	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	JRC Workshop on local communities and social innovation	22-23/11/2018	JRC Ispra Site (IT)	
47	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	Energy Networks at the Heart of Europe's changing energy system - Policy Conference	27/11/2018	Brussels (BE)	https://www.td-europe.eu/public-events/196-policy-event-2018.html
48	REScoop.eu	Josh Roberts (M) Vaiva Indilaite (F) Sara Tachelet (F)	Global Sustainable Technology & Innovation Convergence (GSTIC) 2018	29/11/2018	Brussels (BE)	https://2018.gstic.org/programme
49	ETRA	Manuel Serrano (M)	XI Journey on renewable energy at the University Polytechnic of Valencia	13/12/2018	Valencia (ES)	https://innovacion.upv.es/en/events/xi-jornada-sobre-energias-renovables/ https://innovacion.upv.es/wp-content/uploads/2018/11/PROGRAMA-EERR.pdf
50	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	DAFNI Network Annual General Assembly	4/12/2018	Athens (EL)	
51	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	Workshop "Energy Communities & Local Governance"	5/12/2018	Athens (EL)	
52	AUEB	George Thanos (M)	Workshop organised by LTU Sweden on Cyber physical systems of systems and application areas.	31/01/2019	Stockholm (SE)	

53	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	2 nd EcoMobility Conference	22/01/2019	Athens (EL)	https://www.haee.gr/events/national-events/2019/2nd-ecomobility-conference/
54	AEGEA	Kostas Komninos (M) Alkisti Florou (F)	Innovative solutions and policies for the energy transition of the Greek islands - H2020 SMILE Matchmaking event	18/03/2019	Rhodes (EL)	
55	ETRA	Álvaro Nofuentes (M)	PCI Energy Days	19-20/03/2019	Brussels (BE)	https://ec.europa.eu/info/events/pci-energy-days-2019-mar-19_en
56	AEGEA REScoop.eu	Kostas Komninos (M) Alkisti Florou (F) Myriam Castanié (F) Maja Juriscic	Clean Energy For EU Islands Secretariat event	5/04/2019	Athens (EL)	
57	SmartRUE (ICCS) HEDNO ELECTRA Energy cooperative (REScoop.eu)	Panos Kotsampopoulos (SmartRUE) (M)	Energy Communities, energy in citizens' hands	18/04/2018	Athens (EL)	https://www.compile-project.eu/news/workshop-energy-communities-energy-in-citizens-hands/
58	ETRA and REScoop.eu	Vaiva Indilaite (F) Sara Tachelet (F) Álvaro Nofuentes (M)	Innogrid 2019	13-14/05/2019	Brussels (BE)	https://www.innogrid2020.eu/

12 ANNEX C – FEEDBACK LEAFLET FOR CITIZEN ENGAGEMENT WORKSHOP

Citizens engagement workshop

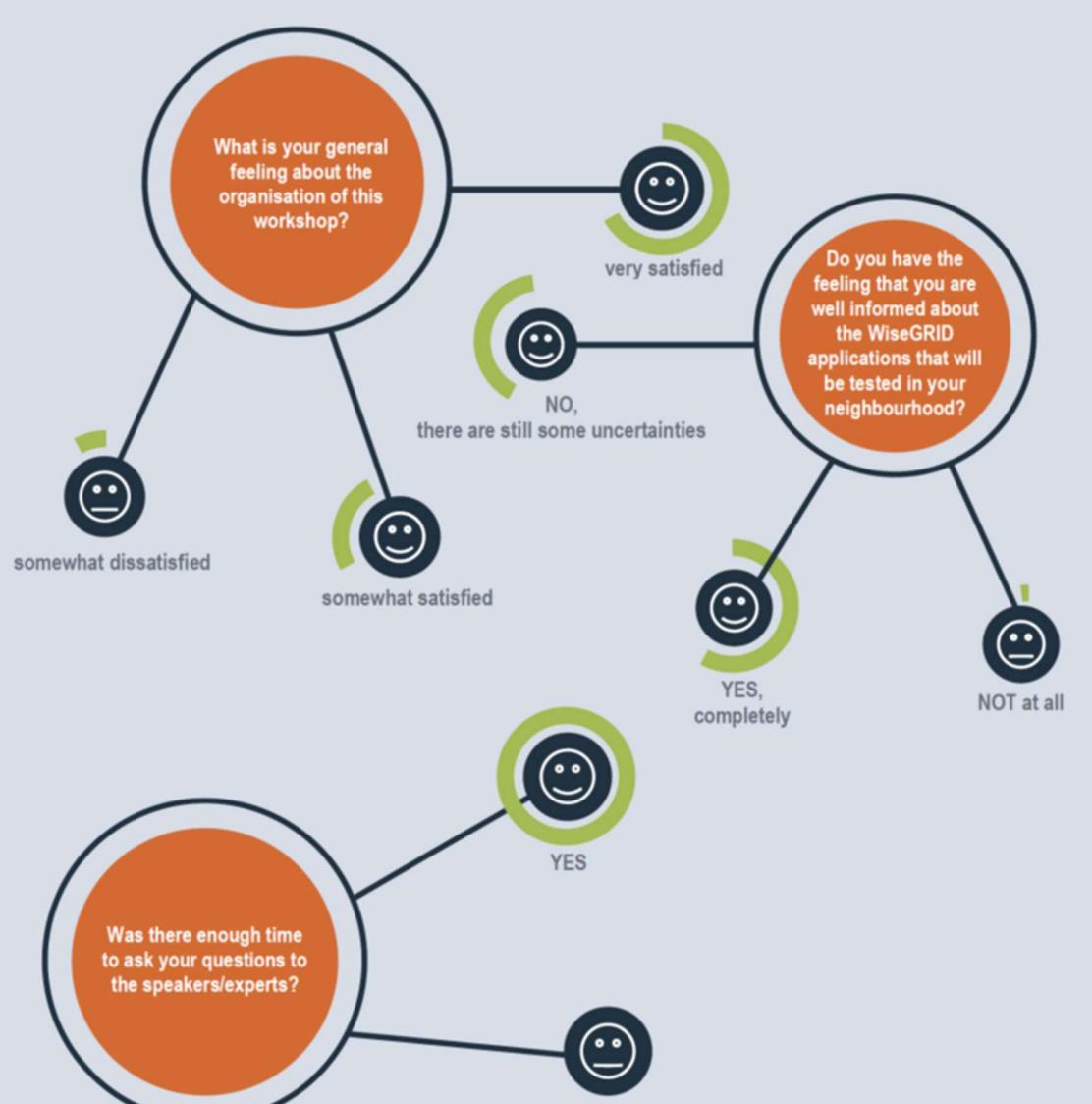
In Ghent

11

March
2018

FEEDBACK QUESTIONNAIRE

How do you feel about this workshop?



The diagram consists of three orange circular nodes connected by lines. Each node has associated smiley face icons with green arcs indicating the level of satisfaction.

- Question 1:** What is your general feeling about the organisation of this workshop?
 - very satisfied (3 green arcs)
 - NO, there are still some uncertainties (1 green arc)
 - somewhat satisfied (2 green arcs)
 - somewhat dissatisfied (0 green arcs)
- Question 2:** Do you have the feeling that you are well informed about the WiseGRID applications that will be tested in your neighbourhood?
 - YES, completely (3 green arcs)
 - NOT at all (0 green arcs)
- Question 3:** Was there enough time to ask your questions to the speakers/experts?
 - YES (3 green arcs)
 - NO (0 green arcs)

Citizens engagement workshop In Ghent

11

March
2018

What did you most appreciate/enjoy/think was the best about the workshop? Any suggestions for improvement?

I appreciate the
openness, co-creation
and balance

I like the fact there
was some art
included in the event

It was a very
accessible and
varied event

Several partners who are
committed in this project, have
presented themselves to the
neighborhood. In this way,
residents of the neighborhood could
get to know the different ideas and
possibilities.

I appreciate the
direct
communication
with the
neighborhood

Suggestion: make
it even more
concrete

The short sessions
make sure everyone
can keep the focus!

I like the fact that this is a local
initiative that makes us more
independent of the big players
who use unrealistic prices and
thus sell us expensive electricity.

I like the combination
of citizen participation
and thinking about
sustainability

13 ANNEX D – ANALYSIS OF CITIZEN ENGAGEMENT WORKSHOPS

True engagement is not merely providing information and gaining support from citizens but it is about reinforcing the sense of community and building up citizenship in a participatory process to better deal with the challenges of the WiseGRID tools deployment in the pilot sites.

This analysis is based on empirical feedback received from the participants who were attending the pilot sites workshops. Conclusions taken from these feedback sessions will be discussed below and an overview of the outcome will be shown on www.wisegrid.eu website by the end of July 2018.

13.1 GHENT

The first citizen engagement workshop took place in Ghent on March 11th, 2018 in the local community center in the Ghent Dampoort area. The local cooperative Energent, together with social partner 'Samenlevingsopbouw' and the WiseGRID partners involved in that area, presented the broader initiative called 'Buurzame Stroom' where the WiseGRID project is part of. Buurzame Stroom is the umbrella concept for all community energy projects organised in the Dampoort area. The meeting was very successful in terms of interest and gathered over 78% satisfaction rate from citizens that participated. The workshop was built on certain discussed projects such as WiseGRID and Nobel Grid . The overall analysis can be seen below in Table 1.

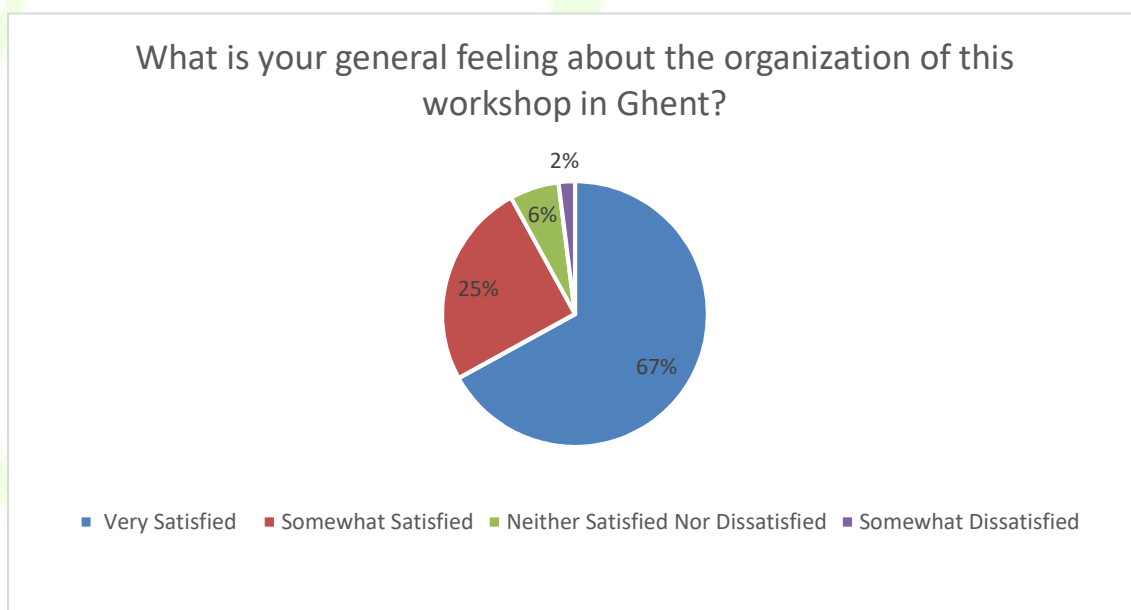


Figure 25 - Satisfaction rate of the Ghent workshop

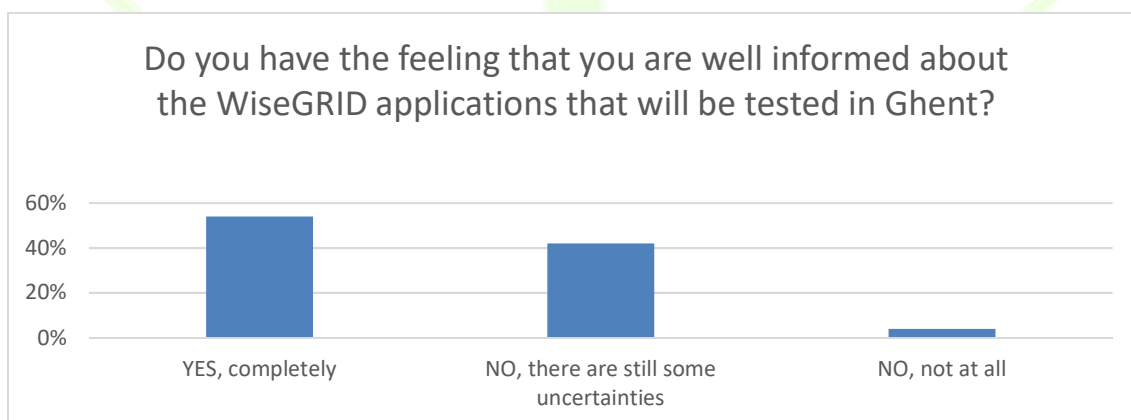


Figure 26 - Success rate regarding participant's feelings of being informed in the Ghent workshop

The overall feeling of the organisers of this workshop, combined with the feedback we gathered from conversations we had with participants during the ‘coffee reception’ and the questionnaire, results in an overall positive balance.

Positive take-aways from Ghent workshop	Learnings from Ghent workshop
+ Time and resource efficient way of identifying and clarifying key issues	× Some people were not eager to express their opinions from speaking in a large group
+ Provide an opportunity to explain processes, give information and gather feedback about the tools deployment	× Difficult to provide full clarity when more partners are involved in organising an event
+ Demonstrated openness and transparency	× Organisation is very time-consuming
+ Process produced an informed. A collective view was presented, resulting from deliberation between different stakeholders	

Table 1- Take-aways from the Ghent citizen engagement workshop

13.2 CREVILLEN

The second citizen engagement workshop took place in Crevillent on March 15th, 2018 and was organised in the premises of the Enercoop headquarters in the Crevillent, Spain as a large public meeting. As the feedback session outlined, the meeting was successful with a 67% satisfaction rate from the citizens that participated (Table 2). The workshop was co-created together with WiseGRID partner and local cooperative ‘Enercoop’. One of the main conclusions taken from the analysis of the feedback outlined that community engagement works best where it is an ongoing cumulative process enabling relationships and trust to build and strengthen over time. This is definitely the case for the Enercoop cooperative who is one of the oldest cooperatives in Valencia and has a long and outstanding history of cooperation with their members. This particular engagement event was planned and designed within this mind and aimed to contribute to the overall engagement process within the community in Crevillent.

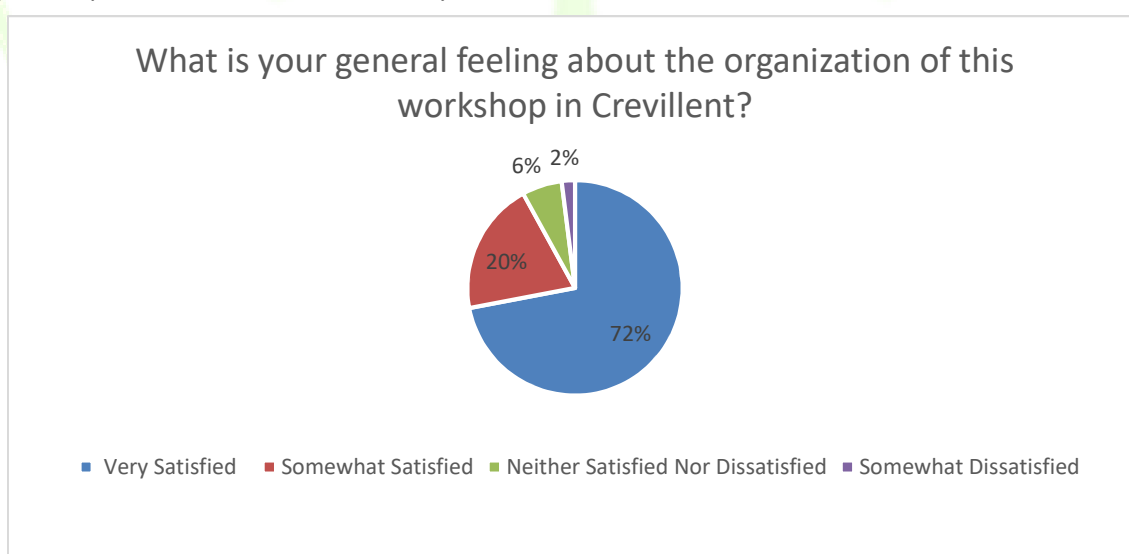


Figure 27 - Satisfaction rate of the Crevillent workshop

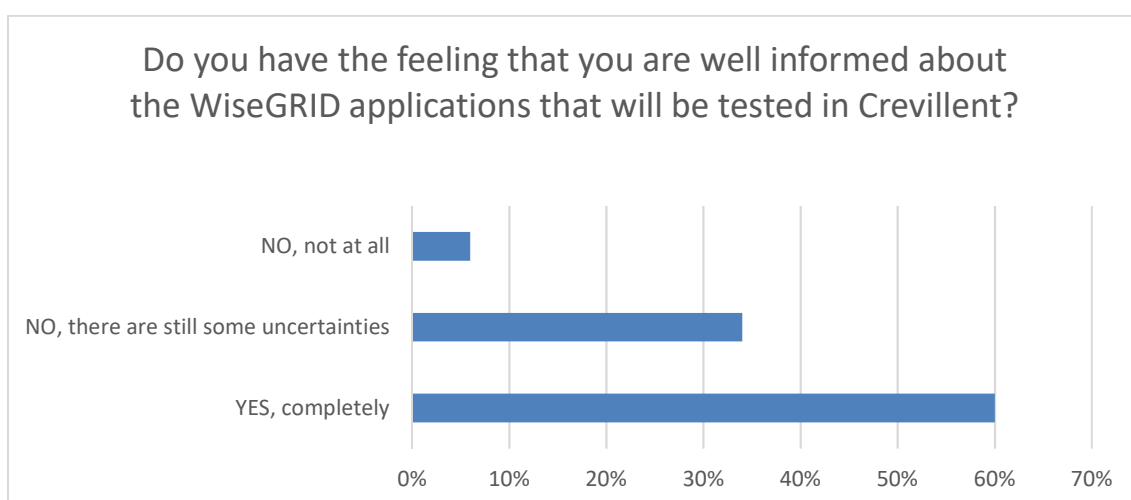


Figure 28 - Success rate regarding participant's feelings of being informed in the Crevillent workshop

The overall feeling of this workshop is very positive. A good collaboration with local partner Enercoop provided the basis of a successful engagement event with local citizens. The expertise of the Enercoop as the local anchor point in the neighborhood and the strong position of REScoop.eu regarding bottom-up approaches to organize engagement events.

Positive take-aways from Crevillent workshop	Learnings from Crevillent workshop
+ Enabled large numbers of people to have their say about the WiseGRID tools	× Some people were not eager to express their opinions from speaking in a large group
+ Provided an opportunity to explain processes, give information and gather feedback about the tools deployment	
+ Attracted local publicity (Telecrevillent interview session) and was used as a launch event	

Table 2 - Take-aways from the Crevillent citizen engagement workshop

13.3 KYTHNOS

The third workshop took place in Kythnos island in Greece on 27th of April, 2018. The workshop was very successful with a satisfaction rate of almost 89%. One of the main success factors was that local partner 'the Aegean Energy & Environment Agency' is a very well-known organization in this island. AEGEA is well informed about the circumstances and people living in the island which made it possible to create a workshop which was outlined with the local perspectives and requirements. During this workshop the methodology of 'Planning for Real and World Café sessions' was used in order for local people to be able to express their opinions. A concrete example of this methodology is the feedback that was gathered from questions like where the charging stations should be placed and what benefits citizens would like to receive from the WiseGRID tools. More in depth information could be find in report D20.2. The workshops overall analysis can be seen below in table.

What is your general feeling about the organization of this workshop in Kythnos?

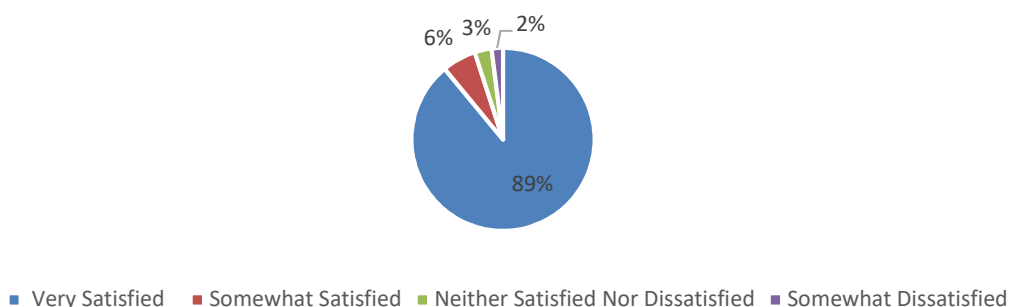


Figure 29 - Satisfaction rate of the Kythnos workshop

Do you have the feeling that you are well informed about the WiseGRID applications that will be tested in Kythnos?

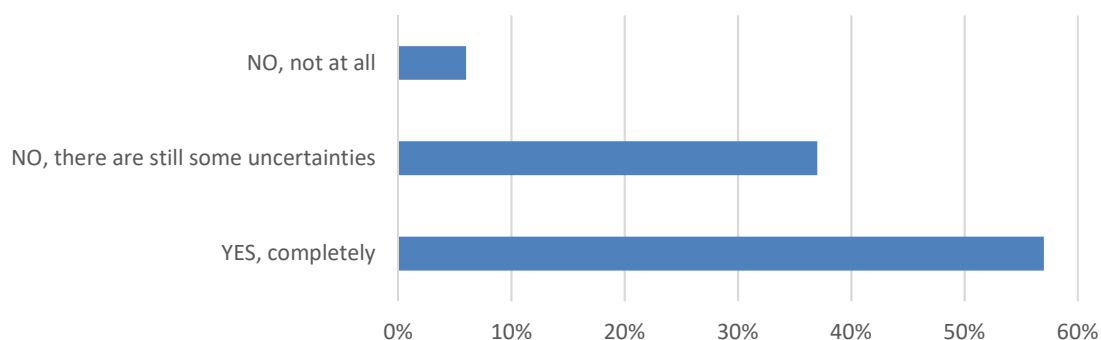


Figure 30 - Success rate regarding participant's feelings of being informed in the Kythnos workshop

In Kythnos the workshop was highly interactive which made the interest of the people participating higher. The local partner AEGEA is a well-known contact point for the islanders which made the barriers to talk and share opinions smaller. The communication towards the citizens was very clear from the beginning so citizens knew what to expect from the workshop.

Positive take-aways from Kythnos workshop	Learnings from Kythnos workshop
+ Easily involved people due to methods used	× Some ideas which were generated are not possible to implement
+ Accelerated sense of community ownership of tools deployment process	× Preparing for the event was time-consuming
+ Helped people to see and understand community needs in collaborative way	

Table 3 - Take-aways from the Kythnos citizen engagement workshop

13.4 TERNI

The fourth citizen engagement meeting took place in Terni in Italy on 2nd of May, 2018 as a large public meeting in the university of Terni. The meeting was organized together with the local initiative and help from the pilot site leader and Distribution System Operator 'ASM Terni'. Only 32% of citizens answered that they were satisfied about the workshop. A higher number was neither satisfied nor dissatisfied. Several reasons for this lower satisfaction rate can be found and are listed below in Table 4.

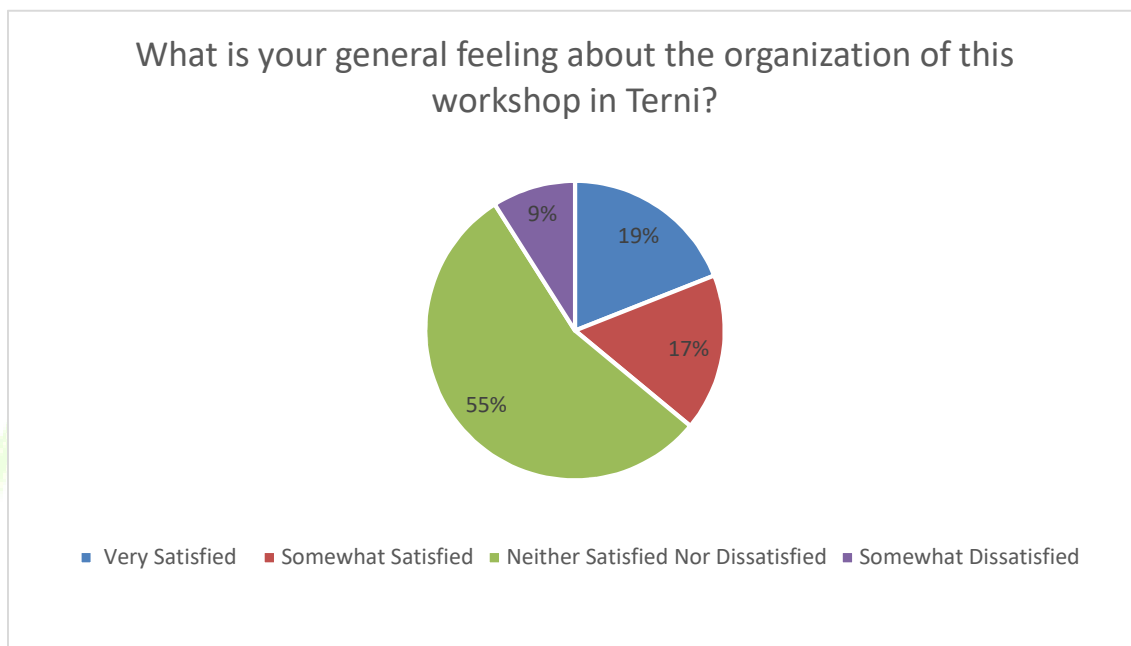


Figure 31 - Satisfaction rate of the Terni workshop

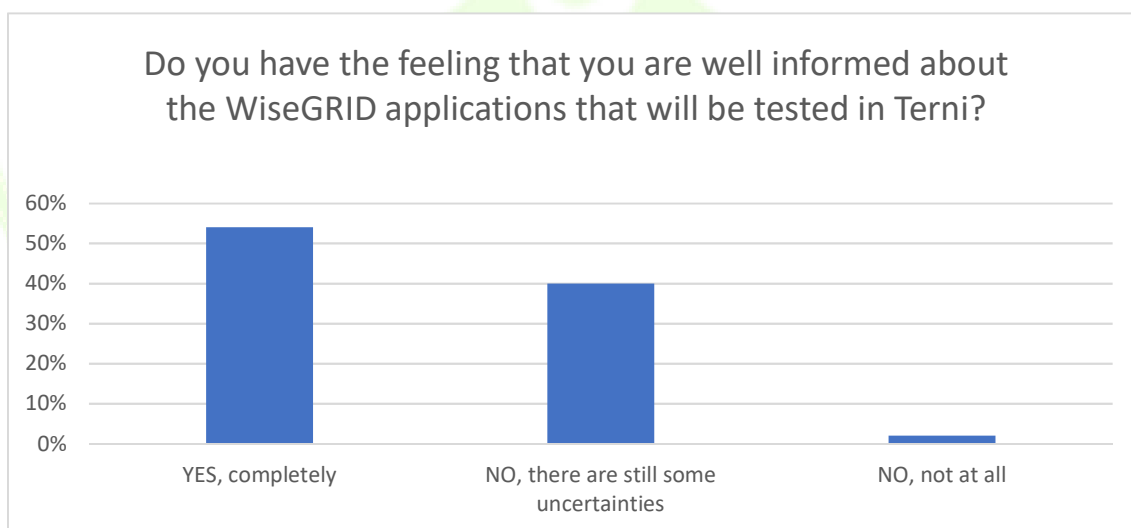


Figure 32 - Success rate regarding participant's feelings of being informed in the Terni workshop

The citizen engagement workshop in Terni was less interactive, giving more an overall status of the project and not really including citizens in the decision making processes of the project. The venue was less adapted to attract local citizens, giving the event a more academic look and feel.

Positive take-aways from Terni workshop	Learnings of Terni workshop
+ A reaction session enabled participants to	× Some ideas which were generated are not

develop networks	possible to implement
+ A wide audience reached by the event	× Early morning meeting not a lot of citizens were able to stay long time
	× Not a continuous communication about the meeting

Table 4 - Take-aways from the Terni citizen engagement workshop

13.5 MESOGIA

After long conversations and deliberations with WiseGRID partner HEDNO, there was decided to postpone the fifth workshop for the area of Mesogia to July 17th, 2018. Mesogia is located in a recreational area which means that more local citizens are based in the area during the summer period. All the tools are prepared by REScoop.eu so local partner HEDNO has all the input needed to perform the citizen engagement workshop and to report back afterwards.

13.6 CONCLUSIONS

In WiseGRID the different community perspectives are crucial for the success of the project. For some purposes one perspective is more relevant than the other and these aspects should be identified internally in each pilot site by the local partners working on citizen engagement. Citizen engagement goals change depending the orientation of the goal that is leading the process: deployment of tools, community needs, ... All the perspectives should be aligned for the general strategy. Citizen engagement is an important topic for all stakeholders in the pilot regions and the more familiarized ones are the better they will be able to organize engagement workshops within WiseGRID.

Many project aspects are innovative, questions should be opened around our assumptions rather than giving things for granted. The culture of the organisations are mainly oriented to the technical deployment of the tools rather than thinking about the conditions that can bring the citizen engagement to success.

Some issues have been identified as key concepts:

- Targeted Citizen Groups should always be included in the deployment process
- Key Actors should be identified (With Whom are we reaching the Target Groups?)
- Governance should be duly outlined (Who are the decisions makers for the Strategies and implementations?)
- Value Proposition needs to be clear both internally and externally (What are we communicating and offering?)
- Place, time, venue, methodology and catering should always be aligned with the local context.

14 ANNEX E – POSTER FOR WISEGRID SIDE EVENT AT COP24

The Bellona Foundation and REScoop.eu kindly invite you to

EMPOWERED CITIZENS AND CITIES DRIVING THE ENERGY TRANSITION

An official COP24 side event hosted by the EU Pavilion
 Where: Vienna Room, EU Pavilion, Katowice, Poland
 When: 14 December 2018, 10:30 - 12:00

Confirmed speakers:

Frederic Hauge, President, Bellona Foundation
Miapetra Kumpula-Natri, MEP, S&D
Marcin Korolec, Head of Electric Vehicles Promotion Foundation in Poland
Vaiva Indilaite, Project Manager, WiseGRID
Sara Tachelet, Comms Officer, REScoop.eu/The Mobility Factory
Alicja Pawlowska, Head of Mobility Management Unit, City of Gdynia
Wojciech Dziwisz, Business Development Manager, eMobility, ABB

Moderated by **Teodora Serafimova**, Policy Manager Bellona Europa

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