NEMoGrid

D6.1 First year dissemination report
Final Version

Deliverable

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2018-08

INTERNAL REFERENCE

Deliverable No.:	D6.1
Deliverable Name:	First year dissemination report
Lead Partner:	TUC
Work Package No.:	WP6 – Dissemination and Reporting
Task No. & Name:	T6.4
Document (File):	D6.1_First_year-dissemination_report_final
Issue (Save) Date:	2018-08-31

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DOCUMENT STATUS

	Date	Person(s)	Organisation
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Verification and Approval by	2018-08	Medici, Vasco	SUPSI

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ABOUT THE NEMoGRID PROJECT

The NEMoGrid Project is mainly focused on the definition of innovative business models that could ease the penetration of renewables into the distribution grid, with a particular emphasis on the definition of a peer-to-peer strategy based on the blockchain technology. The new business models will encourage the active participation of citizens and the assumption of their new role of prosumers, by allowing them to enter new markets as players. Among the tested scenarios, the most innovative one will be based on a peer-to-peer market. In this case, new decentralized platforms based on the blockchain technology will allow zero marginal cost transactions. In order to test the new business models effectiveness, a simulation framework will be developed. Each scenario will be evaluated base on a number of KPIs. Existing demo sites in Rolle (CH), Björklinge (SE) and Wüstenrot (DE) will be used to validate the business model that gives the best simulation results. Real loads will be controlled by the algorithms developed in the simulation phase. Technical developments within NEMoGrid will be supported with user research, gathering empirical data on prosumers decisions and interactions. The results will be used to develop an adoption model and to continuously refine the simulations.

>> www.nemogrid.eu

1. WORKPACKAGE DESCRIPTION

Workpackage (WP) 6 "*Dissemination and Reporting*" is leaded by TUC and accompanies the entire project. The aim of this WP is the development and implementation of different channels for the public presentation of the project and its results. Furthermore, the consortia is aiming to participate in cross-national working groups of the ERA-Net Knowledge Community in order to foster and maximize the impact of the project. The NEMoGrid project partners contribute to scientific publication by presenting project results at national and international conferences, congresses and within journals. Within this deliverable the activities from the first project year (**September the 1st 2017** until **August the 31st 2018**) subsumed under WP 6 are summarized. The deliverable also comprises activities from non-German project partners, who already started the project in May 2017.

2. DISSEMINATION PROGRAM

The focus of the first year work was on the development of the project **corporate identity** (CI). Initially, a call for a logo submission was prepared and published in a design community. The consortia was invited to vote on the submissions. Finally, the following **project logo** was selected (see *Figure 1*). In the course of the logo selection, the (free) project font (Quicksand) was chosen as project font.

Figure 1. NEMoGrid project logo, approved by the project consortia.

In the following, the website domain and an appropriate WordPress template was selected (see the following section **Project Webpage** for further explanation). The design of a PowerPoint, a poster, Word **templates** was subcontracted and designed. Additionally, to the templates a general **style guide** and a **style package** was developed. Here, colors, logo versions and fonts are defined, explained and provided for installation or download. The style guide served as internal document and was distributed to the project partners. The definition of project templates included the formulation of general introduction sections ("*Disclaimer*" and "*About the Project*"). Here, we paid attention to the compliance with the ERA-Net style guide. Furthermore, the work page figure (see *Figure 2*) was redesigned to contribute to a clear project structure communication. Two different versions were provided to the project partners and used as example for external project presentations.
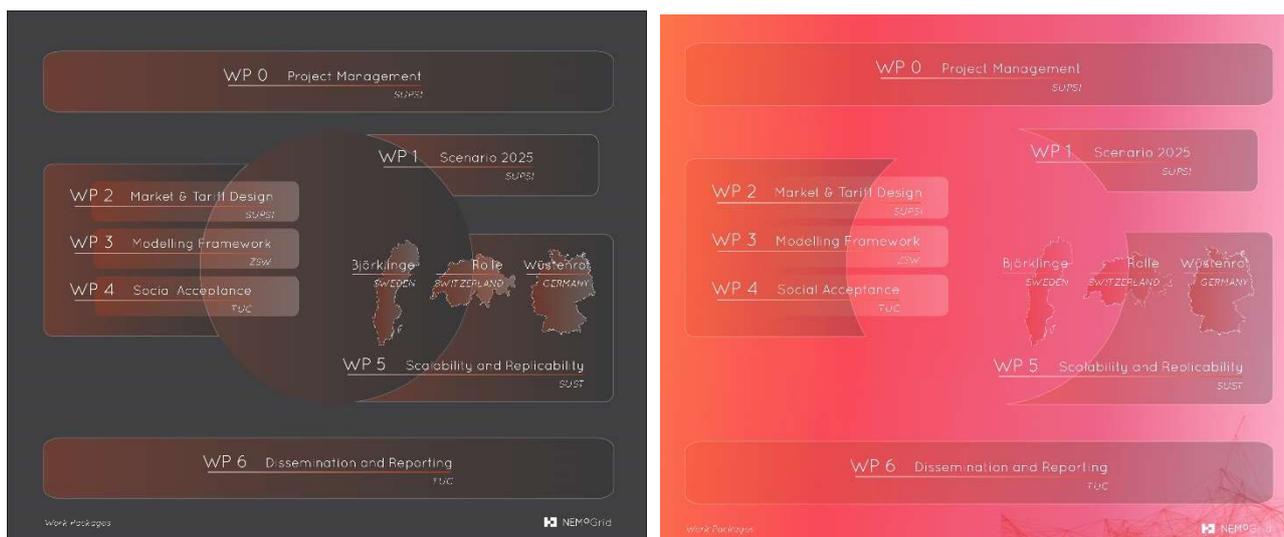
Figure 2. Workpackage figure redesigned for public communication.

The design of the basic templates and the project CI were completed in the first project year.

3. PROJECT WEBPAGE

After the project logo was selected and the domain nemogrid.eu was reserved a CI compatible WordPress template was selected. The webpage structure was then adapted to the project's needs. In the beginning, four menus were defined:

1. **Home** – landing page, includes a short description of the project goals, scenarios and demo sites with illustrating pictures;

2. **News** – blog page to publish current status of the project;

3. **Partners** – consortia page with logos, description and further media channels of each project partner;

4. **Funding** – indication of the projects funding and in compliance with the ERA-Net disclaimer information.

Furthermore, mandatory information (contact and legal information) was integrated in the webpage footer. The WordPress content management allowed contributions and changes in content independently by every project partner. TUC as Workpackage leader made suggestions for the content formulation and collected the partner descriptions and logos. The project website was launched in May 2017. From then on, the content was continuously updated and extended.

The NEMoGrid project webpage was also linked to the homepage of the professorship of TUC and here an additional short description of the research project was published in German and English. The project partners were asked to link the project website as well to support the dissemination of the research project.

4. KNOWLEDGE COMMUNITY

The collaboration with the ERA-Net and the knowledge communities has been started. For example the project factsheet for the ERA-Net SG+ website was prepared by the consortium (available online here). Furthermore, the project partners registered as members of the ERA-Net Smart Grids Plus Knowledge Platform *Expera* and provided detailed information on the NEMoGrid project, which is accessible for members of the *Expera* platform.

Furthermore, the NEMoGrid project partners participated in the ERA-Net Smart Energy Systems Knowledge Community Meeting in Malmö in May, which was held in the context of the Nordic Clean Energy Week (from the 21st to 25th of May 2018). For example, TUC employees contributed to the working group *Citizenship and Consumer Involvement*. The project partner ZSW and SUPSI participated in the working group System Architecture and Implementation Modelling. During the meeting contact to other projects funded by the ERA-Net Smart Energy Systems Call (e.g., Grid-Friends and ReFlex) was established.

5. SCIENTIFIC COMMUNICATION

During the first project year presentation and publications of the project started. For example, the project was presented to interested employees and students during a research colloquium of TUC. SUPSI published first papers entitled "*Constrained hierarchical networked optimization for energy markets*" [01] (abstract available here) and "*A rational decentralized generalized Nash equilibrium seeking for energy markets*" [02] (abstract available here). The scientific publishing will be intensified in the second project year.

The non-scientific project partners sonnen (find a English press release here and a German release here) and Sustainable Innovation (Swedish press release available here) also contributed to the communication and several press releases were launched.

REFERENCES

[01]   Nespoli, L., & Medici, V. (2018). Constrained hierarchical networked optimization for energy markets. In 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) (pp. 1-6). IEEE.

[02]   Nespoli, L., Salani, M., & Medici, V. (2018). A rational decentralized generalized Nash equilibrium seeking for energy markets. In 2018 International Conference on Smart Energy Systems and Technologies (SEST) (pp. 1-6). IEEE.