



# D6.2 Second year dissemination report

## Final Version

### Deliverable

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## DOCUMENT STATUS

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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](http://www.nemogrid.eu)

## 1. WORKPACKAGE DESCRIPTION

Workpackage (WP) 6 “*Dissemination and Reporting*” is led 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 second project year (**September the 1<sup>st</sup> 2018** until **August the 31<sup>st</sup> 2019**) subsumed under WP 6 are summarized. The deliverable also comprises activities build on those during the first project year (see [D6.1. First year dissemination report](#)).

## 2. DISSEMINATION PROGRAM

The focus of the first year work was on the development of the project **corporate identity** (CI). The design of the basic templates and the project CI were completed in the first project year. For further information, see [D6.1. First year dissemination report](#).

## 3. PROJECT WEBPAGE

After the webpage structure was set up during the first year, the second year dissemination work focused on the extension of the webpage structure and the continuous update of the project-“[News](#)”-blog. For example, calls for participation for the interview study were published here. Due to the further publication of project partners (see **Scientific Communication**) the new menu “[Publication](#)” was launched. To provide an overview on the various types of project publications the page was divided into three sections: 1. Scientific Publications; 2. Project deliverables; and 3. Press releases. Every publication was named with a title and described by a short abstract. If available, the publication was linked to a full text.

## 4. KNOWLEDGE COMMUNITY

The project partners of SUPSI and TUC took part in the ERA-Net Smart Energy Systems Knowledge Community **Meeting** from 17<sup>th</sup> to 19<sup>th</sup> of September 2018 in **Magdeburg** (see *Figure 1*). The NEMoGrid representatives were involved in cross-working group discussions and in the specific discussion rounds of the working group *Citizenship and Consumer Involvement*. First results from the project were presented and discussed with the other projects in the funding program. Another topic of the meeting in Magdeburg was the discussion of the ERA-Net feedback letter, which was sent to the project in 2018 as a result of the annual reporting.



*Figure 1. NEMoGrid project presentation at the ERA-NET SES Meeting in Magdeburg 2018.*

On 5<sup>th</sup> of December 2018 a virtual follow-up meeting of the ERA-Net SES working group took place. For this purpose, a written contribution (white paper) of the AAP entitled "*Conflicting user needs 'degrees of freedom' and 'ease of use'*" as well as a summary of the contribution in form of a presentation were prepared and discussed with the participants. The article is available in the repository of the working group. In addition, this contribution was made available as a white paper on the NEMoGrid website.

Furthermore, the project staff participated in the creation of documents for the ERA-Net Smart Energy Systems Knowledge Community. The results of the NEMoGrid user research were incorporated into the *Expera* document "*Spotlight Draft*" and the results of this research were incorporated into the "*Policy Draft*".

## 5. SCIENTIFIC COMMUNICATION

Results of the project were published in the scientific community. For example, the results of the interview study of TUC from WP 2 (see [D2.3 Results regarding consumer / prosumer requirements](#)) were presented to interested employees and students within a research colloquium of the professorship. This deliverable and several others mainly dealing with requirements of market design and users (D1.1; D1.2; D2.1) were also published on the [project website](#).

ZSW staff participated in the *7th International Conference on Renewable Energy Research and Applications* lasting from the 14<sup>th</sup> to the 17<sup>th</sup> of October 2018 in Paris, France. Therefore, a conference paper was submitted and published in the conference proceedings [01] (available for download [here](#)).

The project partners of Ngenic and Sustainable Innovation gave a talk at the [2<sup>nd</sup> E-Mobility Power System Integration Symposium](#) in Stockholm. The [slides](#) of their presentation and the [paper](#) [02] is available in the symposium website and could also be retrieved via the NEMoGrid publication website.

After submission and acceptance of the abstract, a long paper for the 10<sup>th</sup> conference "*Applied Human Factors and Ergonomics*" in Washington D. C. has been finalized. Under the title "*Imagine 2025: Prosumer and Consumer Requirements for Distributed Energy Resource Systems Business Models*", the TUC staff presented key results of the WP2 interview study. The paper was published in the conference proceedings [03].

Furthermore, SUPSI staff submitted an abstract to the EGPA conference 2019 conference held in September in Belfast. TUC project members were invited to hold a talk in October 2019 on the *4<sup>th</sup> Expert Symposium - Mobility of the Future*.

## REFERENCES

- [01] Matthiss, B., Momenifarahaniy, A., Ohnmeissz, K., & Felderx, M. (2018). Influence of Demand and Generation Uncertainty on the Operational Efficiency of Smart Grids. In 2018 7<sup>th</sup> International Conference on Renewable Energy Research and Applications (ICRERA) (pp. 751-756). IEEE.
- [02] J. Ridenour & J. Lindborg (2018). Optimal Control in a Smart Grid Aggregator: Connecting PV, EV, Energy Storage, and Heating Systems to Solve the Power Problem. 2<sup>nd</sup> E-Mobility Power System Integration Symposium, Stockholm.
- [03] Döbelt, S., & Kreußlein, M. (2019). Imagine 2025: Prosumer and Consumer Requirements for Distributed Energy Resource Systems Business Models. In International Conference on Applied Human Factors and Ergonomics (pp. 631-643). Springer, Cham.