

Tensors for System Analysis of Converter-dominated Power Grids

D 7.2 Plan for Exploitation and Dissemination of Results

by Fraunhofer IWES



on the basis of a decision by the German Bundestag

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About TenSyGrid

The demand for the power grid in Europe is undergoing profound changes due to an increasing number of decentralized feed-in points and the fluctuating supply from renewable energies. This complexity in interactions between power grid components poses a challenge for maintaining system stability. To address this, the European project TenSyGrid is developing a toolbox for direct stability assessment using multilinear models to capture the complex dynamics of power grid components. The objective is to support grid operators in assessing large power grids primarily powered by renewable energy. The toolbox will be compatible with existing commercial software packages to facilitate integration into current workflows.

Project title Programme Project number Project type Call module	Tensors for System Analysis of Converter-dominated Power Grids Horizon Europe - Clean Energy Transition Partnership (CETP) CETP-FP-2023-00138 Research-oriented approach (ROA) CM2023-02 Energy system flexibility: renewables production, storage and system integration
Transition initiative	TRI1 Net-zero emissions energy system
Project start	01.12.2024
Project duration	3 years
Coordinator	Fraunhofer IWES
Project website	www.tensygrid.eu

Consortium







About this document

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СО	Confidential. Accessible to only members of the consortium, CETP, EC and
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Publishable Summary

The plan for the exploitation and dissemination of TenSyGrid includes a brief overview of the TenSyGrid goal and stakeholders. It outlines what are the key project results and the strategies for their exploitation. For instance, the involvement of end users like the power companies in the advisory board and the academics ensures the improvement of TenSyGrid toolbox functionalities that would aid the grid operators for stability assessment. Further, approaches for protecting the intellectual property generated during the project and provision of the open-source toolbox are described. The deliverable also includes an overview of potential data generation from TenSyGrid and its management.

Several activities are planned to disseminate and communicate the project results to the external stakeholders and the broader community. These are open access publications, press releases, the project website <u>www.tensygrid.eu</u>, posts on the TenSyGrid Linkedin page, presentations at conferences, seminars, talks and the organisation of tutorials, workshops and similar activities.

Finally, this deliverable provides an update on dissemination activities in the first 6 months of the project. This includes information on press releases issued to announce the project start and its objectives, a summary of articles published by external media regarding the project, updates on the TenSyGrid website and webpages created for project information by partners. It also covers social media and participation in dissemination activities by partners so far. And last but not least, an update on the engagement with the CETP Knowledge Community, showcasing the collaborative efforts made during this period. This plan for the exploitation and dissemination of the results is a living document and will be updated during the entire project duration.