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Newsletter no. 4, spring 2020

System operation & flexibility solutions required to meet the ambition of 50% renewables on the European electricity grid by 2030

EU-SysFlex presents the fourth issue of its project newsletter. Following the October issue, EU-SysFlex has published 3 new public deliverables and 3 different Work Packages. Estonia's Tallinn hosted the project's General Assembly and marked the end of the project's second year. EU-SysFlex also co-organized a high-level Brussels workshop, which hosted representatives of the European Commission, European Parliament and other key stakeholders.

ALL AVAILABLE PROJECT RESULTS AND SCIENTIFIC PAPERS

From October 2019 to April 2020, we published 3 new public deliverables in 3 different Work Packages:

- [European level legal requirements to energy data exchange](#)
- [Optimization tools and first applications in simulated environments](#)
- [WP8 intermediate progress report: software development and hardware implementation for the preparation of the multi-services multi-resources demonstration](#)

NEWS AND EVENTS



EU-SysFlex celebrated project's two-year anniversary in Tallinn

NOVEMBER 2019 | Representatives of the EU-SysFlex project met in Tallinn for a two-day convention, marking the end of the project's second year. General Assembly was hosted by the Estonian transmission system operator Elering in the Estonia's historical House of Blackheads. Tallinn Convention was focused on the past 12 months during which EU-SysFlex had made excellent progress, published more than 10 public deliverables and successfully submitted the first official report to the European Commission.



DECEMBER 2019 | BRUSSELS WORKSHOP

EU-SysFlex co-hosted a stakeholder workshop in the European Parliament

DECEMBER 2019 | On behalf of EU-SysFlex, EURACTIV organised a high-level stakeholder event to discuss the future EU power system and how a higher share of renewables can be integrated. The workshop took place in the premises of the European Parliament and addressed the main system operation challenges associated with decarbonization, long-term needs, technical scarcities, and feasible innovations and improvements within the European market design.

50% Renewables by 2030: Creating a flexible power system to ensure EU's renewable ambition becomes a reality

Supported by:

EU-SysFlex

Watch a video from our EU-SysFlex Brussels workshop



EU-SysFlex demonstration nominated for Global Power & Energy Elites of 2020

NOVEMBER 2019 | The German demonstrator within the EU-SysFlex project was nominated for the Global Power & Energy Elites of 2020. The demonstrator, led by innogy and Mitnetz, has designed a process to include decentralised power sources as flexibilities for solving congestions to ensure smooth and flexible RES integration into the grid.



EU-SysFlex gathers interest at PAC Project - Third Modellers' Exchange Workshop

FEBRUARY 2020 | EU-SysFlex was presented at the Third Modellers' Exchange Workshop as a pilot project aimed to focus on how flexibility would change the behavior of distribution grids in the real world. Due to the innovative demonstration from the real world, participants of the PAC Workshop were highly interested in the EU-SysFlex project.

COMING UP NEXT



EU-SysFlex

ONLINE WORKSHOPS

Due the current situation and impossibility to organize physical workshops we are planning to bring the EU-SysFlex project to you. During the next months we will organize several online workshops focused on the current technical results from our project. All up-to-date information may be found on our [website](#).

Technical Shortfalls for Pan European Power System with High Levels of Renewable Generation

14th May 2020 | EU-SysFlex would like to invite you to a webinar on the topic of identifying technical shortfalls in the pan-European power system with high levels of variable Renewable Energy Sources. This task involved detailed technical power system studies to identify technical scarcities and shortfalls in 2030. These studies build upon the work carried out in earlier tasks within WP2 in which detailed scenarios and models were developed.

Conceptual market organisations for the provision of innovative system services: role models, associated market designs and regulatory frameworks

First half of June 2020 | EU-SysFlex would like to invite you to a webinar on the topic of *Market organisations for the provision of innovative system services*. This task involves responsibilities and interactions between system operators and service providers from centralised and decentralised energy. We compare different role models and market/regulatory organizations with existing market designs and regulation. Finally, we provide a gap and barrier analysis to propose potential solutions.

Financial Implications of High Levels of Renewables on the European Power System

26th May 2020 | EU-SysFlex would like to invite you to a webinar on Task 2.5. This task provided a comprehensive economic and financial analysis of future European power systems which incorporate higher levels of variable Renewable Energy Sources. The analysis undertaken in this task builds upon the work carried out in earlier tasks within WP2 in which detailed scenarios and models were developed.

Impact analysis of market and regulatory options through advanced power system and market modelling studies

Second half of June 2020 | EU-SysFlex would like to invite you to a webinar on the topic of *Advanced power system and market modelling*. This task involved quantitatively analysing how market and product play out in different power systems: distribution vs. transmission level, isolated vs. interconnected, lightly-loaded vs. congested grids. Advanced models are deployed ranging from UC/ED, game theoretic approaches, agent-based simulations to investment models. We address four areas: market and regulatory design, participants' behaviour, geographical aspects and investments.

IN THE MEDIA



EURACTIV: As wind and solar power rise, EU seeks more grid 'flexibility'

JANUARY 2020 | EURACTIV article mentions EU-SysFlex as a project that seeks to identify issues and solutions associated with integrating large-scale renewable energy with flexibility at its core.



Interview with EU-SysFlex project manager John Lowry

MARCH 2020 | Read an interview with John Lowry, project manager of EU-SysFlex and EirGrid, who spoke to [Siliconrepublic.com](https://www.siliconrepublic.com) about the main objectives EU-SysFlex aims to achieve.

Read our project blog

Newest blog entries:

- [Innovations in applying flexible data-driven grid simulation as safe guard and black box in grid operation optimization and flexibility exploitation](#)
- [How a battery energy storage system can provide services to the market](#)
- [10 attention points of energy data exchange](#)
- [Electrically heated households to provide frequency reserves](#)
- [First results from the field test demonstrator in EU-SysFlex](#)

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