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Newsletter no. 5 | Autumn 2020

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

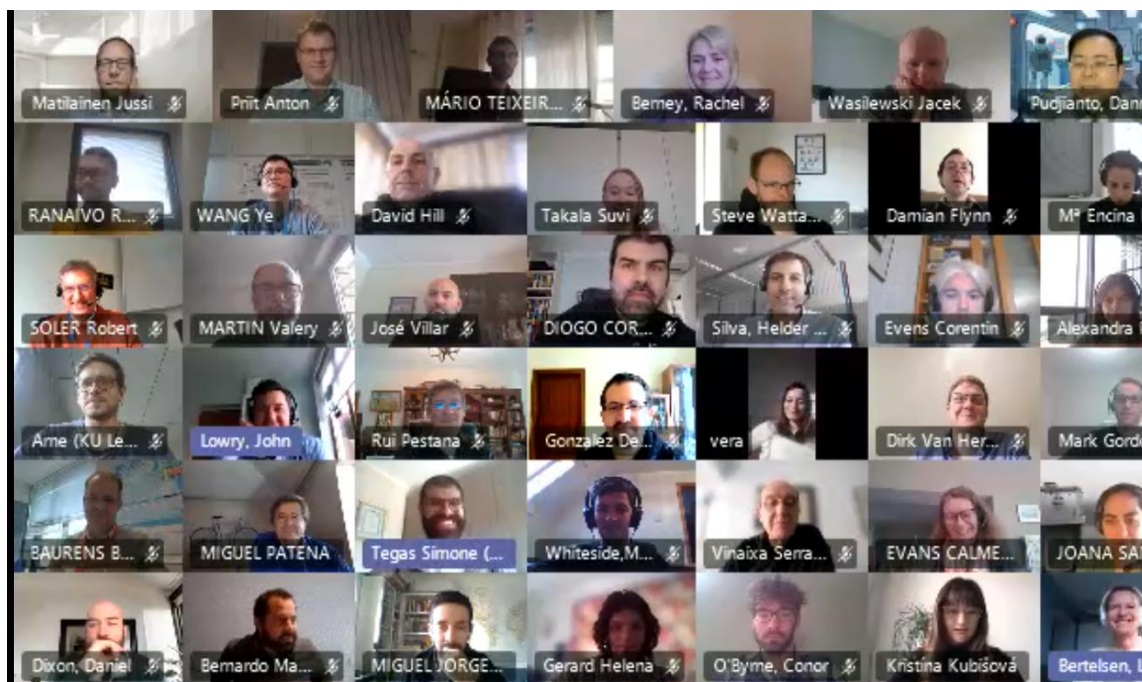
EU-SysFlex presents the fifth issue of its project newsletter. Following the spring issue, EU-SysFlex has published 8 new public deliverables in 4 different Work Packages. Due to COVID-19 pandemic, project events were held online through a number of webinars, attracting hundreds of relevant stakeholders. In October, EU-SysFlex published its second project video, highlighting seven project demonstrators across Europe. The video was first presented at this year's General Assembly, which was also held online.

ALL AVAILABLE PROJECT RESULTS AND SCIENTIFIC PAPERS

From May 2020 to November 2020, 8 new public deliverables were published from 4 different Work Packages:

- [Project Newsletter \(N4\)](#)
- [Forecast: Data, Methods and Processing. A common description](#)
- [Impact analysis of market and regulatory options through advanced power system and market modelling studies](#)
- [Conceptual market organisations for the provision of innovative system services: role models, associated market designs and regulatory frameworks](#)
- [Policy workshop \(N4\)](#)
- [Description of data exchange use cases based on IEC 62559 methodology](#)
- [Individual data exchange use cases](#)
- [New big data collection, storage, and processing requirements as identified from the EU-SysFlex use cases](#)

NEWS AND EVENTS



OCTOBER 2020 | ONLINE GENERAL ASSEMBLY

OCTOBER 2020 | Despite a turbulent year due to the ongoing pandemic, partners of the EU-SysFlex project met online to discuss the project progress. Representatives of 34 partner organizations discussed all of the important results, but also the challenges faced during the 3rd year of the H2020 project.



EU-SysFlex at InnoGrid 2020 virtual sessions

JUNE 2020 | EU-SysFlex was represented by Jan Budke (innogy) at Projects Session: Flexibility & New Markets: One year after ENTSO-E and E.DSO published the ASM Report we are looking into the next steps according to flagship projects dealing with the challenges of coordinating the energy system of tomorrow: Flexibility, electrification, data interoperability, and optimisation among the systems.



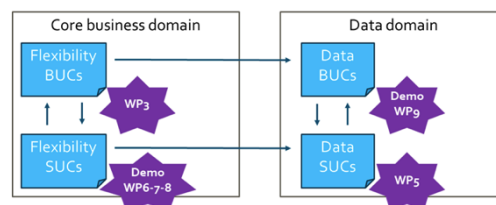
Project Director at RGI digital workshop

OCTOBER 2020 | John Lowry from EirGrid moderated a discussion on the topic of what the most important flexibility needs in the system are, who can deliver them and under which conditions.



Presentation of EU-SysFlex at EUSEW 2020

JUNE 2020 | EU-SysFlex was presented at a policy conference of the biggest annual event dedicated to renewables and efficient energy use in Europe - EU Sustainability Energy Week. Conference's topic focused on addressing flexibility as an essential part of local decarbonisation and the possibility to use it to optimize network investment decisions within the current regulation.



Description of data exchange use cases

OCTOBER 2020 | EU-SysFlex data management team, under the leadership of EDF and Elering, has completed the description of wide range of data use cases based on the concept of Data Exchange Platform.

EU-SysFlex webinars



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

MAY 2020 | First EU-SysFlex webinar presents the results of published in Task 2.4 report for the Continental European power system, the Nordic power system and the Ireland and Northern Ireland power system.



Financial Implications of High Levels of Renewable Sources on the European Power System

MAY 2020 | Second EU-SysFlex webinar presents the findings from Task 2.5 for the Continental European power system, the Nordic power system and the Ireland and Northern Ireland power system.



Conceptual Market Organisations for the Provision of System Services: Role Models, Associated Market Designs...

JUNE 2020 | Third EU-SysFlex webinar focuses specifically on different types of electricity procurement organisation, market clearing optimization principles and applies these principles to a number of selected electricity market products, i.e., inertia and products related to frequency and voltage control, and congestion management.



Impact Analysis of Market and Regulatory Options through Advanced Power System and Market Modelling Studies

JUNE 2020 | Fourth EU-SysFlex webinar focuses on outputs of task, which involved modelling different operational timeframes and quantitatively analysing how market and product designs of systems services play out in different power system configurations: distribution vs. transmission level, isolated vs. interconnected, lightly-loaded vs. congested grids.

COMING UP NEXT



 EU-SysFlex

WEBINAR #5

DECEMBER 10, 2020 | EU-SysFlex would like to invite you to a webinar dedicated to Task 5.3, describing big data considerations and solutions for flexible energy systems. The findings of Task 5.3 are further detailed in the public report accessible [here](#). For more information about the webinar and registration link, please visit [EU-SysFlex website](#).

IN THE MEDIA



EU-SysFlex presented in the BRIDGE Newsletter

JUNE 2020 | Ninth edition of the BRIDGE Newsletter, published in June, brings relevant coverage about BRIDGE projects, including EU-SysFlex. You can find and download the newsletter [here](#).



EU-SysFlex mentioned in Silicon Republic article

JULY 2020 | Silicon Republic's article on what challenges there are in creating a renewables-led European super grid mentions EU-SysFlex as one of the EU-wide projects aiming to do just that. Read the article [here](#).



The EU-SysFlex project was shortlisted for the 'Good Practice of the Year 2020' award, organized by Renewables Grid Initiative. EU-SysFlex competed in the 'Technological Innovation & System Operation' category. All 20 of this year's practices represent innovation, endurance and commitment to a nature-friendly, inclusive renewables-based energy system. You can read the Good Practice of the Year 2020 brochure [here](#). Find more information about the Good Practice of the Year award on Renewables Grid Initiative [website](#).

[Read our project blog](#)

Newest blog entries:

- [A utility scale Virtual Power Plant \(VPP\)](#)
- [The EU-SysFlex French Industrial-Scale Demonstration: Coordinating Distributed Resources for Multi-Services Provision](#)
- [Design options of TSO/DSO coordination and their interface to flexibility markets](#)
- [Three policy recommendations from the impact analysis of market and regulatory options in the pan-European power system through advanced power system and market modelling](#)
- [Exploitation of power flexibilities from distribution networks: the importance of simulations. Outcomes from Task 6.3](#)
- [Performance analysis of data exchange and processing in the German Demonstrator](#)

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