The energy systems of 2025 will be based on increasing levels of RES penetration and DSO’s will need new insight into how their networks are performing to optimise their operations financially. At the same time, the 5G mobile networks will be deployed by 2025 offering low latency, high availability services enabling data driven control. The evolution of the energy sector is increasingly focused on energy as a service. What DSOs now need is to accelerate their ability to introduce innovations, such as those based on the sharing economy, by themselves using services increasing their flexibility to adapt and reducing their need for fixed investments.

SOGNO will address this challenge by combining the application of deep intelligence techniques, industry grade data analysis and visualisation tools, advanced sensors, an advanced power measurement unit and 5G based ICT to provide fine grained visibility and control of both MV and LV power networks using end to end automation in a virtualised environment. Our results are provided as turnkey services, validated in DSO field trials (to TRL level 6) preparing them for market introduction beginning shortly after the project ends. An Open API will be provided to enable third parties to market their services in our eco-system creating further market growth.
Regulatory and standards changes needed to enable the deployment of advanced techniques will be prepared by the project. Ethical business models will support the market introduction of turnkey services. Commercialisation of the project results, as energy services, will result in disruptive change in the DSO energy market enabling breakthroughs in the speed and cost effectiveness of DSO large scale roll out of automation and growth in the energy services market in Europe and beyond. The SOGNO vision will unlock a new service-oriented market making Europe's energy sector the most advanced and open in the world.

Field of Science

/social sciences/economics and business/business and management/commerce
/social sciences/economics and business/business and management/business model
/social sciences/sociology/industrial relations/automation
/social sciences/economics and business
/social sciences/sociology/governance/public services
/engineering and technology/electrical engineering, electronic engineering, information engineering/information engineering/telecommunications/wireless/5g
/natural sciences/computer and information sciences/data science/data analysis

Programme(s)

H2020-EU.3.3.4. - A single, smart European electricity grid

Topic(s)

LCE-01-2016-2017 - Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network

Call for proposal

H2020-LCE-2017-SGS

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator
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EU Contribution
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Activity type
Other
EU Contribution
€ 200 000
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Activity type
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EU Contribution
€ 61 200

Contact the organisation

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