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Transforming the energy sector

Vivid technology and social trends shape the future of the energy sector. Entra Energy's purpose is to bring this future now, by providing smart solutions for the transformation, digitization and democratization of the energy sector.



Who we are?



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Our focus



RES development



RES investments



Innovations in energy

Energy Transition Explained



The way forward - much needed transformation

Energy innovation and transformation plays an important role in order to satisfy **constantly increasing energy needs while fighting climate change**.

The current **fossil-fuel based energy systems are unsustainable and less and less capable to address the energy system challenges** not only due to scarce resources, but also because of a negative impact on climate change. Therefore, the European council has unanimously decided that the EU requires to largely decarbonize its energy system by 2050.

Transformation of Energy sector requires innovation and transformation with high speed and fast deployment of new and smart solutions.

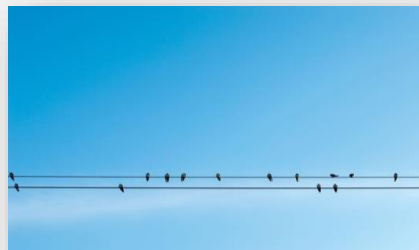
Energy research, innovation and transformation has an essential role to play in addressing the challenge of satisfying security of energy supply, competitiveness of the EU industry and ensuring affordable prices for the citizens.



2030

2040

2050



Challenges and Solutions

Challenges:

- Reducing energy consumption and carbon footprint
- Low-cost, low-carbon electricity supply
- Alternative fuels and mobile energy sources
- A single, smart European electricity grid
- New knowledge and technologies
- Robust decision making and public engagement

Solution!

- Many technologies, innovative market designs and solutions will play a role in future energy grid.

Pivotal role of :

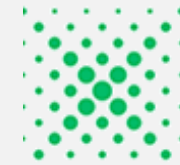
Internet of Things | Digitalization of Electricity | Electrification

- Smart grid
- Distributed Generation
- Demand response
- P2P energy transactions
- Prosumers behavior
- Curtailment management

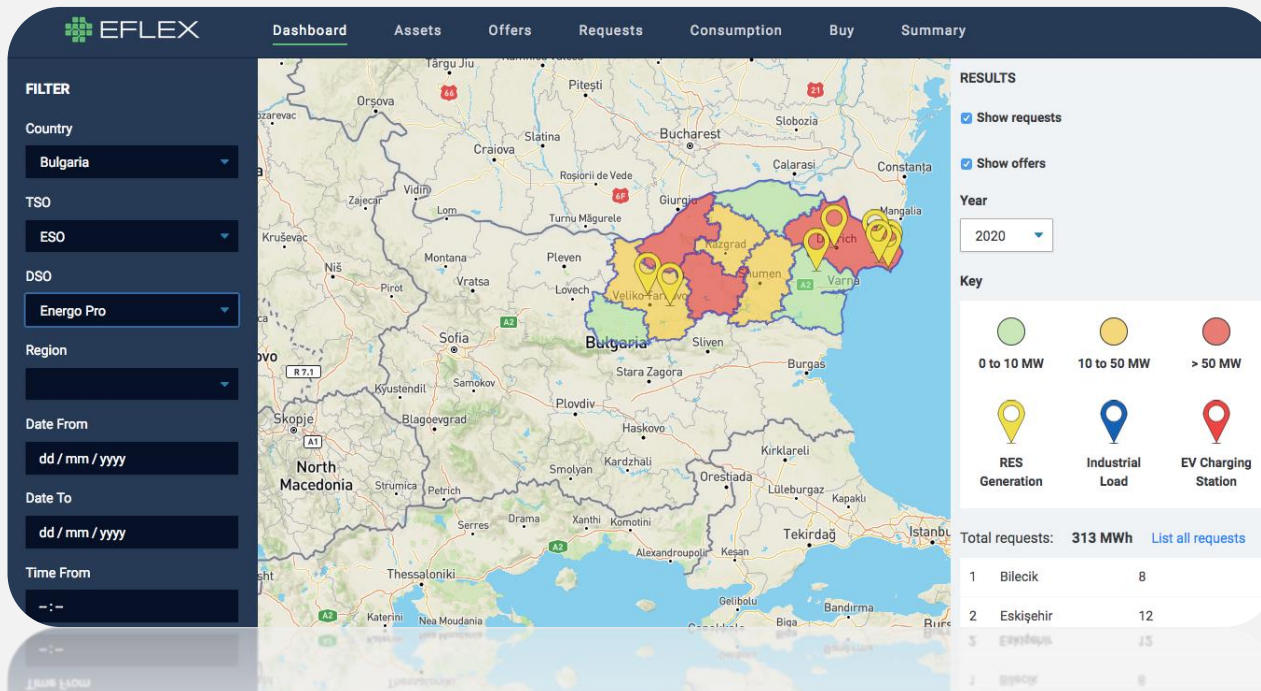


Project Solutions

- Flexibility services
- Active management of production and consumption through forecasting, monitoring and energy trading
- Optimized grid investment by place and time.



FlexiGrid



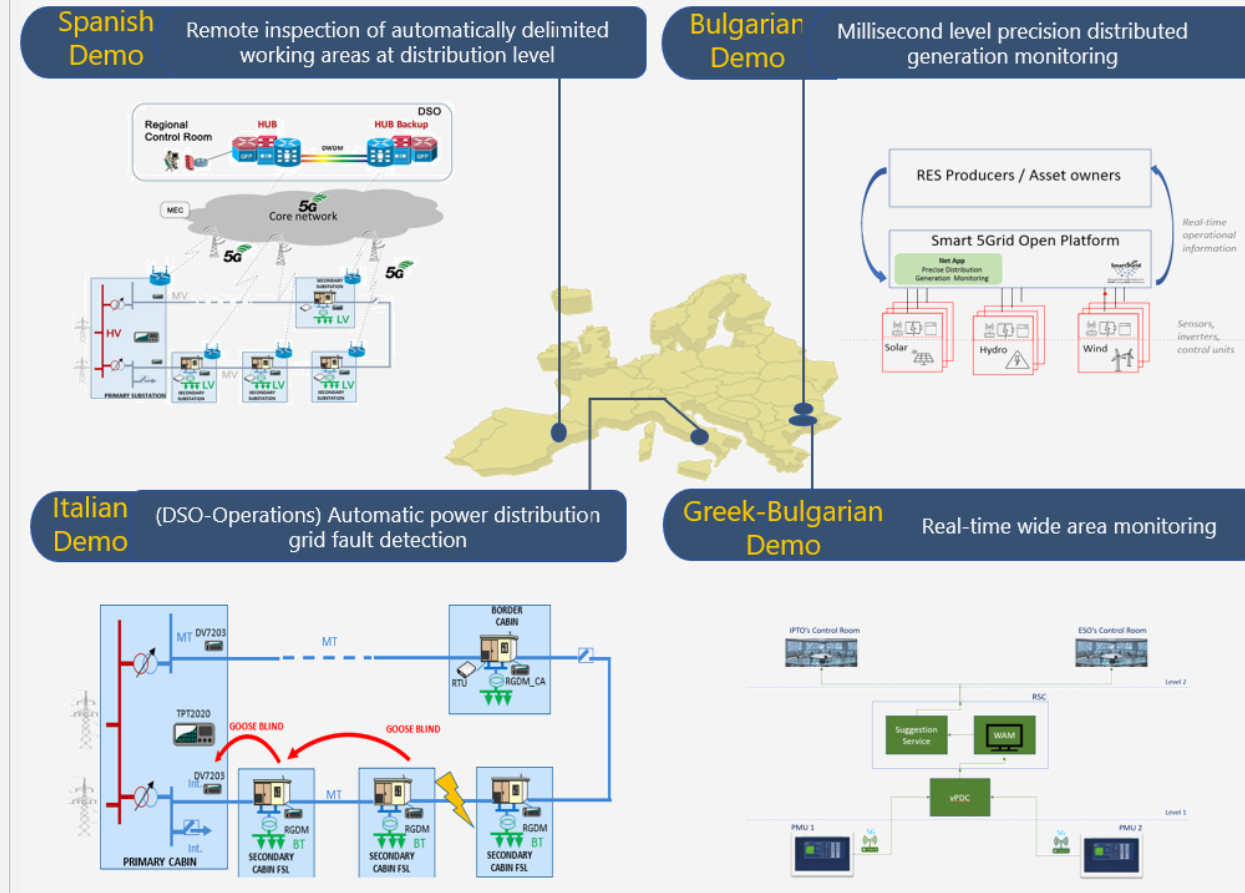
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 864048

Smart5Grid – Researches to demonstrate 5G as a possible connectivity technology/infrastructure for flexible energy services to become commodity and go big scale



The key demonstration activities include:

- Automatic Power Distribution Grid Fault Detection;
- Remote Inspection of Automatically Delimited Working Areas at Distribution Level;
- Millisecond Level Precise Distribution Generation Monitoring;
- Real-time Wide Area Cross-Border Monitoring.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101016912

Thank you for the time and attention!

Entra Energy team's passion is the energy sector transformation for a better future and we remain available for any questions, discussions, initiatives and to exchange ideas in this domain!

You can reach us through any of the team's contacts or on our website

<https://www.entra.energy/> and [LinkedIn](#) page 😊

To follow the projects we've shown you, you can use the following QR code:

