

PARTNERS



CONTACT

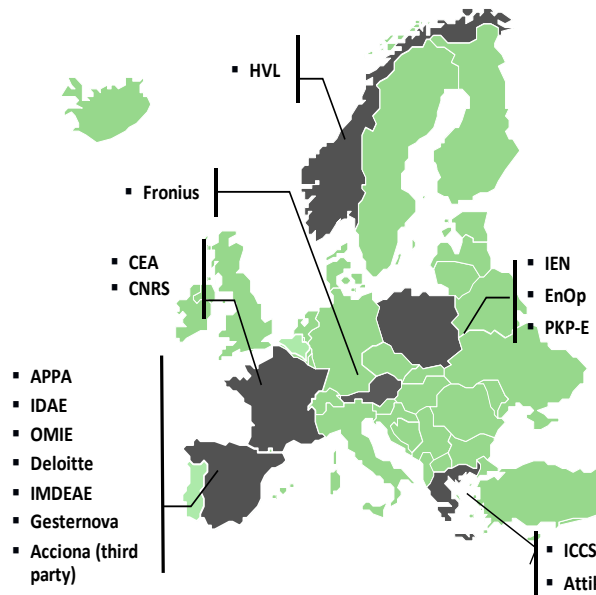
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- dres2market.eu/
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EUROPEAN COUNTRIES

The following 6 European countries and 15 partners are participating in the project.



DRES2MARKET

DRES2Market: Technical, business, and regulatory approaches to enhance renewable energy capabilities to take part actively in the electricity and ancillary services markets

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the Grant Agreement No 952851



OBJECTIVES

The main goal of the DRES2Market project is to develop comprehensive and affordable approaches to facilitate effective participation in distributed generation based upon renewable energies - solar PV and wind energies in the electricity markets, and to provide balancing and reserve services according to market criteria.

Integration approaches for enhancing the penetration of renewable energy sources (equipment and devices, grid codes, market rules and operating procedures, price response mechanisms and effective collaboration of the consumers frameworks) have been built focused on large scale penetration of variable renewable energy in accordance with competitive criteria and to obtain a positive impact from providing ancillary services.

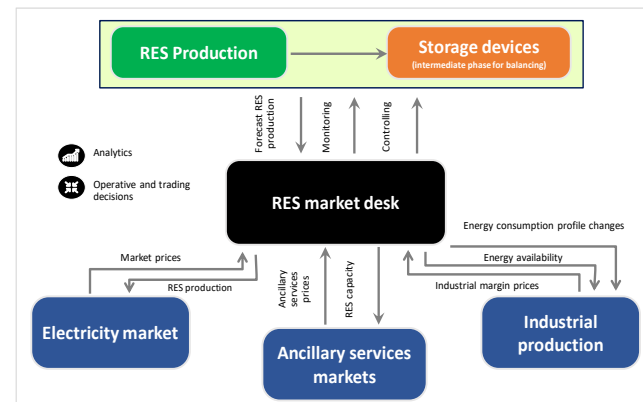
DRES2Market is focused on overcoming the existing barriers (technology and regulatory framework) for developing the integration of RES technologies, to propose technical and operational solutions that could mitigate them, as well as supporting the development of prosumers, including:

- Identification of the positive impacts of these technologies, in order to obtain their social acceptance;
- Promoting the opportunities for active participation of final consumers and prosumers according to market criteria and proposing schemes of collaboration.

DESCRIPTION

DRES2Market evaluates affordable approaches for enabling large scale penetration of renewable energies in the electricity markets and supply ancillary services (reserve, voltage control and black start service) based upon intensive use of technology and energy storage devices, and collaborative framework with final consumers. These approaches will be tested and validated at two levels:

- Simulating the impact of the most promising solutions by using computing tools, taking into consideration evolution and variability of market prices with an increase in the share of renewable installations.
- Simulating electricity markets and systems to identify the most promising integration approaches (technical and regulatory solutions, effective grid codes and appropriate market rules) and to evaluate their effectiveness.



Large penetration of RES is the main strategic driver in developing competitive advantages in the European renewable energy industry.

CHALLENGES

Renewable energies, storage devices and smart technologies have witnessed a profound development in recent years, and these advances could be used to enhance the integration of variable renewable energies in electricity markets and to provide ancillary services.

DRES2Market results are based on:

- Analysis and evaluation of existing technologies to design appropriate approaches and techniques for an effective integration of distributed generation in the electricity and ancillary services markets.
- Recommending the appropriate standards for technologies and proposing their evolution in order to meet market requirements.
- Analysis of the current European electricity markets to develop guidelines for effective approaches and active participation of variable renewable energies and distributed generation in EU electricity markets.
- Analysis of the European Union and North American grid codes as well as market rules and assessing their evolution to enable the participation of variable renewable energies.
- Designing techniques and approaches for the active involvement of final consumers in the penetration of variable energy resources according to market criteria and requirements.
- Developing recommendations for equipment and device standards for enhancing RES integration, as well as for the regulatory harmonization within the EU.