

COLLABORATIVE DOCTORAL PARTNERSHIPS – CALL 2020

THEMATIC FIELD 3: EU Energy Transition

JRC RESEARCH AREA DESCRIPTION

The JRC is the reference point in the Commission for independent, reliable and timely scientific and technical evidence on energy, transport and climate policies in the EU's transition to a carbon neutral society.

The JRC is recognized for its anticipatory capacity, solid expertise and ability to propose and implement interdisciplinary research supporting the policy cycle.

The transition towards a more clean and sustainable energy supply has started and will progressively develop in the next decennia.

Aspects related to emissions and air quality, in cities in particular, are crucial.

It involves energy generation, energy storage, transmission, distribution, market and social aspects.

It also requires a modernization of the energy grids in general.

A series of complex solutions need to be deployed in order to make this huge transition happen.

MAIN POLICY FIELDS

The main Policy Fields are:

- Energy
- Climate
- Transport

LINKS / URL WEBSITES

- <https://ses.jrc.ec.europa.eu/>
- <https://ses.jrc.ec.europa.eu/evolving-electricity-markets-schemes>
- <https://ec.europa.eu/jrc/en/research-topic/air-quality>
- <https://ec.europa.eu/jrc/en/about/jrc-site/petten>

LINKS / REFERENCES TO PUBLICATIONS

- Energy Policy 136 (2020) 111055 The impacts of an integrated European adjustment market for electricity under high share of renewables
- Energies, Published: 28 August 2019 Modelling a Large-Scale Battery Energy Storage
- System for Power Grid Application Analysis
- Applied Energy Volume 252, 15 October 2019, 113425, Comparison of different model formulations for modelling future power systems with high shares of renewables – The Dispa-SET Balkans model
- Applied sciences, Published: 5 January 2017
- Development of a Simulation Framework for
- Analysing Security of Supply in Integrated Gas and Electric Power Systems
- Sustainability, Published: 5 December 2016
- Exploring Community-Oriented Approaches in
- Demand Side Management Projects in Europe
- IEEE , Volume of Journal 106 , Number of Issue 4
- April 2018
- Smart (Electricity) Grids for Smart Cities: Assessing Roles and Societal Impacts
- Vol. 106, No. 4,