



Published on *Ecologic Institute: Science and Policy for a Sustainable World*
(<https://www.ecologic.eu>)

[Home](#) > Accompanying Research: Smart Energy Showcases - Digital Agenda for the Energy Transition (SINTEG)

PROJECT

Digitalization
Energy
Governance
Policy Assessment

Accompanying Research: Smart Energy Showcases - Digital Agenda for the Energy Transition (SINTEG)



[1]

With the funding programme SINTEG, the Federal Ministry for Economic Affairs and Energy (BMWi) seeks to implement practical tests for the energy supply of the future and the digitalisation of the energy sector. In five showcase regions new and innovative solutions, such as for example smart grids, are tested and exemplary solutions for a secure, efficient and climate-friendly energy supply with high proportions of intermittent power generation on the basis of wind and solar energy are developed. Ecologic Institute is part of the accompanying research funded by the BMWi and manages the work package on regulatory framework and standardisation.

The [Federal Ministry for Economic Affairs and Energy](#) [2] is providing funding to the [five model regions](#) [3] of up to 200 million euros for a period of four years. This funding is complemented by private investments leading to over 500 million euros to be invested in the intelligent energy supply of the future. The SINTEG programme forms part of a package of measures entitled "Innovative Digitisation of German Business" serving to help implement the Federal Government's Digital Agenda and at the same time a component of the energy transition.

The funding programme thus also tackles key challenges of the energy transition including the integration of renewables into the system, flexibility, digitisation, system stability, energy efficiency

and the establishment of smart energy systems and market structures. Against this background the SINTEG projects should help to achieve in particular the following objectives:

- guaranteeing secure and efficient grid operation with high shares of renewables,
- tapping efficiency and flexibility potentials (in terms of markets and grids),
- ensuring efficient and secure cooperation of all players in the smart energy system,
- making more efficient use of the existing grid structure,
- reducing the need for grid expansion at the level of distribution grids.

The focus of the accompanying research is to support the BMWi and the energy showcases in combining the experiences of the showcases to serve as transferable solutions for a wider implementation across Germany. The [Institute for Innovation and Technology as part of VDI/VDE Innovation + Technik GmbH](#) [4] heads the accompanying research. Ecologic Institute contributes to the accompanying research by identifying eventual needs for action or adaptation of the regulatory framework in close cooperation with the BMWi and the energy showcases.

Funding

Federal Ministry for Economic Affairs and Energy (BMWi), Germany

Partner

VDI/VDE Innovation + Technik, Germany

Partner

Ecologic Institute, Germany
empirica, Germany
Dr. Christiane Kerlen, United Kingdom
LoeschHundLiepold Kommunikation GmbH (LHLK), Germany

Team

Christine Lucha

Team

Dr. Stephan Sina
Arne Riedel, LLM
Dr. Camilla Bausch
Robert Ostwald

Duration

December 2016 to November 2021

Project ID

2135

Keywords

energy transition, digitisation, integration of renewables into the system, system stability, flexibility, smart energy systems, renewable energy, energy efficiency, grid

structure, smart meters, showcases, demonstration project, ICT framework, combination of the electricity, heat and mobility sector, interconnected energy system, evaluation, monitoring, accompanying research, Germany, Europe

Source URL (modified on 01/31/2018 - 14:41): <https://www.ecologic.eu/14707>

Links

[1] <https://www.ecologic.eu/sites/files/project/2017/sinteg-logo3.jpg>

[2] <http://www.bmwi.de/Navigation/EN/Home/home.html>

[3] <http://www.bmwi.de/Redaktion/EN/Artikel/Energy/sinteg-funding-programme.html>

[4] <https://vdivde-it.de/en/project/smart-energy-showcases-digital-agenda-energy-transition-sinteg-accompanying-research>