Intelligent Energy Europe

Project Fact Sheet

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Promoting grid related incentives for large-scale RES-E integration into the different European electricity systems (GreenNet-Incentives)

Programme area:	ALTENER, RES-Electricity
Status:	Finalised
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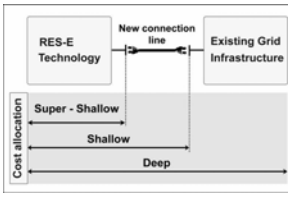
Website:	http://www.greennet-europe.org
Objective:	Develop guidelines to incentivise the integration of large-scale RES-E generation into electricity grids.
Benefits:	Tailor-made guidelines and action plans to accelerate the deployment of renewable electricity through incentives for grid connection
Keywords:	RES-E Grid-Integration Incentives
Duration:	11/2006 – 04/2009
Budget:	€ 1.000.108 (EC contribution: 50%)
Contract number:	EIE/06/217/SI2.445571



Summary

The core objective of this project is to promote grid-related incentives for the integration of electricity generation from renewable energy sources (RES-E) in large-scale into different European electricity systems, to identify existing non-technical barriers for RES-E grid integration, and to actively involve key European market actors (grid companies, RES-E generators, regulators, decision makers) in the discussion process towards “green” electricity grids. This is mainly done by organising expert discussion platforms, a consultation of stakeholders, training/education workshops and summer schools. The major products of this project are tailor-made recommendations and actions plans for several key market actors to establish a common European vision on the implementation of grid-related policies favouring “green” electricity networks. Comprehensive dissemination activities guarantee know-how transfer of project outcomes to European market actors and policy makers in different countries/regions. The GreenNet-Europe simulation software has been extended in geographic terms and updated. It is available on CD-ROM free of charge.

Achieved results

Following major achievements have been reached in the Green*Net*-Incentives project:

- Tailor-made guidelines and action plans for several key European market actors and decision makers in order to accelerate the implementation of sustainable grid-related policies favouring “green” electricity grids.
- The training software GreenNet-Europe (available free of charge) modelling least cost RES-E grid integration. The recent update includes a geographical extension towards Western Balkan Countries.
- 5 Expert discussion platforms held with involvement of major stakeholders in RES-E grid- and system-integration (distribution grid operators, transmission grid operators, regulatory authorities, utilities and other RES-E experts). Find material on these events (Oslo, Stuttgart, Gdansk, Bucharest, Athens) in the download section of the project website (→Presentations).
- 3 Summer schools and 3 Workshops on different aspects of large scale RES-E grid and system integration in different European regions. Find material on these events (Budapest, Agigea, Stuttgart, Milano, Tallinn, Ljubljana) in the download section of the project website (→Presentations).
- Report on Economic incentives for grid operators to favour decentralised RES-E generation. Find this report in the download section of the project website (→ Reports /→ Presentations).

Lessons learnt

Following main conclusions can be drawn from the project:

- Regulation of electricity grids and system integration for RES-E is very heterogeneous in European countries. Besides implementation of transparent rules on the responsibilities of market actors, endogenous incentives have to be established for all involved stakeholders (including grid operators) to achieve progress in RES-E deployment.
- Initialising and continuing a discussion process on strategies how to overcome non-technical barriers of RES-E system integration among involved stakeholders is seen as a vital step towards “green” electricity grids. Transfer of best practice is essential with this respect.
- Grid operators play a significant role in the deployment of RES-E. Therefore the economic environment of their regulated activities needs to provide intrinsic incentives for the connection of RES-E installations to their infrastructure in order that renewable energy policies deliver sufficient progress towards meeting national and international targets.