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

GreenNet-Incentives

Project Co-ordinator: Energy Economics Group (EEG)
Vienna University of Technology

Duration: 11/2006 – 04/2009 (30 months)

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The project GreenNet-Incentives is supported by the European Commission under the Intelligent Energy – Europe (EIE) Programme.

The **core objective** of the project **Green*Net*-Incentives** is

to ***promote grid-related incentives for large-scale RES-E integration into different European electricity systems***

Geographical coverage **EU-27 + NO, CH, HR , MK, BA, CS, AL, TR**

Partners **12 Partners** (research institutions, grid operators, energy agencies, regulatory authorities, consultants) **from 10 European countries**

Outputs

- → **tailor-made guidelines** and **action plans** to accelerate the implementation of sustainable grid-related policies favouring "green" electricity grids
- → **training and education events** on strategies and sustainable policies promoting regulatory incentives for large-scale RES-E grid integration
- → **training software Green*Net*-Europe** (available free of charge)
- → comprehensive **dissemination** of project results

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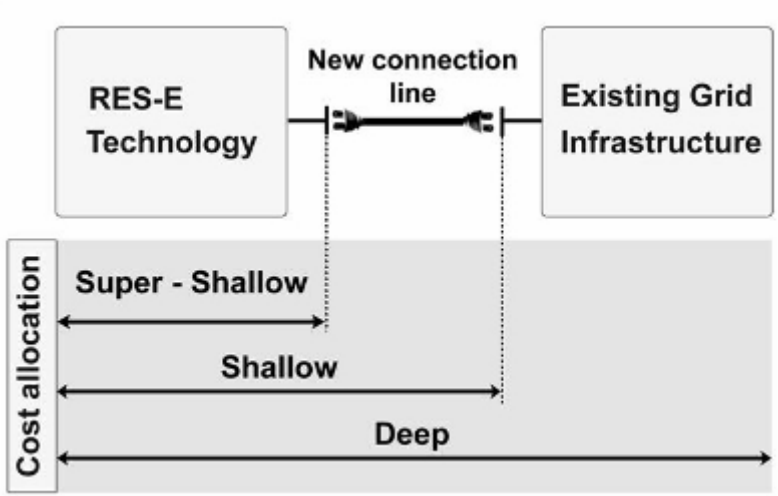
The **background** of the project **GreenNet-Incentives**

Problems/barriers addressed

- **Allocation of grid integration costs** may form a **significant barrier for future RES-E deployment**
- **No common (best practice) policy** concerning grid access charging **implemented**
- **No common incentives in regulatory mechanisms** for grid operators to connect RES-E generators

Target groups

- Decision makers, Policy makers
- Regulatory authorities
- RES-E developers/ Power producers
- Grid operators and utilities



The most important **objective** addressed in the project **GreenNet-Incentives** is

to ***promote incentives for large-scale RES-E integration into the European electricity grids***

Related objectives are

- to **identify still existing non-technological barriers for RES-E grid integration**
- to actively **involve key European market actors** (grid companies, RES-E generators, regulators, decision makers) **in the discussion process towards** sustainable grid-related policies favouring **"green" electricity networks**
- to comprehensively **disseminate several practical guidelines and project outcomes**

The **main steps** which have been undertaken to meet these objectives are

- **Extending the empirical data base of the simulation model GreenNet-Europe** to new Candidate Countries (TR, MK, HR) and Western Balkan countries (BA, CS, AL)
- **Organising expert discussion platforms** on case studies on successful RES-E grid integration projects and stable system operation and derivation of best practise criteria
- **Consulting stakeholders** (primarily **distribution grid operators** and **regulatory authorities**) to identify several existing non-technological barriers on RES-E grid integration
- Organising **training and education events** on strategies and sustainable policies for large-scale RES-E grid integration mainly addressing participants from New Member States and Western Balkan countries
- **Deriving recommendations and action plans** (tailor-made for several important market actors)
- Conducting comprehensive ongoing as well as final and post-project **dissemination activities**

Achieved and expected **results** and **major challenges** of the project **GreenNet-Incentives** comprise

Major Product

- **tailor-made guidelines** and **practical action plans** for key European **market actors** and **decision makers** in order to **implement sustainable grid-related policies** favouring “green” electricity grids

Major Challenges

- **Extension of the geographical coverage** of the existing experts-/stakeholders- network (and of the simulation model **GreenNet-Europe**)
- **Identification of existing disincentives** of large-scale RES-E integration
- **Development of guidelines** how to overcome identified disincentives
- **Addressing and involving respective market actors** to promote and implement suggested measures.

- **Have a positive impact on the efficiency of future deployment of large-scale RES-E in Europe!**

5 Expert Discussion Platforms

have been held in Oslo, Stuttgart, Gdansk, Bucharest and Athens .
Topics included:

- → Best practice criteria of RES-E grid and system integration
- → National success stories
- → Favourable regulatory framework for RES-E deployment.

Major stakeholders in the field of RES-E system integration could be attracted to contribute to and participate in these events (representatives from DSOs, TSOs, regulatory authorities, utilities and other RES-E experts)

3 Training Workshops and 3 Summer Schools

have been organised on

- → sustainable policies for large scale RES-E grid integration and
- → country specific topics (RES-E project development, financing RES-E projects, …)

Visit the project website www.greennet-europe.org to download material of mentioned events and 4 dissemination conferences (RES Boat Vienna, Bucharest, Zagreb, Prague)!

GreenNet-Incentives: Partners and Contact …

Project Partners:

Universität Stuttgart, Germany
eERG, Politecnico di Milano, Italy
SINTEF, Norway
Ape, Slovenia
Wien Energie Stromnetz GmbH, Austria
ENERO, Romania
EnergoBanking, Hungary
IT Power, UK
ENVIROS, Czech Republic
EnBW, Germany
Regulatory Authority for Energy of the Hellenic Republic, Greece

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