

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



**The opinion of European stakeholders on barriers of large scale RES-E integration**

**GreenNet – Incentives**

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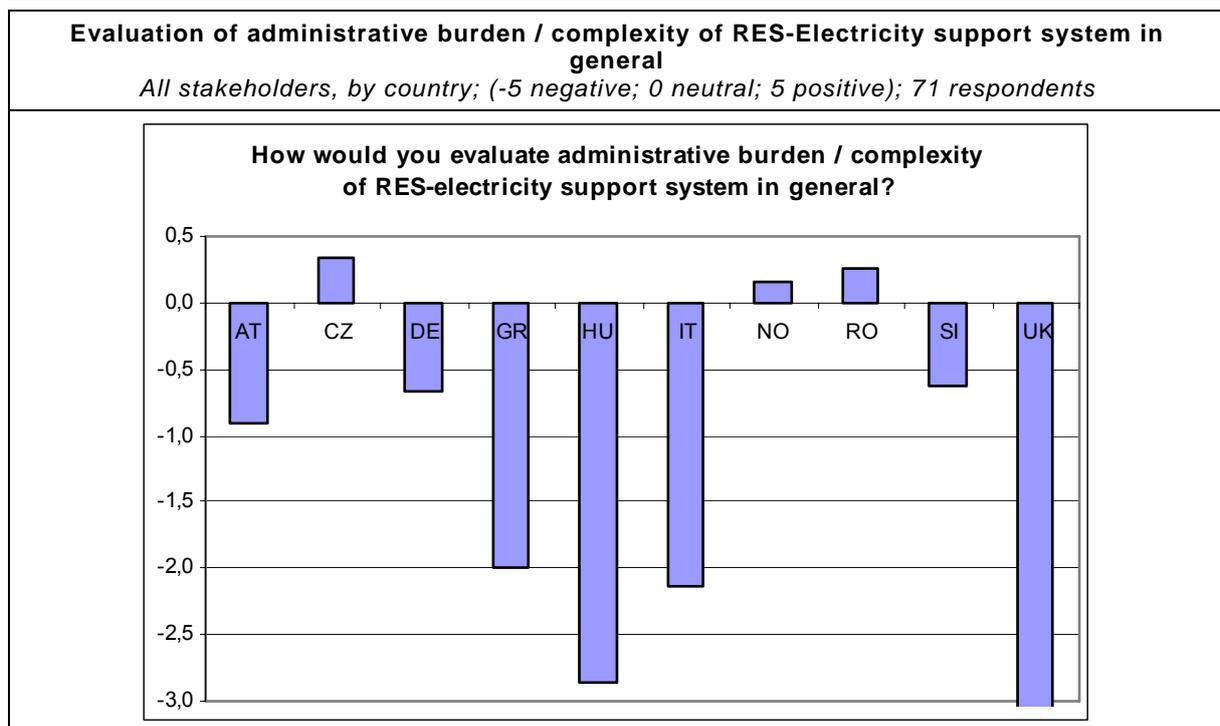
## GreenNet-Incentives Stakeholder Consultation on Barriers of RES-E integration

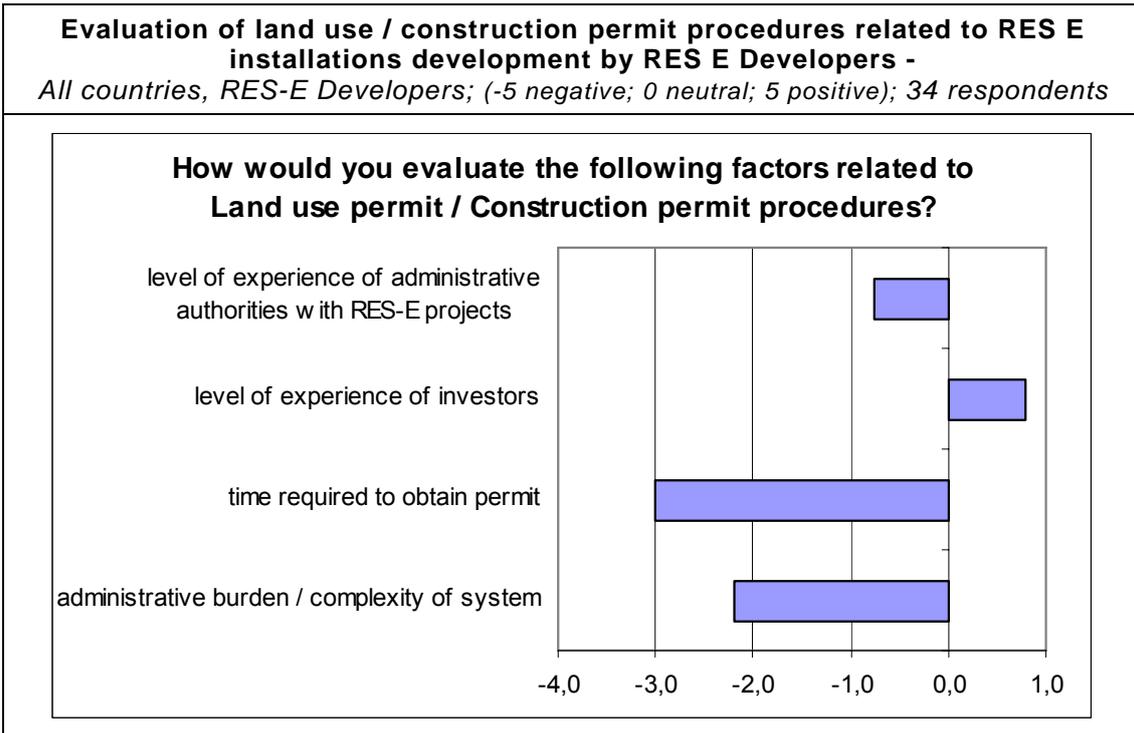
There are several groups of stakeholders at the electricity market with different views and opinions on barriers and information deficits on large-scale RES-E grid integration. These could be divided into three key groups: Energy Regulatory Authorities, Distribution Grid Operators and RES-E Developers. Their priorities related to grid connection and operation of distributed RES-E sources significantly differ (in fact, sometimes are exactly opposite) and could be summarized as below:

- **Energy Regulatory Authorities:** Protect the final consumer, regulate costs of grid operation and development and support RES development (in some countries).
- **Distribution Grid operators:** Operate the grid safely, economically, without technical complications and additional costs for themselves.
- **RES-E Developers:** Get the RES-E source connected to the grid – quickly, without administrative and technical barriers, without additional costs and fees for grid connection and benefit from available system of support for RES-E.

All three stakeholder groups were focused on and consulted in 10 European countries through 72 personal or telephone/e-mail interviews using specific questionnaires developed in order to reflect priorities and issues relevant to each stakeholder group involved. The aim was to identify several existing non-technological barriers and information deficits on large-scale RES-E grid integration, issues related to grid connection of RES, priorities of the relevant stakeholder group, evaluation of current grid connection practices and system of support of RES, etc.

Two examples of results of the evaluation of stakeholder responses are presented below:





The key results of stakeholder consultation could be summarized as below:

- The RES-E support schemes in some countries are not sufficient and sometimes create additional barriers. Some of the barriers such as **low level of support for some technologies in technology specific RES-E support systems and absence of long-term guarantee of stability of support** could become important risk factors for RES E Developers and project financiers
- The key non technological barriers related to RES-E project development are mainly **administrative procedures related to development of RES-E projects and lack of coordination between authorities** involved in administrative proceedings related to RES-E projects.
- Other important barriers of socio-economic nature that were identified are **little public acceptance of RES-E installations** in some countries and **activities of various interest groups directed against RES-E development.**

A full report summarizing results of stakeholder consultation on different non-technological barriers and information deficits on large-scale RES-E grid integration conducted in 10 European countries as well as a summary presentation are available online in the download section of the **GreenNet-Incentives** project website:

[www.greennet-europe.org](http://www.greennet-europe.org)

The full report on the topic of this brochure, summary presentations and the documentation of a broad range of events dedicated to large scale RES-E grid and system integration as well as a report on energy policy recommendations and action plans towards "green" electricity grid policies can be downloaded from the project website:

[www.greennet-europe.org](http://www.greennet-europe.org)

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Guiding Large Scale and Least Cost Grid and Market Integration of RES-Electricity in Europe

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Welcome to the project website **GreenNet-Europe: Guiding Large Scale and Least Cost Grid and Market Integration of RES-Electricity in Europe**.

**GreenNet-Europe** incorporates a series of different projects having been supported in different programmes of the European Commission in recent years (**GreenNet** (2003-2004); **GreenNet-EU27** (2005-2006); **GreenNet-Incentives** (2006-2009)). Several of these projects have been coordinated by Energy Economics Group (EEG) at Vienna University of Technology, Austria.

Energy Economics Group (EEG), together with several partners of the consortia in the different projects, tries to establish a common understanding on large scale and least cost grid and market integration of RES-Electricity in Europe under a variety of different constraints (e.g. technical, economical, legal, societal) and energy policy settings. In particular, **GreenNet-Europe** emphasises the necessity of a convergence of different coexisting policies of RES-Electricity grid and market integration (e.g. renewable technology support policy, grid regulation policy, unbundling implementation policy) as well as comprehensively addresses also the grid operator's and system operator's point-of-view in this context.

In **GreenNet-Europe** a variety of different products have been developed, e.g. simulation software tools, empirical data bases, policy recommendation reports, presentations, and brochures. The portfolio of outputs of **GreenNet-Europe** is continuously extended and several of these products and materials are available on this website free of charge. In **GreenNet-Europe** also comprehensive dissemination activities are conducted in order to reach several key decision makers and stakeholders (incl. their associations) in the field of large scale RES-Electricity grid and market integration, as there are e.g. policy makers, regulatory authorities, RES-E generators, system operators, grid operators and end-users.

23 March 2009  
Dissemination Conference Vienna  
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