



SmartGrids

European Technology Platform



ISTVÁN PATAKI
CEER VICE PRESIDENT

on behalf of
President Sir John Mogg

1ST GENERAL ASSEMBLY

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The European Commission – Research has set up the Technology Platform for the Electricity Networks of the Future (SmartGrids). The Advisory Council of the Platform presented the Vision Report to be discussed by this Assembly.

The Council of European Energy Regulators welcomes the initiatives introduced by the report and expresses its acknowledgements to the Advisory Council and to all contributors.



Electricity networks – links between electricity producers and consumers.

Traditional architecture – one way power flow from centralised generators to distributed consumers.

New challenges

- **new energy policies,**
- **new consumer's expectations, behaviours,**
- **new generation technologies,**
- **new network technologies,**
- **security and quality of supply,**
- **European Internal Market,**
- **new environmental requirements.**



Electricity networks – links between electricity producers and consumers.

The future distribution grid

- **active, uni-directional power flow,**
- **user-centric, user specified, DSM supporting,**
- **accessible to all network users,**
- **integrated large central and DG, RES generation,**
- **real-time balancing power over Europe,**
- **reliable and economic,**
- **smart metering, smart ICT,**
- **self-dispatch or local SO.**



Smart networks – legal and regulatory frameworks

- **integrated approach for technical, commercial and regulatory factors**
- **European Internal Market, Directives, increased competition,**
- **eliminated uncertainty, remuneration of investments,**
- **incentives for innovation,**
- **harmonised technical standards, commercial rules,**
- **working together with all relevant stakeholders.**



SmartGrid – CEER’s point of view

- **CEER agrees the principles and most of the initiatives,**
- **key elements and risk factors are well identified,**
- **larger emphasis should be placed on the practical side of the project,**
- **possible barriers such as lack of investment funds, consumer’s culture, distributors’ and suppliers’ interest should be respected,**
- **CEER is ready to take its share in developing and harmonising regulatory frameworks in Europe.**