



Electricity **N**etwork **A**nalysis, **R**esearch and **D**evelopment

Albrecht Reuter

IRM – Consulting and Services GmbH



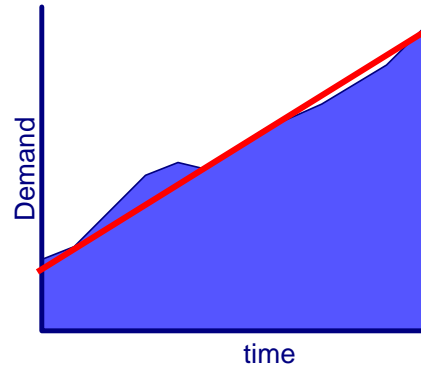
- Why ENARD?
- What is ENARD?
- Where is ENARD?
- How ENARD works
- When + Who?





Network Maintenance

Increasing Energy Demand



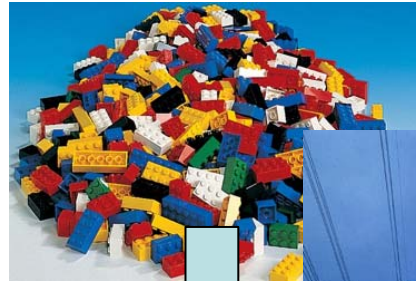
Why?



Renewable Generation

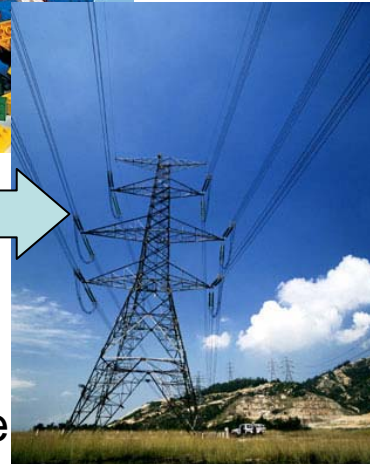
Warum?

Ageing Infrastructure

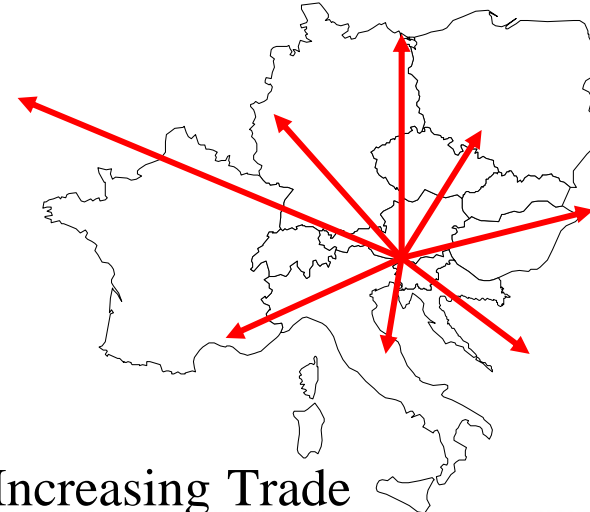


DG +

Restructuring +
Climate Change



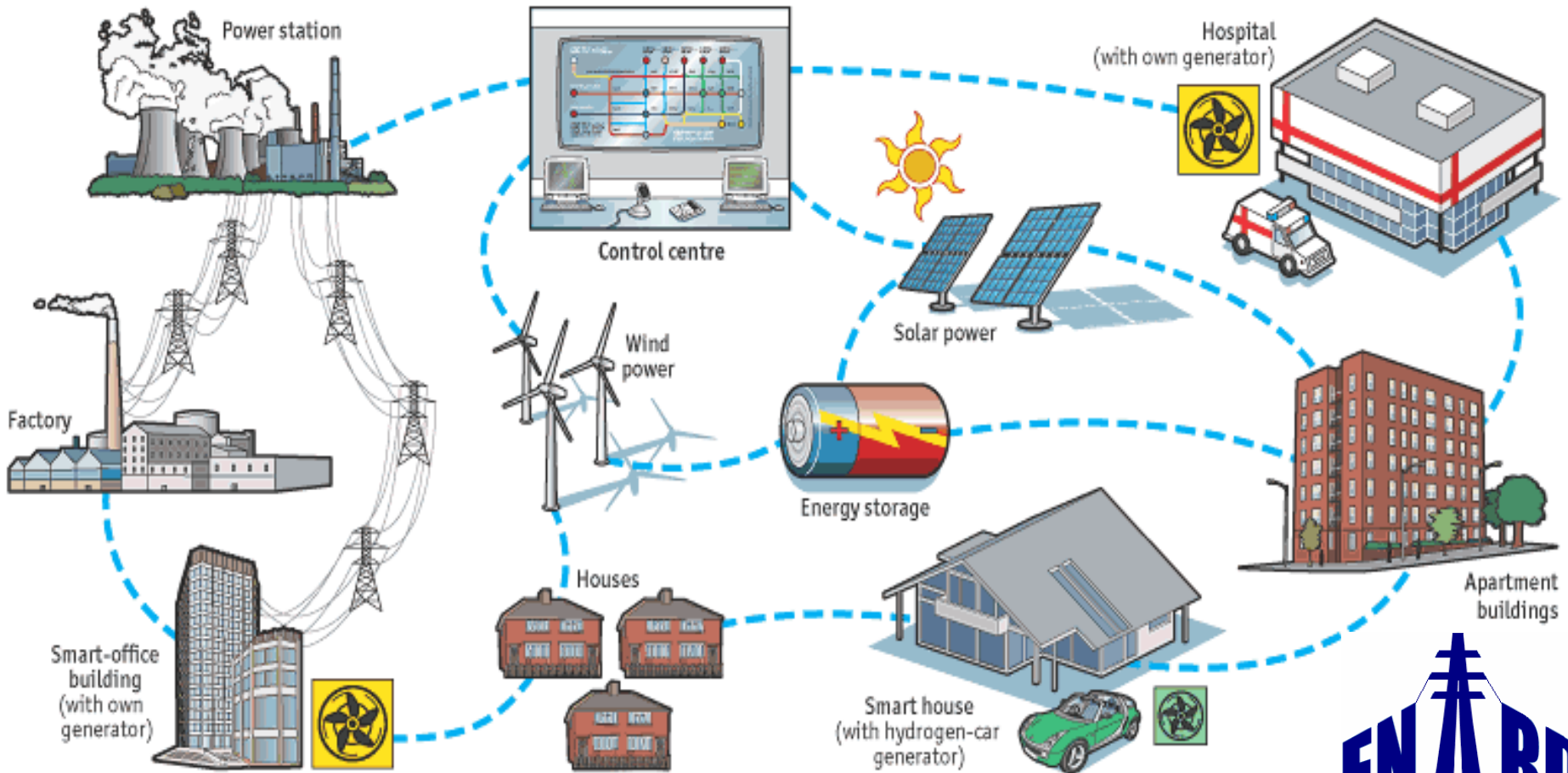
Por qué?



Increasing Trade



....die Zukunft der Stromversorgung?



Sources: *The Economist*; ABB

What ENARD is



What ENARD does for you

- Experts networking – world wide
- ENARD is listened by the member governments and G8 – political role
- Peer group information exchange – first hand
- Joint research platform - international

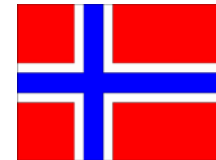
Where ENARD is so far



Austria



Italy



Norway



The Netherlands



Sweden



Finland



Belgium



Switzerland



Spain



Denmark



United Kingdom

- + Canada
- + Japan
- + U.S.A
- +



How ENARD works....

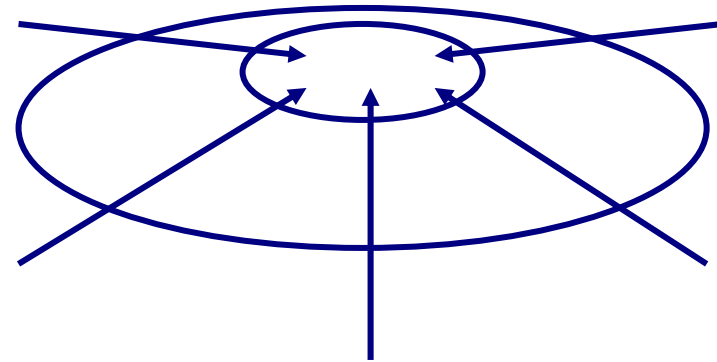
Annex I - Information Collation and Dissemination

- Central control & coordination (Ex-Co Meetings)
- Essential definition platform
- Definition of further annexes for issues of specific interest



Annex II: DG System Integration in Distribution Networks

Problem: massive DG will require fundamental restructuring of network and new business models



Countries interested: **Austria (initiator)**, Switzerland, U.K, Denmark, Canada,....

Commencement: May 1st, 2008



Annex II - DG System Integration in Distribution Networks

Tasks

Aspects for Transition towards
Active Distribution Networks

Operation and Control of
Active Distribution Networks

Cross Cutting Issues, Interrelation
and Dissemination

24 Months + optional extension



Annex III - Infrastructure Asset Management (U.K)

- Asses ageing, degradation, failure and EoL (End-of-Life) characteristics
- Case study of examples on how asset information is used
- Cross reference with available information transmission system

Possible Annex IV - Economics and Regulation (Belgium)

Possible Annex V – Transmission (Norway)



When?

- next ExCo Meeting: April 14th + 15th, 2008

Who?

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