



Business from technology

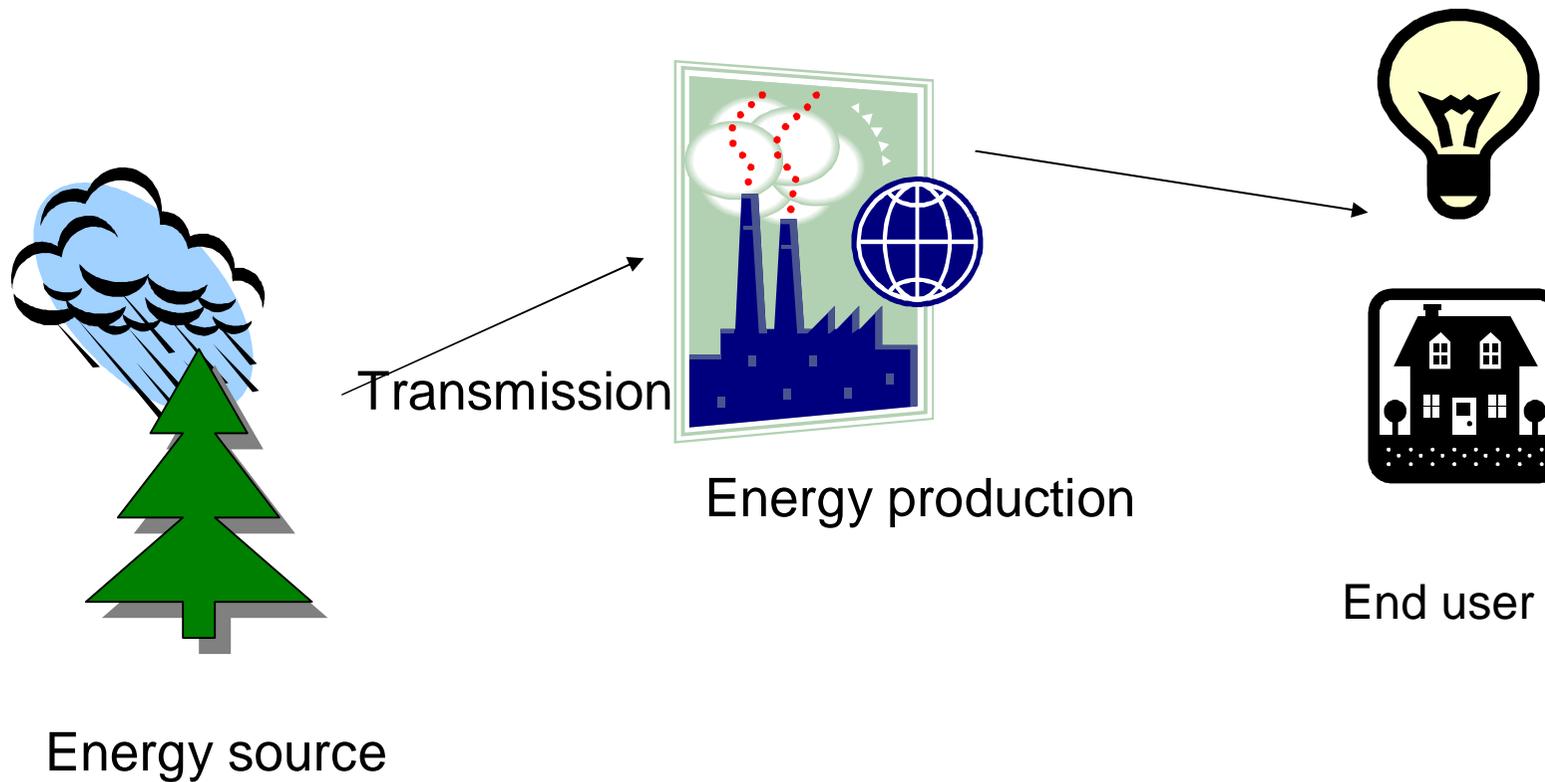
Distributed renewable energy systems, a way towards sustainability?

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Challenges

- Increasing energy demand =>
 - more import / less export
 - environmental problems
- Rising energy prices
- Problems with the power network during peak hours.

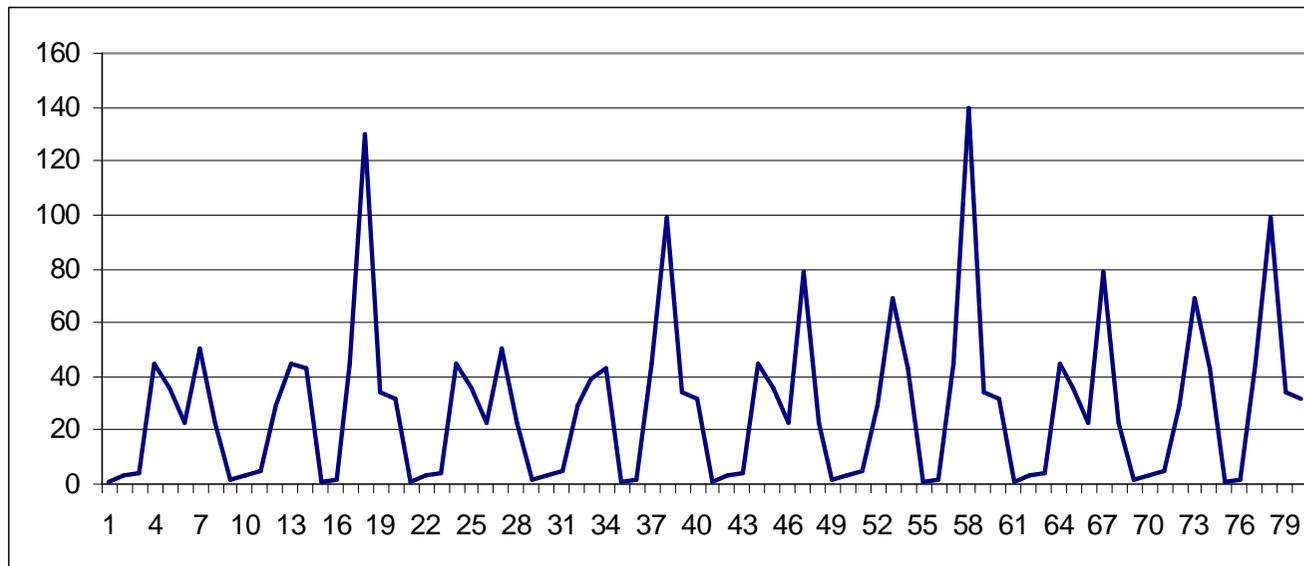
Energy chain should be considered as a whole



Distributed energy systems

- Production close to the consumer
- Less distribution losses
- More optimised production capacity
- Smaller energy production stations enables a better use of renewable energy sources.
 - Bioenergy, fuel supply
 - Wind power, placement and wind resources
 - Ground heat, distribution of the energy wells

Energy metering



Better interaction between production and consumer
Metering => better knowledge about the energy use =>
possibility to reduce peaks => €€

Energy and building sector in the near future

- Energy production and demand become more integrated
- Transport sector shall also be considered as part of the system (electric cars)
- Businessmodels of energyservices are under development
 - Could the energy company own the solar panels on your house? Could you sell your excess heat production to the energy company? Etc..



Advantages for the consumers?

- Less pollution
- Energy metering => easier to save money



- Increased investment opportunities



A look into the future energy market

- Smaller companies (?), privatisation of the energy market (?)
- Wider scope of know how needed (construction sector, people behaviour, city planning)
- A trend has been that the energy systems becomes more technocratic;
 - more sophisticated and precise consumption metering that influences the production systems,
 - small scaled production that are weather dependent will need highly developed technology for forecasting the weather conditions
 - better handling of emissions will become more important in the future.
- Production moving closer to the consumer may also bring a wider understanding for people about energy issues.
- When production becomes more visible it is also acknowledged, it is realised that energy doesn't just come out of the socket.



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