Neutral energy

Offshore wind parks / Desertec/Seatec:
Large-scale industrial projects in renewable energy

Central generation
using conventional power plants.

Storage power plants
adjust for fluctuations in supply from renewable / decentralized sources.

Industrial cogeneration
plants supply industrial plants with process heat and electricity. Excess quantities of power are fed to the network.

Flow of data and current

Flow of data and current

Flow of current

The extra-high voltage grid
transports the current over great distances

Smart Grids
connect and control the flow of data and power

Flow of data and current

Flow of data and current

Energy flow
is regulated in network control centers

Network Control Centers
monitor the distribution network

e·on | Energie

Smart Grids
are intelligent networks because they are based on innovative information- and communication technologies. This is already standard practice for high voltage transmission networks.

Smart meters
are an intelligent and flexible way to deliver power

Recharge-infrastructure
for refueling electric vehicles.

End customer

Renewable energy sources
supply power to the network in ever greater quantities

Consumers
become "prosumers", obtain power from cogeneration plants, solar plants, etc.

Electric vehicles
"refuel" power, but they can also store power and return it to the network.