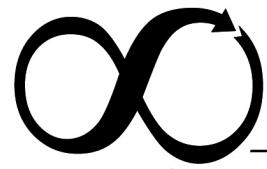


deutschland hat unendlich viel energie

windenergie wasserkraft sonnenenergie bioenergie erdwärme



ERNEUERBARE
ENERGIEN

The Combined Power Plant

The secure and constant provision of power anywhere and at anytime by renewable energies is now made possible thanks to the Combined Power Plant. The Combined Power Plant links and controls 36 wind, solar, biomass and hydropower installations spread throughout Germany. It is just as reliable and powerful as a conventional large-scale power station. The Combined Renewable Energy Power Plant shows how, through joint control of small and decentralised plants, it is possible to provide reliable electricity in accordance with needs.

The Combined Power Plant optimally combines the advantages of various renewable energy sources. Wind turbines and solar modules help generate electricity in accordance with how much wind and sun is available. Biogas and hydropower are used to make up the difference: they are converted into electricity as needed in order to balance out short-term fluctuations, or are temporarily stored. Technically, there is nothing preventing us from 100 per cent provision with renewables.

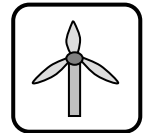
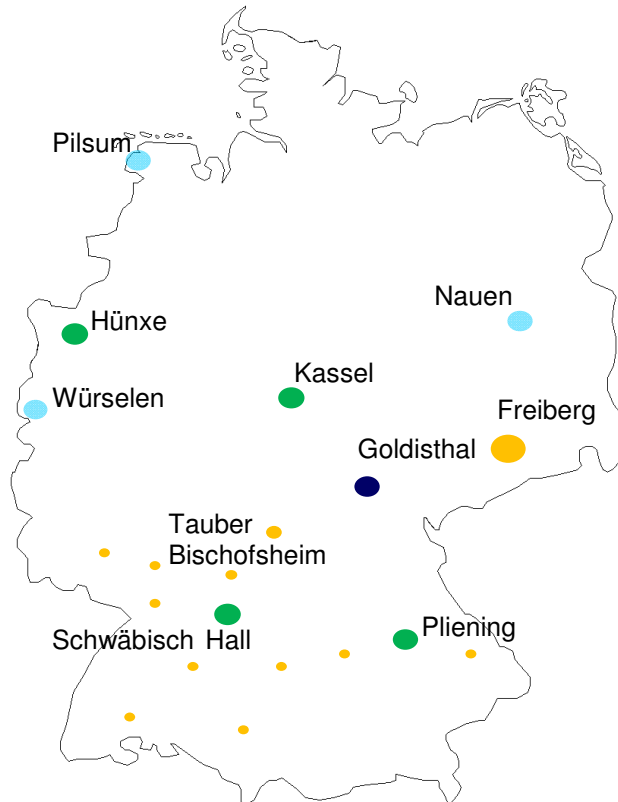
Renewable Energy Agency

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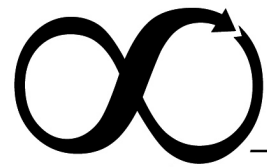
ENERCON
ENERGIE FÜR DIE WELT

Schmack
Biogas AG

SOLARWORLD

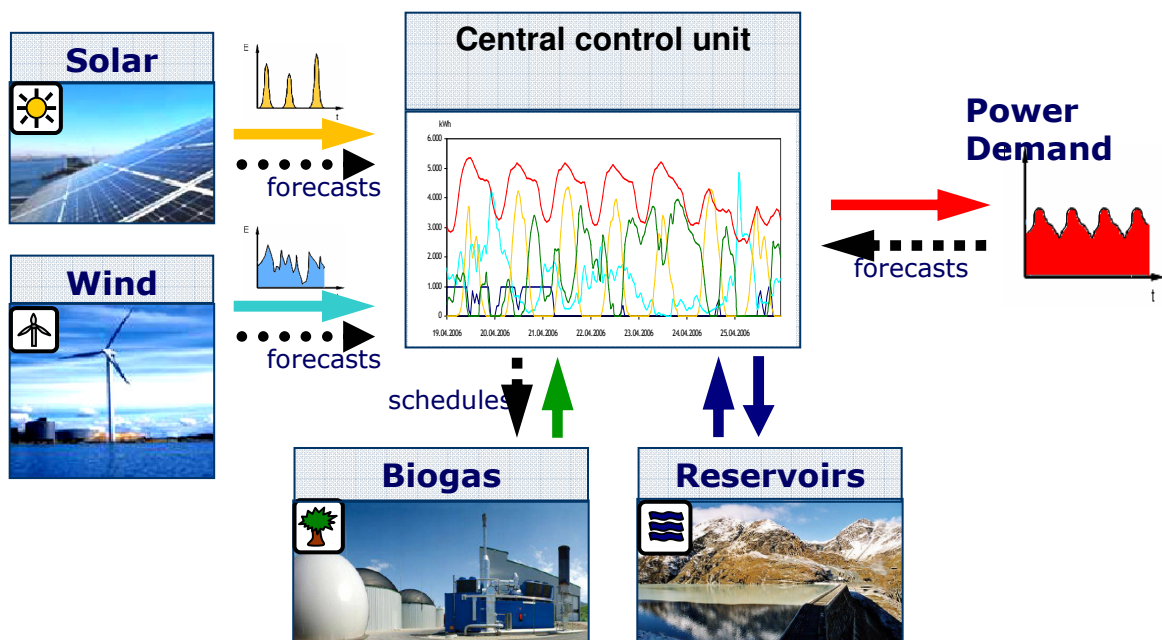
ISET

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The use of intelligent control and regulation technology enables decentralised wind, solar, biogas and hydropower installations to be linked together so that fluctuations in the amount of electricity fed into the grid can be compensated for. The central control unit forms the core of the Combined Renewable Energy Power Plant. Here, the various output forecasts and measurement values are balanced and, based on these data, suitable schedules and control instructions are drawn up for each plant.

Combined Power Plant



The Combined Power Plant is scaled to meet 1/10,000th of the electricity demand in Germany using renewable energy. This corresponds to the annual electricity requirements of a small town with around 12,000 households (such as Stade in Germany). The Combined Power Plant therefore shows in miniature what is also possible on a large scale: 100 per cent power provision using renewable energy. The **Combined Power Plant** demonstrates that renewables

- can be controlled at any time
- function in combination
- can be balanced out across the grid
- and can thus make a considerable contribution to providing flexible energy supplies.

More information: www.kombikraftwerk.de

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