



Challenges for the conventional power supply

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Members and project partners



The products

Flexible fossil-based power plant

- For the compensation of volatile feeding of renewables to the electric grid
- With the performance features:
 - High load change rate and low minimal load
 - High efficiency (full-load and partial load)
 - High environmental compatibility (CCS)
- For the markets:
 - New construction: worldwide, focus Asia
 - Existing plants: Europe, focus Germany



Marketable solar thermal tower power plant

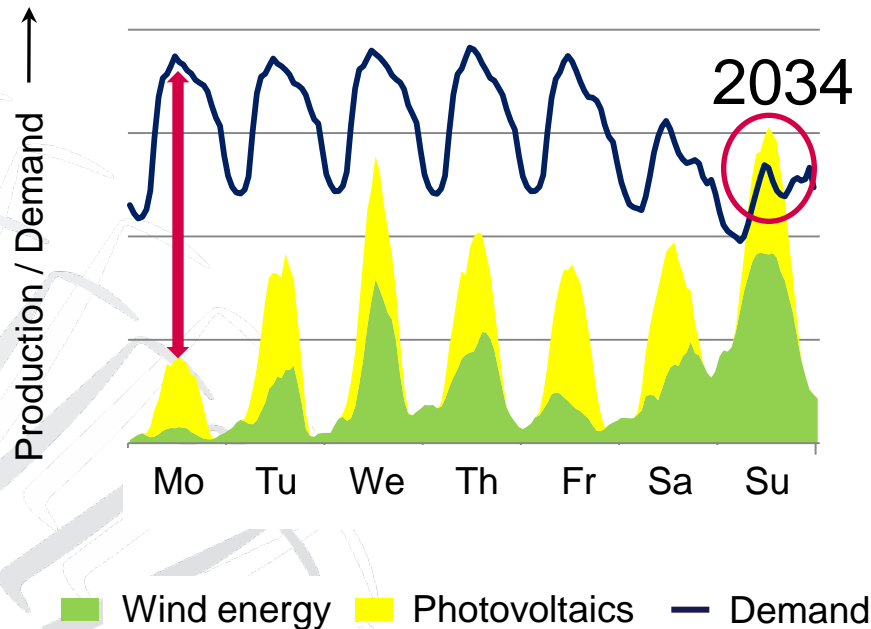
- To promote efficient solar energy use
- With the performance features:
 - High unit capacities (output >120 MW)
 - Base load capability (internal storage)
 - Marketability (low specific investment costs)
- For the markets:
 - New construction: sun belt of the world



Initial situation

Fluctuating feed in of renewable energies – further demand on power supply

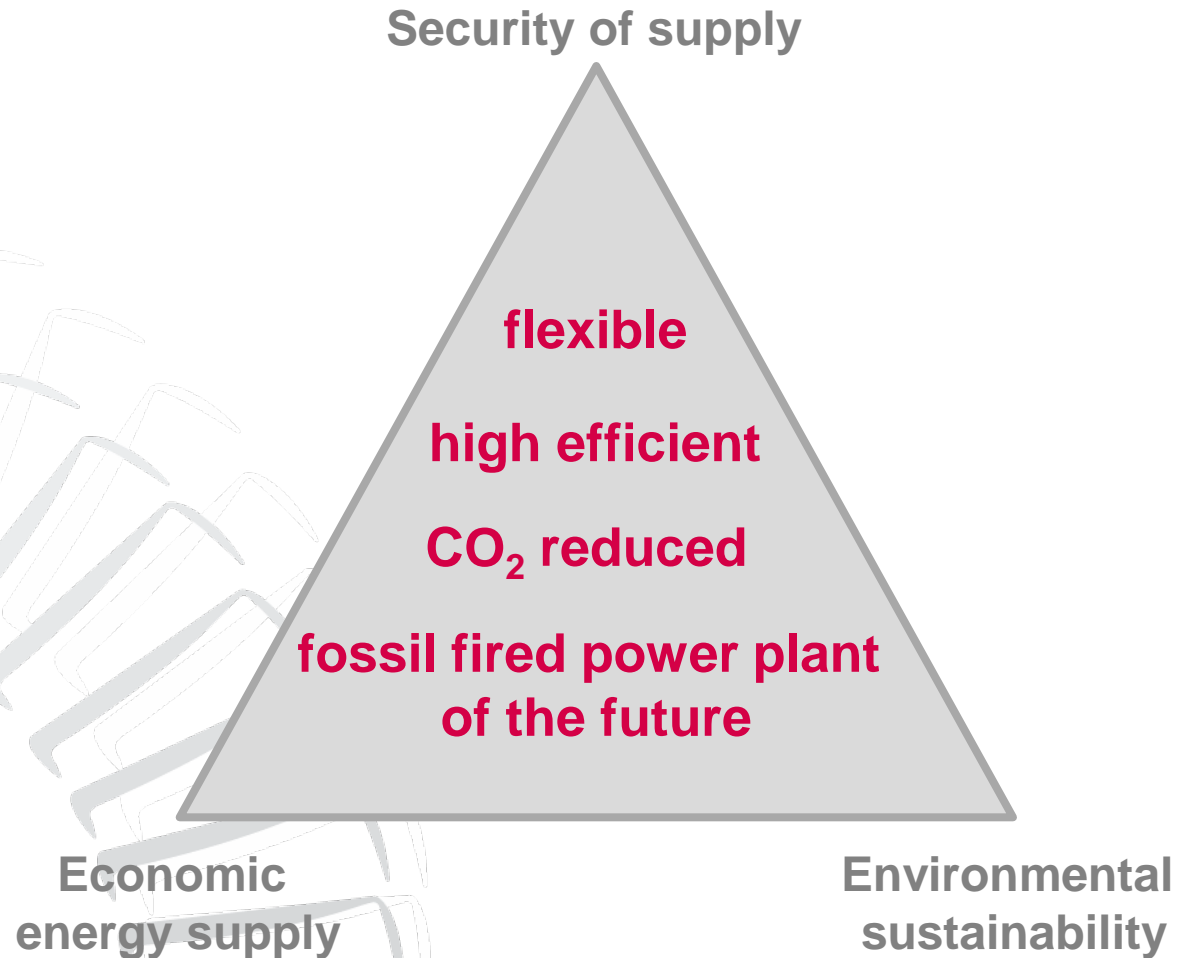
- Power generation in Germany in 2034 - exemplary week



(Based on: Moser, 2014)

- Generation from wind and photovoltaics will exceed the demand in future temporarily.
- ➔ Guaranteed capacity is essential to cover the residual load

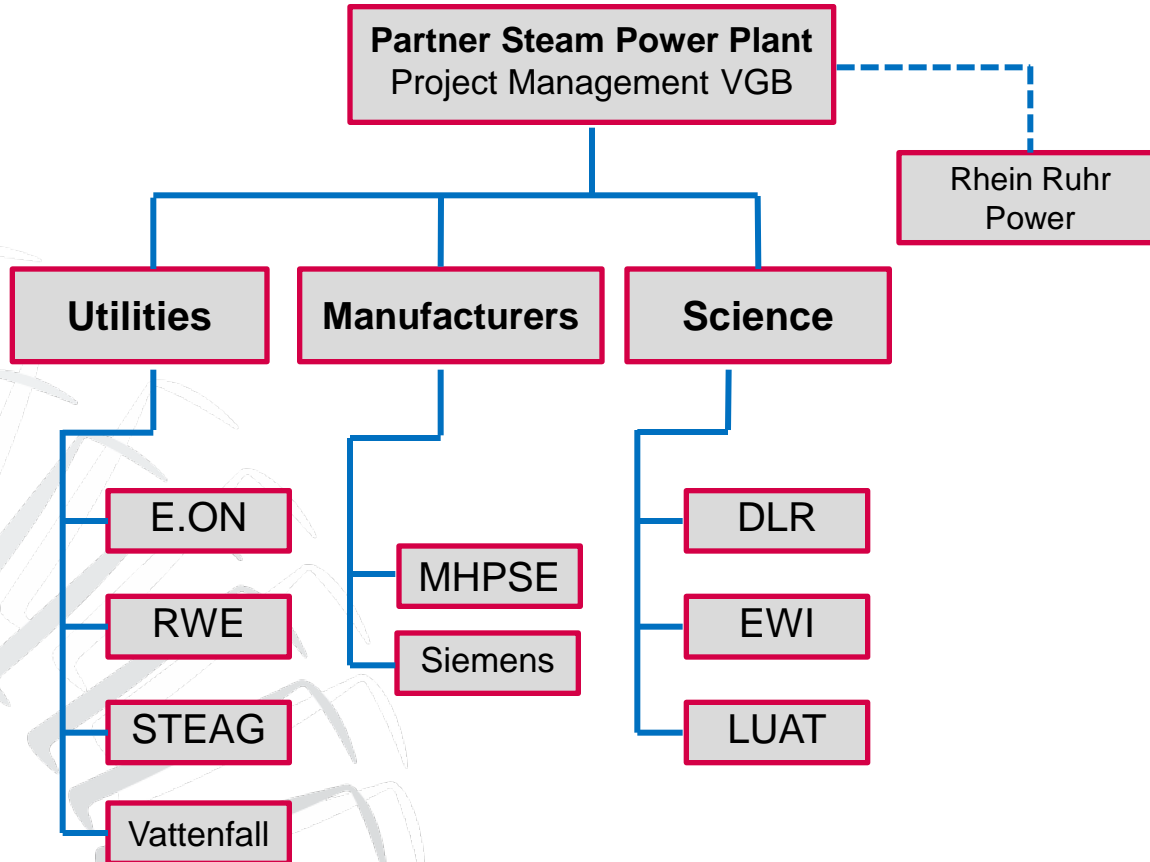
Triangle of energy politics



Partner Steam Power Plant



Project Organization



Supported by:



on the basis of a decision by the German Bundestag

Thank you for your attention.

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