

The logo for the SET PLAN Conference 2015 is contained within a white right-angled triangle. The triangle is outlined in a thin blue line. The text is positioned in the upper-left corner of the triangle. The background of the slide features a large, abstract geometric design with overlapping triangles in shades of blue, purple, and red.

**SET
PLAN**
Conference
2015

Research, innovation
and competitiveness
for the Energy Union

The role of global & local cooperations for innovations

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SESSION 2

Towards a competitive European energy technology sector

Monday 21 September 2015

SUMMARY

- **Global Cooperations and partnerships are essential for research, development and innovation**
- **Local presence and a global network are key factors for an innovation culture**
- **Support by public authorities accelerate innovation process**

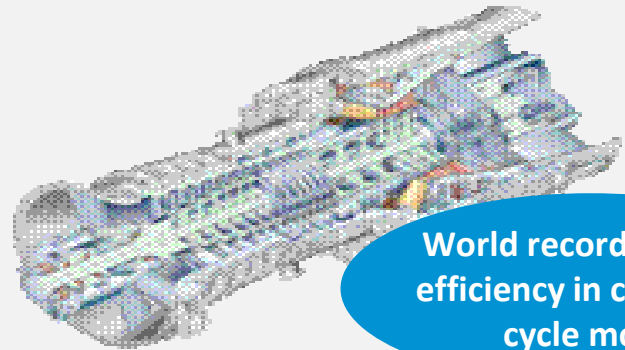
Global collaboration example: Power & Gas



Siemens' network...

- >1.000 partner universities in 50 countries
- Strategic partnerships with top universities in Europe, China and the US
- ~ 200 professorships and fellowships
- >11,000 engineering graduates hired in 2011

... tapped for World Class turbine development



**World record: 60.75%
efficiency in combined
cycle mode**

- Integrated competences of ~50 universities worldwide
- Preferred, strategic suppliers for core components

Challenge

- Wildpoldsried: high share of renewable energy
 - Supply and demand are imbalanced
- ➔ Optimization of the electricity grid



IRENE: " Integration of renewable energies and e-mobility"

- Installation and test
 - intelligent electricity grid with a self-organizing energy automation system incl. network simulation
 - test fleet of electric vehicles
- Execution of field trials
 - for testing of the applied energy technologies
 - for the storage of renewable energy in stationary batteries and electric vehicles at times of peak demand

Partner



Hochschule Kempten
University of Applied Sciences



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Co-funded by
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This conference has received funding from the European Union Horizon 2020 research and innovation programme under the grant agreement No 681163