

Innovation Campus Siemens Energy Goerlitz

An innovative ecosystem as an engine of growth in the structural transformation and the energy transition.

Speakers:

Dr. Stefanie Randig, Project Lead Transformation and Innovation,
Siemens Energy Görlitz

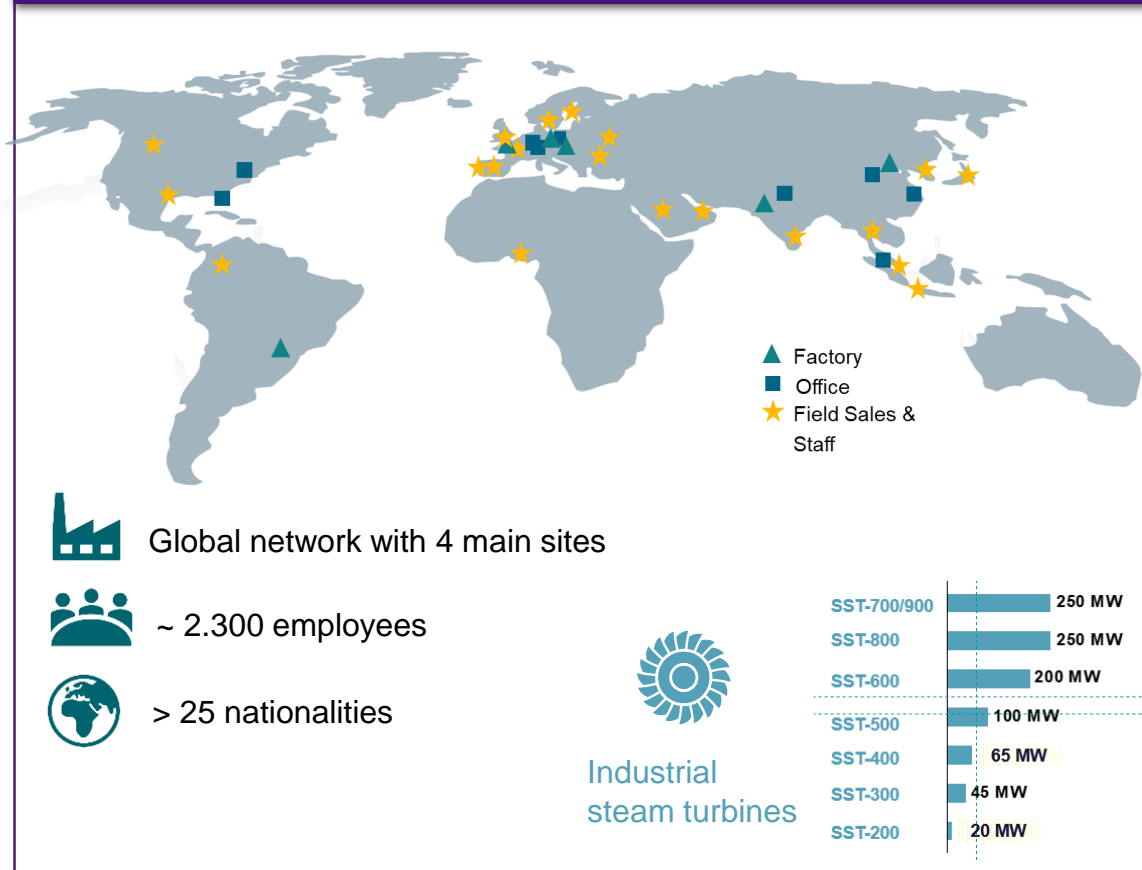
Karolin Gröschl, Head of Community Management,
Leucht One GmbH

2021-03-22



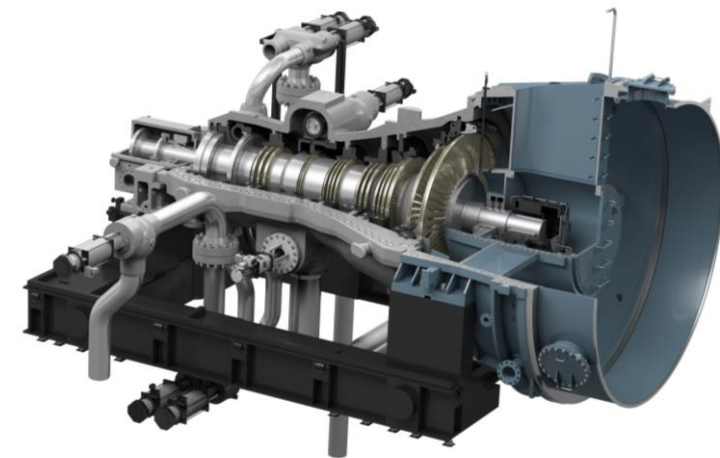
Site Goerlitz is the headquarter of Siemens Energy's worldwide industrial steam turbine business

Global industrial steam turbine footprint with worldwide presence to ensure customer proximity



Siemens Energy steam turbines portfolio with economical products for the power range from <10 kW bis 250 MW

- **Steam turbines as highly efficient heat engines** to convert heat into mechanical energy
- **Expansion of steam** from high pressure & temperature to low pressure & temperature
- **Additional extraction of steam** for industrial or heating processes



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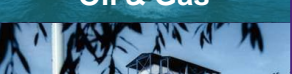





Siemens Energy Site Goerlitz

- Focus on large customized **industrial steam turbines** up to 250 MW for power generation and as mechanical drives for compressors and pumps

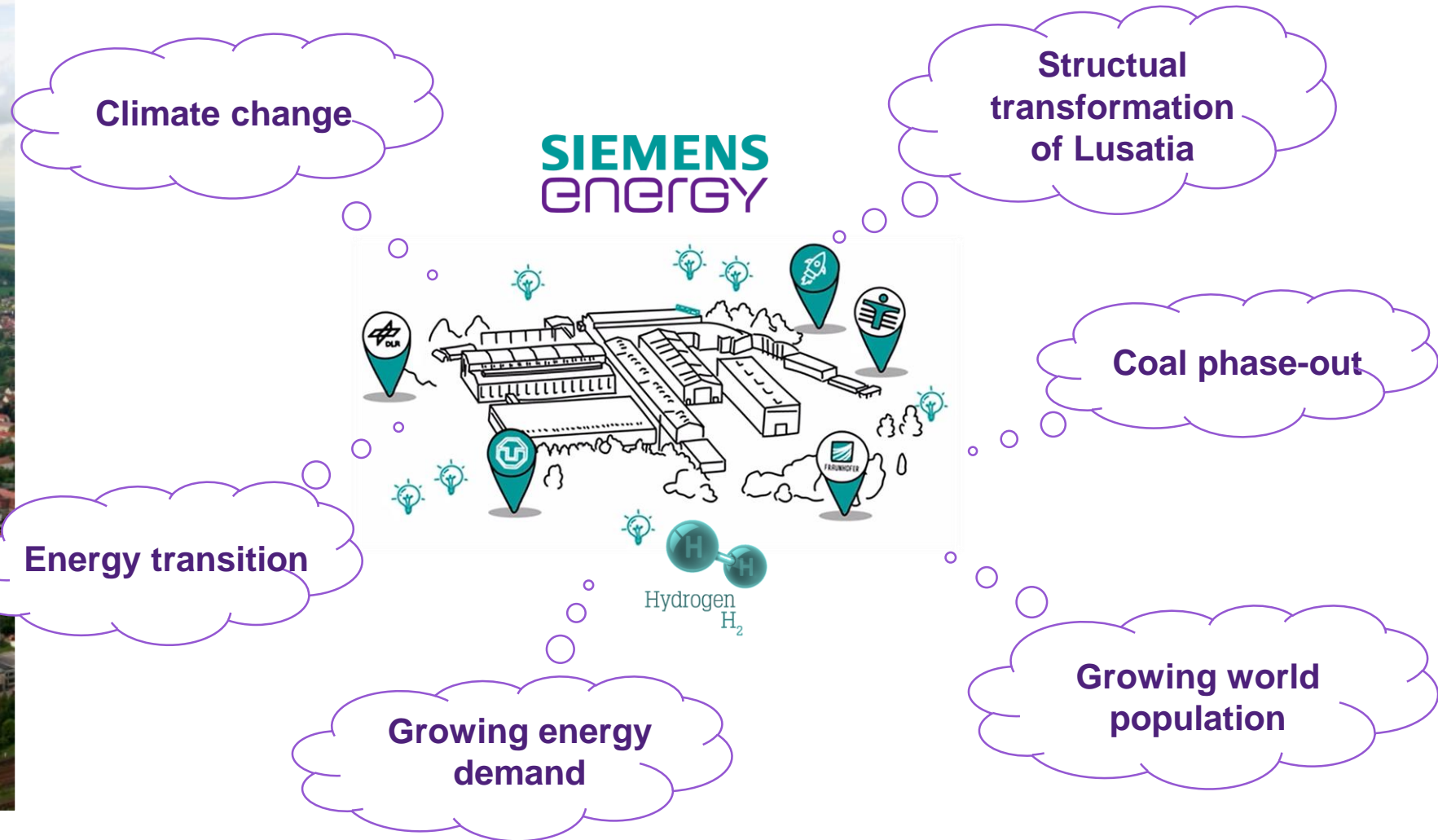
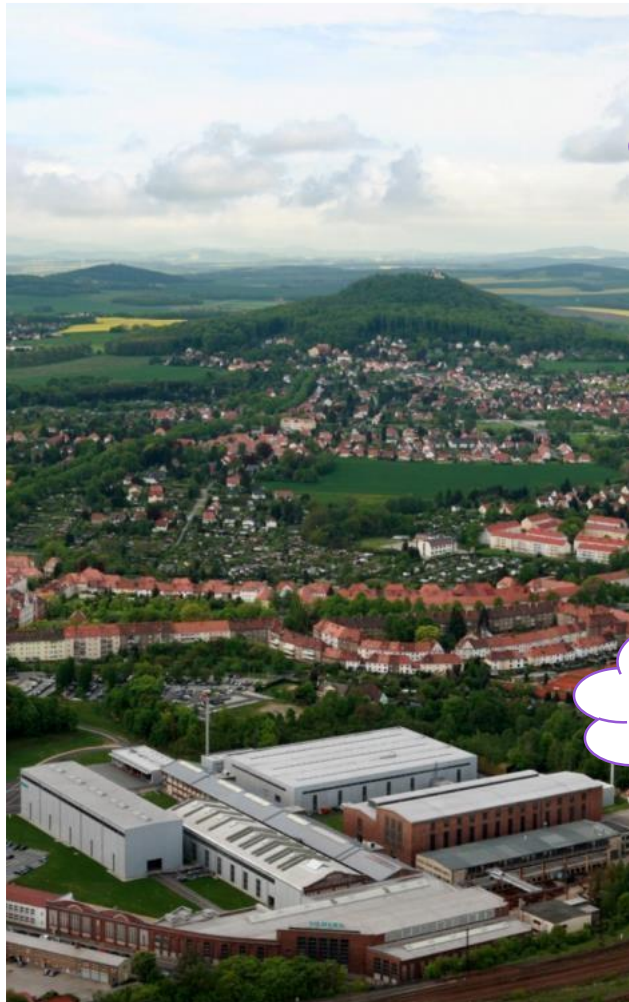


- 830 employees and apprentices
- Total area 203.000m²
 - Manufacturing /Logistics 32.000 m²
 - Offices 13.000 m²

| | | |
|--|--|---|
| Market segmentation of industrial steam turbines |  Pulp & Paper |  Heat & Power |
| |  Chemical |  Oil & Gas |
| |  Concentrated Solar Power |  Biomass & Waste to Energy |
| |  Sugar & Ethanol |  Metals & Mining |
| |  | |
| Manufacturing facilities |  | <ul style="list-style-type: none"> Blading Manufacturing Mechanical Machining Assembly |
| |  | |

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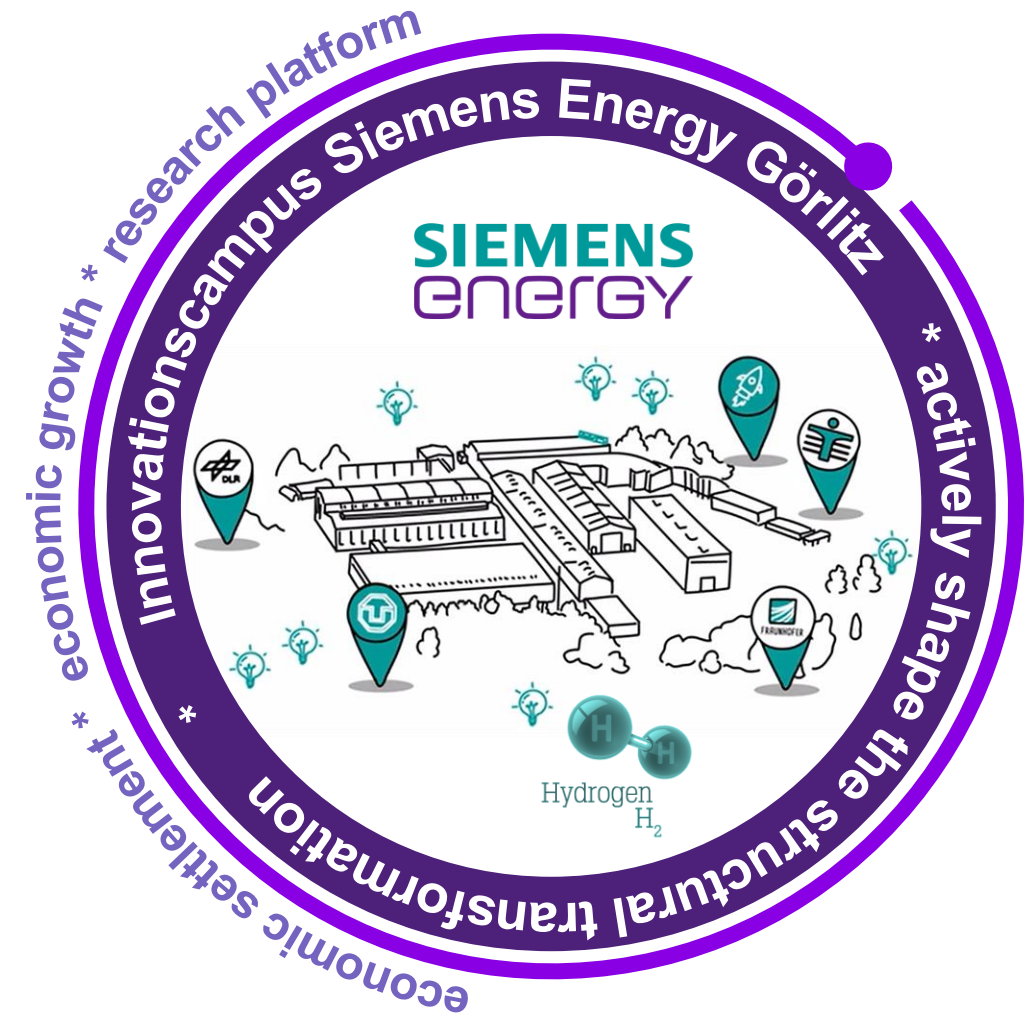


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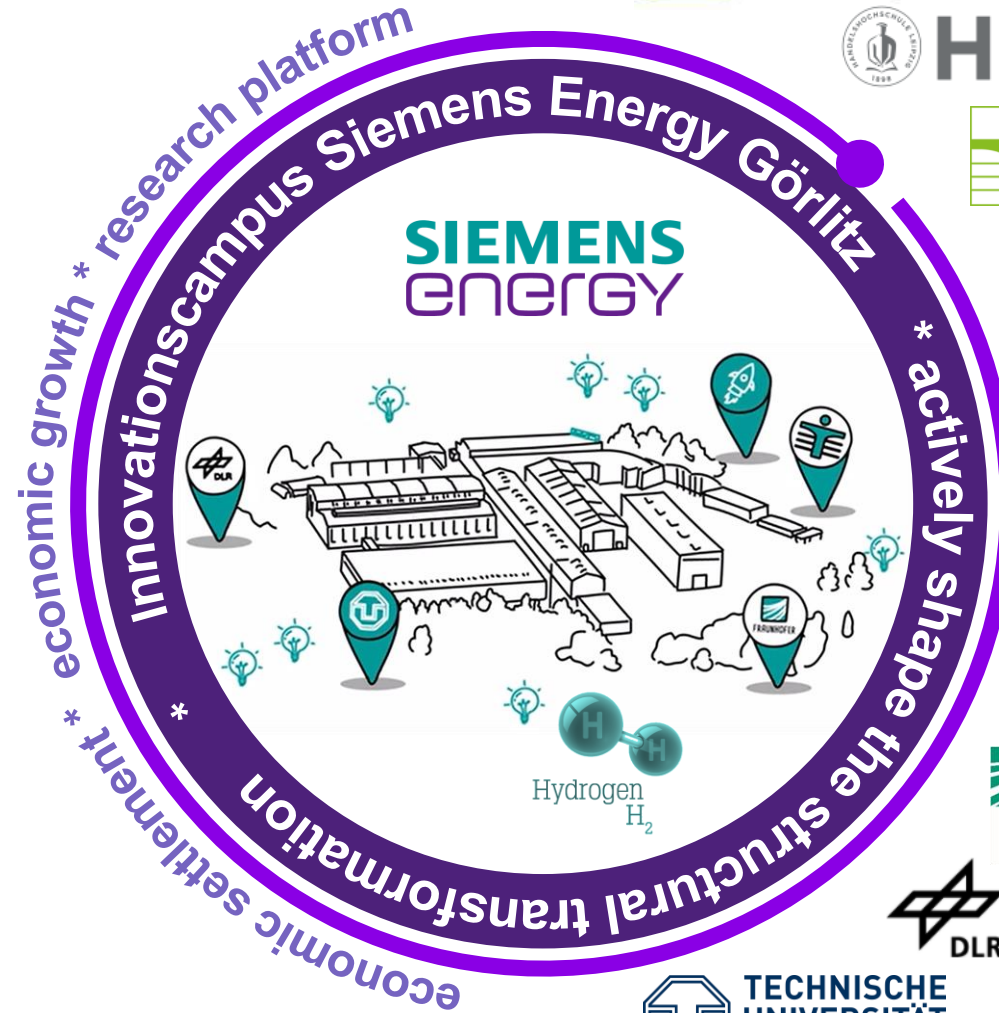
FUTURE PACT GÖRLITZ

- Siemens, the Free State of Saxony and the Fraunhofer-Gesellschaft
- establishing innovation campus
- settlement of technology & industrial companies, startups and research institutes
- digitalization, automation, energy technology, innovative material and production technologies



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HHL



Hochschule
Zittau/Görlitz
UNIVERSITY OF APPLIED SCIENCES



METALIQ
HYDROGEN GENERATOR



eco-softfibre
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Leucht One
GmbH



Fraunhofer
Hydrogen Lab Görlitz



Deutsches Zentrum
für Luft- und Raumfahrt



**TECHNISCHE
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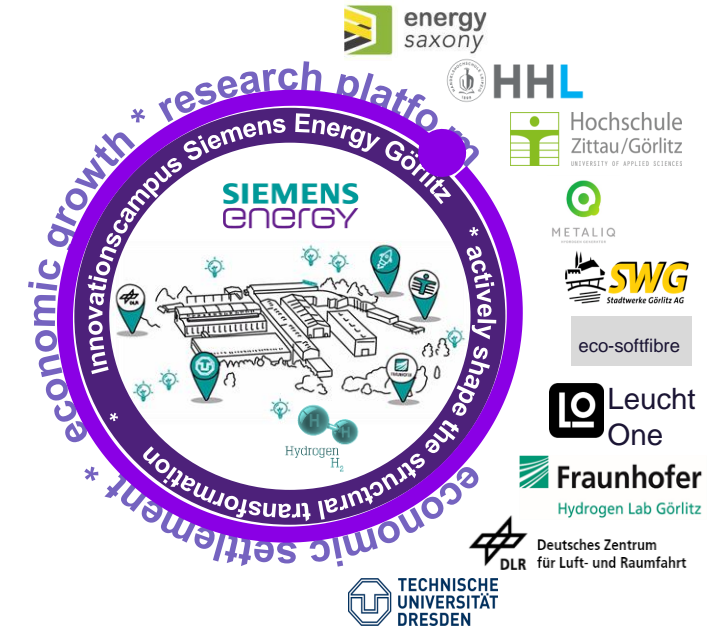
Co-Working Space ENERGY

Heart of the Innovation Campus

Framework & center for implementation of Innovation Campus goals

Place for exchange, joint work, cooperation, new synergies and events

Community management by Leucht One GmbH



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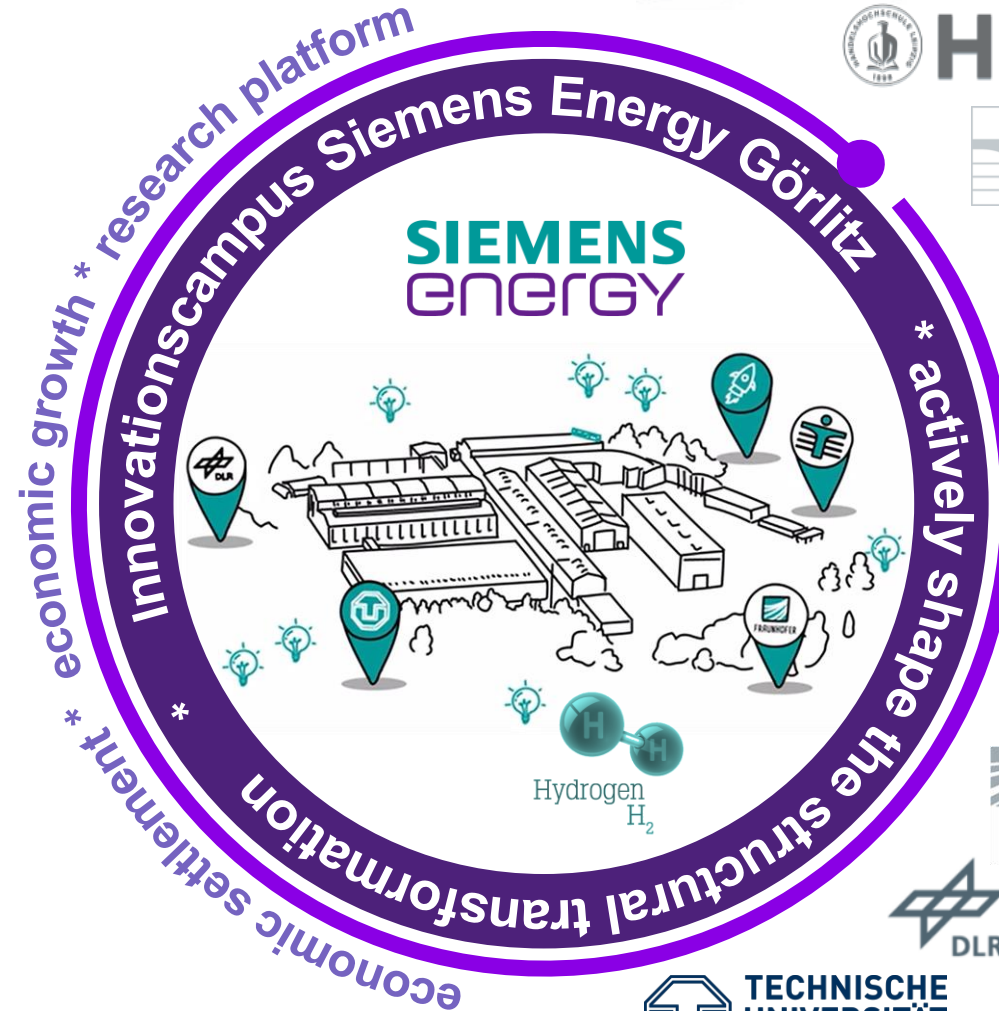
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Hydrogen partners at innovation campus



- Sub Campus for autonomous H₂ mobility



- alternative drive concept with H₂



- H₂ Business Models

Our Motivation

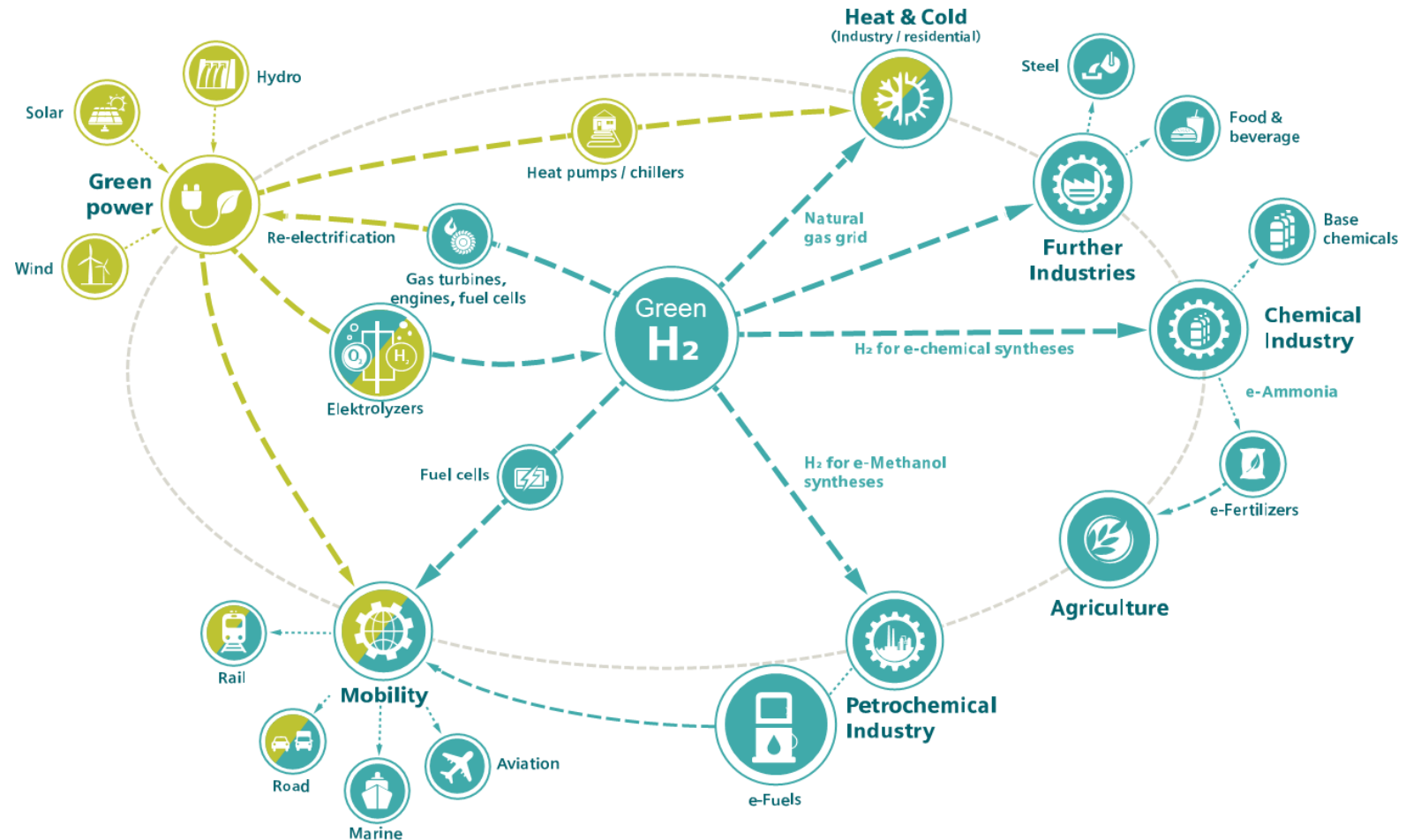
Shaping the energy transition together with our customers and partners

“Sector Coupling” is the key lever for decarbonization of all end-user sectors



Green Hydrogen

Sector Coupling – Links and Interactions



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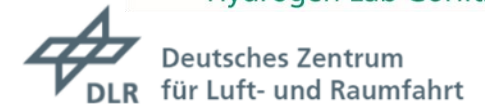
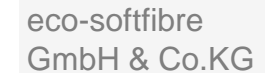
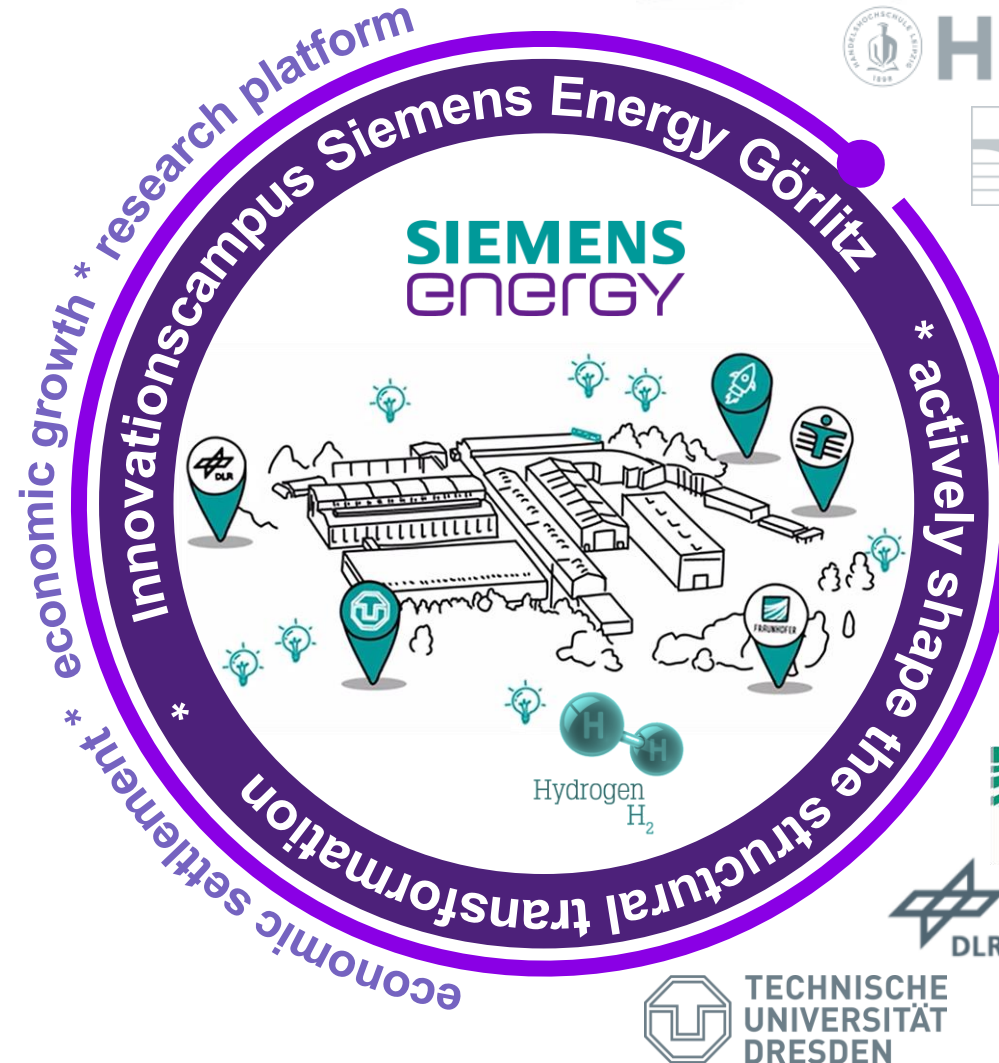
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Hydrogen projects at innovation campus

Establishment of Fraunhofer
Hydrogen Laboratory Görlitz (HLG)



- Research Platform:
R&D along entire hydrogen value chain – from energy generation to storage and use for end products
- H₂-Certification Center:
Tests and certification of components from hydrogen system technology



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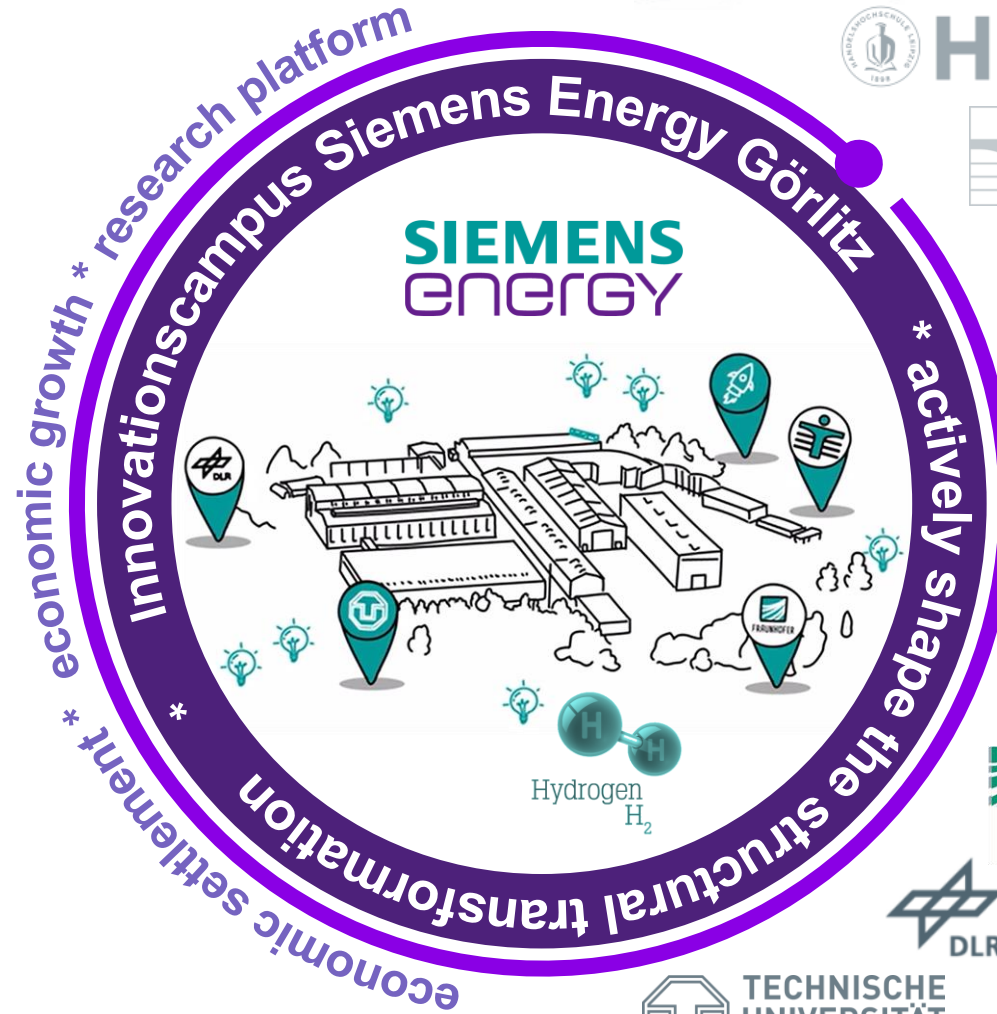
Hydrogen projects at innovation campus

Research cooperation

SIEMENS energy Hydrogen Solutions and

Fraunhofer
Hydrogen Lab Görlitz

- Tests for development and enhancement of Siemens Energy Silyzer Portfolio (H₂ generation by PEM electrolysis)



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Deutsches Zentrum
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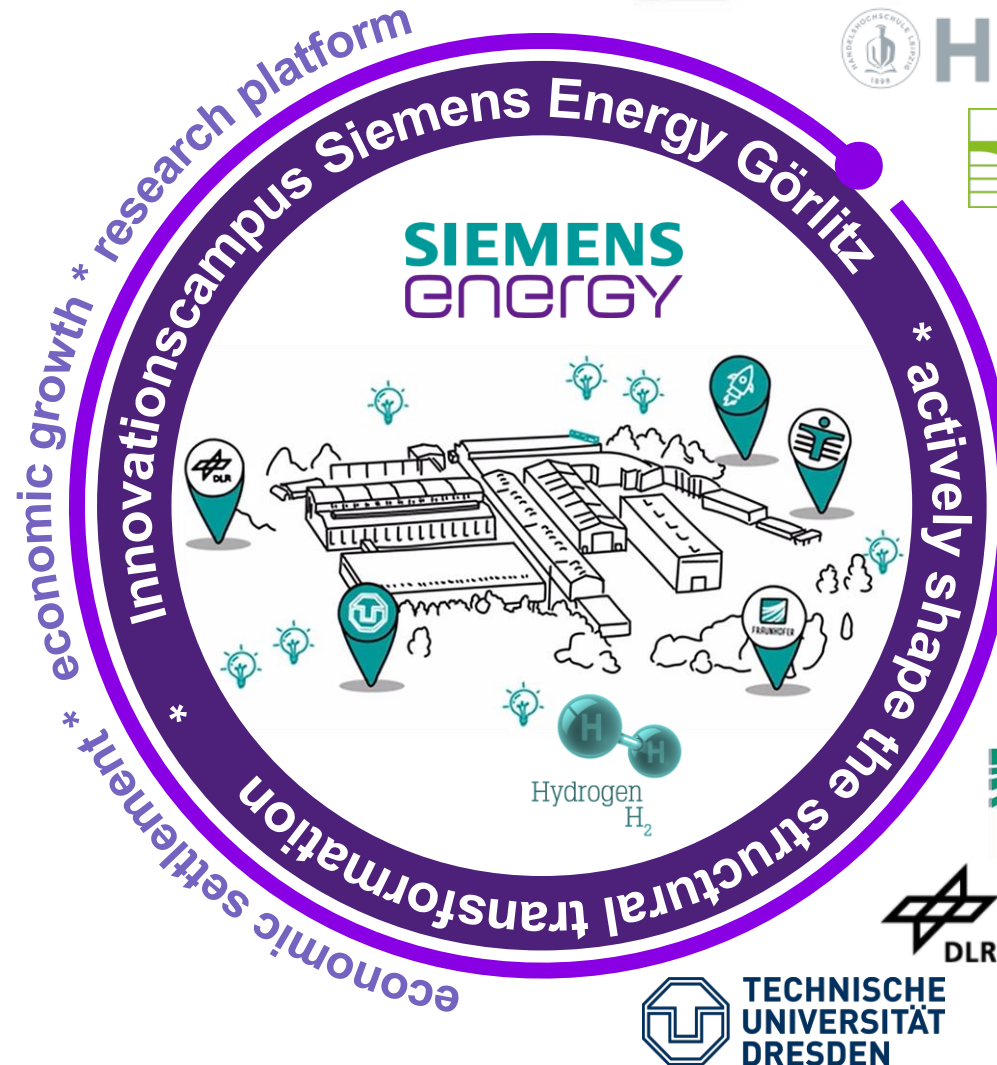
Decarbonization of

SIEMENS energy **Site Goerlitz**

- Target: climate-neutral factory by 2025, showroom
- CO₂-neutral energy supply at site Goerlitz

Decarbonization of industrial processes

- CO₂-reduction by using latest storage and H₂ technologies
- Energy management consulting



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eco-softfibre GmbH & Co.KG



Leucht One GmbH



Deutsches Zentrum für Luft- und Raumfahrt



TECHNISCHE UNIVERSITÄT DRESDEN

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