

Empowering the All Electric Society 



Welcome

Smart Building Expo 2025

All Electric Society Park

Tomorrow's sustainable world, today's technologies



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Agenda

- Sector Coupling
- Park Concept
- 5GDHC
- Thermal Energy Storage

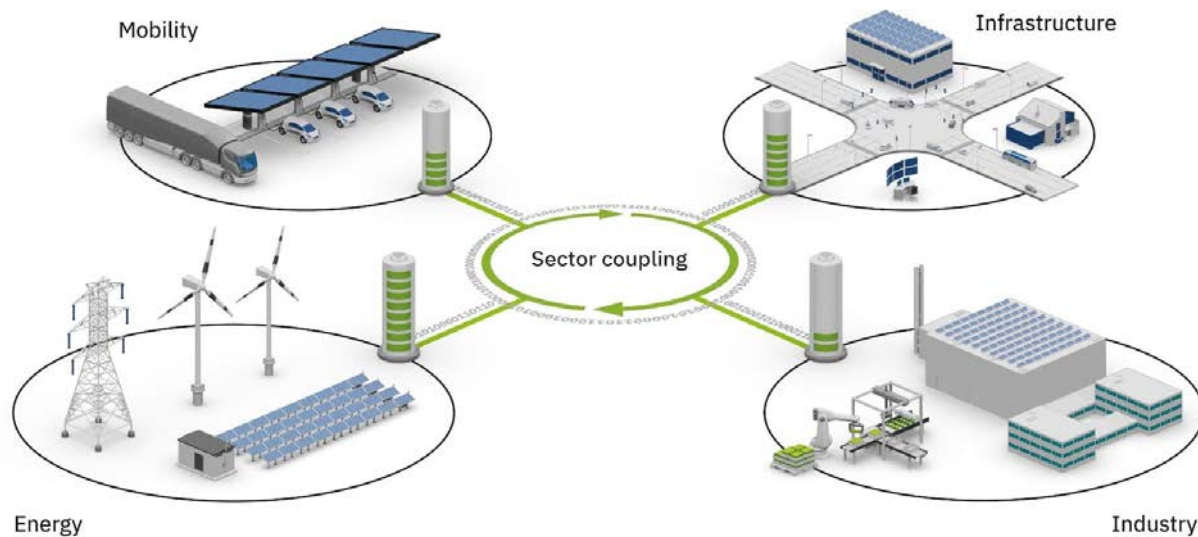


Sector Coupling

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Sector Coupling

Holistic and continuous
data and energy flow of sector coupling



The digital transformation is the basis for
connecting all sectors



Electrification



Connection

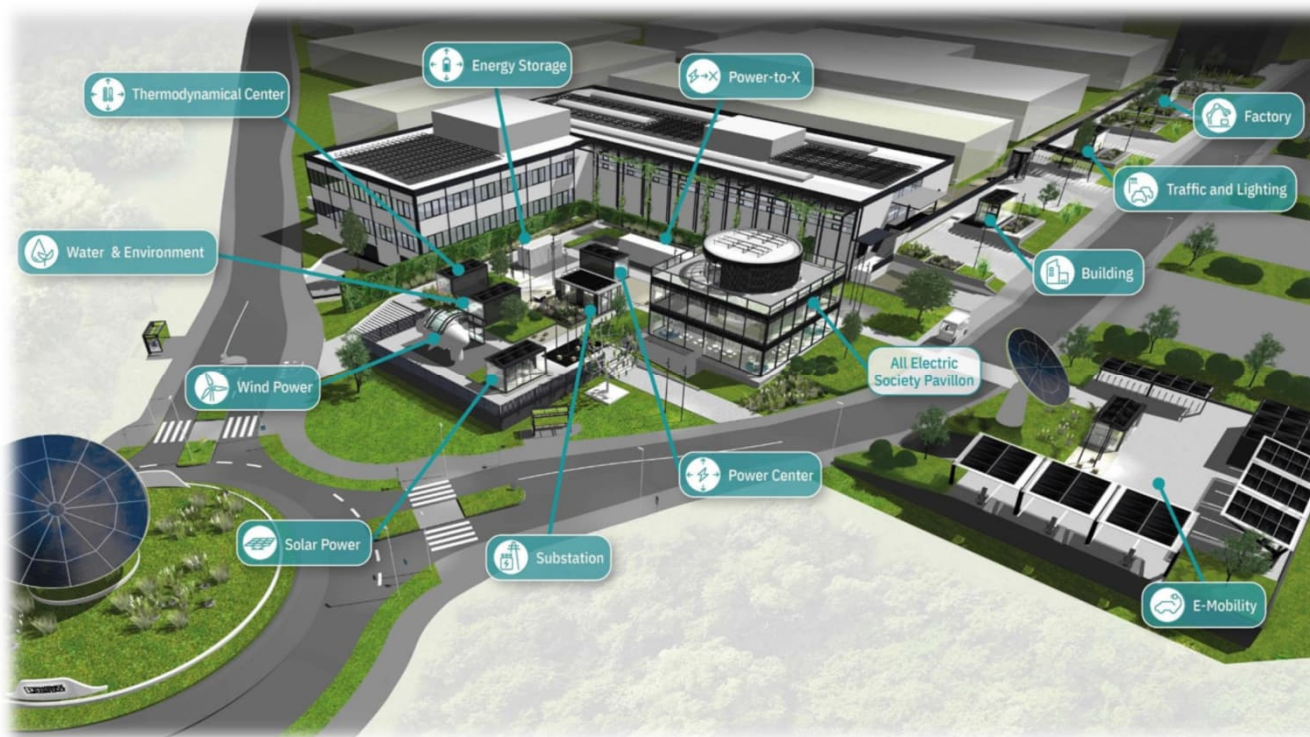


Automation

- Use of renewable energy
- Flexibility through energy storage and transportation in gas or liquid form
- Balance between power generation and consumption through sector coupling

Park Concept

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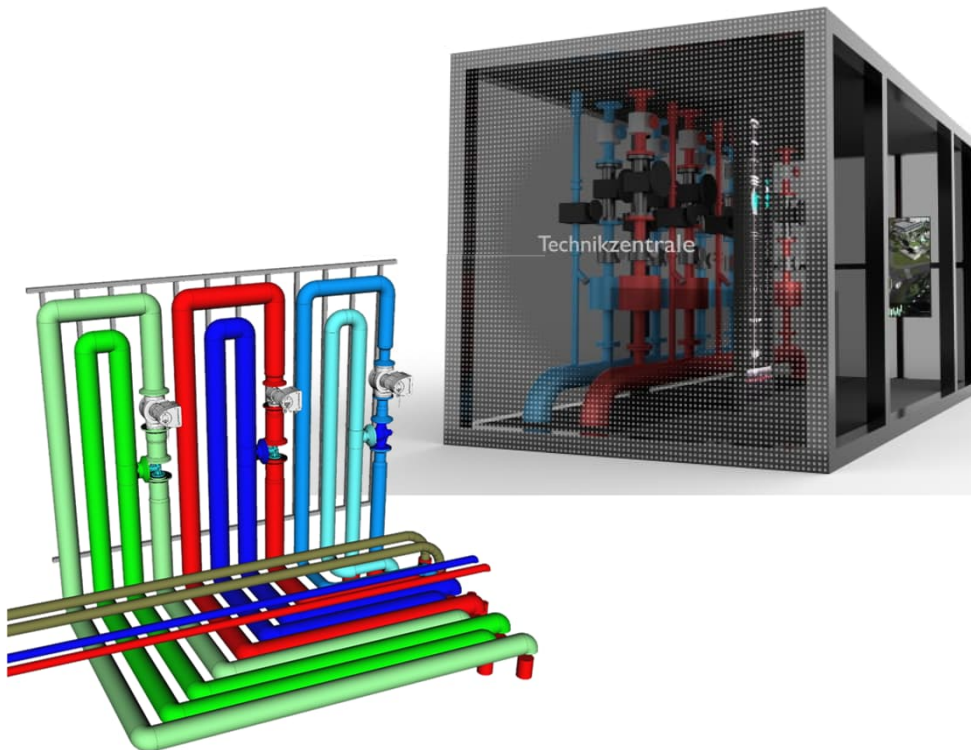


Key Features:

- Holistic and continuous communication and data exchange between all trades and systems
- Building and energy management based on an IoT platform
- Demand and user-oriented energy management
- AI-based analysis and performance optimization
- Bidirectional heating and cooling supply of the 5th generation

5GDHC

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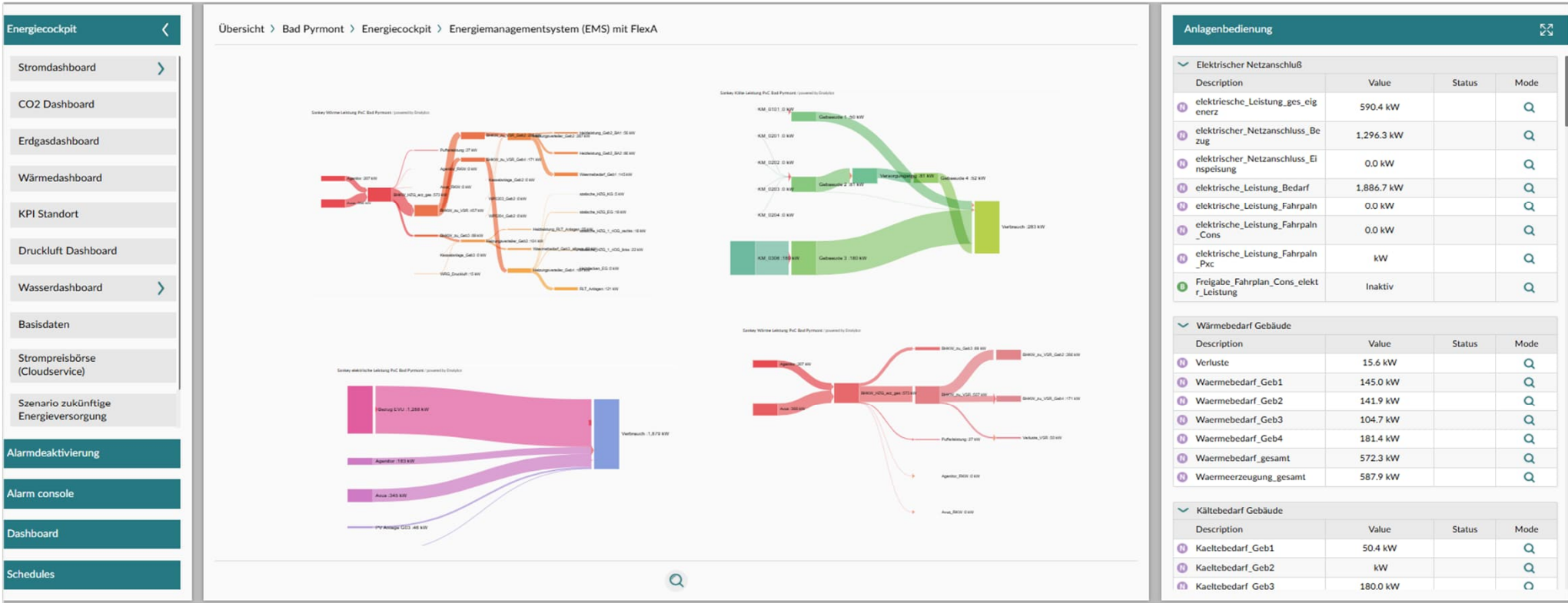
Some key features:

- Bidirectional low-temperature heating networks
- Thermal energy storage can store heat or cold
- 5GDNC is based on a closed-loop energy control concept
- Heat, cold and heat recovery with only one thermal network
- Efficient sector coupling between heat and electricity by decentral heat pumps

Thermal Energy Storage

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Thermal Energy Storage



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