

FUBIC

All Electricity



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Base

With the “FUBIC” project, a pilot initiative is being developed and implemented to achieve a 100% carbon-neutral, all-electric energy supply for a technology campus. The heart of the FUBIC campus is the transformation of the former U.S. military hospital into a technology and start-up center.

The project, funded by GRW (Joint Task for the Improvement of Regional Economic Structures), is additionally supported by the BMWF-funded research initiative “FUBIC All Electricity.”

Objectives

- The complete energy supply for the FUBIC (incl. heating, cooling, and process energy) is based entirely on electricity.
- The required electricity is provided exclusively from CO₂-neutral, renewable energy sources.
- An all-electric energy system has been designed specifically for the FUBIC Innovation Center.
- The system includes the electrification of heat generation and sector coupling.
- The campus is supplied via a power ring main.
- Research is being conducted on user acceptance and participation in the use of technologies, in collaboration with tenants.
- A campus-wide energy management system is implemented to monitor energy consumption.

Implementation

The FUBIC Innovation Center is scheduled for completion in 2026. The construction project is being accompanied and supported by the associated research initiative. As part of the commissioning phase, both technical and non-technical monitoring systems will be integrated into the FUBIC infrastructure. In the following years, the FUBIC campus will undergo intensive monitoring. FUBIC represents an innovative concept for implementing an all-electric energy system across an entire urban innovation area.

Impact

1. Research project
2. All-electric technology campus
3. Cloud-based campus-wide energy management system
4. Electricity-based heat transition
5. Full sector coupling

Project period

2019 to 2021:

Concept phase

2021 to 2026:

Implementation phase

2027 to 2030:

Monitoring phase

Project partner

E.ON Energy
Research Center **ERC**

RWTH AACHEN
UNIVERSITY

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BERLIN

aedifion

BTB Energie

Gefördert durch:



Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

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A project by:

