

Web-based single-room control



Fundamentals

The buildings at the Adlershof Technology Park are expected to be made more energy-efficient, particularly in terms of heat supply. During the concept phase from 2017 to 2019, the project partners identified measures to reduce heat consumption. One promising solution for offices that emerged, is an single-room control. Users can set the room temperature individually via a web-based interface and create attendance plans. This allows the room temperature to be lowered automatically when no one is in the office (e.g. at night, at weekends, or during vacations), which is expected to save about 10 to 20 percent heating energy. As a trial, half of the offices in the main WISTA building in Adlershof were equipped with single-room control in 2021. The effectiveness will be evaluated from 2023 to 2026 in collaboration with RWTH Aachen University.

Goals

- Collecting empirical values
- Demonstrating the efficacy
- Transferring the concept to other properties and buildings in Adlershof

Implementation

In order to reduce costs and increase comfort in the offices, heat consumption at WISTA's main building in Adlershof is being reduced by introducing a web-based single-room control system. This enables efficient monitoring and individual control of room temperatures, resulting in energy savings.

Impact

- Heat supply adapted to demand
- Reduction in heat consumption

Timetable

2017-2019

Concept

2021

Implementation

2023-2026

Monitoring

Partners



Gefördert durch:



aufgrund eines Beschlusses
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