

# Factsheet

# Demand Management of Buildings in Thermal Networks

# **EBC ANNEX 84**

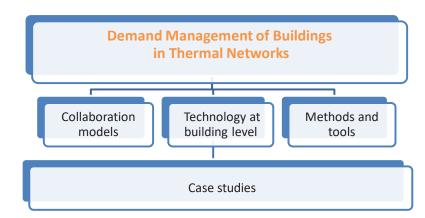
The overarching project aim is to provide comprehensive knowledge and tools for successful activation of the demand management of buildings in thermal networks. The project is investigating both the social and technical challenges and how these can be overcome for various building typologies, climate zones and local conditions, as well as how digitalisation of heating demand (real-time data from smart meters) can speed up the activation process and contribute to unfolding the dynamic building characteristics.

The planned official deliverables are as follows:

 a technical report on recommendations on how to engage users, including business model, methods to motivate, aimed at district heating and cooling utilities, building owners and operators, designers, manufacturers, installers, and policy makers;

#### **PROJECT OBJECTIVES**

- provide knowledge on partners / actors involved in the energy chain and on collaboration models / instruments for successful demand management
- evaluate and provide design solutions for new and existing building heating and cooling substations and installations for successful demand management
- develop methods and tools to utilize the smart heat meter data for real-time data modelling and identification of dynamic building characteristics
- provide knowledge from and drive adaptation and visualization of project results through case studies



The structure and aim of the project tasks.

Source: EBC ANNEX 84



#### **INTERNATIONAL ENERGY AGENCY**

The International Energy Agency (IEA) was established as an autonomous body within the Organisation for Economic Co-operation and Development (OECD) in 1974, with the purpose of strengthening co-operation in the vital area of energy policy. As one element of this programme, member countries take part in various energy research, development and demonstration activities. The Energy in Buildings and Communities Programme has coordinated various research projects associated with energy prediction, monitoring and energy efficiency measures in both new and existing buildings. The results have provided much valuable information about the state of the art of building analysis and have led to further IEA co-ordinated research.

#### **EBC VISION**

By 2030, near-zero primary energy use and carbon dioxide emissions solutions have been adopted in new buildings and communities, and a wide range of reliable technical solutions have been made available for the existing building stock.

#### **EBC MISSION**

To accelerate the transformation of the built environment towards more energy efficient and sustainable buildings and communities, by the development and dissemination of knowledge and technologies through international collaborative research and innovation.

- a technical report on building technology for activation of the demand response in thermal networks - status, development guidelines, aimed at building owners and operators, designers, manufacturers, installers;
- a technical report on the Tool-Kit for assessing building demand response capability and a methodology for utilization of 'big-data' from smart heat meters, aimed at building designers and engineers, district heating and cooling utilities, and building owners.

#### **Project duration**

Ongoing (2020 - 2025)

#### **Operating Agents**

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## **Participating countries**

Austria, Belgium, Denmark, Germany, Italy, the Netherlands, Singapore, Spain, Switzerland, Türkiye, UK

### **Further information**

www.iea-ebc.org

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