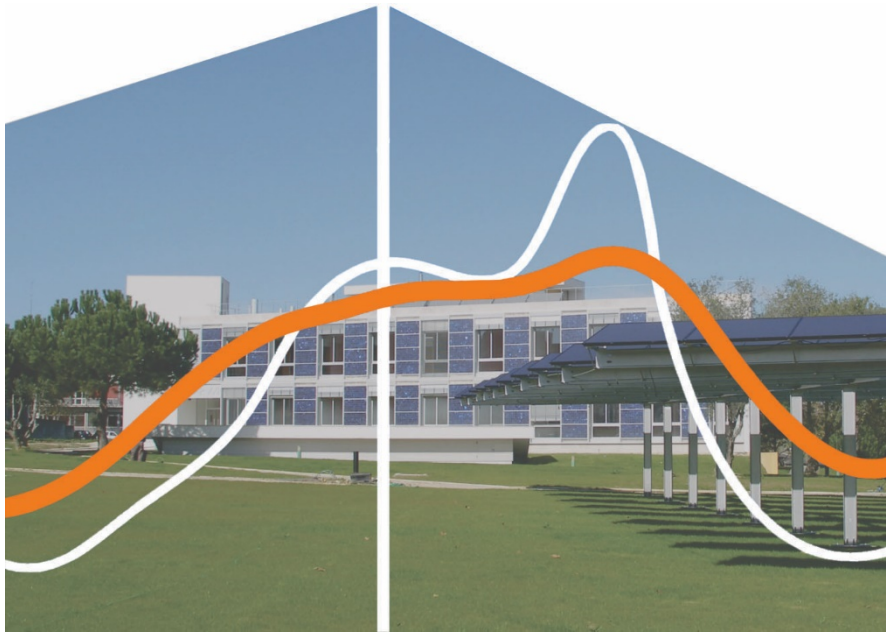

IEA EBC ANNEX 67

Examples of Energy Flexibility in Buildings



Energy in Buildings and
Communities Programme



Annex 67 Public Seminar
Aalborg, 4. April 2019

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Examples of Energy Flexibility in Buildings

Content and Structure



Content

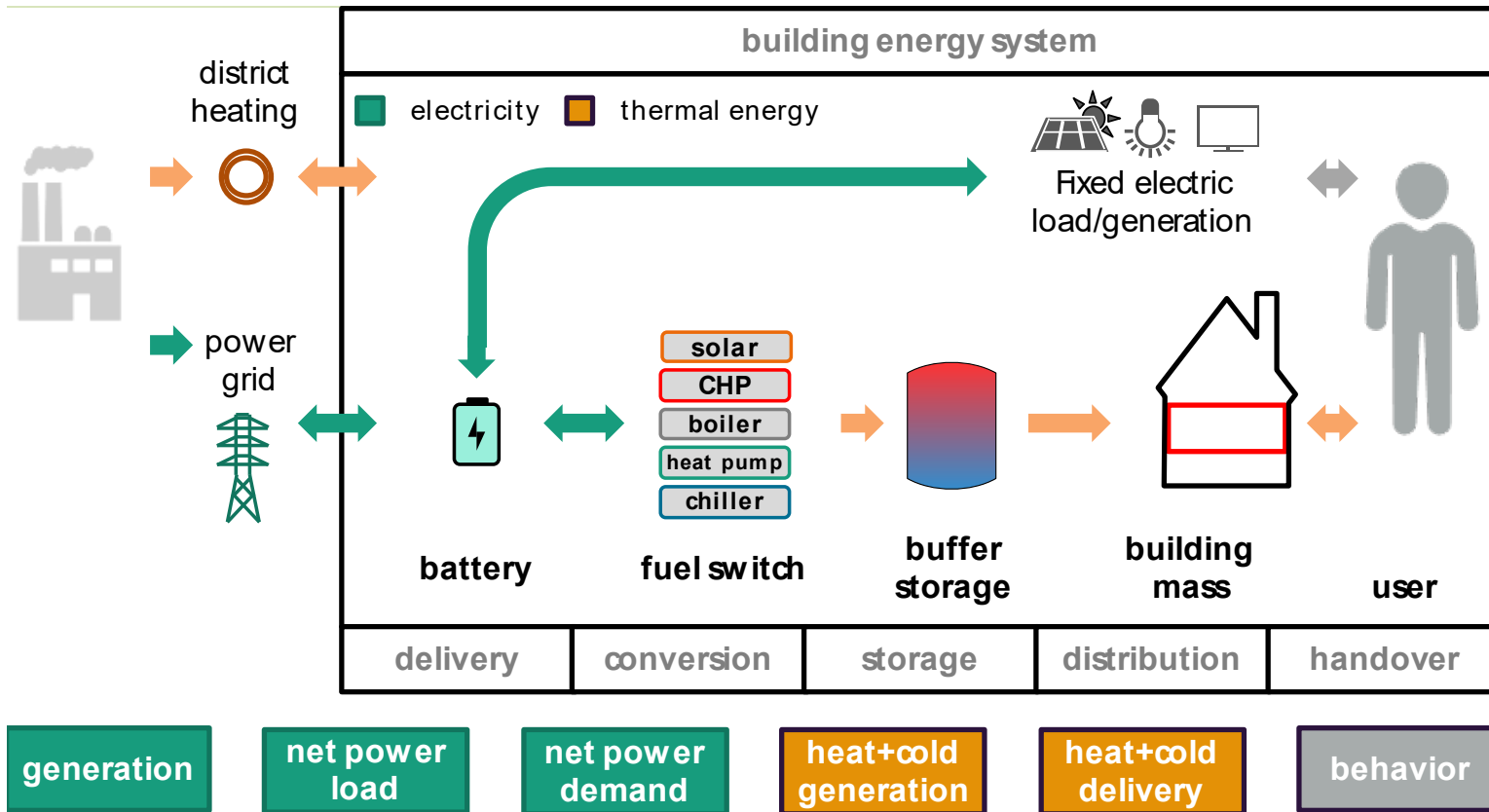
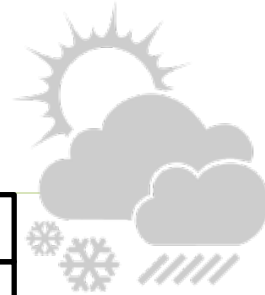
- Examples of implementation of strategies to provide energy flexibility
- Two different types of contributions:
 - Full description of a case study (16 studies)
 - Short summary with link to other deliverables (15 summaries)
link to deliverable “Control Strategies for Energy Flexible Buildings” and a report on Simulation studies

Focus / Audience:

- General overview on strategies and concepts to implement Energy Flexibility in buildings

















Examples of Energy Flexibility in Buildings

Content and Structure










Examples of Energy Flexibility in Buildings

Content and Structure










Building Typology				Energy Conversion			Load Shifting Strategy				Control Strategy			Analysis based on	
															
Residential SFH	Residential MFH	Non-residential	District / cluster	Heat pump	District heating	Other	Building mass	Water storage	Batteries	Fuel switch	Rule based	Model predictive	Data driven	Simulation	Monitoring

Examples of Energy Flexibility in Buildings (preliminary) results

Building typology		Residential SFH	17
		Residential MFH	4
		Non-residential	11
		District / cluster	6
Energy conversion		Heat pump	13
		District heating	5
		Other	13

Examples of Energy Flexibility in Buildings

(preliminary) results

Load shifting strategy		Building thermal mass	18
		Water storage	11
		Batteries	10
		Fuel switch	2
Control strategy		Rule based	19
		Model predictive	9
		Data driven	1
Analysis based on		Simulation	25
		Monitoring	9

Thank you!



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