

## Break-out session

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- Presentation of 3 case studies from CU Boulder
- Presentation of 4 case studies from University of Southern Denmark
- How “old” the case studies can be? Annex 60?
- Discussion about ***case study template***
- New participants and new case studies!

## Application case studies (18+ case studies from 10 different institutes)

	Institute	Case study	Scale
1	Leuven University	Quantifying Uncertainty Propagation For The District Energy Demand (Ina)	District
2	Leuven University	(Annelies)	District
3	SDU	MPC-oriented model of a small district with geothermal heat pumps (Konstantin)	District
4	SDU	Modeling of DH grid for Smart Energy Pool in Vejle Nord LiveLab (Konstantin)	District
5	SDU	Comparison of Campus DH grid Modelling in Termis and Modelica (Konstantin)	District
6	SDU	Single-zone model building with heating and CO2-driven ventilation system (Tao)	Building
7	SINTEF	Campus Evenstad: flexible energy demand and local generation (Igor)	District
8	RWTH Aachen	Erdeis II / DHC provided via a LTN for residential buildings and a geothermal ice storage	District
9	UdK Berlin	Development of a digital twin for an experimental research building (Rooftop building)	Building
10	ETH / EMPA	(Felix)	District
11	CU Boulder	Modeling Air-to-Air and Finned-Tube Heat Exchangers (Yunyang)	Component
12	CU Boulder	Multi-Infrastructure Modeling of Smart and Connected Communities (Kathryn)	District
13	CU Boulder	Comprehensive Pliant Permissive Priority Optimization (Jing)	District
14	CU Boulder	Data centers	District
15	NREL	Topology Optimization	District
16	NREL/CU Boulder	5 <sup>th</sup> generation DHC system	District
17	Aalborg University	DH system InterHUB	District
18	Ghent University	Some case studies at building level	Building

New case studies!

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## Next steps

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- Circulate ***case study template*** to start gathering information
- Work on IBPSA Project 1 website (*Jekyll*) to include the case studies in a “showcase” format