

	Master project
	2019 spring (autumn)
<b>Proposed title</b>	<b>Identification of energy flexibility potentials through big data analysis</b>
<b>Proposed supervisor</b>	Per Nørgård, Center for Electric Power and Energy, DTU Elektro
<b>DTU host department</b>	DTU Elektro
<b>External partner</b>	Bornholms Hospital, Schneider Electric.
<b>Problem</b>	Buildings can provide energy flexibility – but how, how much, what are the costs in terms of controllability and reduced services, and what are the benefits for the customers and the system? In the FUTURE project we will try to address the first two: how/where and how much through ‘big-data’ analysis of detailed time series of power consumptions of all electric appliances in a complex building at Bornholms Hospital.
<b>Project</b>	The project should develop and test a method to identify the specific electric consumptions in a specific building at Bornholms Hospital with the best potential for providing energy flexibility, based on detailed time series of all electric consumptions in the building. The data will be provided by the FUTURE project.
<b>Keywords</b>	Big data analysis; time series analysis; energy flexibility; electric appliances; energy services.
<b>Illustration</b>	