

# Thematic Learning Area: Energy

To help you make informed choices regarding broadening and deepening electives, within each Thematic Learning Area (TLA) a number of learning paths are offered. A learning path is a selection of TLA electives across departments, grouped around a specific subtheme. The learning paths within a TLA are based on the assumed amount of pre-requisite knowledge, indicating that familiar programs have better access. This means that some learning paths are specifically accessible for students from one department, whereas other learning paths suits best for students from a specific department. If you have met the expected pre-knowledge, the relevant electives become accessible. You can make well-informed choices by either choosing specific electives across the different learning paths, or by choosing a pre-defined learning path.

Always make sure that you check the required pre-requisite knowledge/courses via the Course Catalogue for the elective courses you would like to follow!

## TLA Energy

<b>Description of the content</b>	The TLA Energy connects bachelor electives addressing the physics, chemistry, engineering, environmental, policy and behavioral aspects of energy and (beyond) state-of-the art energy technologies, as well as the design, analysis and modeling of energy systems.
<b>Offered by</b>	CE&C, ME, APSE, EE
<b>Language</b>	English
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## Learning path 1 – Energy Systems

Course code	Course name	Link to course catalogue
4RC30	Introduction to Computational Fluid dynamics	
4BC10	Dynamics of Energy Systems	
4CBLB00	Solar Heat System	

## Learning path 2 – Process Technology

Course code	Course name	Link to course catalogue
6BER09	CBL Process Design	
6BER07	Process Dynamics & Control	



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### Learning path 3 – Energy Conversion & Storage

Course code	Course name	Link to course catalogue
6BER06	Electrochemical Energy Conversion & Storage	
34FEH	Fundamentals of Energy Harvesting & Storage	

### Learning path 4 – Electrical Power Systems

Course code	Course name	Link to course catalogue
5XWG0	Power System Computation & Simulation	
5XWA0	Power System Analysis & Optimization	
5XWB0	Electric Drive Systems	

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