

<b>Module description: Energy Efficiency and Policy</b>			
<b>Module Code</b>	t.BA.EU.ENERP.19HS		
<b>ECTS Credits</b>	4		
<b>Language of Instruction/Examination</b>	German		
<b>Organizational Unit</b>	INE		
<b>Module Coordinator</b>	Christian Zipper		
<b>Legal Framework</b>	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.		
<b>Module Characteristic</b>	Type 3a  2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class		
<b>Module Description</b>	This module includes: Energy Strategy 2050, Cleantech, UN Agenda 2030 Swiss energy policy, energy and environmental law, CO2 Act Calculation, interpretation and optimisation of energy and material flow systems Indicators for the ecological evaluation of products/services		
<b>Module Content</b>	<ul style="list-style-type: none"> <li>-World Energy Report, Energy Trilemma, Energy Strategy 2050, Cleantech, UN Agenda 2030</li> <li>-Swiss energy policy, energy and environmental law, CO2 law and instruments-</li> <li>- Essential characteristics of material and energy flows in the natural environment and man-made material and energy flows-</li> <li>-Methods for calculating, interpreting and optimising energy and material flow systems.</li> <li>-indicators for the ecological evaluation of products and services</li> </ul>		
<b>Prerequisite Knowledge</b>	<a href="https://gmppublic.zhaw.ch/GPMDocProdDPublic/2_ Studium/2_02_Grundlagen_ Studium/T_C L_Moduluspraegungen_SM2025.pdf">https://gmppublic.zhaw.ch/GPMDocProdDPublic/2_ Studium/2_02_Grundlagen_ Studium/T_C L_Moduluspraegungen_SM2025.pdf</a>		
<b>Learning Objectives (Competences)</b>	<b>Students...</b>	<b>Competencies</b>	<b>Taxonomies</b>
	You are familiar with national and international challenges (World Energy Report, energy triangle), visions, fields of action and solution strategies (EU, Energy Strategy 2050, Cleantech, UN Agenda 2030, international climate agreements), can classify and interpret them.	F, M	K1, K2, K3, K4
	You know simple indicators for the ecological evaluation of products and services and can apply them to case studies.	M, F	K1, K2, K3
	You are familiar with methods for the calculation, interpretation and optimisation of energy and material flow systems.	M	K4
	You are familiar with current political developments in Swiss energy policy and the corresponding legal provisions (energy and environmental law, CO2 Act) and instruments and can apply them to case studies.	F, M	K1, K2, K3
	You are familiar with the essential characteristics of material and energy flows in the natural environment and man-made material and energy flows and can analyse and interpret them.	F, M	K1, K2, K3, K4
	You understand energy policy instruments and can classify them in economic terms.	F, M	K4

## Module description: Energy Efficiency and Policy

<b>Performance Assessment</b>	<b>End-of-module exam</b>	<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>	
	written exam	Grade	90	100	acc. to module agreement	
	<b>Performance assessment during the semester</b>		<b>Assessment</b>	<b>Length (min.)</b>	<b>Weighting</b>	<b>Form</b>
	-		-	-	-	-
<b>Classroom Attendance Requirement</b>	None					
<b>Learning material</b>						
<b>Comments</b>						