

<b>WPM 20 Climate and Energy Management</b>			Credits: 6	
<b>Objectives</b> The students <ul style="list-style-type: none"> <li>- learn about the sources and impacts of global climatic changes</li> <li>- become familiar with theoretical and methodological approaches applied in climate research</li> <li>- learn about the development and meanders of international and national climate policies</li> <li>- learn about the development and impact of energy provision</li> <li>- understand the interdependencies between (renewable) energy provision and other ecosystem services</li> <li>- become familiar with the characteristics of transactions, actors and institutions in energy provision</li> <li>- understand theoretical concepts of governance structures and property rights for (renewable) energy resource regimes</li> <li>- develop a notion of the implementation problems by means of concrete projects and practical examples</li> <li>- discuss practical approaches for dealing with nature related problems in (renewable) energy provision</li> </ul>				
Preconditions: none, Recommended: Political and Institutional Economics				
Teaching formats	SWS	Workload	Credits, prerequisite for exam	Contents
LE	3	135 hours	4.5	<ul style="list-style-type: none"> <li>- Overview of the science of climate change</li> <li>- The economics of climate change</li> <li>- Climate change mitigation</li> <li>- Climate change adaptation</li> <li>- Insurance and other financial instruments</li> <li>- International climate negotiations</li> <li>- North/South perspective, impacts on the developing world</li> <li>- Selected case studies on adaptation to floods and impacts of climate change on agricultural production</li> <li>- Climate change and sustainability</li> <li>- Energy demand and supply</li> <li>- Characteristics of energy resources and energy provision systems</li> <li>- Concepts of governance and property rights systems for selected renewable energy provisions</li> <li>- Management of (renewable) energy provision at a global, national and local level (selected case studies and approaches)</li> </ul>
SE	1	45 hours	1.5	<ul style="list-style-type: none"> <li>- Integrated evaluation of (renewable) energy projects</li> <li>- Energy management: concepts, methods and tools (Analysis of Strengths, Weaknesses/Limitations, Opportunities, and Threats (SWOT), Life Cycle Assessment, Regional Energy Concept, Land Use Planning and Management, ...)</li> </ul>
Examination		180 hours	Pass	Written assignment (50%) + group work presentation (50%).
Duration		<input checked="" type="checkbox"/> 1 Semester <input type="checkbox"/> 2 Semester		
Start of module		<input checked="" type="checkbox"/> WS <input type="checkbox"/> SS		