### wir915 - Renewable Energy Systems

**Module label**: Renewable Energy Systems  
**Module code**: wir915  
**Credit points**: 6.0 KP  
**Workload**: 180 h  
**Used in course of study**: Master’s Programme Sustainability Economics and Management > Additional Modules  
**Contact person**:  
- Bernd Siebenhüner  
- Joachim Peinke  
- Michael Hölling

**Module responsibility**  
- Joachim Peinke  
- Michael Hölling  
- Michael Golba  
- Herena Torio  
- Hans-Gerhard Holtorf  
- Robin Knecht

#### Authorized examiners

**Entry requirements**: None.

**Skills to be acquired in this module**: Students learn details about the wide range of renewable energy sources and renewable energy technology as well as their background story.

**Module contents**: Energy basics, energy resources, global energy overview, energy scenarios, techno-economic aspects of energy use (external costs, life cycle analysis, ..), environmental effects of energy use (greenhouse gas emissions, ozone, ..), conventional and advanced power plant technologies, power distribution, advanced storage technologies, solar thermal power plants, geothermal and ocean energies.

**Reader’s advisory**

**Links**

**Languages of instruction**: German, English

**Duration (semesters)**: 1 Semester

**Module frequency**: halbjährlich

**Module capacity**: unlimited

**Module level**: MM-PB (Professionalisierungsbereichsmodul im Master)

**Module type**: Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
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<td>Final exam of module</td>
<td>By the end of the lecture period.</td>
<td>Term paper or written exam.</td>
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**Course type**: Seminar

**SWS**:  
**Frequency**:  
**Workload attendance**: 0 h