## wir915 - Renewable Energy Systems

<table>
<thead>
<tr>
<th>Module label</th>
<th>Renewable Energy Systems</th>
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<tbody>
<tr>
<td>Module code</td>
<td>wir915</td>
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<tr>
<td>Credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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<tr>
<td>Used in course of study</td>
<td>Master's Programme Sustainability Economics and Management &gt; Additional Modules</td>
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<tr>
<td>Contact person</td>
<td></td>
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</tbody>
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### Module responsibility
- Bernd Siebenhüner
- Joachim Peinke
- Michael Hölling

### Authorized examiners
- Joachim Peinke
- Michael Hölling
- Michael Golba
- Herena Torio
- Hans-Gerhard Heltorf
- Robin Knecht

### 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

### Languages of instruction
German, English

### Duration (semesters)
1 Semester

### Module frequency
halbjährlich

### Module capacity
unlimited

### Modulelevel
MM-PB (Professionalisierungsbereichsmodul im Master)

### Modulart
Wahlpflicht

### Lern-/Lehrform / Type of program

### Vorkenntnisse / Previous knowledge

### Examination
- **Time of examination**: By the end of the lecture period.
- **Type of examination**: Term paper or written exam.

### Course type
Seminar

### SWS
- Frequency

### Workload attendance
0 h