The aim of the subject is to provide the basic knowledge of how the Spanish energy sectors are structured and managed, as well as a perspective on the regulatory framework for major activities of the various energy sectors.
### Study load

<table>
<thead>
<tr>
<th></th>
<th>Total learning time: 150h</th>
<th>Hours large group:  30h</th>
<th>20.00%</th>
<th>Hours medium group:  30h</th>
<th>20.00%</th>
<th>Hours small group: 0h</th>
<th>0.00%</th>
<th>Guided activities: 0h</th>
<th>0.00%</th>
<th>Self study: 90h</th>
<th>60.00%</th>
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</thead>
</table>

Total learning time: 150h

Hours large group: 30h (20.00%)

Hours medium group: 30h (20.00%)

Hours small group: 0h (0.00%)

Guided activities: 0h (0.00%)

Self study: 90h (60.00%)
### Content

<table>
<thead>
<tr>
<th>(ENG) Introduction to Electricity Sector</th>
<th>Learning time: 4h</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td></td>
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<tr>
<td>*</td>
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<td>*</td>
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<tr>
<td><strong>Specific objectives:</strong></td>
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<tr>
<td>Energy targets</td>
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<tr>
<td>Sector structure</td>
<td></td>
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<tr>
<td>Economic framework</td>
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<td>Administrative control</td>
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<tr>
<th>(ENG) Power generation I</th>
<th>Learning time: 4h</th>
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<td><strong>Description:</strong></td>
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<tr>
<td><strong>Specific objectives:</strong></td>
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<tr>
<td>Power generation as liberalized activity</td>
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<tr>
<td>SES operation and economic mechanisms</td>
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<tr>
<td>Power generation characteristics and economic consequences</td>
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<tr>
<td><strong>Specific objectives:</strong></td>
<td></td>
</tr>
<tr>
<td>Renewable energy policies and applied legal frameworks</td>
<td></td>
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<tr>
<td>Control deficiencies and renewable energy promotion</td>
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<tr>
<td>Renewable energy and retroactivity</td>
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<tr>
<td>New renewable energy legal framework</td>
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</table>
### (ENG) Regulated activities

**Description:**
- *
- *

**Specific objectives:**
- Legal framework and objectives
- Transmission and distribution activities
- The system operator
- The operator and the technical management

**Learning time:** 4h
- Theory classes: 4h
- Self study: 0h

---

### (ENG) Electricity markets

**Description:**
- *
- *

**Specific objectives:**
- Legal framework and objectives
- Whole sale market
- Retail market

**Learning time:** 4h
- Theory classes: 4h
- Self study: 0h

---

### (ENG) Introduction to the Natural Gas Sector

**Description:**
- *
- *

**Specific objectives:**
- Legal framework
- Infrastructure and management of the system
- The regulatory body
- Economic framework

**Learning time:** 4h
- Theory classes: 4h
- Self study: 0h
### 820328 - RSE - Energy Sector Regulation

#### PBL_I

<table>
<thead>
<tr>
<th><strong>Learning time:</strong></th>
<th>63h 30m</th>
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<tbody>
<tr>
<td><strong>Theory classes:</strong></td>
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<tr>
<td><strong>Laboratory classes:</strong></td>
<td>7h 30m</td>
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<tr>
<td><strong>Self study:</strong></td>
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**Description:**

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| * |

#### PBL_II

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<td><strong>Laboratory classes:</strong></td>
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<tr>
<td><strong>Self study:</strong></td>
<td>45h</td>
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</table>

**Description:**

| * |
| * |

### Qualification system

The evaluation will be conducted by carrying out different projects (and / or tests) related to the contents of the subject. The subject does not possess a reassessment process.

### Bibliography

**Basic:**