1/2020 EXERGY PROJECTS

- **RSC**
  - 12 MW ORC
  - Geothermal

- **Greeneco 6**
  - 25 MW ORC
  - Geothermal

- **Kiper**
  - 10 MW ORC
  - Geothermal
Client name: **GREENECO ENERJI**  
Plant Location: **SARAYKOY, TURKEY**  

**Application:** **GEOTHERMAL**

**Date of implementation:** **2020**  
Plants size: **26 MWe (unit 6)**  
Model Used: **GEX 2600**

**Range of resource flow:**  
**Brine** 1300 - 1400 ton/h  
**Steam+NCG** 150 ton/h @ 8 bara  
Temperature of Geothermal steam/brine: 160-170°C

**Water or cooling agent:** **AIR COOLED**  
Generator voltage: **6 KV**

**Installation:** **OUTDOOR**

This is the last unit of a modular project that allowed the installation of a **total capacity of 102 MWe**
Client name: RSC
Plant Location: SEFERIHISAR, TURKEY

Application: GEOTHERMAL

Date of implementation: 2020
Plants size: 12MWe (unit 6)
Model Used: GEX 1200

Range of resource flow:
- Brine 850 ton/h
- Steam+NCG 27 ton/h @ 5 bara
Temperature of Geothermal steam/brine: 140-150°C

Water or cooling agent: AIR COOLED
Generator voltage: 6 KV

Installation: OUTDOOR
Client name: KIPER
Plant Location: SARAYKOY, TURKEY

Application: GEOTHERMAL

Date of implementation: 2020
Plants size: 10 MWe (unit 6)
Model Used: GEX 1200

Range of resource flow: Brine 1200 ton/h
Temperature of brine: 120-130°C

Water or cooling agent: WATERCOOLED
Generator voltage: 6 KV

Installation: OUTDOOR
<table>
<thead>
<tr>
<th>Type of the renewable energy production plant</th>
<th>Renewable Energy Resources Support Mechanism Price (Turkish Lira cents/kWh)</th>
<th>Renewable Energy Resources Support Mechanism Price Period (year)</th>
<th>Local Content Price* (Turkish Lira cents/kWh)</th>
<th>Local Content Price Period (year)</th>
<th>Price CAP (US Dollar/MWh)</th>
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<tbody>
<tr>
<td>New scheme (from 01/07/2021)</td>
<td>54</td>
<td>10</td>
<td>8</td>
<td>5</td>
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* Generator and Power Electronics; Turbine; Heat Exchanger; Cooling system

<table>
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<tr>
<th>(US Dollar/MWh)</th>
<th>(year)</th>
<th>(US Dollar/MWh)</th>
<th>(year)</th>
<th>TOTAL</th>
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<td>9,52**</td>
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<td>OLDScheme</td>
<td>105</td>
<td>10</td>
<td>20***</td>
<td>5</td>
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** calculated with 14706/2021 TL/Usdollar exchange rate
*** applicable to ORC (Generator and Power Electronics; Turbine)
6/KEY DRIVES FOR GEOTHERMAL DEVELOPMENT

› Sustain the production with Feed-it Tariff
› Incentive new project to develop Enhanced Geothermal systems
› Increase **bonus for zero Greenhouses gas emissions** power plant
› Increase **bonus for 24h constant generation** renewable energy