**For Sale:**

**205 MW**

Pre-owned Combined Cycle Power Plant in “as new” condition

Ref.-No: GT-CC-054

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**Brief plant history:**

This plant has been supplied and commissioned by Siemens as a turn-key package in 2013. The owner has concluded a LTSA with Siemens which is effective for 15 years and starting from 2013.

The CCGT Power Plant has an CC net efficiency around 54% and the main equipment is covering 3 units GT’s each 47 MWe + 3 HRSG’s each 70 t/h steam + 1 STG with 64.5MWe. The operating mode is allowing daily starts and stops.

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**CCGTPLANTCHARACTERISTICS**

<table>
<thead>
<tr>
<th>Type</th>
<th>CCNGPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>205.5 MW</td>
</tr>
<tr>
<td>Configuration of the CCNGPP</td>
<td>3GT’s+3HRSG’s+1 STG</td>
</tr>
<tr>
<td>Fuel</td>
<td>Natural Gas</td>
</tr>
<tr>
<td>(As these SGT800 type GTs are designed for duel-fuel capability, there is the possibility to apply liquid fuel burners by a minor conversion.)</td>
<td></td>
</tr>
<tr>
<td>CoolingType</td>
<td>Air Cooled Condensers</td>
</tr>
<tr>
<td>CCGT NetEfficiency</td>
<td>54.6% (at ISO Conditions)</td>
</tr>
<tr>
<td>COD</td>
<td>2013</td>
</tr>
<tr>
<td>Equivalent Operation Hours</td>
<td>GT-1 15.795, GT-2 15.797, GT-3 16.348</td>
</tr>
<tr>
<td>Equivalent Cycle Hours</td>
<td>GT-1 843, GT-2 901, GT-948</td>
</tr>
</tbody>
</table>
## CCGT Configuration

### Gas Turbines-1,2 and 3

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year of Construction</td>
<td>2011-2012</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>SIEMENS</td>
</tr>
<tr>
<td>Capacity</td>
<td>47MW (each)</td>
</tr>
<tr>
<td>Model-Type</td>
<td>SGT-800</td>
</tr>
<tr>
<td>Efficiency</td>
<td>37.5%</td>
</tr>
</tbody>
</table>

### HRSG’s- 1,2 and 3

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year of Construction</td>
<td>2012</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Aalborg</td>
</tr>
<tr>
<td>Capacity</td>
<td>70 t/h (each)</td>
</tr>
<tr>
<td>Steam Parameters</td>
<td>HP 73 barg, 540°C</td>
</tr>
<tr>
<td></td>
<td>LP 7 barg, 270°C</td>
</tr>
</tbody>
</table>

### Steam Turbine

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year of Construction</td>
<td>2012</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>SIEMENS</td>
</tr>
<tr>
<td>Capacity</td>
<td>64.5MW</td>
</tr>
<tr>
<td>Model-Type</td>
<td>SST-900</td>
</tr>
</tbody>
</table>
Generators 11.5 KV

<table>
<thead>
<tr>
<th>Generator GT-Manufacturer</th>
<th>SIEMENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>AMS 1250 A LF</td>
</tr>
<tr>
<td>Output</td>
<td>48 MVA @ 40°C cooling air</td>
</tr>
<tr>
<td>Voltage</td>
<td>11.5 KV – 50 Hz, PF 0.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Generator ST-Manufacturer</th>
<th>SIEMENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>SGen5-100A-2P 092-26 M07</td>
</tr>
<tr>
<td>Output</td>
<td>78.63 MVA</td>
</tr>
<tr>
<td>Voltage</td>
<td>11.5 KV – 50 Hz, PF 0.8</td>
</tr>
</tbody>
</table>

Step-Up Transformers

<table>
<thead>
<tr>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>11,5 KV - 134,75 KV - 154 KV -173,25 KV</td>
</tr>
</tbody>
</table>

Further information on request

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