GENERAL DESCRIPTION OF THE APPLICATION
The Chlorine industry produces vast quantities of hydrogen as a by-product. In many cases, this hydrogen is not fully utilized. Nedstack PEM fuel cells offer an excellent opportunity to maximize the energy recovery from this hydrogen, yielding a saving of up to 20% on the electricity consumption of the chlorine plant. In addition, the heat from the fuel cells can be reused in the process, adding even more savings on energy consumption.

FEATURES
- zero-emission
- CHP
- Scalable (1 to multi-MW)
- Easy transportation
- Turn Key
- Services:
  - Commissioning
  - Operator training
  - Remote monitoring
  - Remote support

OPERATION AND MAINTENANCE
- Continuous, fully automated operation
- Low maintenance, 2 yr frequency:
  - stack exchange
  - de-ionizer exchange
  - filter cleaning
  - calibration of sensors

TYPICAL OUTPUT

<table>
<thead>
<tr>
<th></th>
<th>1 MW PEM FCPP</th>
<th>2 MW PEM FCPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Cell Power output</td>
<td>1000 kWe DC</td>
<td>2000 kWe DC</td>
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<tr>
<td>Net rated output</td>
<td>900 kWe (380 V AC, 50 Hz)</td>
<td>1800 kWe (380 V AC, 50 Hz)</td>
</tr>
<tr>
<td>Electrical efficiency</td>
<td>50 % (LHV)</td>
<td>50 % (LHV)</td>
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<tr>
<td>Thermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power output</td>
<td>&gt;500 kW @ 65 °C</td>
<td>&gt;1000 kW @ 65 °C</td>
</tr>
</tbody>
</table>

MORE INFORMATION
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