Performance Upgrade

Upgrade Solution to ABB’s A100-L platform
2 Stroke Engines – Power Generation

“The superior performance, reliability and user friendliness of the A100-L will increase the competitiveness of your power installation.”

Simone Bernasconi,
Senior Sales Manager, ABB
Turbocharger Upgrade Solution
Upgrade Solution to A100-L platform

The solution in a nutshell
Advanced turbocharging for two-strokes.
The A100-L platform has been developed with a clear focus on end-user and service friendliness, enabling significant operational advantages to your power installation. The new turbocharger platform has been designed to achieve long times between inspections, routine maintenance and overhaul (increased TBO). This leads to major reduction in service costs and thus reduces the total cost of ownership (TCO), while still ensuring highest spare part availability.

Due to the integration of latest state-of-the-art technology, an excellent reliability record under harsh operating conditions can be provided. The outstanding turbocharger performance reduces the thermal wear and tear on turbocharger and engine, while decreasing your fuel expenses.

Application
- Power generation
- Stationary two-stroke engines
- Engine series: RTA, MC, RND, RNF, RNMD, UE
- All cylinder configurations and versions
- Fuel: HFO, Crude Oil, Diesel, others

Reference case study
Upgrade to A180-L

<table>
<thead>
<tr>
<th>Engine</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Rated engine power</td>
<td>30 MW</td>
</tr>
<tr>
<td>Yearly running hours</td>
<td>6000 h</td>
</tr>
<tr>
<td>Typical engine load</td>
<td>85%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Annual added value</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fuel savings (@ 500 $/t)</td>
<td>310'000 $</td>
</tr>
<tr>
<td>Reduced CO₂ emissions</td>
<td>1900 t</td>
</tr>
<tr>
<td>Exhaust gas temperature</td>
<td>-60°C</td>
</tr>
<tr>
<td>Turbocharger maintenance cost*</td>
<td>-70%</td>
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</tbody>
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*Avg. over 10 years

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