Anti-Icing System

Product Description
- Inlet icing can occur on LM series turbines at temperatures less than 40°F (4.4°C) and humidity greater than 65%.
- Ice formation can lead to significant ice debris and thus turbine blade damage.
- Waste heat from the combustion inlet air is used to heat the inlet air by 10 to 40°F above ambient temperature, preventing icing.
- The waste heat recovery system is a skid placed alongside the turbine, consisting of:
  - Pump system using a closed loop of glycol-water.
  - Chilling coils.
  - Air filter house.
  - Heat Exchanger connected to the combustion inlet air Waste Heat Recovery Unit (WHRU)
- Control logic allows system to be idle if icing is not present and to activate when icing detected. There are 4 total states: idle, anti-icing, air-purge, and full purge.
- This system does not come standard with the LM series packages.

Customer Value
- Anti-icing system prevents ice related internal damage to engine blades, reducing turbine downtime and repair times.
- Anti-Icing system controls are automated to run only when ice detected.
- Increased efficiencies and power outputs as shown in the graph to the right.

Applicable Units:

<table>
<thead>
<tr>
<th>LM6000</th>
<th>✓</th>
<th>LM2500</th>
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<tbody>
<tr>
<td>LMS100</td>
<td>✓</td>
<td>LM5000</td>
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<tr>
<td>LM1600</td>
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<td>TM2500</td>
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GE’s global service network provides life cycle support for more than 3,500 aeroderivative gas turbines worldwide to help you meet your business challenges and success metrics – anywhere and anytime. Our global service network connects with you locally for rapid response to your service needs.

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