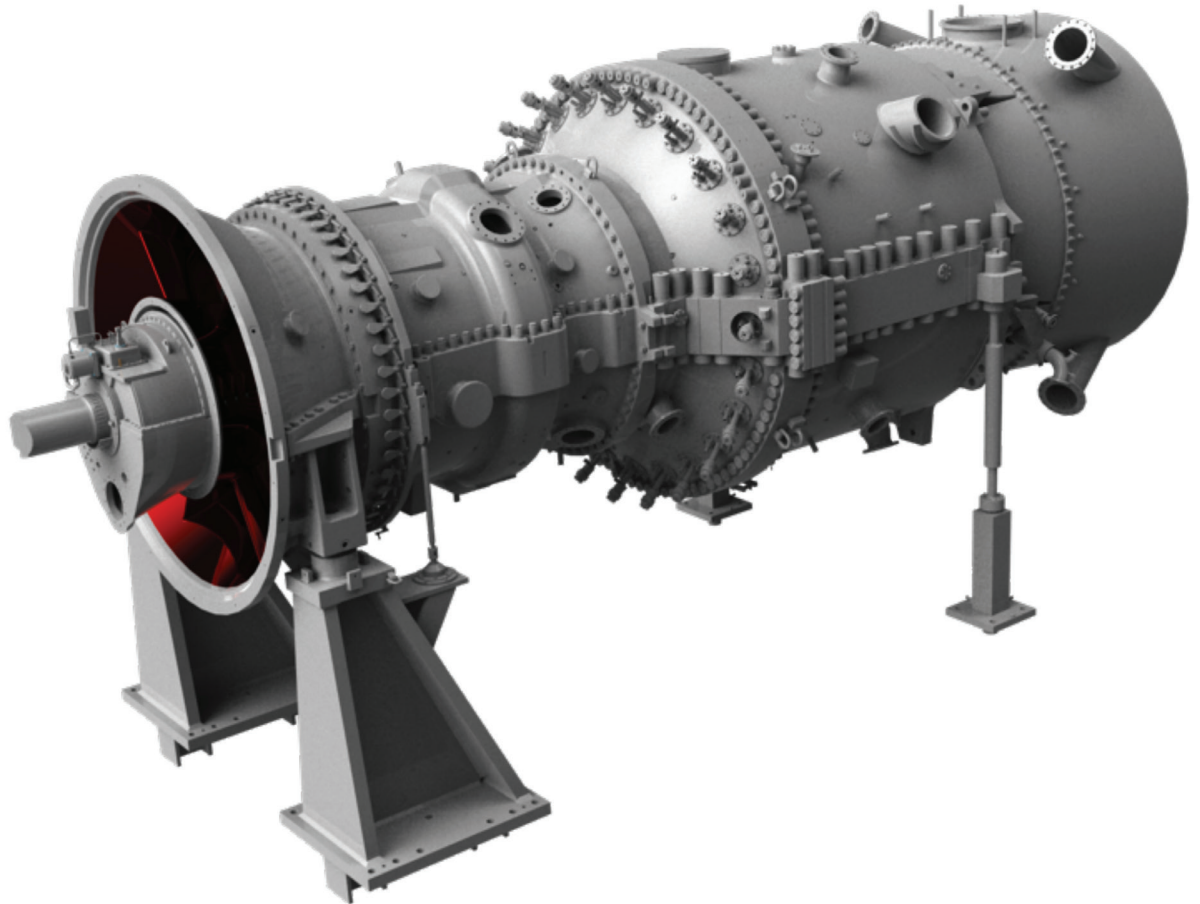




The MXL2 upgrade allows to obtain the maximum performance improvement (M-mode) and/or to extend the maintenance interval (XL-mode). In order to increase the performance of gas turbines and lengthen maintenance intervals, Ansaldo Energia has developed a number of different upgrades of the main Gas Turbine components throughout the years. Fully retrofittable, Ansaldo Energia's solutions include turbine blades and vanes, combustion systems, sealings and cooling systems. Ansaldo Energia has released an upgraded version of its turbine blades.



How You Benefit

The new set of Turbine B&Vs blades and vanes are applicable to all versions of AE/V 94.3A and SGT5-4000F.

CUSTOMER BENEFITS*

- Increase of net power production up to 325 MW
- Up to 40.1% simple cycle efficiency
- Up to 41 KWE0H maintenance interval increase
- Reduced maintenance costs

* Reference values in new, clean and ISO conditions, specific data to be evaluated case by case.

TECHNICAL FEATURES

- Aero-Mechanical Optimized Design
- Cooling system: Enhanced cooling on both stator and rotor components
- Base Material: improved material on TB3
- Coating: enhanced bond coating, enhanced TBC thickness
- Reduction of secondary air system flow



Technical Specifications

This upgrade is fully retrofittable to all AEV94.3A and SGT5-4000F Gas turbine versions during a programmed Major Overhaul.

The HGP upgrade involves basically the following components:

- Replacement of turbine Blades and Vanes (stages 1 to 4) with upgraded version that has an improved airfoil, improved cooling path, and improved coating.



- Replacement of Turbine Vane Carrier (TVC) with optimized cooling system
- Improved Guide Ring #1
- Improved Seal Rings



GT performance gain*

Power Output Improvement	Up to 15 MW
Efficiency Improvement	Up to 0.3%
Maintenance Interval Extension WEOH	Up to 8000

* Reference values in ISO conditions, specific data to be evaluated case by case

For more information and to reach our sales Team, please go to www.ansaldoenergia.com

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