



6B Advanced Gas Path (AGP)

Output, Efficiency, and Availability Solution



Output

The AGP can improve power output by 4%–16% depending on the plant's configuration. This option also results in an exhaust energy increase of 2%–9%.



Efficiency

6B AGP can improve heat rate by up to 4% depending on the plant's configuration.



Availability

When packaged with the 6B Advanced Extendor combustion technology, the AGP allows for synchronized combustion and hot gas path inspection intervals up to 32,000 Factor Fired Hours.

Summary

The 6B AGP is a new hot gas path that builds on the proven rugged reliability the fleet has demonstrated for over 40 years while allowing customers to remain competitive. This upgrade utilizes proven E, F, and H-class developments to increase firing temperature.

The 6B AGP enables higher output and exhaust energy, lowers fuel consumption, and increases maintenance inspection intervals.

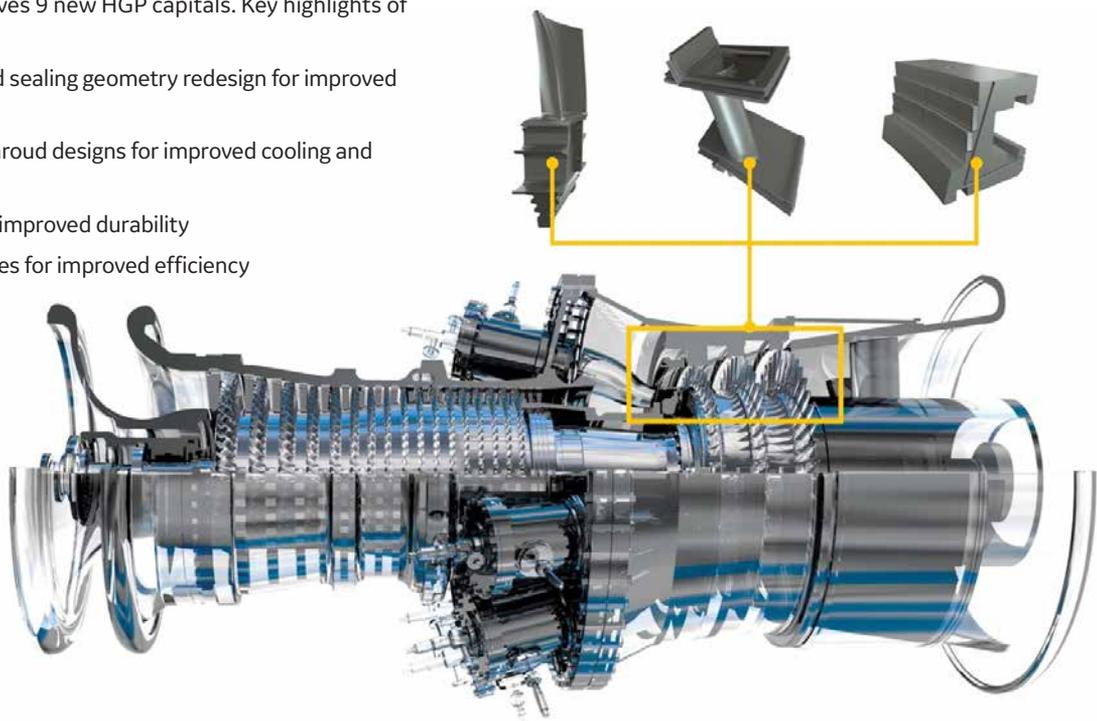
Key Features

The AGP upgrade involves 9 new HGP capitals. Key highlights of the upgrade include:

- Laminate sealings and sealing geometry redesign for improved heat rate
- Advanced blade tip shroud designs for improved cooling and sealing efficiencies
- Advanced coating for improved durability
- Cooling airflow changes for improved efficiency

6B AGP Requirements

- Requires a Mark* IV control system or newer
- Compatible with a wide range of 6B fuels except ash-bearing liquids
- Applicable to PG6541 or newer models
- Requires compressor stage 17 protection mitigation



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