



Advanced Steam Path (ASP)

a full steam path upgrade for combined-cycle steam turbines



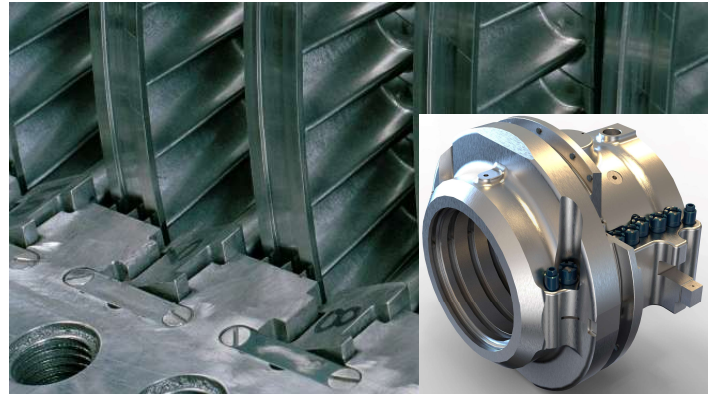
Availability/Reliability - addresses multiple TILs relating to diaphragm dishing and N2 packing head cracking. Up to 20-day reduction in outage duration.



Output - up to 2.2% ST output increase



Efficiency - up to 0.7% CC heat rate improvement



Key Features

- **Phase 1:**
 - New monoblock rotor with impulse blading in the HP & IP sections
- **Phase 2:**
 - New 3-piece welded rotor with 10-Cr material in the center section with reaction blading in the HP section and impulse blading in the IP section
- Singlet* diaphragms in the HP & IP sections
- Modern N2 packing head configuration made of 9-Cr material with reduced axial loading and improved clearances
- Enhanced sealing features including HP tip & root J-seals, N2 packing head brush seals, IP tip brush seals
- The new steam path is designed to fit within the existing shell

GE has a suite of customizable solutions to improve the reliability of the HP/IP module of your steam turbine. The Advanced Steam Path may be an attractive option that addresses multiple reliability concerns while providing improved performance.



Key Benefits

- Reduced risk of unplanned outages and major emergent repairs during planned outages that are both costly and extend outage duration
- Increased steam turbine output based on recovery of aging losses and improved technology
- Enables combined cycle plant upgrades that increase steam flow
- Improves combined cycle heat rate

Proven Technologies

Pre-engineered solutions available for D11 steam turbines operating at 50 Hz and 60 Hz.

Six services applications installed since 2015 with 3 more planned installations.

To learn more about this offering, contact your GE sales representative or visit powergen.gepower.com.

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