



Cylinder Retrofit

The Cylinder Retrofit product delivers significant improvement to both efficiency and heat rate while increasing output and extending the life of the steam turbine.

Today's fossil energy market has placed increased importance on efficiency and heat rate improvement due to recent EPA regulations. Customers are seeking solutions that avoid unit retirement or costly upgrades with poor return on investment. In addition, aged components require more frequent inspection intervals to ensure the materials maintain their integrity during operation. In extreme cases, the components need to be repaired or replaced. These repairs are costly and may require longer outages with only a marginal performance gain due to recovery losses from aging. Responses to changes in the grid are also of utmost importance with more emphasis being placed on renewables. New units are designed to respond quickly and with this new steam path, a similar response is achievable



GE has multiple solutions to accommodate the varying sizes, steam conditions, and operational needs among the fossil fleet. The Cylinder Retrofit is an attractive solution in cases where HP/IP shell condition is not a major concern or when multiple components are in need of replacement.



Features

- New steam path can be designed similar to Densepack™ or with HEAT™ technology
- Advanced Singlet high efficiency diaphragms
- New bucketed rotor with Integral cover buckets
- New HP/IP inner shells
- Enhanced sealing features including abradable coatings and brush seals
- Components designed to fit in the existing HP/IP outer shell

Benefits

- Extends turbine life with new rotor and diaphragms
- Delivers up to 2.0% increase in steam turbine output from recovery of aging losses and improved technology
- Provides heat rate improvement
- Improved operational flexibility

Applications

This upgrade is available for D5, D8, RHDF steam turbines operating at 60 Hz, single and multi-admission configurations.

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