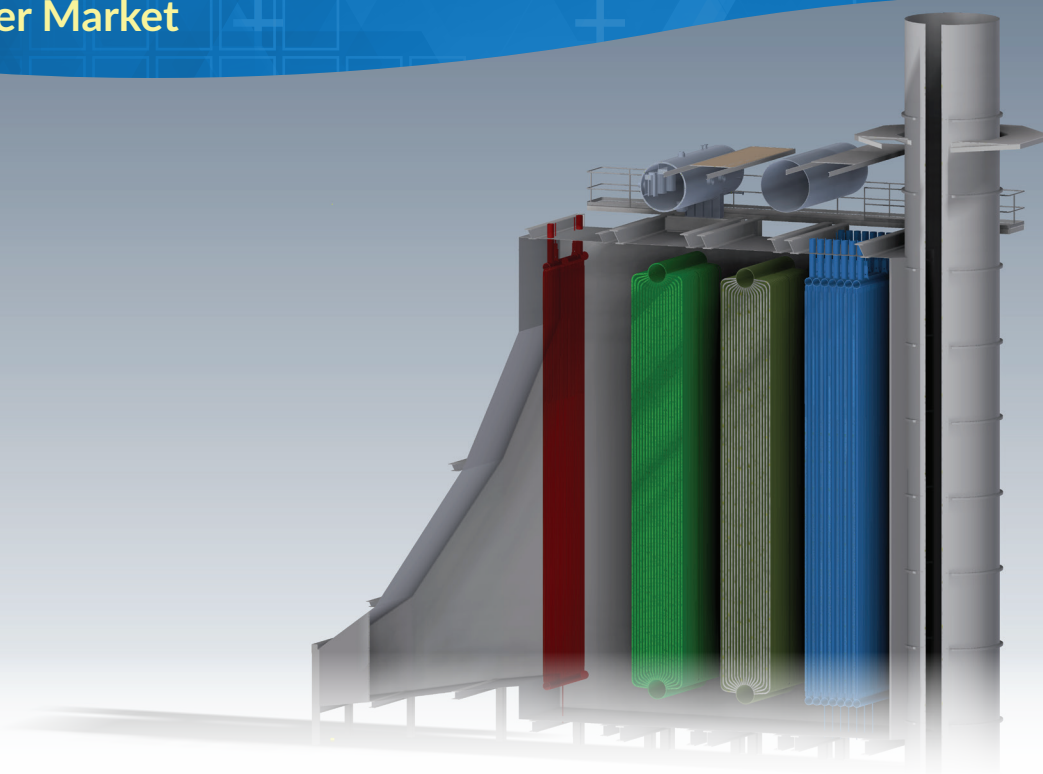


HRSGs

Power Market



Boost Efficiency, Minimize Waste with Quality HRSGs

A power plant's efficiency rating is critical to the bottom line. To achieve maximum, sustainable performance, all integrated parts must work together fluidly. Innova delivers the highest quality performance HRSGs for gas-fired power plants – guaranteed...

Applications

- Combined Cycle–recovery of heat from the gas turbine to power a steam generator
- Cogeneration–recovery of heat from the gas turbine to produce steam or hot water for process use, heating or cooling
- Enhanced Oil Recovery–once through type HRSGs to produce steam for injection to recover oil
- Gas Engines–heat recovery units that reclaim heat from internal combustion engines

Features

- All size of HRSGs for gas turbines up to 100 MW
- Steam production up to 500,000 pph
- Natural or forced circulation water tube designs
- Conventional horizontal designs or vertical gas flow natural circulation for tight plot space
- Radiant furnace for high-fired HRSGs
- Modular internally insulated HRSG
- Rapid change over from unfired/supplemental fired to fresh air firing
- One, two or three pressure levels
- Diverter valves to regulate inlet flow
- SCR and oxidation systems for NOx and CO reduction
- Full integration with existing operations
- High performance silencer systems

Benefits

- Increase your plant's efficiency
- Raise your power output
- Be cost competitive
- Meet the highest quality standards
- Enable smooth heat transfer under all operating conditions
- Minimize steaming during start-ups and shut-down
- Provide longer HRSG life
- Reduce noise and vibration
- Eliminate flow-related corrosion
- Achieve very low NOx emissions
- Reduce space requirements and erection time

Leverage our Experience

Although our HRSG product line is new to us, we have 35 years of engineering and delivery of complex solutions for power plant projects across the globe, and...

- More than 100 years combined HRSG design and engineering experience
- Staff experience on more than 100 units sold
- Unmatched engineering solutions for octave band, low frequency, and radiated noise
- Successful solutions to meeting budget, delivery, air emissions and noise abatement
- Leading-edge NOx reduction from patent pending flow distribution SCR systems
- Global fabrication and sourcing network to meet schedules and budgets
- OEM-approved shops for quality and manufacturing

Performance Guaranteed

Our performance guarantee starts with understanding how the HRSG will operate at your plant. We carefully consider all specifications—from plant layout, and equipment placement to allowable gas side pressure drop—and then balance these against various design and cost options. The end result is the most cost-effective solution possible with steam output guaranteed.

Engineering Toolbox

- Advanced thermal modeling software
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)
- Structural analysis
- ASME Code

Add-on Products

Services

- Thermal performance modeling
- Evaluation studies—SCR addition, expansion, in-duct burner addition
- Site Investigation—casing issues, hot spots and other issues
- Noise & vibration modeling and analysis—near and far field noise measurements, predictive modeling and vibration-related failures
- Dynamic analysis—evaluation of life cycle fatigue
- Metallurgical analysis—tube failures and cracking

Products

- Higgott-Kane™ exhaust silencing system
- Bypass system with diverter damper
- Diffuser
- SCR for NOx removal
- Anti-icing system
- Expansion joints
- Support steel
- Sound barriers
- Steam vent silencers



Engineering, Fabrication & Construction

Innovation with Engineering Integrity