



Mechanical Engineering and Design

The Westinghouse Solution

The Westinghouse BOP and Design Engineering mechanical engineers have decades of experiences providing support to a wide range of engineering activities at power generation, oil & gas, and industrial infrastructure projects. Westinghouse provides a wide range of services for integrated, comprehensive projects from minor modifications to complex component replacements and plant-wide modifications.

Services Include:

- Design Change Package Preparation, Issue, and Implementation Support
- System Walkdowns and Field Engineering
- Calculations, Specifications, and Data Sheets
- Startup, Testing, and Performance Evaluations
- Licensing, Permitting, and Feasibility Studies
- Emissions Control (NO_x, SO_x, Hg, PM, SCR, SNCR, FDG)
- Thermal and Fluid Systems Engineering
- Facilities (HVAC, Fire Protection, Plumbing)
- Metallurgy, Materials, Corrosion, and Welding
- Flow Accelerated Corrosion Evaluation
- Valve Selection
- Cranes, Lifting, and Rigging
- Materials Handling
- Vessels and Tanks
- Repowering Studies and Condition Assessments
- Diesel Sets and Gas and Steam Turbine Generators
- Combined Heat Power and District Heating
- Transient Analyses and Heat Balances
- Thermal Efficiency Improvement Studies
- Major Equipment (Turbines, Pumps, Heat Exchangers)
- Damage / Life Expectancy Evaluation
- Steam Blow Support
- Troubleshooting

Mechanical Engineering Software

- PEPSE™
- ANSYS™
- GT Pro / GT Master™
- AFT FATHOM™ & ARROW™
- AFT IMPULSE™

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