

Balance of Plant Engineering



The Westinghouse Solution

Westinghouse provides balance of plant (BOP) engineering services that deliver solutions across the entire plant. From specialty consulting to integrated, comprehensive solutions for engineering projects, Westinghouse's BOP engineering and project management teams understand customer needs and address them to optimize plant performance.

Westinghouse provides a wide range of services from simple engineering staff augmentation to integrated, comprehensive solutions for the project management of large, complex component replacements and plant-wide modification projects. Our team leverages significant field execution experience to provide additional technical support and consulting as required. With extensive experience in CANDU®, PWR and BWR technologies, we've solved technical, licensing, and plant operational challenges for nuclear plants for over 50 years.

Our team

Westinghouse's team is comprised of more than 1,200 engineering resources worldwide covering over 200 specialty disciplines to provide the most appropriate, cost-effective, and comprehensive solutions to our customers.

Our engineering and project management teams are highly skilled at executing projects from the critical initial planning and scoping phase, through detailed engineering, installation, and startup.

Global Experience

Westinghouse has a broad range of worldwide BOP experience. Global examples include:

- BOP engineering analysis for a margin recovery power uprate program
- Power uprate, including contractual responsibility for all BOP
- Installation and design change packages in support of moisture separator reheater replacements
- BOP uprate feasibility study & detailed analysis
- Redesign and modification of the secondary cooling water system
- Performance of all aspects of design change packages (DCPs) from conceptual design to DCP delivery and installation supervision.

Capabilities

Backed by 6,000 worldwide experts, Westinghouse leverages global expertise to perform tasks for CANDU, PWR and BWR plants, such as:

- Develop design change packages for component modifications
- Perform heat exchanger inspections and maintenance, and turbine generator inspections on all major manufacturers' equipment
- Perform integrated, comprehensive solutions for component removal and installation projects
- Provide on-site staff augmentation services
- Respond to engineering, procurement and construction contracts for buried pipe solutions for infrastructure program management, including non-destructive examination, evaluation, design engineering for mitigation, installation project management and licensing
- Provide construction management and support services, including engineering, machining, welding and metrology
- Provide engineering services relating to electrical power equipment, thermo-hydraulic/ heat balance, and pipe stress analysis

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