



ELECTRICAL SERVICES



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In addition to turnkey supply of complete power plants, BWSC provides upgrades, lifetime extension, repairs and troubleshooting on virtually all electrical equipment and systems associated with boiler and engine-based power plants.

We can offer:

Staff training as well as engineering, supply, erection, test and commissioning of all electrical and control equipment related to the power plant and distribution systems including:

- plant energy saving survey
- electrical damage survey
- harmonic studies/survey
- electrical grid studies/survey
- power quality surveys
- protection relay test secondary injection
- fire detection survey
- gas detection survey
- plant electrical upgrade survey
- DCS control system surveys
- on line DCS service/support
- generator service, repair
- generator remaining lifetime calculations (ABB LEAP)
- infrared scanning
- transformer oil monitoring/sampling
- transformer oil regeneration
- tap changer exchange
- transformer renewal/relocation
- electrical installation LV, MV, HV
- electrical installation DC-systems
- electrical installation instrument and control system
- optic fiber cable installations
- generator exchange
- DCS control system upgrade
- engine control system upgrades
- cylinder liner monitoring systems
- oil mist detection systems
- AVR excitation system upgrade
- protection relay upgrade
- LV system upgrade
- MV system upgrade
- HV system upgrade
- HV switch gear/substations
- HV switch gear open air switch yard to GIS conversions
- electrical auxiliary equipment
- test kits fuel, lube, water
- improved instrument solutions
- test instrument solutions
- synchronous compensator solutions

Expansion, upgrading, lifetime extension and servicing of existing electrical equipment may include:

- Defining the best technical solutions in cooperation with the client by conducting a detailed technical survey on site concluded by a detailed report with recommendations.
- Engineering, supply, erection, test, commissioning and management of projects by BWSC in-house engineering and service departments in cooperation with OEMs and partners as applicable. This may include extensive upgrade or lifetime extension of obsolete equipment such as: AVR, synchroniser, control systems, relays etc.
- Servicing existing electrical equipment including: generator inspection and repair, auxiliary switchgear servicing and repair, transformer oil analysis etc.
- Troubleshooting on operational problems including trip and root cause investigation, protection equipment settings, transformer oil analysis etc.

BWSC has more than 30 years' experience as a turnkey contractor for design, supply, erection, expansion, upgrading and servicing power plants around the world, built to the client's specific requirements and meeting both local and international standards.