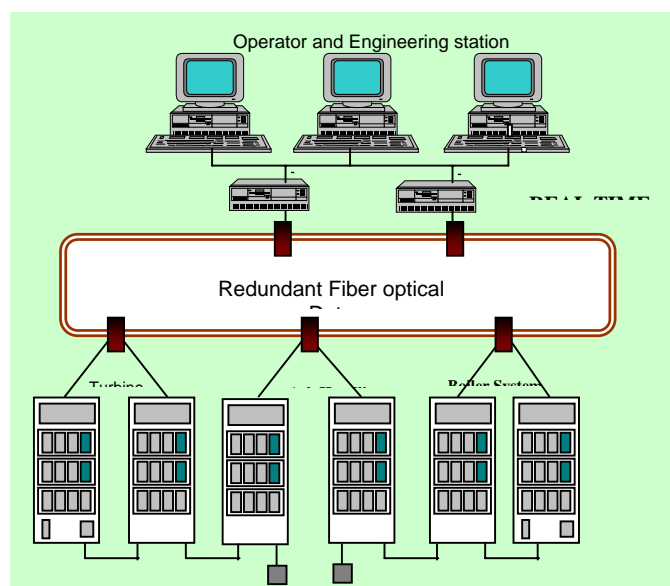


Product Overview	In power plant it is very important to have close control of Water & system cycle for equipment & human safety. Production cycle for steam should also be accurately monitored to improve the ratio of unit power generated / unit fuel used. Epitome Technologies's long experience in power plant systems will make sure that your needs are fully catered to.
Industry	Any industry putting up power plant.
Process Description	Captive power plant is having two TG sets of 15 MW power generating capacity. FBC boilers are supplied by the BHEL (Designed capacity 62 T/ Hr at a temp 480 Deg C, Pressure 65 Kg/Cm2). Different vendors had supplied their own system working separately & controlling their equipment only (for example TG monitoring system with turbine, Ash handling system with ESP, BMS system with boiler)
Business Objectives	It is required to integrate different system supplied by different vendors so as to achieve higher safety with close control of parameters & improvement of efficiency of the power plant.

The Solution

Epitome Technologies proposed solution is with Distributed Control System. Redundant processors can communicate with dedicated system processor. Epitome Technologies has designed a modulating & sequential control module for supervising the function of individual equipment. Bi-directional data flow between System & PLC optimizes the equipment life & performance.

Master pressure control loop monitors the turbine load & adjusts the air fuel set point, optimizing fuel requirement of the system. Highly responsive generation closed loop matches generation to demand. System matches the boiler output to the turbine energy requirement under all conditions through a self-calibrating boiler demand calculation. Auxiliary modules are designed which closely controls generation, fuel flow, airflow, furnace pressure, and feed water & drum level control All the data from different equipment are collected centrally. Customized reports being developed for Unit performance & over all performance calculation. Sequence of event facility helps to troubleshoot the Plant operation in case of tripping & to reduce down time of the power plant.



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Benefits to Customer	<ul style="list-style-type: none"> ➤ Improved steam temperature control strategy provides consistent, high-quality control throughout the plant operating range with minimum expenditure of equipment life. Control system is designed to back track fuel demand based on actual Power demand, resulting in improved efficiency. ➤ Reduction in Manpower for Operation and Maintenance. ➤ Higher productivity.
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