

ENERGY OPTIMIZATION IDEA

CENTRAL STEAM AND CHILLED WATER PLANTS IN THE KINGDOM OF SAUDI ARABIA

These plants shall play a key role in optimizing energy, protecting environment in industrial cities in the Kingdom of Saudi Arabia

Plant managers are always looking for new ways to cut energy costs and meet ever-stricter environmental regulations. Trying traditional methods of energy optimization by improving insulation or changing thermostat setting can only take you so far. But sometimes you have to start from scratch. Saudi Boilers Company is working on the idea of central utility plant (CUP) for steam and chilled water requirement for industrial users in various industrial cities.

The plants feature highly efficient gas-fired steam boilers along with adsorption system for water cooling with the capability to provide steam with different pressures, hot water and chilled water that can be distributed to end users in industrial cities. Receiving steam and chilled water from a CUP brings huge savings to end users in terms of fuel cost, operations, and equipment maintenance cost. In addition, end users will ensure reliable supply of steam and water around the clock.

The primary benefits of central utility plants, compared with smaller local systems, are reduced utility project capital cost, operating costs, better manageability, less downtime, and easier maintenance and servicing. With a great deal of utility supply reliability and cleaner environment.

Utility supply from CUP offload responsibility and risk to a service provider. CUP service agreements with performance guarantees provide protection from unanticipated expenses, as their structure places responsibility on the service provider to manage the cost and risk of delivering utilities within a fixed-fee structure. The cost of utilities is predictable and not impacted by changes in staffing level, maintenance expense or major overhauls, which are managed by the service provider to maintain utility delivery. By comparison, operations and maintenance programs based on headcount or a specified maintenance budget typically result in additional cost added to end users' facility overhead cost. Overall, CUP agreements afford end users the opportunity to engage with a long-term partner that can engineer, implement, and guarantee performance levels necessary to ensure end user production competitiveness.

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