

WATER TREATMENT FACILITIES

POWER SYSTEMS



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DEMAND IS INCREASING - SO ARE REGULATIONS

As water consumption doubles globally every 20 years, scarcity becomes an increasing concern, and individuals and municipalities are more focused than ever on using this resource wisely and efficiently for industrial, domestic and agricultural uses. That concern and new technologies are driving a rapid evolution in the reclamation and reuse of wastewater and having a significant impact on the power systems needed to support water treatment plants.

POWER CONSIDERATIONS

Each facility has unique power needs based on its design, the amount of water being processed and treatment methods. In addition, while some facilities look to backup power solely in the event of an outage, others use generators to offset the power supply needed during peak season—especially during mid afternoon in summer. All of these considerations can lead to a customised solution.

- Total system integration
- Uptime and reliability
- Performance

A reliable power system plays a major role in helping water treatment facilities prevent environmental and health disasters. Generator sets have the ability to provide backup power within seconds of a break in utility power supply, and transfer switches should provide seamless automatic switching between the electrical power from the utility and the backup power system.

ASSESSING FACILITY NEEDS

While most citizens take clean water for granted, a power outage could quickly jeopardise this essential resource. Reliable backup systems are critical to keep pumps and other key equipment running and avoid potential consumer safety issues. Continuous power is also necessary to prevent flooding and discharge of untreated wastewater, which can lead to environmental issues and fines.

