

PowerChain Solutions

# Water and wastewater facilities

**EATON**

*Powering Business Worldwide*

# PowerChain solutions for powering water and wastewater treatment plants

PowerChain™ solutions help enterprises achieve a competitive and sustainable advantage through proactive management of the power system as a strategic, integrated asset throughout its life cycle. With Eaton's distribution, control and automation, power quality equipment and full-scale engineering services and information-management systems, the power system is positioned to deliver powerful results. Below, you'll find just a small sampling of how our solutions can offer you opportunities to take charge of your power system.



**1. Ensure that reliable, consistent power** flows into your system, whether drawn from a local utility or generator, with paralleling switchgear. With a proven track record for co-generation capability, paralleling switchgear safely directs power from a methane generator back into the system, reducing overall utility usage.



**2. Reduce lamp loss events that result in off-spec water and protect valuable equipment** with Eaton's sag ride through (SRT) device. The patent-pending design provides a battery-free solution that reduces space, initial investment and maintenance—all while meeting uptime requirements.



**3. Meet government and safety regulations** with the industry's first arc-resistant, low voltage motor control center (MCC). Eaton's FlashGard® MCC keeps your facility in compliance with federal arc flash guidelines, as well as IEEE® 519 harmonic standards. Eaton's advanced MCC alerts users to potential problems before they threaten to shut down your facility.



**4. Improve user safety** with Eaton's Arcflash Reduction Maintenance System™, which allows users to adjust breaker settings during maintenance to reduce the potential of arc flash incidents. Remote racking devices allow users to remain outside the arc flash boundary during installation and maintenance. Innovative design allows low voltage switchgear to be placed against a wall, saving valuable floor space.



**5. Save money and facility space, while improving safety** with Eaton's medium voltage motor control. Factory assembly and testing make installation fast and easy, with fewer unplanned costs. Innovative design provides isolated cable entry, isolated low voltage compartments and large instrument doors to allow space for larger relays.



**6. Exceed arc-resistant safety standards** with Eaton's medium voltage switchgear. Eaton offers upgrades and support for older switchgear to increase safety and reduce the maintenance burden. Vacuum replacements provide updated relays so operations can be performed with minimal downtime.



**7. Upgrade your technology while minimizing downtime** with equipment refurbishing and retrofitting by Eaton's service professionals. Eaton employs service engineers with an extensive array of knowledge and experience to perform services ranging from routine maintenance to full turnkey solutions.



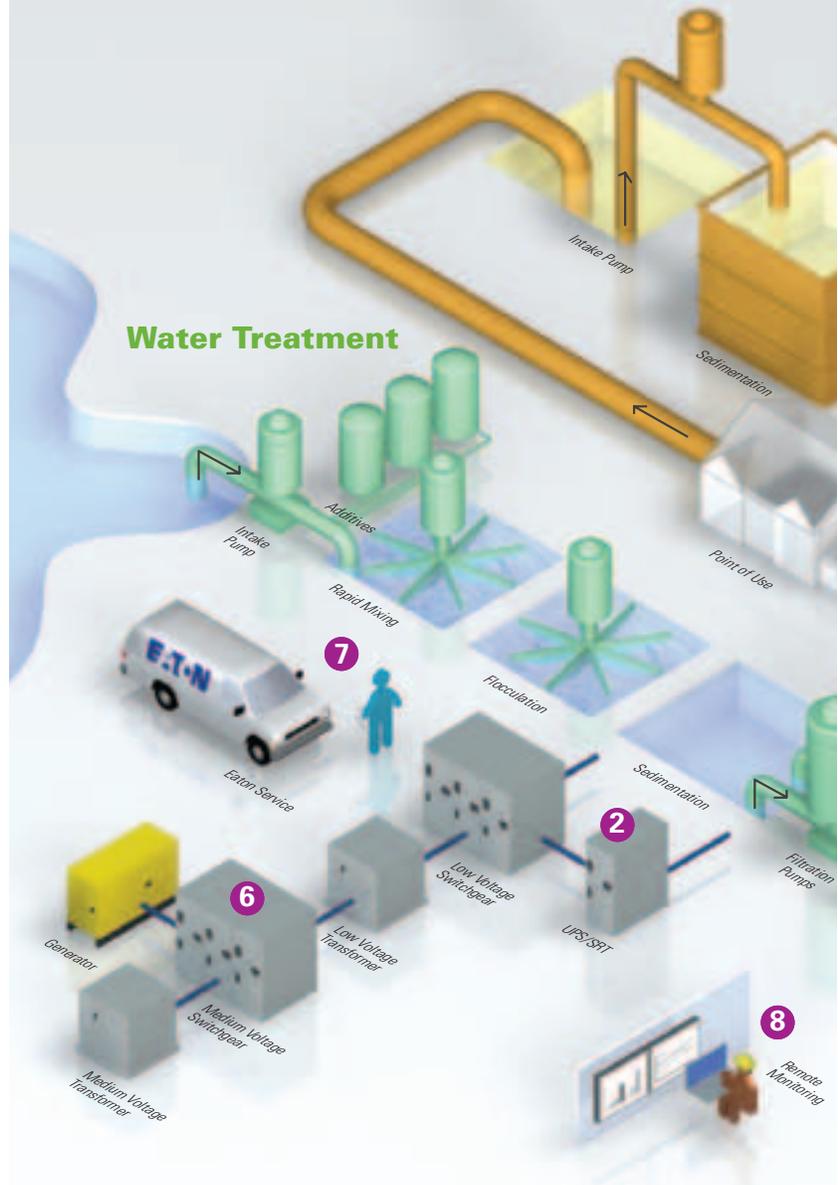
**8. Monitor power-quality events at the subcycle level** with Eaton's Power Xpert® software and its remote-monitoring capabilities. Web-based monitoring gives you access to crucial information, regardless of geography or age of equipment, so you can identify and correct disturbances before they interrupt operations.

## Benefits of PowerChain Solutions



### Greater reliability

Maintain vital operations with steady, high-quality power every minute of every day.





### Operating cost efficiencies

Reduce operating costs with efficient energy-management and maintenance strategies.



### Effective use of capital

Put your capital to work faster, and keep it working longer, with electrical designs that require less equipment and space, services that extend equipment life and preassembled equipment that can be installed faster.



### Enhanced safety

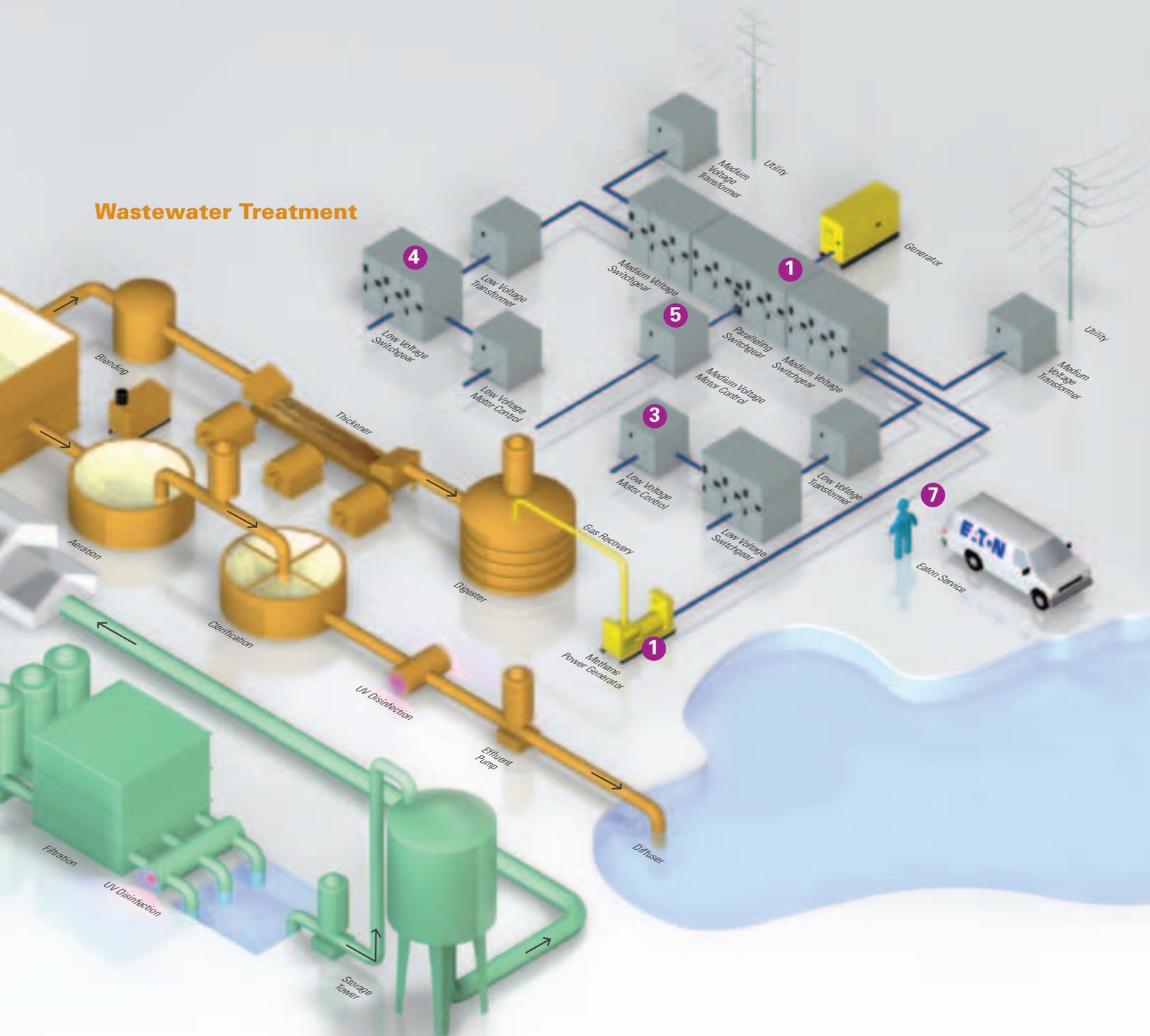
Reduce electrical hazards with safety-conscious design and installation, plus products and information that help people recognize and avoid dangers.



### Risk mitigation

Reduce the risk of construction delays and cost overruns with a coordinated approach to power system design, procurement, installation and maintenance.

## Wastewater Treatment



Eaton's Electrical Sector is a global leader in power distribution, power quality, control and automation, and monitoring products. When combined with Eaton's full-scale engineering services, these products provide customer-driven PowerChain™ solutions to serve the power system needs of the data center, industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

PowerChain solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit [www.eaton.com/electrical](http://www.eaton.com/electrical).

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