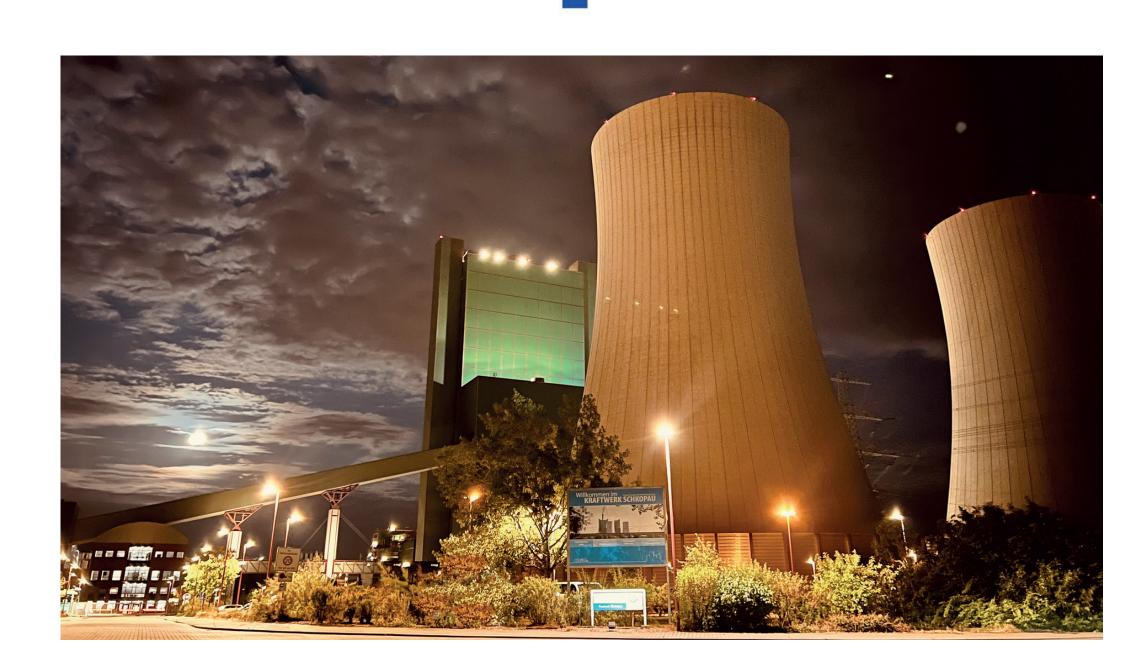
The Game-Changing Solution for Sustainable Water Management

Summary

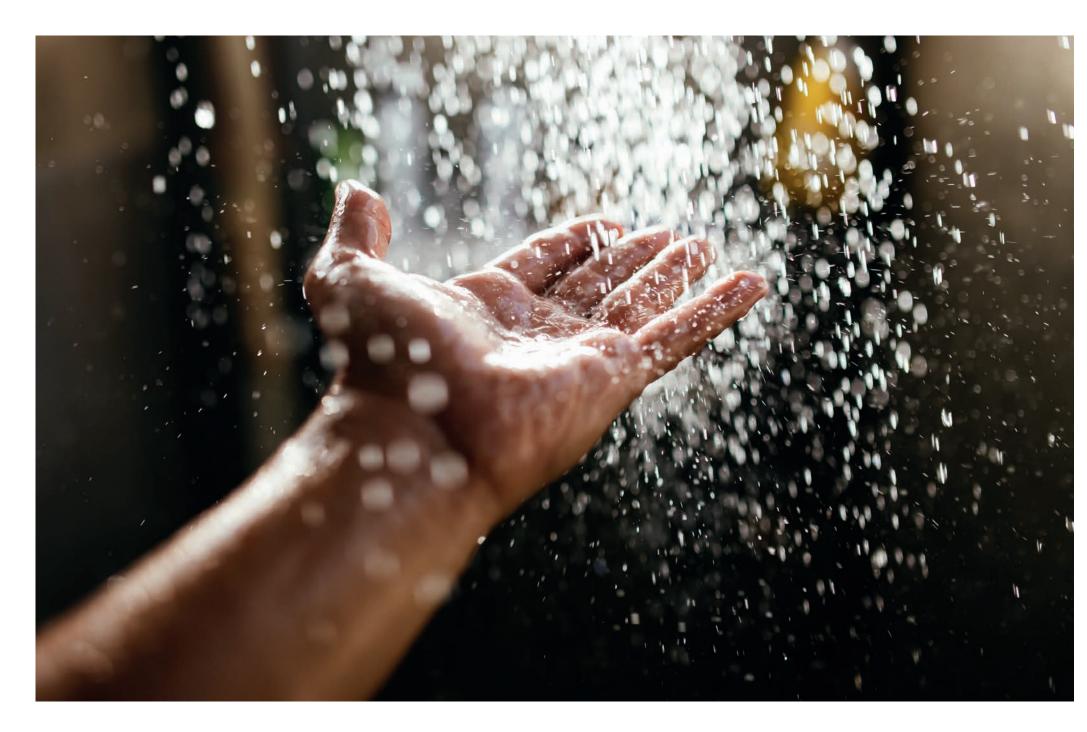
Water management with MATpure® concept has proven its effectiveness in various industrial and real estate sectors, providing sustainable solutions and optimizing the performance of cooling systems. Thanks to this innovation, major projects such as the Wendelstein 7-X fusion reactor, the power plants in Schkopau and Rostock, as well as the Proferro foundry in Ypres, have seen significant improvements in their operations with a drastic reduction in chemicals and maintenance costs.

MADure











Key Achievements in Industrial and Real Estate Projects

The MATpure® technology has consistently delivered significant benefits across various sectors, optimizing water management, enhancing system efficiency, and achieving cost savings, all while supporting environmental sustainability. Below are some key achievements of MATpure® across industrial, real estate, and public health applications:

Schkopau Power Plant

At the Schkopau Power Plant, the MATpure® concept completely eliminated the need for biocides in the cooling system, enhancing system performance and reducing maintenance intervals. Additionally, MATpure® improved flocculation and coagulation in the pretreatment process, resulting in substantial cost savings on iron salts, a major achievement in cost-efficient and sustainable plant operations.

Rostock Power Plant

Since 2016, MATpure® has prevented zebra mussel deposits in the Rostock Power Plant's 8 km pipeline system, which previously required annual manual cleaning. This shift to biocide-free operation has maintained high water quality and significantly reduced operating costs, showcasing MATpure®'s ability to optimize water management for long-term reliability.

Wendelstein 7-X Fusion Reactor

In the complex environment of the Wendelstein 7-X fusion reactor, MATpure® has enhanced cooling efficiency, allowing plasma stability to extend for over 10 minutes. This improvement in temperature control reduces equipment deposits, prolongs critical component lifespans, and minimizes chemical use — all while upholding stringent safety and sustainability standards.

Proferro Foundry – Ypres, Belgium

In high-temperature industrial applications like the Proferro Foundry, MATpure® has doubled cooling efficiency, enabling increased production without the need for infrastructure modifications. This underscores the technology's capability to boost efficiency in demanding industrial environments without costly structural adjustments.

Legionella Prevention in Public Buildings and Residential Complexes

MATpure® has been successfully implemented in public buildings and residential complexes to prevent scaling and Legionella, safeguarding occupant health while reducing reliance on manual chemical cleaning and aggressive biocides. This solution supports ongoing health and safety compliance with minimal chemical intervention, enhancing both efficiency and safety in water management.

These key achievements demonstrate MATpure®'s transformative impact in varied applications, consistently delivering cost savings, operational efficiency, and sustainable water management. MATpure® provides proven solutions that meet the diverse needs of modern industries and public facilities, reflecting a strong commitment to customer benefit and environmental responsibility

How it works: The MATpure® concept relies on a specialized mineral catalyst that interacts with water through electron exchange, creating microbubbles of water vapor within the system. These microbubbles play a crucial role in maintaining system health by preventing the formation of deposits, minimizing corrosion, and encouraging the self-cleaning of internal surfaces. As a result, systems operate more smoothly with fewer interruptions, significantly enhancing performance while reducing the reliance on chemical treatments.

Key Benefits of MATpure®

Optimized System Performance: The prevention of deposits and reduction in corrosion allow systems to run at peak efficiency. Lower Maintenance Costs: With fewer deposits and less corrosion, maintenance intervals are extended, saving on OPEX Increased Energy Efficiency: Improved water quality enhances heat transfer and system efficiency, leading to energy savings. Environmentally Friendly: By reducing the need for chemicals, MATpure® offers a more sustainable and environmentally friendly approach to water management.

Proven and Reliable: With extensive testing and continuous improvement, MATpure® has evolved from its early development as MOLLIK into the globally recognized MATpure® brand, reflecting our commitment to quality and impact. The technology has demonstrated long-term reliability across industries and is particularly beneficial for applications with demanding water quality requirements. Whether preventing Legionella in tap water or optimizing desalination processes, MATpure® delivers practical, proven solutions to today's critical water management challenges.



Ready to revolutionize your water management?

Contact us today and let MATpure® optimize your operations for a smarter, greener future!

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