PURASET
WATER & METAL SOLUTIONS

ARSENIC REMOVAL AT A WATER UTILITY COMPANY, HUNGARY

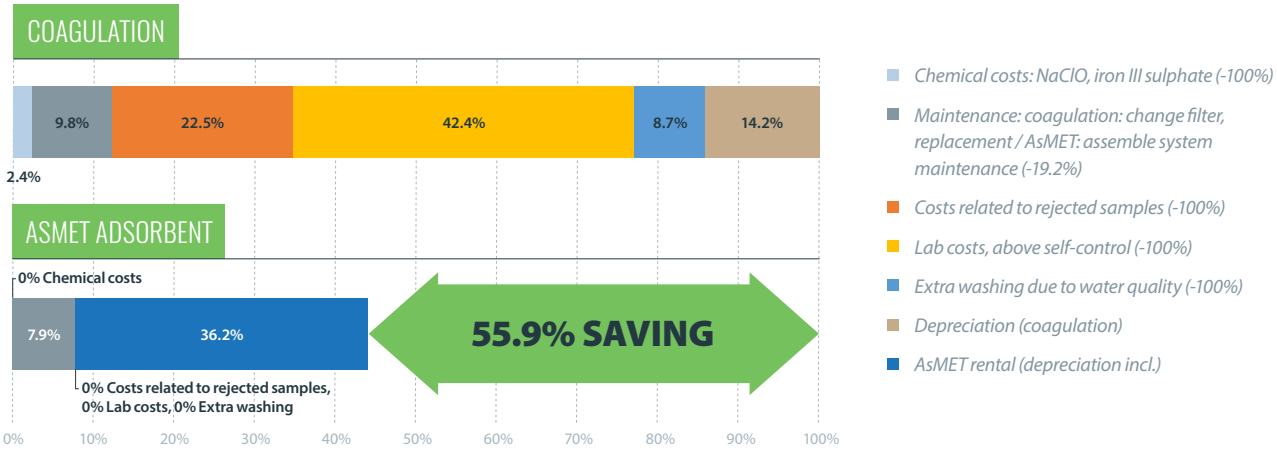
Tiszagyenda, Hungary, 2022	*drinking water treatment*
Tiszamenti Regionális Vízművek Zrt.	*arsenic removal AsMET adsorbent*
water utility operator	*220 m³/day, Qmax 16m³/hour*

Arsenic-removal AsMET technology was installed at the drinking water plant of a settlement in Hungary, which was implemented in a long-term lease scheme that supports cost-effective development investment.

- scope of the project: treatment and stabilisation of hectic and high (average 80µg/l) arsenic levels in water production wells
- capacity: 220 m³/day Qmax 16m³/hour
- before the project: the arsenic was neutralised by adding large amounts of iron oxide, but this coloured the drinking water yellowish-brown and created large amounts of arsenic sludge
- achievements: more than 55% reduce on the operating cost of stable arsenic removal using AsMET technology and stable arsenic content under the regulated limit value
- financing: financing facility was provided to support investment
- realization: in a long-term lease structure that supports cost-effective and developmental investment

COMPARISON OF THE TWO TECHNOLOGY'S OPERATING COSTS

Operating costs of the regenerable adsorbent (AsMET) based arsenic removal technology as a percentage of arsenic removal coagulation technology costs (Tiszagyenda project, Qmax. 16 m³/h, avg. 80µg/l arsenic concentration)



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