

PURIFIED WATER SYSTEM MODERNISATION AT COSMETICS MANUFACTURING FACILITY

CASE STUDY | Pharmaceutical and cosmetics, Belgium



| The client's needs

The facility operated an aging purified water installation comprising two legacy units, one of which was approximately 30 years old. The outdated infrastructure presented multiple operational issues that compromised cleanliness and compliance, posing risks to production continuity and water quality assurance.

The facility required a purified water system capable of meeting a peak demand of 1,500 l/hr and an average demand of approximately 700 l/hr. The client's original specification included two Orion 2000 units with ozone sanitisation; however, budgetary constraints resulting from the global geopolitical situation regarding tariffs required a revised approach to the project scope and procurement strategy.

The client needed a pragmatic solution that would address the most critical infrastructure risks immediately whilst preserving the option to upgrade further as budget permitted.

| The solution

Veolia worked closely with the customer to develop a flexible, phased approach to modernising their purified water infrastructure within the available budget.

Following collaborative discussions, the customer opted to purchase a single lonpro* unit as the first phase of a planned two-stage replacement programme. This initial unit replaces the oldest and most problematic legacy system — a 30-year-old unit — immediately addressing the most critical operational risks whilst managing capital expenditure.

The phased approach offer a clear pathway for future investment: once the first lonpro unit is commissioned and market conditions remain favourable, a second lonpro unit is planned to replace the remaining legacy unit. This staged implementation allows the client to modernise their purified water infrastructure progressively, minimising financial risk whilst ensuring operational continuity throughout the transition.

The lonpro system delivers reliable, high-purity purified water production in a compact, modern design, offering significant improvements in performance, reliability, and maintainability compared to the ageing legacy equipment it replaces.



Belgium

The client is an established pharmaceutical and cosmetics manufacturer with a facility that uses a purified water system supporting critical pharmaceutical manufacturing processes. As a quality-focused manufacturer, the company maintains strict compliance with pharmaceutical water standards whilst managing operational budgets within a challenging global economic environment.

Key Benefits

Modernisation of a 30-year-old purified water system

Flexible procurement approach tailored to client's budgetary constraints

Scalable solution allowing phased replacement of ageing infrastructure

The solution is currently undergoing Site Acceptance Testing (SAT), confirming system performance against the client's specifications.

Future opportunities have also been identified for the renewal of the storage and distribution infrastructure, which would complete the full modernisation of the facility's purified water system.



| Results

The first Ionpro unit is currently undergoing Site Acceptance Testing (SAT), marking a significant milestone in the modernisation of the facility's purified water infrastructure. The replacement of the 30-year-old legacy unit addresses the most critical operational risks and provides a reliable, modern purified water generation capability.

The phased approach has proven effectively delivered meaningful infrastructure improvements within budget, demonstrating Veolia's ability to develop pragmatic, client-focused solutions that balance technical requirements with commercial realities.