



Grundfos boosts energy efficiency in Istanbul residential complex

The Situation

A large residential complex in Istanbul was grappling with worsening issues in its water boosting systems and internal plumbing infrastructure. The aging fixed-speed booster sets, some over 15–16 years old, could no longer meet the demands of the residents. In some areas, makeshift fixes, including the use of wastewater pumps in place of proper boosters led to unstable water pressure, frequent service disruptions, and mounting maintenance costs.

Recognizing the unsustainable state of operations, the site management team sought a complete overhaul to restore stability and reliability. Beyond service interruptions, the systems were highly energy-intensive, directly impacting the complex's operational budget and undermining its sustainability goals. A modern, future-ready solution was needed, one that could provide consistent performance, energy savings, and long-term dependability for a high-density urban setting.

The Solution

Grundfos responded with a thorough on-site evaluation and applied its Life Cycle Cost (LCC) methodology to recommend the most efficient long-term solution. The result was the installation of the Hydro Multi-E, an integrated, variable-speed booster system equipped with frequency inverters that adapt pump output to real-time water demand. This upgrade directly tackled the root issues: stabilizing water pressure, and significantly cutting down energy consumption.

Designed for ease of use, the Hydro Multi-E featured intuitive control through the Grundfos GO mobile interface, empowering facility managers with real-time visibility and system adjustability. The choice was further reinforced by the quality of Grundfos' materials, software reliability, and the seamless coordination between Grundfos team, its local distributor, and the service network, thus ensuring a smooth transition and long-term performance confidence.

By deeply understanding our client's needs, we delivered high-efficiency Grundfos booster systems. From concept to completion, seamless collaboration ensured a solution so tailored and effective, that it became the obvious choice.

Esra Akyildiz,
Lead Key Account Manager

GRUNDFOS 

Possibility in every drop



The Outcome

The results were both immediate and transformative. The complex saw an energy savings of up to 50%. Most importantly, the pressure-related issues that had long disrupted the water supply were fully resolved. The new Hydro MULTI-E system delivered stable, demand-driven performance, ensuring reliable and consistent water pressure across the entire property.

Intelligent controls and efficient components reduced maintenance, meeting modern residential needs. Though other suppliers were considered, Grundfos' credibility, user-friendly interface, and strong project engagement proved decisive. Collaboration across teams ensured full support, giving site management lasting confidence in both the solution and partnership.

Grundfos Supplied

Hydro Multi – E 2 CRIE 5-9

Hydro Multi – E 3 CRIE 5-9



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