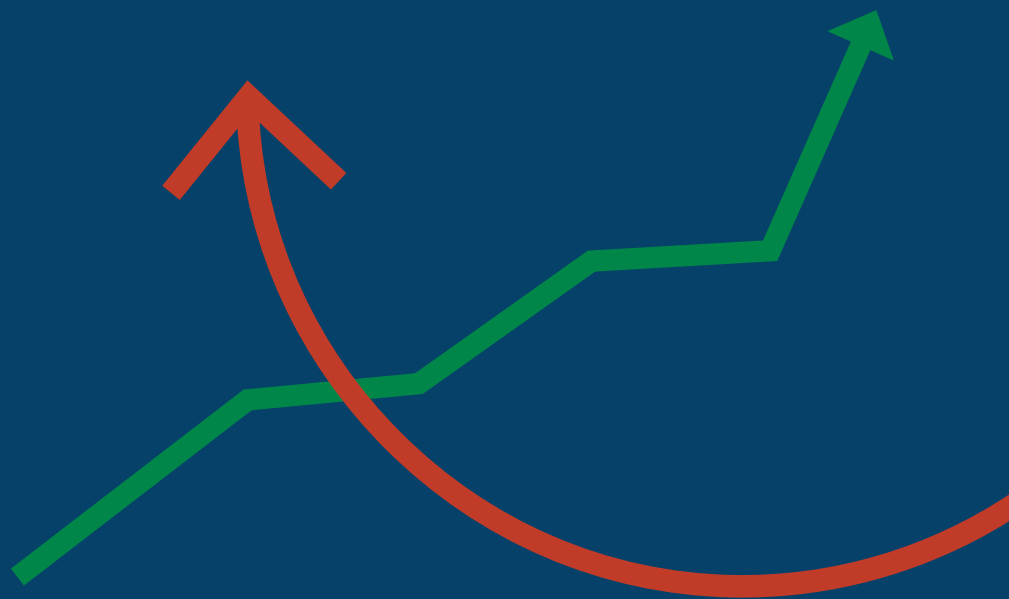


NOVEMBER 2025

Energy Efficiency

The Silent Money Maker



SOLAR**IMPULSE**
FOUNDATION





4.1.1 using intelligent water management

Between 2024 and 2025, a single water monitoring system has generated

1,000,000 litres of water saved, 447,360 kWh of energy saved, and 44 tCO₂e avoided.

At AXA's 60'000 m² headquarters in Paris, improving water and energy efficiency was both a challenge and an opportunity. Traditional systems for heating and sanitary facilities lacked monitoring or optimisation features, meaning inefficiencies – from leaks to unsolicited hot water circulation – often went unnoticed until they generated higher bills, wasted resources, and unnecessary maintenance interventions.

To address this, AXA deployed Droopole's Water Intelligence Platform, a digital monitoring and optimisation system combining IoT sensors (iLink Smart Pressure, Flow Mono, Trion Mono) with AI-driven analytics. Installed across two sanitary blocks and three boilers, the platform provided a continuous stream of real-time data on water flow, pressure, and temperature. This allowed facility managers to detect anomalies instantly, optimise distribution, and schedule targeted maintenance rather than rely on reactive interventions.

The insights proved transformative. Long periods of unsolicited hot water use were uncovered, enabling AXA to deactivate half of its water heaters. Early detection of malfunctioning equipment reduced waste and unplanned maintenance. **Together, these measures translated into nearly €239,600 over 6 months in savings across energy, water, and operations.**

The impact extended beyond economics: **447,360 kWh of energy saved has avoided the emission of 44 tCO₂e, while more than 2 million litres of drinking water were preserved.** With unplanned interventions down by 10%, staff can dedicate time to sustainability initiatives – proving how digital intelligence unlocks hidden value in existing infrastructure.



> The economic impacts

- €223,680 saved on AXA's HQ's energy bill, from reduced boiler energy consumption.
- €8,750 on municipal water bills through early detection of leaks and malfunctioning fixtures.
- €7,160 saved annually on maintenance budgets thanks to a 10% reduction in unplanned interventions.
- Over 10 years, cumulative savings exceed €4.7 million across energy, water, and maintenance.
- The ROI for this project is 1.17%, while the payback time is about 12 months.



> The environmental & social impacts

- 447,360 kWh of energy avoided, equivalent to the annual electricity use of 220 French households.
- A massive 2 million litres of drinking water were saved over the project's lifespan, avoiding waste and easing pressure on municipal supplies.
- 44 tonnes of CO₂ were avoided throughout the project, strengthening AXA's decarbonisation pathway.
- Targeted awareness campaigns using real data could unlock a further 15% reduction in water and energy use, while educating employees about resource efficiency.

KEY DRIVERS FOR SCALABILITY

The AXA pilot shows that digital water management can unlock major savings without disrupting existing operations, a model that can be replicated across large portfolios if certain conditions are in place:

- Retrofit-friendly: because the technology can be added to existing sanitary and heating systems without disruptive works, it can scale rapidly across large, occupied building portfolios. Validated at HQ, this model can now be replicated across AXA's 3,000 agencies in France.
- Access to facility managers: knowledge of local water infrastructure, existing challenges, and operational specifics will enable accurate scoping, seamless installation, and effective utilisation of this type of solutions.
- Standardised solution package: the solution is applicable across large office, retail, and institutional buildings worldwide.
- With predefined and repeatable monitoring kits and processes, each new deployment requires minimal customisation. This enables large-scale replication at lower cost and ensures consistent performance across diverse building types.
- Energy prices: because rising and volatile energy prices increase the financial value of avoided consumption (= efficiency), the business case for adopting intelligent water management strengthens over time, accelerating uptake across regions.
- Certifications: the solution ensures compliance with ACS drinking water certification related to potable water in buildings in France. It also complies with similar standards across the UK and the US.



The opinions and views expressed in this publication are solely those of the authors. The information and data presented in the case studies were provided by the respective companies and collaborators involved.

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