



How Grundfos Distributed Pumping system powered the future of a south Indian IT park

The Situation

As Coimbatore rapidly positions itself as Tamil Nadu's next major IT hub, an IT Park stands as a testament to the progressive vision of embracing sustainable and intelligent infrastructure solutions. This park is owned by a popular business group in the region, which has been a long-standing partner of Grundfos, and their forward-looking approach and readiness to embrace demand-driven technologies have reinforced a shared commitment to innovation, energy efficiency, and sustainable development.

Following the success of a Distributed Pumping Solution (DiPu) deployed at the partner's other business facility, they were eager to replicate the energy-saving benefits in their new IT campus. The DiPu system, which decentralizes chilled water pumping by placing pumps at individual Air Handling Units (AHUs) rather than at a central plant, offered the ideal combination of precise control, reduced energy consumption, and simplified operations.

The Solution

Initially, they had planned to implement a conventional primary-variable secondary pumping system for their new IT Park. Grundfos identified potential performance limitations in that system, particularly recurring delta T challenges, previously observed during our engagement at their other facility. Recognizing the opportunity for a more efficient approach, Grundfos proposed the Distributed Pumping Solution DiPu as a smarter, energy-optimized alternative.

The DiPu architecture, which relocates pumping responsibilities from a central plant to the individual air handling units (AHUs), directly mitigates temperature differential inefficiencies while significantly enhancing overall system performance. Aligned well with the group's vision for a sustainable, high-performance facility, DiPu significantly reduced the HVAC energy consumption compared to traditional systems. Beyond energy savings, the solution also simplified the installation and commissioning process, reducing project complexity and bringing intelligent clarity to an otherwise intricate system.

Through focused technical discussions, we demonstrated DiPu's energy-saving benefits and secured support from both the consultant and the client.

Sreenath K.
Associate Sales Engineer, Grundfos India

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Possibility in every drop



30%
Annual energy savings

Reduced 25%
Operational complexity

Reduced by 9 tons
Annual carbon emission

The Outcome

The successful implementation of the Distributed Pumping Solution DiPu at this Coimbatore IT Park delivered on Grundfos' commitment to approximately 30% energy savings in HVAC consumption, a result that mirrored the performance of our previous installation at their other facility. This measurable efficiency gain was instrumental in attracting a major occupant: India's one of the topmost IT giants, which secured the facility for its Coimbatore operations after a comprehensive evaluation of the system's sustainability and performance credentials.

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SMO CONTROL PANEL



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