

iPUMPNET aims to transform water utilities

iPUMPNET, an IIoT-enabled digital solution developed by Pump Academy Private Limited, was unveiled at the 26th edition of the Bengaluru Tech Summit.

Pump Academy Private Limited welcomes 2024 with tremendous enthusiasm and excitement. Our journey in the past year was exceptional and rewarding, marked by the trust placed in us by our esteemed clients. With an unwavering commitment to making a significant impact on the operation and maintenance of pumping stations - the vital water infrastructure - we have introduced iPUMPNET, a technology-based solution designed to enhance energy efficiency and reduce carbon footprints, towards environmentally responsible operations.

I extend my sincere appreciation and gratitude to all our clients, associates, employees, and everyone who contributed to our growth. We eagerly anticipate your continued support and collaboration.

A heartfelt **Thank You** to all.



Anil Sethi
Chairman



Bengaluru, Karnataka Jan 8, 2024 ([IssueWire.com](https://www.issuewire.com)) - iPUMPNET, empowers water utilities and industries with advanced technology-driven solutions. The product provides efficiency, cost-effectiveness, and sustainability.

The key features of iPUMPNET include real-time monitoring, predictive maintenance capabilities, energy efficiency insights, and seamless integration. These aspects make it an invaluable tool for water utilities and industries seeking to enhance their operations while minimising environmental impact through reduced energy consumption and carbon footprint.

Implementing iPUMPNET in pumping stations could yield significant benefits, such as **improving operational efficiency by up to 35%, reducing energy consumption by up to 25%, and extending the lifespan of pumping systems by up to 50%**. Swift detection of faults, remote control, and automation capabilities also contribute to reducing unscheduled breakdowns and enhancing operational efficiency.

The platform of iPUMPNET gathers and analyses data, providing valuable insights that support informed decision-making and drive operational improvements. Estimates suggest that implementing iPUMPNET across all water pumping stations in India could **save almost 5 GW of energy per annum** and reduce carbon emissions by 3.06 million tonnes annually.

The iPUMPNET which empowers water utilities and industries with advanced technology-driven solutions was also unveiled as the leading water technology solution. The innovative product helps them to operate their pumping systems more efficiently, cost-effectively, and sustainably. iPUMPNET provides a transformative solution that harnesses the potential of digital technology to optimize pumping systems like never before. Its real-time monitoring, predictive maintenance capabilities, energy efficiency insights, and seamless integration make it an invaluable tool for water utilities and industries seeking to enhance their operations while reducing environmental impact by minimizing energy consumption and carbon footprint.

Some of the significant benefits of implementing iPUMPNET in pumping stations could be:

- It can improve the operational efficiency of pumping stations upto 35%, reduce energy consumption by upto 25%, reduce the life cycle cost (LCC) by up upto 45%, and extend the lifespan of pumping systems by upto 50%
- It is equipped with features that swiftly detect faults or anomalies, allowing for prompt troubleshooting and resolution, thus practically eliminating unscheduled breakdowns and maintenance.
- It allows for remote control and automation of pumping station operations, reducing the need for physical intervention and enhancing operational efficiency.
- The robust platform of iPUMPNET gathers and analyzes data, providing valuable insights that can support informed decision-making and drive operational improvements.
- It helps water utilities optimize energy usage in pumping operations, estimated that almost 5 GW of energy could be saved per annum if iPUMPNET is implemented across all water pumping stations in India.
- Through improved operational efficiency and energy optimization, iPUMPNET contributes to reduced environmental impact, significantly reducing the carbon footprints of pumping stations, estimated to save almost 3.06 million tonnes of carbon emission annually, if implemented across all water pumping stations in India
- The return on investment for optimization will happen normally within a year.

In essence, iPUMPNET is a powerful tool that empowers water utilities with advanced technology-driven solutions, enabling them to operate more efficiently, cost-effectively, and sustainably. By harnessing the capabilities of the Industrial Internet of Things (IIoT), Artificial Intelligence (AI), and Data Analytics, iPUMPNET empowers industries to achieve unprecedented levels of efficiency, reliability, and sustainability in their operations.



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