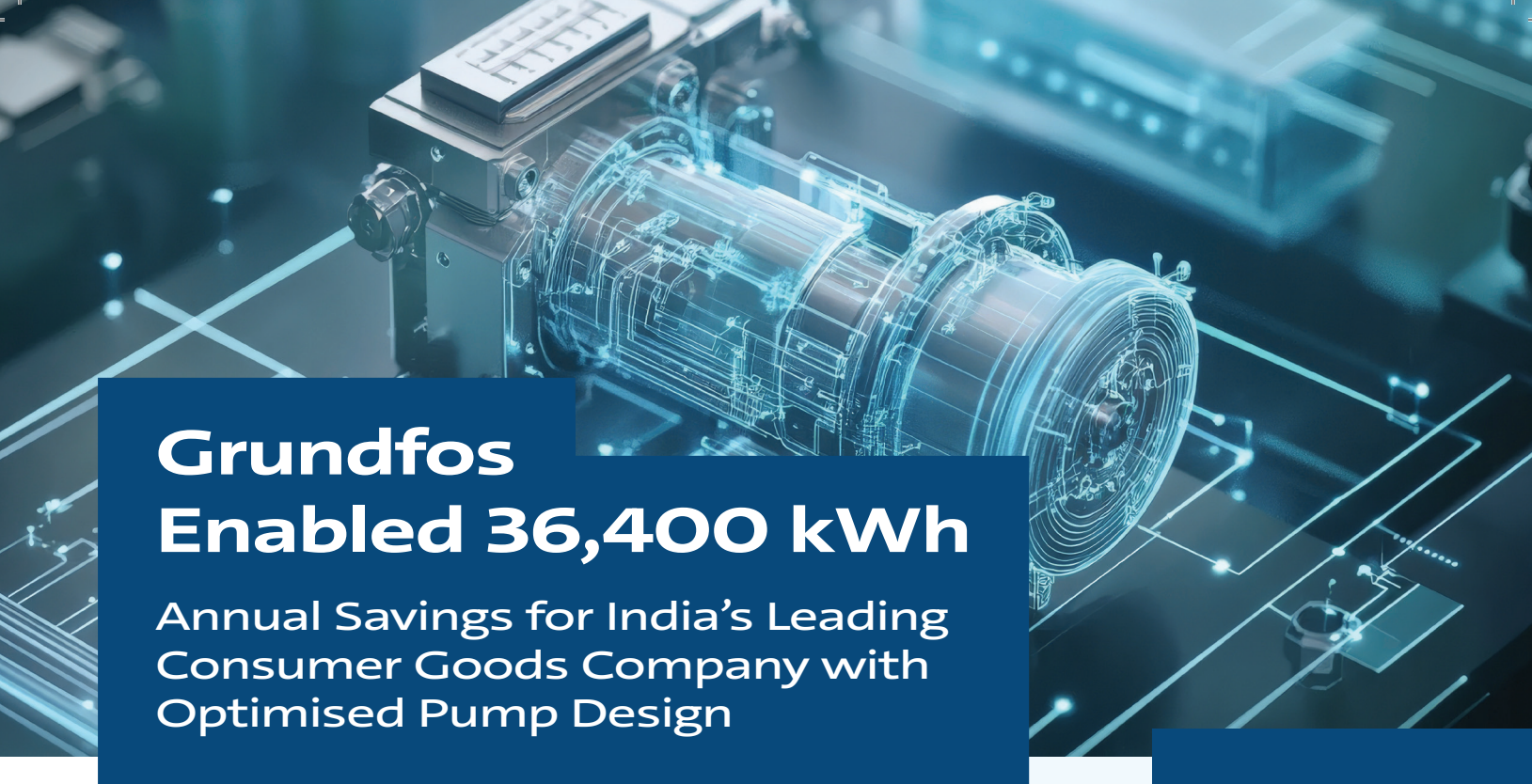




Grundfos Enabled 36,400 kWh

Annual Savings for India's Leading Consumer Goods Company with Optimised Pump Design

About the Customer

The customer is one of India's leading fast-moving consumer goods companies and has been a pioneer in delivering high-quality products. Having over 50 brands across 16 categories such as personal care, home care, and food and beverages, the customer is also deeply committed to sustainability, integrating environmentally conscious practices into its operations and product innovations.

The Situation

The client faced operational inefficiencies using a competitor's 45 kW borewell pump for groundwater supply which was over-designed for its head, causing it to operate in the "run-out" zone (the point on a pump performance curve where the maximum flow rate is achieved).

The Challenge

The pump was operating at a brake kilowatt (BkW) of 47 kW at the operating duty point, leading to the motor being overloaded. This resulted in constant motor winding failures, significantly impacting operational reliability.

The Solution

Grundfos conducted an in-depth analysis of the groundwater level to determine the appropriate head design. Based on these findings, they recommended the installation of a 37 kW SP95-9 pump set.

Once installed, this optimised pump set reduced power consumption at the actual flow rate to 34 kWh, achieving an average power savings of 13 kWh.

The Outcome

The customer experienced annual energy savings of 36,400 kWh, translating into a cost saving of INR 2.9 lakhs per year. With a better-designed and more efficient pump set, the customer also observed reduced operating expenses.

The pump installed on recommendation by Grundfos has been running seamlessly for over a year, with no breakdowns reported.

Key Highlights



Power Efficiency:
Annual savings of
36,400 kWh



Cost Benefits:
INR 2.9 lakhs saved
per annum



Reliability:
Trouble-free operation
for over a year