Sumiyoshi Engineering Pte Ltd
住吉エンジニアリング株式会社

A Brand of Sumiyoshi Engineering Pte Ltd

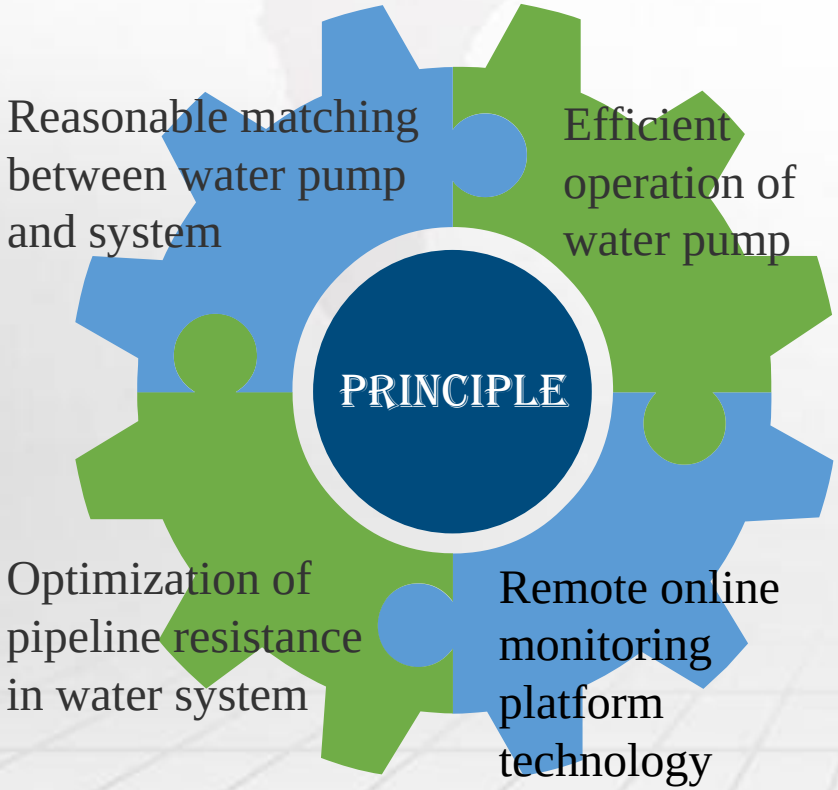
Energy Division

ENERGY-SAVING SOLUTION FOR PUMP

Leading In Motor Driving System

Technology Principle

Current situation in the circulating water system - **Low Efficiency, High Energy Consumption**



❑ Analysis

Find out the cause of high energy consumption from the whole circulating water system. Points such as circulating water pump set, pipe network, cooling tower, and water equipment etc..

❑ Solution

Through the rectification of adverse factors in the system and the principle of the best operating conditions, customize “High-Efficiency Energy-Saving Water Pump" way to the circulating water system for energy-saving transformation.

❑ Monitoring

The remote online monitoring system is adopted to continuously monitor the operation of the water system, maintain the efficient operation of the energy-saving water pump, and achieve the best energy saving effect.

Technical Characters

1: Design and manufacturing technology of high efficiency and energy saving water pump

2: Site survey & data analysis

3: Pump system optimization technology

4: Online monitoring system

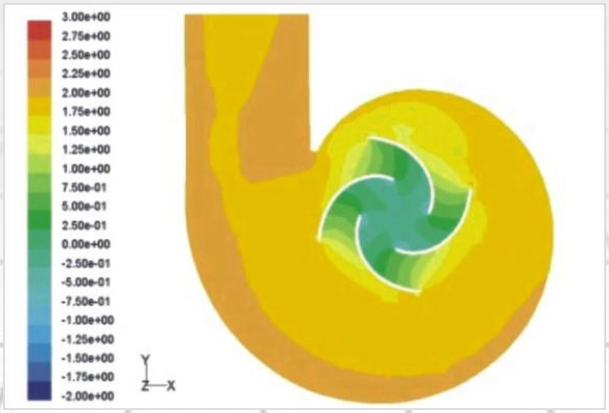
Core: High Efficiency & Energy Saving Water Pump

According to the actual operation requirements of customers, the high-efficiency energy-saving water pump is customized to ensure the high-efficiency operation, combining the theory of Ternary Flow and CFD (Computational Fluid Dynamics).

A. The operation efficiency of the energy-saving water pump is high, up to more than 90%;

B. High material configuration, reasonable structure and long service life of energy-saving water pump;

C. The energy-saving water pump operates well with low vibration and noise.



Benefit

Energy Saving Rate 15%-70%

Lifetime of equipment extend 30%-40%

Maintenance cost save 20%-40%

Maintenance reduce 20%-30%

Improve working environment

Save Electricity Power; Save Money;

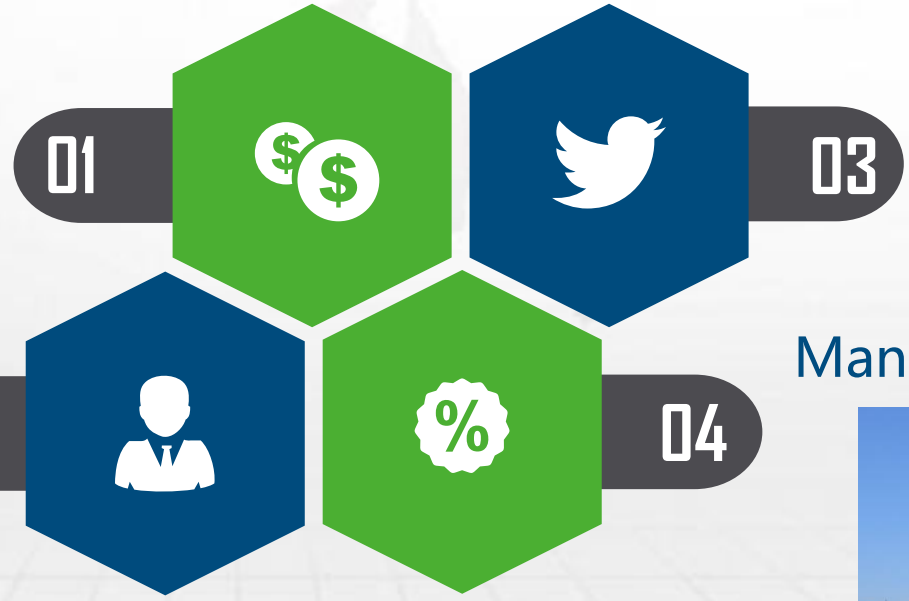
Reduce CO2 Emission.

Application

Building

Steel Industrial

Water Industrial



Petrochemical

Manufacturing / Pharmacies

Case

Steel Plant
Wastewater plant, cooling water system, total 78 units water pump.
Optimize water system and replace High efficient energy saving water pump.

Annual Saving Rate: 21.19% One site achieved 49%.
Annual power saved 28.438 million KWH

Coking Plant
Circulating water system, total 24 units water pump.
Optimize water system and replace High efficient energy saving water pump.

Annual Saving Rate: 41%
Annual power saved 17.39 million KWH

City Water Plant
Makeup pump station, total 2 units water pump.
Optimize water system and replace High efficient energy saving water pump.

Annual Saving Rate: 33.7%
Annual power saved 0.819 million KWH

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