



ITT

Goulds Pumps

FALL 05

PumpLines

INNOVATION...TECHNOLOGY...LEADERSHIP

PumpSmart® Improving Malaysian Water Supply

The Sibu Water Board (SWB) is the first Waterworks plant in Malaysia to receive ISO 9001 certification. Its mission is to provide safe, reliable and competitively priced, quality water supply and service to its customers, co-workers and shareholders. SWB has continuously and diligently looked at options to improve its operations.

An automatic demand regulation pumping system in a plant can have a substantial effect on its bottom line. Oversized pumps and fixed process set-points burn unnecessary energy. Most plant designs in the past selected larger pumps and valves to allow for anticipated peak demands or future expansions. These selections, however, were made without regard to the

total life cycle costs of the system.

In 2003, as a result of strong promotion by the local distributor, Group Engineers Malaysia Sdn Bhd (GEM), ITT had the opportunity to work with the SWB team to provide the ultimate solution to their pump system...PumpSmart®. PumpSmart would give SWB an Automatic Demand Regulation Pumping System, bringing them closer to the mission.

The SWB team conducted numerous site and system studies, followed by discussions and seminars to understand more in-depth how the proposed PumpSmart Automatic Demand Regulating system would work. The proposed system allows the SWB team to trim the performance of the pumps electronically instead of

the conventional way of physically trimming the impeller. In addition, by utilizing the Multi-Variable Control function embedded within the PumpSmart drives, the SWB team was able to use both flow and pressure signals to establish a set point that optimized system efficiency.

This enabled the team to realize energy saving benefits up to 70% as a result of the Automatic Demand Regulating system.

The PumpSmart system also promised to reduce maintenance costs and improve system reliability. For example, PumpSmart's logic can detect main pipe breakage and control, save water and energy, improve work environment (noise and safety), improve utility metrics, reduce energy

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A new look...

You will notice that our PumpLines newsletter now sports a new graphic look. We have timed our metamorphosis with the changes initiated at ITT.

As you can see the "Industries" has been dropped from our signature. After careful consideration, it was decided to have a common graphic design structure across the corporation. The ITT brand and the corporate logo are now simpler and bolder in size and color. Black replaces gray. A deeper gold adorns the logo. It's a robust look to match the products we engineer... Engineered for Life.

All ITT units will be transitioning to the new graphic guidelines over the coming months.

Watch for the new look of ITT and Goulds Pumps.



Salim Water treatment plant in Malaysia. Tag No. 5 and 6 (Goulds VIT) - zone 60.

consumption, and enhance controllability. SWB team decided to include the new PumpSmart system in its operations.

ITT was selected to supply three PumpSmart PS200 units for the first phase of the plant improvement process.

With these initial PumpSmart units' proven performance in energy savings, the SWB team is considering additional PumpSmart units.

Each PumpSmart has shown a savings of Euro 1,700 in one

Engineered for life

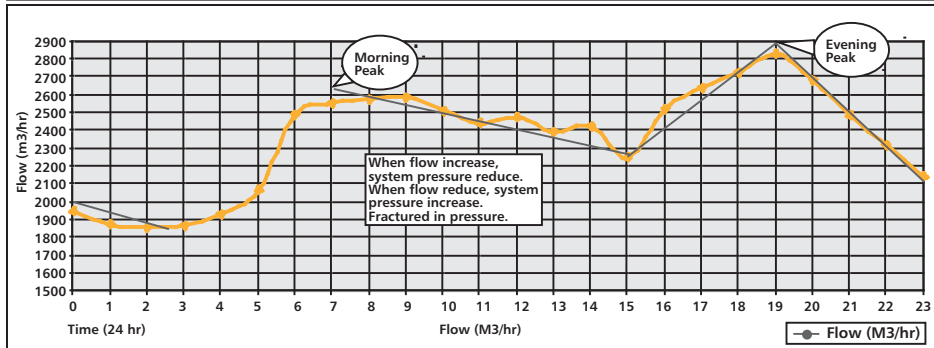
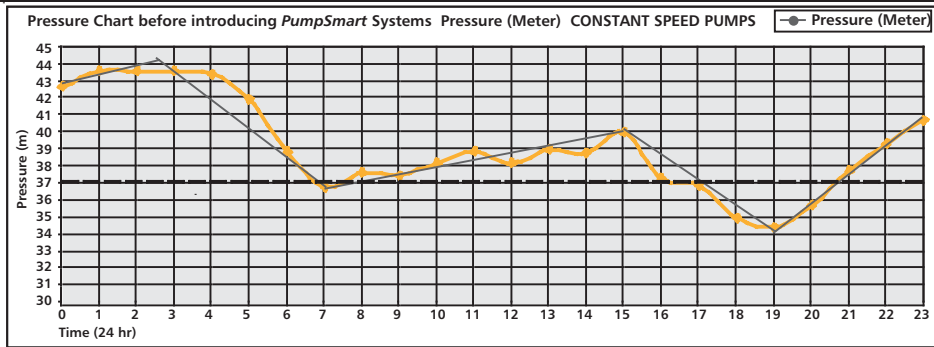
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PumpSmart Improving Indonesian Water Supply Continued

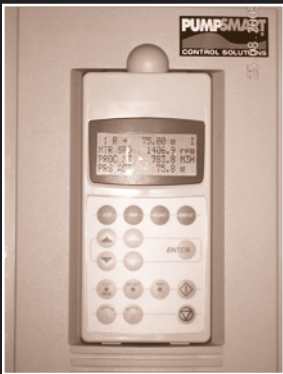
month of operation. The SWB team is pleased that PumpSmart has reduced energy consumption, and also controls and maintains the overall system. PumpSmart PS200 was put on a lead-lag operation for Tag 5 & 6 which helps SWB regulate the flow and pressure simultaneously. With this, customers in rural areas and the city have abundant water supply even during peak periods.

SWB team is totally convinced and confident that PumpSmart has all the capabilities to improve their pumping systems to make them more reliable and more effective.

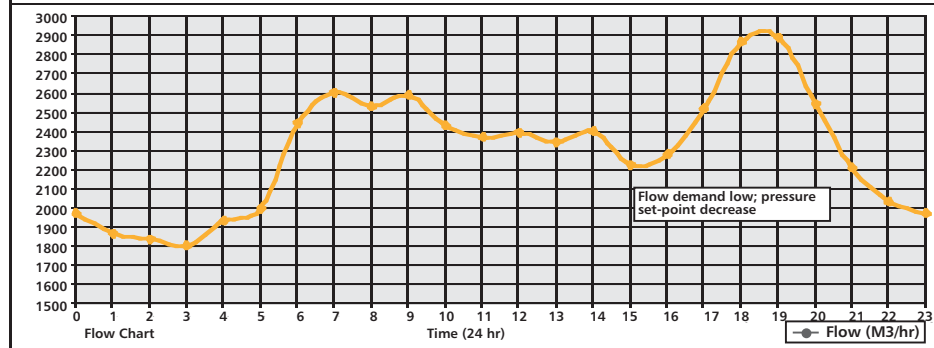
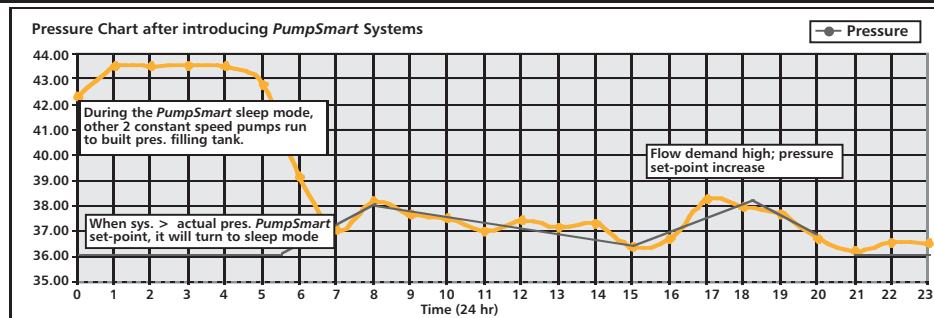
The Goulds pumps and PumpSmart systems were commissioned in August 2005 in a ceremony which was attended by Board members, officials, consultants, contractors, and other end-users.



Before introducing PumpSmart: During high peaks, the pressure output decreases result in not meeting the customer's pressure needs. During low peaks, the pressure is over-demand, resulting in high power consumption as well as increased wear and tear of pump, valve, and system.



PumpSmart remote read-out.



After introducing PumpSmart: During high peaks, the pressure output is automatically adjusted based upon flow demand. This compensates friction losses in the piping system, thus saving more energy by decreasing the process set-point during low peaks.



Two PumpSmart PS200 controllers.



An official handover of PumpSmart systems with many participants from other SWB companies, Board members, officials, contractors, consultants and end-users attended and witnessed the function of the PumpSmart systems.