APAC Water Automation And Instrumentation - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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Report description:

The APAC Water Automation And Instrumentation Market is expected to register a CAGR of 8.10% during the forecast period.

Key Highlights
- Managing operational costs emerged as one of the biggest challenges of the water industry stakeholders, as the governments are imposing regulations, along with depletion of potable water resources. Expenses relating to labor and energy constitute the largest share in OPEX for water utilities.
- The increasing health concerns for preventing water-borne diseases among consumers augmented the consumption of bottled drinking water. Furthermore, this trend led to increased infrastructure development investments supporting the water automation market.
- There has been an increase in decentralized control systems, with the rise in the number of outstations and varied qualities of water in a region. Automation solutions, such as PLC, help control pump station motor contactors, stirrer motors, and distributed valves and measure the pressure transmitter of the water.
- Technological innovations include taking advantage of previously unusable supplies through improved water desalination and increased industrial efficiency through new water reclaiming technologies. A new breed of water tech automation solutions, especially the Internet of Things (IoT)-based control and monitoring systems combined with SCADA software for water management, can be explored to help solve specific issues.
- In Australia, a need for a SCADA system arises from reducing operational risks and offering cost efficiencies. SCADA system technologies provide utilities with open standards that allow unlimited connections to any database (including SQL), programmable logic controllers (PLC), device, and enterprise system.

APAC Water Automation & Instrumentation Market Trends

Demand from Food and Beverage Industry to Witness a Significant Growth Rate

- The production of food and beverages requires a large amount of water, and water quality is crucial to product quality and operational reliability as water is one of the essential raw materials in the food and beverage processing industry. Implementing water and wastewater automation in the food and beverage industry can save significant revenues, eliminate errors and waste, enhance efficiency and productivity, and expand profit margins.
- Further, various companies in the Food and beverage industry are deploying various automation and instrumentation methods.
- Moreover, instrumentation technology such as liquid analyzer, pressure measurement system, flow measurement system is being deployed in the food and beverage industry to reduce the volume of wastewater during the process by using the instrumentation as mentioned earlier technology when discharging products from the lines.
- Further, Raw water, process water, or wastewater can be efficiently monitored with modular, space-saving analysis panels. This simplifies daily process integration and operation in the food and beverage industries.

China to Account for Significant Market Share

- Water scarcity is one of the serious issues faced in north China. Accordingly, the Chinese government decided to implement the South-to-North Water Diversion project to transfer water from the water-rich south China to China's northern region. The South-to-North Water Diversion project is one of the largest water diversion projects in the world, involving significant long-distance and inter-basin water transfer features.
- Moreover, China's internal migration of population to cities is causing wastewater treatment plant numbers to multiply to meet the demand. At the beginning of the millennium, China had around 500 municipal wastewater treatment plants, while now, numbers are above 4,000.
- Moreover, multiple case studies have demonstrated that an advanced model-based control system may assist wastewater treatment plants in meeting more stringent effluent permits and lead to improvements in process stability and energy savings. Hence, China has begun to reap the benefits of installing and operating automatic process control systems in wastewater treatment plants in recent years.
- Three new sewage treatment plants and 300 sewage intercepting wells will be built in Chaonan district, Shantou city, to comply with the new environmental regulations. In 2020, Rotork installed over 700 CK modular electric actuators at the Shantou wastewater treatment in Guangdong, southern China facilities, enabling sewage treatment. The CK range of actuators is ideal for valves in the water industry, and the modular nature of the actuators allows them to be configured to meet the needs of many different applications.

APAC Water Automation & Instrumentation Industry Overview

The major players include ABB Group, Siemens AG, Schneider Electric SE, GE Corporation, Rockwell Automation Inc., Mitsubishi Motors Corporation, Yokogawa Electric Corporation, etc. As the market is fragmented, there is major competition between the major players. Therefore, the market concentration is expected to be low.

- November 2020 - PUB, Singapore's National Water Agency, issued ABB a contract for a complete site-wide plant monitoring and control system for the Tuas Water Reclamation Plant valued at USD 30 million.

- October 2020 - ENEXIO Water Technologies has agreed to design primary treatment and sidestream treatment for retrofitting an existing Indian wastewater treatment plant. The study will develop a show-case plant to study how wastewater treatment can be adapted to local conditions so that the water can be reused and is suitable for groundwater recharge.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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