



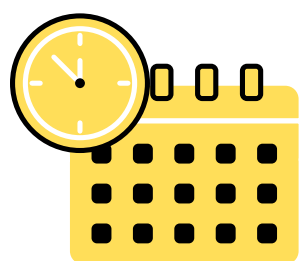
THE MALAYSIAN WATER ASSOCIATION

MWA WEBINAR 2/2022



DIGITAL TRANSFORMATION ENABLES SMART WATER

Digital Technology and Automation to Meet Today's Business Challenges



10 March 2022 (Thursday)
10:00 am - 12:30 pm (KUL)



OPENING REMARKS BY MWA PRESIDENT

**Dr. Ir. Ts. Hj.
Mohmad Asari
bin Daud**

MODERATOR



Gary Wyeth
Senior Consultant
Isle Utilities

SPEAKER 1

TOPIC: THE CONNECTED WATER PLANT



Abhay Dubey
Regional Industry Manager
Asia Pacific
Rockwell Automation

SPEAKER 2

TOPIC: DIGITAL TRANSFORMATION IN THE WATER INDUSTRY



Li Weishi
Senior Solution Consultant, SEA
Rockwell Automation

SPEAKER 3

TOPIC: SECURING CRITICAL INFRASTRUCTURE IN THE WATER INDUSTRY



Ng Kim Soon
NSS Business Leader, SEA
Rockwell Automation

INTRODUCTION

Water operators today face numerous challenges resulting from environmental factors, increasing demand, non-revenue water (NRW), as well as costs due to increased energy/electricity prices and overwhelming expenses of repair works and replacements. However, technology advancements have made possible the development of smart solutions that water operators can leverage to counter these concerns.

Built on three foundational pillars and supported throughout with advanced security, our Smart Water solution offers an innovative, effective methods for addressing the non-revenue water (NRW) and other issues you face today and into the future.

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TOPIC: THE CONNECTED WATER PLANT

Speaker 1: Abhay Dubey, Regional Industry Manager, Asia Pacific
Rockwell Automation

Summary:

The Water Industry is Evolving. Raised consumer awareness and stakeholder operational demands over this most precious resource are guiding utilities to build smarter, more sustainable infrastructure. Many utilities are leveraging advancements in technology to help design, operate, and maintain today's smart water plant.

According to the United Nations, "52 percent of the world's projected 9.7 billion people will live in water-stressed regions by 2050". The need to act and ensure that water is cared for has never been as important as it is now. The strain that the pandemic has put on the environmental sector, and the looming and continuous threat of water scarcity, means that we cannot take water for granted. So the water industry is facing many challenges such as accelerating water supply and conservation, improve operational efficiency, and integrate new technology in to aging infrastructure.

There are several business drivers that makes the smart or connected plant a business imperative. Integrated control and information solutions from Rockwell Automation® – like the PlantPax™ distributed control system brings secure access to the data contained in intelligent assets and then adding context, which creates actionable information about what is really happening throughout the operation. Rockwell Automation has almost all the required proven applications in the water industry to provide the throughput, process quality, asset health and energy efficiency.

To summarize, Rockwell Automation provides a holistic automated solution and Digital transformation that turns data into business decisions.



TOPIC: DIGITAL TRANSFORMATION IN THE WATER INDUSTRY

Speaker 2: Li Weishi
Senior Solution Consultant, SEA,
Rockwell Automation

Summary:

Digital Transformation starts with connecting disparate devices, applications, and data sources across your enterprise, providing a single source to collect, aggregate, and enable secure access to industrial operations data.

The Water Industry is set to gain better operational visibility and control by harnessing the power of data. Knowledge driven operations expand human possibilities by providing real-time, forward-looking analysis for decision making. Prior to the pandemic, many companies were eager to start the adoption of industry 4.0 but efforts were somewhat lost in transition. Digitalization is emerging as the real option to enable manufacturing and supply chains to attain strength and adapt to the new norm.

Many utilities today are looking to implement digital technologies that:

- Capture and analyze data in real-time
- Contextualize data into insights for relevant operators and manager
- Enable predictive and prescriptive maintenance to reduce costs

3 key take aways

- Challenges faced by the water industry
- Smart Water Solutions to improve reliability
- Preparing your water & wastewater operations for the future



TOPIC: SECURING CRITICAL INFRASTRUCTURE IN THE WATER INDUSTRY

Speaker 3: Ng Kim Soon, NSS Business Leader,
SEA, Rockwell Automation

Summary:

There's a lot at stake when it comes to cybersecurity. This session will discuss considerations for evolving your security program and the path forward. We will set the stage with the security challenges facing water utilities including:

- Risk of cyberattack, compromising operations, public health and safety and critical infrastructure.
- Threats to industrial control systems causing unscheduled downtime, product quality issues and ultimately reduce productivity.
- Critical strategies to consider when developing an effective security program

3 key take aways

1. A proactive approach to industrial cybersecurity
2. Importance of having a threat detection system
3. OT cyber resilience