

Smart Automation for Water Supply and DMA Management

Manila Water Total Solutions is the innovation arm that supports the Manila Water Enterprise through sustainable and innovative solutions









Smart Water Metering Solutions IoT devices + Water Managment Systems + Mobile Application What does the "new normal" look like for water utility companies?

Remote operations

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Need to operate anywhere

Resilient operations

Need to ensure continuous operations in the face of uncertainty and changing business conditions.

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REMOTE AND RESILIENT WATER UTILITY OPERATIONS IN THE "NEW NORMAL"

Solution

AMI : ADVANCE METERING INFRASTRUCTURE Advance Metering Infrastructure (AMI) is an integrated system of wireless smart water meters and sensors through a communication network to ensure remote and resilient operations in this new normal.

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PacketNet | Network Coverage



Existing Communication Technology





Long Range Wireless Area Network



LoRa Key Features



Packetworx | LoRaWAN

PacketNet National Coverage



200 Gateways Currently Deployed Mostly around Metro Manila

Expanding to Key Cities in Visayas and Mindanao (Cebu, CDO and Davao)

> Packetworx Network Coverage

Metro Manila Network Coverage



Gateways are mostly deployed in Metro Manila and expanding to greater Mega Manila and Calabarzon (Laguna, Batangas, Cavite, Rizal, Bulacan)

Metro Manila Network Coverage



250 Gateways by end of 2020 Covering 90% of Metro Manila



Outdoor Gateway Installations



Indoor Gateway Installations

Advantages of LORA///AN

LoRaWAN: Long Range Wireless Area Network

+ Low Power Meters

LoRa Water Meters are low power with battery life reaching up to 10 years

+ Long Range Connectivity

LoRaWAN gateways or base stations are long range that can reach 15 to 20 kms

+ Low Subscription Cost

Subscription cost is extremely low for mass adoption

packetwerx TELCO FOR THINGS

We Provide End to End Solutions





Smart Water Meter

No need for manual checking of water consumption! This meter sends water consumption and instant alarm notifications on leakages, bursts and water theft.



IoT Sensors

Take control of your water utility operations with sensors to monitor pressure, water flow, water level and electric consumption of deep wells and booster pumps.



lg prime⁺NAV

A data Visualization dashboard you can navigate with graphs and tables of water consumption accessible using a computer or smartphone wherever you are.



Mobile Application

Designed for subscribers to view current billing, be notified on outstanding balances and pay online. The application also gives instant alerts for leakages and burst pipes.

AMI : ADVANCE METERING INFRASTRUCTURE











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LoRa Water Meter

Gateway Antennas

Internet / Cloud

Water Management System

Mobile Application

Smart Water Meters





Mechanical (Single or Multijet)



Ultrasonic (Basic)



Ultrasonic (Valve Control)



Ultrasonic (Large Meters)

Smart Metering Projects and Solutions







Mobile Application

Schematic Diagram



Acquifer

Ultrasonic Smart Meter Sample Installation









End to end Solutions Installations



1 Reservoir Level Sensor



2 On/off switch for Deep Well



3 Line Meter Flow Sensing









Perfect Timing



Time to Innovate

The new normal has accelerated the adoption to innovative solutions and processes to cope with the current situation.

Water Shortages

Scarcity of water supply is more prevalent now than ever.

Technology

The technology is available.

- 1 Water Utility Companies
- 2 Real Estate Properties



Target Market



Birth and continuous expansion

Ig petro prime+ will continue to expand as well in environment monitoring and electric metering solutions starting in 2019 to 2025.





Smart Electric Metering Solutions



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Smart Environment Monitoring Solutions





www.lgpetroprime.com



Contact Us

