

SMART WATER MANAGEMENT USING LoRaWAN® IN INDIA

- Currently, India ranks 133 out of 180 nations for its water availability and 120 out of 122 nations for its water quality. The overall population, which is expected to increase to 1.6 billion by year 2050, also contributes to the water crisis in India.
- Smart AMI water meters provide end-to-end automated mechanisms including wireless communication, secure data transfer, and real-time analytics.
- A city located in the central part of India selected 41 sites within city limits where they replaced existing water meters or installed new meters equipped with LoRaWAN® enabled Smart AMI Ultrasonic Water Meters.
- The newly installed water meters allowed the following measures to increase efficiency:
 - Proper water distribution throughout the city at different locations
 - Planning for water availability during high consumption periods
 - Correct billing management
 - Quick resolution of installation issues



Conclusion: Solutions that require long range and low data communication benefit most from LoRaWAN. It is the best-fit technology and has been demonstrated successfully in the case of this smart water meter proof of concept. Collaboration between several parties is required for a successful deployment and can be achieved with the right expertise and technology.