

WESSEX WATER EFFECTIVELY TARGETS NON-REVENUE WATER WITH HONEYWELL SMART METERS

Honeywell's advanced smart metering solutions help reduce non-revenue water and improve the financial performance of a leading water utility provider in South West England.

Case Study



Honeywell

TARGETING NON-REVENUE WATER

Wessex Water, a regional water supply and sewerage utility company in South West England, provide clean, fresh drinking water to more than 2.8 million people every day. Maintaining this essential service sustainably and cost-effectively is one of Wessex Water's top priorities. The water utility company recognised that creating sustainable change within its community and positively impacting the environment, all while maintaining the high standard with which it delivers water, started with reducing non-revenue water.

Non-revenue water (NRW) is water that's lost through leaks, theft or backflow before it reaches the customer. Not only is NRW a waste of our world's most precious resource, but high levels of NRW are detrimental to the financial viability of water utilities and can affect the quality of the water itself. Measuring, monitoring and managing NRW with utilities solutions can effectively enhance overall financial performance and improve the quality of water delivered.

THE V200 AND V210 HYBRID METERS

Wessex Water evaluated various solutions to target and help reduce NRW before selecting smart meters as the right devices for the job. Looking for advanced meter reading (AMR) units that are fully integrated, tamperproof and automate the process of metering reading for accurate data logging, the water utility partnered with Honeywell Smart Energy because of their proven, end-to-end smart metering solutions.



To address Wessex Water's needs, Honeywell Smart Energy proposed its innovative V200 and V210 hybrid meters for use. These meters support open-standard, one-way MBus (EN13757-4) radio communication, AMR and data logging within one device. With these meters, Wessex Water began to effectively manage water resources, abnormal flows and unconventional performance across their network. Features and benefits of the V200 and V210 hybrid water meters include:

- Integrated 868MHz RF MBus, EN13757-4 (OMS) one-way radio communication makes data easily adaptable for every system provider.
- Extended radio frequency reading range, with customisable transmission interval of 12.5 seconds as standard for highly accurate and reliable data.
- Output pulse wire for external data logging activity supports non-revenue water measurement.
- Near-field communication interface smartphone app opens up a library of further value with smart data features.

WATER LOSS WON'T GO UNNOTICED

The V200 and V210 hybrid meters were fitted on residential properties with rateable values. Instead of billing residents for water consumption, the hybrid meters collected valuable metering information, including no flow and backflow. Access to this data allowed Wessex Water to pinpoint water leak locations and take the proper steps for remediation. The water usage profiling by the hybrid water meters also enabled identification of water loss that normally went unnoticed. Enacting maintenance measures and closely monitoring flow rates with information from and the capabilities of Honeywell's smart meters helped Wessex Water reduce non-revenue water levels across their expansive network.



V200 and V210 Hybrid Meters

SUSTAINABLE, LASTING RESULTS

The reduction in non-revenue water helped increase the sustainability of Wessex Water's operations, with less water going to waste and automatic readings eliminating manual ones. Keeping water within the network by resolving leaks and theft also helped improve the utility's operational costs. The V200 and V210 hybrid meters were easy to install and required no complex commissioning. And, intelligence within the electronic registers of the meters turned simple data into actionable insights that Wessex Water continue to rely on today.

With successful upgrades to network infrastructure for cost-effective, sustainable, reliable operations that significantly minimise NRW, Wessex Water have a transformative solution in Honeywell's smart meters.

"Honeywell's smart water meters have allowed us to concentrate more effectively on non-revenue water and generate cost savings."

— SHAWN BEASTON, WESSEX WATER

For more information

pmt.honeywell.com/us/en/businesses/smart-energy

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