

case study

Smart Pressure Control for Aqaba Water

HWM Global helps Aqaba Water save 200,000 m³ of water annually by installing advanced pressure control systems that stabilised complex water networks reducing overall pressure-based leakage.



Aqaba, Jordan faces extreme desert temperatures, making reliable water supply essential. The utility, responsible for serving over 250,000 residents and visitors, identified excess minimum night-flow pressure as a major contributor to pipe bursts and non-revenue water.

Aqaba Water's investigation into rising NRW loss revealed that persistent night-time pipe bursts were caused by excessive minimum night-flow pressure. With more water entering the system than residents were using, pressure built up overnight, straining the network, prompting Aqaba Water to turn to HWM Global for a smarter, automated solution.

HWM Global recommended **Pegasus 2**, an advanced pressure control system designed to stabilise and protect complex smart water networks. Once deployed, Pegasus 2 gave Aqaba Water real-time visibility of pressure at critical points across the network, along with the ability to remotely fine-tune pressure whenever and wherever needed, finally being able to maintain consistent, controlled operating conditions, without costly site visits.

"By reducing water pressure, demand for water is controlled, meaning a more efficient and sustainable distribution of water. Pegasus 2 has reduced the number of burst pipes, and therefore reduced calls to our call centre".

Pressure Management Team - Aqaba Water



Aqaba Water's Pressure Management Team explained how stabilising pressure reduced burst frequency, lowered customer complaints, improved DMA performance, and cut leakage consumption, they also stated: *'we have also found out that we can eliminate any by-passes that may compromise the integrity of the network, which can cause inaccurate measurements, unbalanced flows and pressure fluctuations.'*

With 22 Pegasus 2 pressure management systems now installed, Aqaba Water anticipates saving 200,000 m³ of water a year through targeted pressure-related leak reduction, a vital result for a desert where every cubic meter counts.