

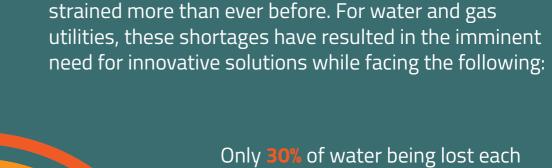
around the world, in addition to rising operating costs, aging infrastructure, changing customer expectations, and heavy government regulations, modern utilities have a lot on the line. To address these changes, a new breed of utility meter has arrived — known simply as the smart meter.

Today's water and gas utilities are facing unprecedented challenges. With water and energy conservation a major concern

The Global Strain on Water and **Energy Resources**

population is expected to reach

By 2025, the world



Around the world, water and energy resources are being

year is accounted for globally UNU-INWEH, 2018 Nearly 50% increase in world

energy usage by 2050 EIA, Sep 2019 Global water demand for all uses will

increase by **20%** to **30%** by 2050 UNU-INWEH, 2018 Over 80% of residential water

meters are still mechanical, leading to major inefficiencies and resource losses Iskraemeco, 2020

The 5 Major Challenges of Today's Water and **Gas Utilities** Water and gas utilities have five major challenges before them that must be solved in order to remain

competitive in today's demanding market.

Getting accurate

measurements for

consumption billing

Utility Challenge

Reducing the loss of non-revenue water (NRW)

Improving customer service

Improving asset and workforce management

Ensuring customer privacy on critical infrastructure security







developed to help utilities solve these challenges here's how they do it:

Smart meters were

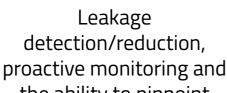
Customer Satisfaction

Smart Meter Solutions

Accurate Metering By deploying different

types of measuring

technology on all meters equipped with intelligent communication modules



Improved Revenue

the ability to pinpoint small leaks before significant damage is caused. Reduction of apparent losses (theft detection)

Better customer experience with greater billing accuracy and no service supply

interruptions

Better maintenance, faster repairs, better asset management

Operational Excellence



Smart Meters

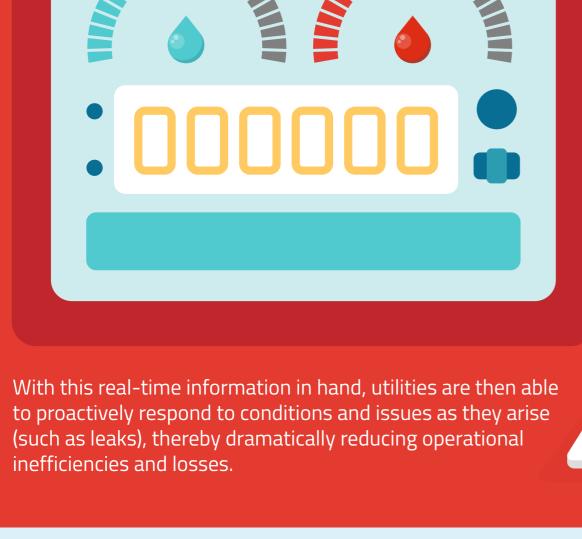
A Closer Look At

Connected through local cellular or wide area networks as part of the Internet of Things (IoT), these smart meters relay information in real-time to their controlling utilities.

Fully digitized, the smart meter is able to

control, and intelligent precision.

provide utilities with unprecedented insights,



The Global Rise of are rapidly being installed around the world — and IoT Smart Metering growth is expected to continue for several reasons:

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Global **Standards**

Cellular connectivity standards have been in place for 30 years

downtime **Proven Performance**

A wide selection of

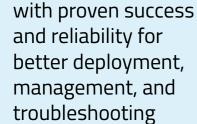
systems are available

making it easy to

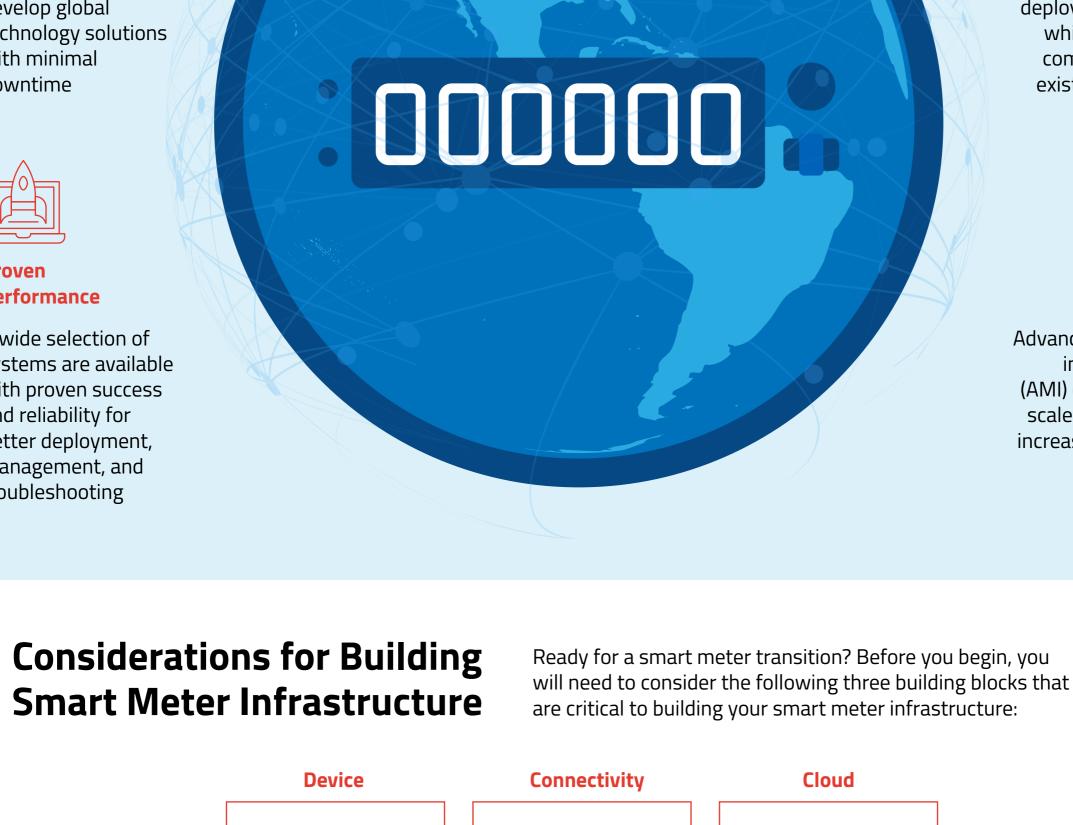
technology solutions

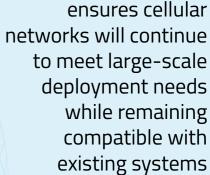
develop global

with minimal









Continual evolution

Tailored

Technology

Flexible Expansion Advanced metering infrastructure

(AMI) can easily be

scaled up to meet

increasing demand

Module with Embedded SIM

identify what type of wireless device will be used to transport the critical data into your service

First, you need to

Cellular Module

transport that data from your meter into your application — in other words, how your smart meters will

connect to your cloud

storage

Worldwide SIM

24/7/365

Network Monitoring

Next, you need to

determine how you will

Our Mission is to Secure the Data for Utilities

Lastly, you'll need to figure out your cloud solution - this is where

your data will be

orchestrated and where

you will deliver, manage,

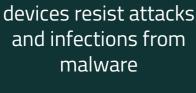
Edge Data

Orchestration

Management Platform

and monitor your service to ensure it's operating as desired





Secure Boot to help





ensure update image

legitimacy



Authentication Vectors to add extra

protection to the

mutual authentication

process



Network Security

Features like private APN and secure data centers to prevent data breaches

Start Your Smart Metering Journey Today Sierra Wireless is a leading provider of smart metering solutions, and there are tens of millions of devices around the world using our technology.

GET STARTED TODAY

Contact us today to get started on your smart meter journey.



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