kamstrup

Sustainable approach to smart metering

Financial viability and operations optimization with the world-class acoustic leakage detection technology



next

Metering challenges of consumers with high water consumption

Utilities in Asia-Pacific region constantly face a challenge to accurately measure, read and bill the consumers with high water consumption. This can be due to the deteriorating performance of mechanical meters over the period of time, unreliable data or human error in meter reading. We will help you combat these challenges with a simple yet cutting-edge smart metering solution.

Challenges

Small businesses
Inaccurate mechanical meters

Apartment complexes
Leakages inside homes



Hotels
Excess water usage for laundry, kitchen and bathrooms

Restaurants
Unmetered water use

Over

50%

of water supplied by utilities is consumed by commercial customers

Schools
Pipe bursts

Residential houses
Hidden leakages



Farms
Theft of water

Factories
Incorrect manual meter readings

6 typical water issues

Reliable data

Availability of reliable data depends on the accuracy of the meter, its lifetime performance and the communication mechanism

Read success story

Meter reading

There is a high possibility of human error and manipulation with manual meter reading, while automatic meter reading eliminates these issues

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Replacement of meters

Unlike smart ultrasonic meters, mechanical meters need to be replaced every few years thereby resulting in high operations and maintenance cost

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Accuracy of meters

Accuracy of a typical mechanical meter will deteriorate over the period of time resulting in unreliable data and frequent meter replacement

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Revenue protection

Having the right knowledge at the right time makes it much more efficient and easier to reduce Non-Revenue Water, thereby combating revenue loss

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Cost Reduction

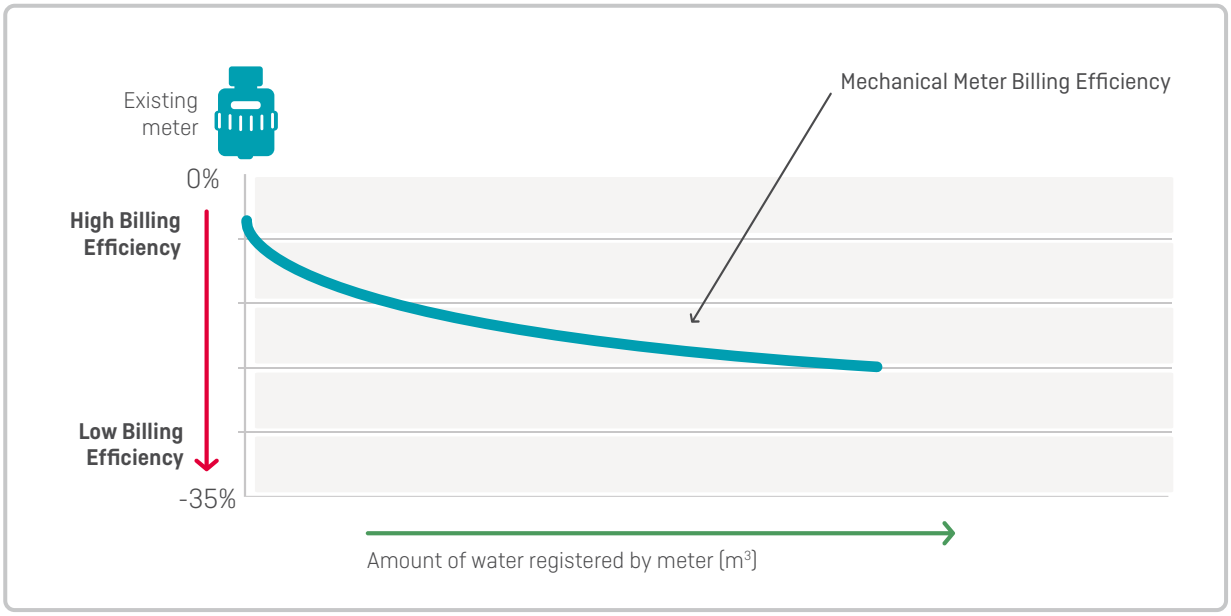
Utilities incur high costs to improve operational efficiency and optimize investments in the long run. Smart metering helps reduce these costs drastically.

Read more

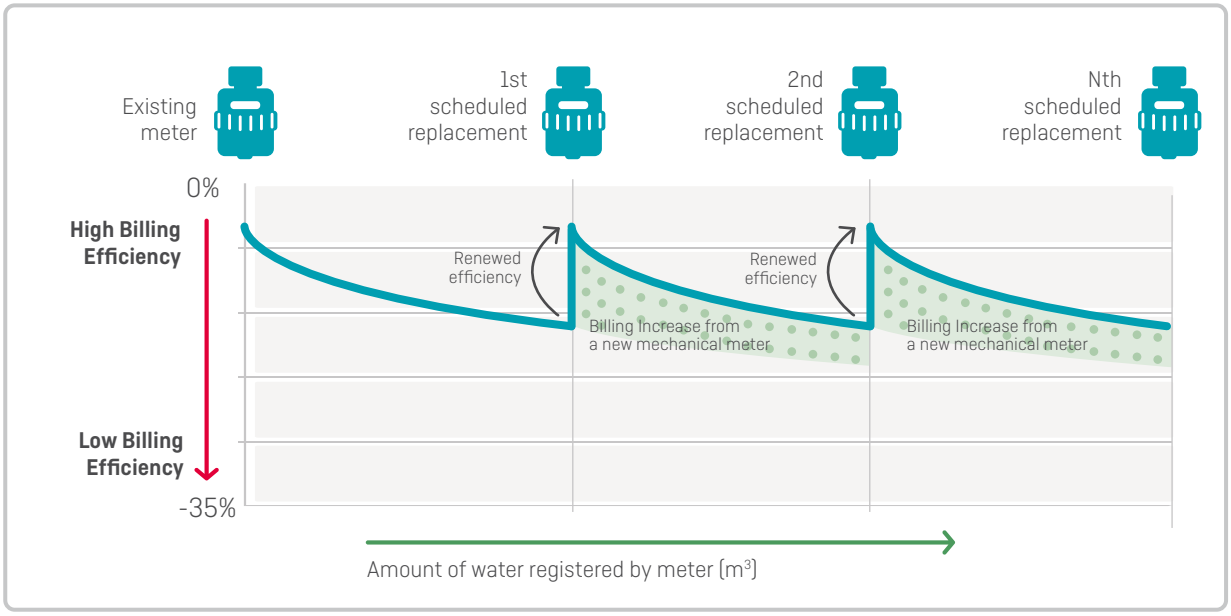
The deterioration curve of a mechanical meter can be found in many research papers around the world. Be it volumetric or velocity type meters, the deterioration shares a similar pattern. Mechanical meters require a much higher frequency of meter replacement needed to sustain reasonable metering efficiency and billing gains.

The below graphs show the deterioration of a typical mechanical meter resulting in reduced billing efficiency, thus need of frequent meter replacement.

Deterioration of a typical mechanical water meter



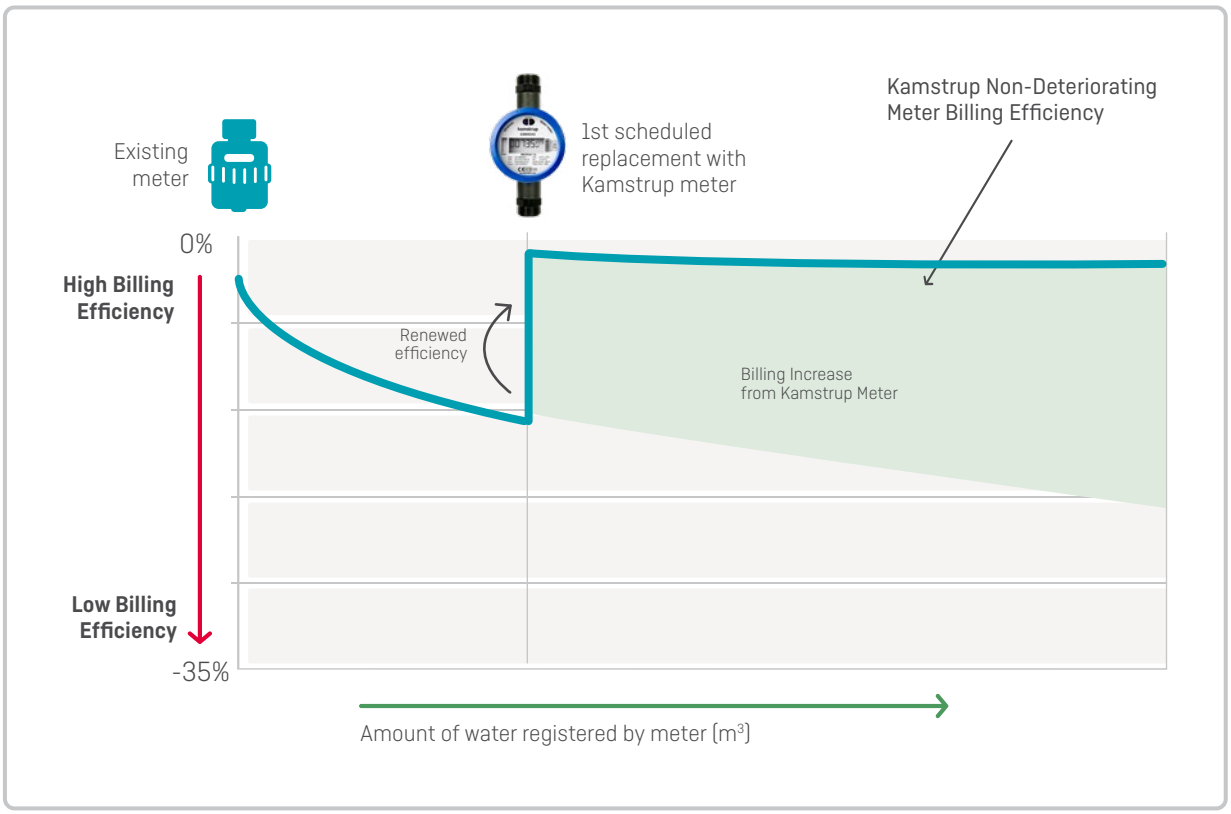
Savings when replacing new mechanical water meter



Kamstrup brings to market a different and better "non-deteriorating" metering technology. Hence, meter efficiency shall maintain at new or near-new levels throughout its 16 years of battery life.

This claim stems from its experiences globally where the meter re-verification tests result in same accuracy levels even after 6-7 years of usage and regardless of mileage. Additionally, no moving parts in the ultrasonic technology significantly reduces wear and tear and the need for replacement of meters. Hence, also bringing true value to utilities operating in various water quality levels.

Comparative savings from Kamstrup smart water meter



Ultrasonic water metering

opens the door to a world of opportunities

Resistance to wear and tear

Intelligent alarms

Highly stable accuracy curve

Low start-flow

100% watertight with IP68 rating

No loss of accuracy over time

Up to 16 years of lifetime

Low risk of trapping debris

Low pressure loss

Intergrated radio for remote reading



Pressure and energy optimisation

Revenue management

Customer service

Operations and management

Asset management

Water conservation

Read more

So much more than consumption metering

Smart metering is an intelligent enabler for improving consumer relations and optimizing operations. It is about quality management, revenue protection, asset management and Non-Revenue Water. About being able to make the right choices and chose the right investments.

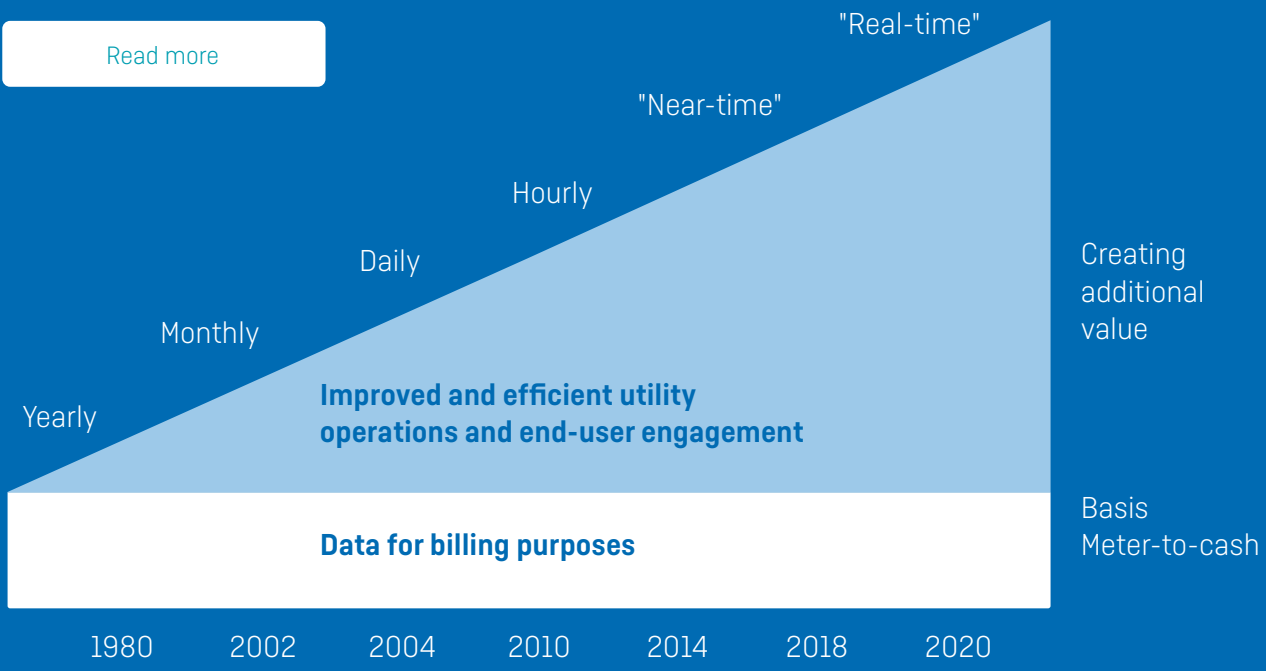
We deliver solutions in all shapes and sizes, but while every project is unique, our starting point is always the same – you, the customer.

How meter reading affects the value of your data

Frequent meter readings increase the potential value of your meter data.

Both Incidents and Water Intelligence can be used by utilities who read their meters via READy Mobile reading or a READy Network. Based on bi-monthly drive by readings, they can support your daily decision making. But the more often you read your meters, the more value you will also be able to realise in terms of optimising your operations and reducing your NRW and water loss.

Read more



A world of opportunities with smart metering

Many utilities are yet to utilize the full potential of smart metering where all parts of the distribution network are transparent and where consumer behavior is known down to the smallest drop. The information available about the last mile of pipe leading to the individual consumers might often still be based on yearly reading only. The challenge is that we still base much of our knowledge and forecasts on few facts and theoretical models.

The digital water utility

Smart water metering opens the door to a world of opportunities.

Download our white paper and learn how smart metering and digitalisation can benefit your utility on 6 concrete levels:

Read more



How Kamstrup solutions fit your challenges

Based on our 15 years' of experience in the water industry, we provide utilities around the world with state-of-the-art ultrasonic water meters, high-performing remote reading solutions, advanced monitoring of pressure and leakages as well as intelligent data analytics.

Smart metering is an intelligent enabler for improving consumer relations and optimizing operations. It is about quality management, revenue protection, asset management and Non-revenue water.

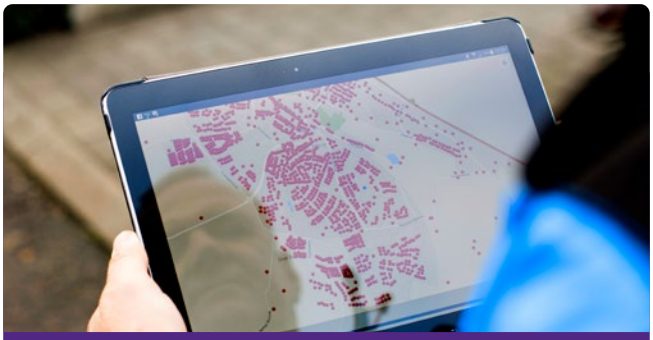


Smart Meters

Key highlights:

- Ultrasonic technology
- No moving parts minimize wear and tear and maintenance costs
- Up to 16 years battery life
- In-built radio communication
- With acoustic leakage detection

Read more



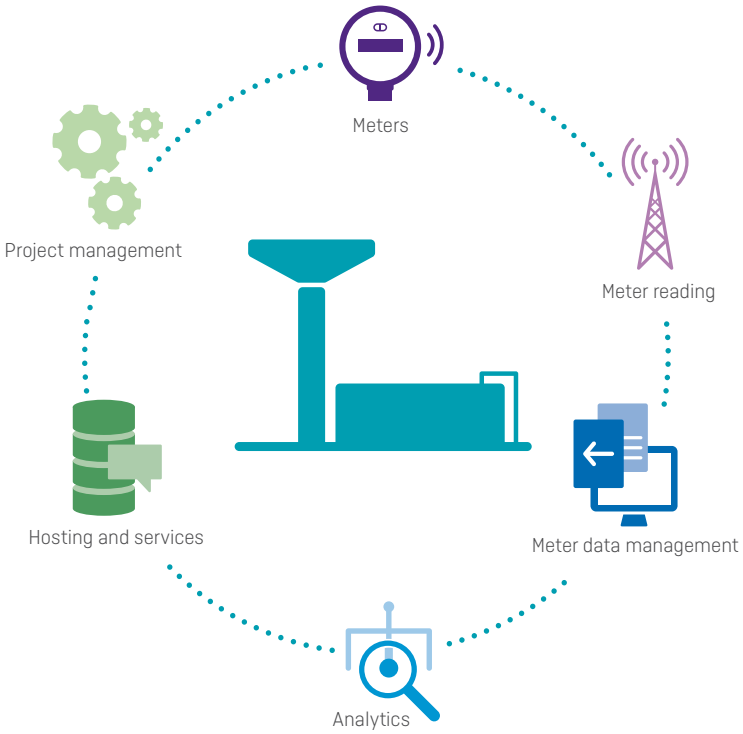
Automatic Meter Reading solution

Key highlights:

- Reduce human error and manipulation
- Prevention of theft or tampering
- Improve service quality
- Optimize operations

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Smart water metering by Kamstrup



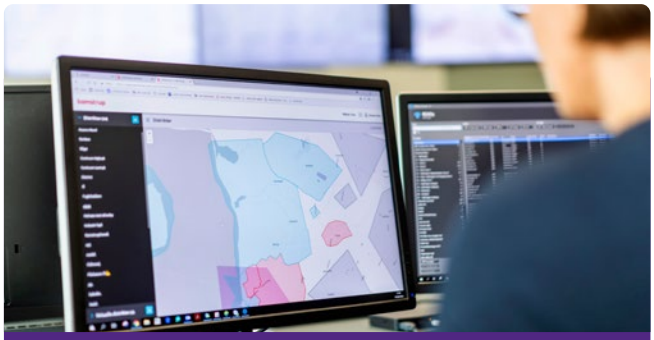


Acoustic Leakage Detection

Key highlights:

- In-built noise logger
- Leakage detection before and after the meter
- Data analytics for noise logs and leakages

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Data Analytics

Key highlights:

- Network monitoring
- Meter Data Management
- Incidents management with historical data analysis

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home back

Think forward

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