

Diehl Metering

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## Earth Overshoot Day – and the urgency to save water

**Earth Overshoot Day, the date on which we overconsume the planet's natural resources, is quickly approaching. It's a wake-up call for us all, because if we don't take action, we risk living in a world where essential resources like water becomes increasingly scarce. We can all contribute to saving water – and Diehl Metering intends to be part of the solution for people everywhere.**

Water is at the heart of sustainable development. We use it in our homes, in agriculture and industry. It is vital for health and social wellbeing. And its presence on our planet ensures a well-balanced ecosystem and life in all its forms. In most developed countries, it is all too easy to take water for granted. But we should never lose sight of the fact that water is a finite resource and it is only renewable as long as we manage it properly.

### Heading for a crisis

In 2021, Earth Overshoot Day falls on July 29. Beyond that date, we are consuming natural resources like water faster than the planet can regenerate them. Unless we change our habits, we will create water shortages all over the world.

According to current predictions, global water demand is set to increase 55% by 2050\*. If today's consumption patterns continue, two-thirds of the world's population will live in water-stressed countries by 2025\*. Furthermore, water-related disasters such as droughts, floods and storms are the most economically and socially destructive of all natural disasters. That's why we need to act now.

### Smart water

How can we divert this catastrophe? By becoming more conscious of how we use water – and then taking action to consume less. Each of us can make individual efforts, like taking shorter showers or not letting water run when we brush our teeth. But there is also a bigger picture when it comes to water management by utilities and cities – and that's where Diehl Metering comes in.

A specialist in smart metering, Diehl Metering designs its solutions and services to optimize the way natural resources are managed, minimizing waste and maximizing sustainability. Smart water meters are capable of gathering multiple metrics about water distribution networks. In a fixed network, the meters can collect real-time information about water consumption, flow and temperature, which is automatically sent to central data management software for analysis. Data is then displayed in an easy-to-understand dashboard.

Through this solution, utilities can quickly detect and address anomalies such as leaks and inefficiencies in their network. This empowers them to take action and reduce wasted water.

### Digitalize to save water

The digitalization of water networks presents many opportunities to further improve sustainability. By exploring the Internet of Things, smart water meters can connect with a host of devices across the network. This wealth of data can be interpreted through artificial intelligence to predict conditions that precede a burst pipe or to anticipate consumer behavior during a heatwave. By focusing on operational data, this approach allows us to concentrate on addressing concrete issues rather than second-guessing what might happen next.

Network digitalization can also help consumers to better manage their water consumption. Diehl Metering have developed a smartphone app that offers consumers an insight into how they use water. By displaying graphs and benchmarks, the app encourages them to change their habits and reduce water consumption.

### **A multi-faceted solution**

The solutions developed by Diehl Metering empower utilities, communities and consumers to use and manage water more efficiently. This means they save water and contribute to the preserving this precious resource for future generations. By saving water within the existing infrastructure, they reduce the need to tap new water sources and build new plants. They also help to save energy – because the collection and treatment of waste water are energy-intensive activities.

In this way, smart water solutions from Diehl Metering provide opportunities on many levels to address the issues behind Earth Overshoot Day and help to move back the date.

*\* source: UN report 2015*

### **About Diehl Metering**

Diehl Metering is a worldwide leader in the design, manufacture and supply of smart metering solutions. With over 150 years of experience, we empower utilities, municipalities and industries to take control of their infrastructures, bringing new efficiencies to the way they manage water and energy.

Our extensive range of services and solutions includes data-driven insights, IoT connectivity, fully-flexible software, and seamless intelligent metering. We also utilise artificial intelligence to boost performance and deliver cost savings for our customers.

Headquartered in Germany, we are a family-owned business with an international reach. We are proud to maintain our founding principles of quality, reliability and customer proximity while proactively shaping a better future for our customers and the communities they serve. Our approach is to think global and act local. By anticipating trends and remaining agile, we adapt and develop our strategy with our customers and for them.

In supporting their long-term growth, we also contribute to the sustainability of the planet, crafting innovations that enable our customers to make ever better use of the natural resources we all rely on.