

ShowCase

Efficient and safe connectivity of power and gas metering

Products

Secure connection of the metering devices with MarcanT.

Results

A connected infrastructure, that allows for a more efficient maintenance and an increased transparency for the customers.

Project Details

Connnection of gas and power meters to the internet and implementing a web portal for monitoring purposes.

Introduction

The public utility company of the city of Bielefeld (Stadtwerke Bielefeld GmbH) is a experienced provider of all kinds of energy. The company does not only rely on conventional power sources but also on the use of renewable energy. In addition to that, the company is also known for supporting regional sports and environmental projects as well as local culture. With its subsidiaries it has a broad range of services like telecommunication, public transport, recreational activities and waste disposal.

Challenges

Stadtwerke Bielefeld GmbH wanted to connect their gas and power meters in a future prove way. Efficiency and the potential to further optimise processes were important factors. In addition to that, the company wanted to guarantee the maximum amount of security.

Solution

By using roaming SIM-Cards in the metering devices it was possible to boost the availability in any given place in the Stadtwerke Bielefeld's area of activity.

MarcanT not only paved the way to a secure connection of the metering devices but also enabled monitoring via their Communication Control Portal (M-CCP). This allows a reduction of costs and working time, as the maintenance staff is able to plan service works early and failures are prevented.

For the customers the solution also means a big advantage. They are now able to monitor their energy consumption and prevent being catch off guard by an unexpectedly high energy bill.

The metering devices are connected to MarcanT via a secure tunnel that is ISO 27001 certified.

By implementing a “Fraud Protection”, which binds a SIM-Card to a specific metering device, Marcant prevents any kind of manipulation or unwanted use.

Use of the connected metering solution in a gas distribution station

This image shows the metering device in the so called Ex-Room of the gas distribution station. It is connected to a modem in another room. This is where Marcant installed its technology.



This showcase has been collected in the framework of the Erasmus+ project *Internet of Things for European Small and Medium Enterprises* (pr. n° 2016-1-IT01-KA202-005561), funded by European Commission. For more information: www.iot4smes.eu
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Use of the connected metering solution in a electricity meter



In this image you can see a electricity meter equipped with MarcanT's connectivity solution.

References

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