



KMD Meter Data Management

**The path to efficient work processes, correct billing and optimal operations**

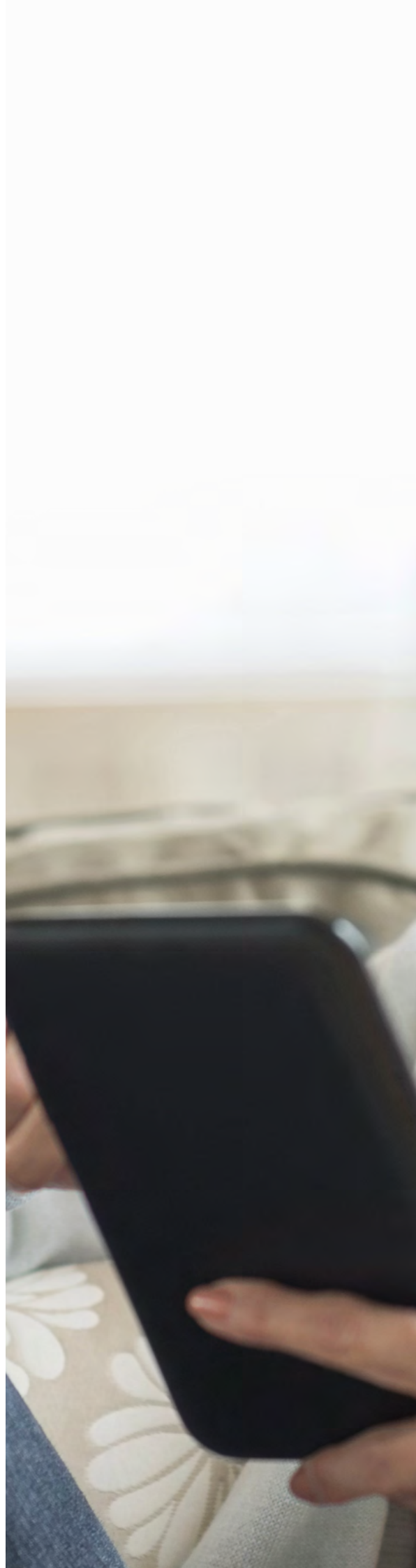
  
An NEC Company

## Realize the expectations of efficient operations and security of supply

The Energy & Utilities sector is undergoing transformative change, leading to frequent changes to legislation, regulations and framework conditions. This includes demands for more efficient workflows and a focus on future energy sources and security of supply. There is also a growing need to motivate Danes to think greener, including when it comes to their energy consumption.

KMD Meter Data Management provides a practical approach to meeting the expectations of stakeholders in relation to efficient operations and security of supply. The solution provides valid data and the ability to calculate and estimate data. This creates the best basis for billing, customer service and energy consulting. With Meter Data Management, the data volumes from meters become manageable, operations are optimized and at the same time all parties are provided with a single access point to the information they need.

*Presented to be easy to understand – and to act on.*





## **KMD Meter Data Management as a Meter Data Management solution**

### **Turns complex data into manageable quality data**

KMD Meter Data Management collects and validates data, which ensures correct billing and a quality assured data basis for optimizing operations. The solution's estimation and correction module also enables: 1) estimating missing or future data, and; 2) correcting data on correction meters. This strengthens the data quality for further processing/analysis and ensures a true and fair visualization of the data as well as their development.

### **Easily presents results that make sense in the context requested by the user**

KMD Meter Data Management includes a user-friendly visualization solution with associated services, notification, etc. that can be used as an independent web portal for customers and energy consulting. This option provides an overview of the total energy consumption, motivating the customer as well as the employee to optimize consumption/operations.

### **Enables large-scale data exchange**

KMD Meter Data Management is a hub for data exchange. This means that the solution can collect and exchange data between data loggers or AMR software and billing system as well as the organization's own systems (GIS, BI, energy management solution, etc.)

# Tailor your solution for maximum value from KMD Meter Data Management

Utilities need an overview of the large and complex data volumes collected. At the same time, there is a need for efficient associated workflows. KMD Meter Data Management enables you to ensure high data quality, to optimize operations and to create multi-level overviews. The following describes the modules available for you to enrich your solution.

## Estimation and correction module

### Quality assurance with full traceability

Utility companies typically manage enormous data volumes, and it may at times seem impossible to get a true picture when the loaded data lacks values or contains errors. In such cases it makes sense to apply the estimation and correction module to ensure that the best data basis for billing is used.

Do you experience a need to be able to change your raw data and to fill in or estimate flawed or missing data – inside the framework conditions? This module satisfies traceability demands, since data correction and estimation is not performed on the original data but instead via a correction meter which, either manually or automatically, assists you with the task.

Data correction and estimation not only enables data correction but also the forecasting of data based on previous readings.

## Formula and component module

### Get free range to create added value and gain new insight into your data

The formula and component module enables you to think outside the box and to combine data in new ways and for more purposes. At the very basic level, this module allows the combination of measuring data (time series) across physical meters and installations – in terms of calculation expressions, analyses, rules and notifications (alarms), visualizations, etc.

The formula and component module is particularly relevant if you can see opportunities in combining two time series or multiplying a number of meters by a factor. With this module, no task is too complex.

## KMD Meter Data Management Insight Data

### Maximize your opportunities and create a solid basis for grid optimization

The KMD Meter Data Management Insight Data module makes it easy to use measuring data and energy consumption in combination with other data – and with your preferred tools.

This module allows the exporting of select data to a GIS tool, for example, or to a separate database. This keeps you from drowning in raw data and having to perform meter changes and temperature and consumption data calculations and so on directly in a program that was not designed for it. KMD Energy Management Suite Insight Data lets you request specific data sets and to have your data validated in a solution developed for the processing of business logics such as meter changes before using the data in a different program. This ensures high data quality and a solid basis for optimization analyses.

KMD Meter Data Management Insight Data also creates many opportunities for data analysis in a BI tool, increases the ability for customers to save energy, optimizes the grid, and, at the same time, strengthens the framework for collaboration with various actors.

## API module

### **Get easy access to specific data across systems and programs**

There are many ways to exchange data, which makes for many areas in which an API can be applied.

This module enables fast access to data and ensures that you get the output that other, external systems require or that you need in order to be able to work with the data intelligently. This allows you to save a large number of man-hours in the longer term and paves the way for workflow and data exchange optimization.

## WebTools Site

### **Makes it easy and clear for users to understand consumption**

WebTools is a simple, informative solution for all users aimed at creating an overview, consumption visualization and mapping. With WebTools, the users do not have to understand industry jargon about energy consumption and the environment. Instead, they will be presented with the key data in easy-to-read graphs and figures that are also easy to use as a basis for taking action.

## Mobility App

### **Control reading via app**

The Mobility app enables manual meter reading via a smartphone so the readings are registered easily, quickly and securely:

- \_ Easily, because you can identify the meters via a barcode
- \_ Quickly, as the information is typed in at the same time as the reading is taken
- \_ Securely, because you will have fewer manual data entry errors

With just a single click, you can geotag the meters and their coordinates to register the precise location of the meter. When performing readings from district heating meters, the mobile phone will immediately show the average cooling during the period since the last reading.

You can also use the app to register the changing of meters, so that data from the old and new meters are automatically linked in KMD Meter Data Management.

## Does it make sense to have both the API module and KMD Meter Data Management Insight Data?

Your decision to select the API module or KMD Meter Data Management Insight Data should be based on your needs. If you can see the benefit in being able to submit individual requests for specific data to KMD Meter Data Management, the API module is the right choice for you. If you wish (at the same time) to export large data volumes from KMD Meter Data Management to an independent database or to a BI tool, and perhaps you frequently need to retrieve data from KMD Meter Data Management, you should (also) select KMD Meter Data Management Insight Data.

## Map service

### Tool for efficient monitoring of meters and consumption

This module enables you to visualize your key data geographically on a map. This is valuable both for daily operations and when you need special insight into your consumption. Such as when you wish to provide management with an insight into which areas face the greatest challenges or when you want to identify the positive stories about buildings that keep reducing their consumption.

#### Map Service gives you:

- \_ A geographical overview of the location of the meters and their status
- \_ A geographical overview of the status on consumption budgets
- \_ Visual awareness of the precise themes you want to highlight.

Map Service can provide a useful overview of operational status and consists of four map layers: data retrieval, budget deviation, cooling, and temperature. These can be set up in many different combinations. If, for example, you want an overview of meters that lack data for more than x days or areas with poor district heating cooling, Map Service may be the solution.



# Why KMD Meter Data Management is the right choice for your organization

KMD Meter Data Management allows you to develop a greener profile, greater customer satisfaction and improved competitiveness. The solution offers a range of benefits, regardless of whether the purpose is data collection and validation (Meter Data Management) or energy management/control (Energy Management Suite).



## See the way to green savings

KMD Meter Data Management allows you to develop a greener profile, greater customer satisfaction and improved competitiveness. The solution offers a range of benefits, regardless of whether the purpose is data collection and validation (Meter Data Management) or energy management/control (Energy Management Suite).



## Increase the value of investments in smart meters and remote reading

KMD Meter Data Management increases the value of remote reading projects and enhances the overview of data quality and security of supply data from setting-up to removal.



## Achieve budgetary security for energy costs

Create month-on-month budgetary security. KMD Meter Data Management enables budgeting both in terms of energy and money, achieving an insight into what drives energy costs and enabling timely and effective responses.



## Ensures independence of meter suppliers

KMD Meter Data Management can collect data from all essential loggers and remote reading systems and utilize these data in a combined solution.



## Improve customer satisfaction and sustainability focus

KMD Meter Data Management invites a better and closer customer dialog via a self-service portal and mobile apps, which enable proactive customer and energy consulting.



## Supported as a cloud solution

The solution is delivered as a cloud solution, meaning that you will not have to worry about operations, maintenance, updates or security. For example, KMD Meter Data Management is available as SaaS on Microsoft Azure.

## Want to know more?

Get in touch and let us take a look at the solution that best fits your needs.

[sustainabilitysolutions@kmd.dk](mailto:sustainabilitysolutions@kmd.dk)

  
[kmd.net](http://kmd.net)