

# PRODUCT BRIEF

## HansenMDM™

### *The future is to power your data.*

- Are you looking for a system which collects data from different smart meters (electric, gas, water and heat) in the most reliable manner possible?
- Are you aiming to develop fully integrated billing services and excellent customer experience?
- Are you worried about future data influx from meter devices and don't know how to make use of the data?

The main idea of smart metering systems is to ensure utility companies can utilize real-time consumer energy usage data to improve their business. In addition, it helps utilities accurately bill consumers and improve their energy efficiency.

**Hansen MDM** (meter data management) serves as an integrated package of next-generation automation & analytical meter data management– designed to leverage implementation off the advanced metering infrastructure (AMI). This is a native public cloud solution, enabling customers to run their operations aligned to their preferred business model. Hansen MDM is designed for fully AMI metered ecosystems and supports utilities in the transition from older meters to AMI. Hansen MDM can be utilised by multiple market roles such as distribution system operators and retailers.

Hansen MDM is ultimately responsible for validating and estimating metered data, cleansing, calculating and providing data persistence for the metered energy data. The system integrates smart meters to the billing process and can collect the metered energy data from multiple head-end systems (HES) and is responsible for the dissemination of metered consumption data to the next systems, like customer information or billing systems, in the process. Hansen MDM supports billing, remote connections and disconnections, on demand reads, imbalance calculations, asset loading, market communication and a variety of analytic use cases.

When choosing an MDM application for the future, utility professionals should focus on three key metrics:

1. Maximize return on smart grid investment and AMI
2. Reduce operational costs with improved quality of service
3. Utilize a digital platform to leverage data into new product and services

## HANSEN MDM

Hansen MDM brings benefits to the entire utility value chain - from smart device roll-out management to energy logistics, energy business, billing and value-added customer related services. Monetize the hidden value of your diversity of data with our data intelligence MDM suite.

This flexible solution will transform your approach, so that you can always have a right balance between the legacy and future advancements. Consumption storage enables real-time data synchronization with other sources, as sensor data to improve management of grid operations. Analytics solutions enables new services, including support and maintenance of solar panels, car charging and other emerging opportunities. Hansen MDM enables you to crunch the future of energy data.

## BENEFITS

### Intelligent Management for Smart Meters

The market proven Hansen MDM integrates smart grid infrastructures and events with the real world demands of the energy business, delivering clear, high quality and actionable smart meter data and analysis. Automated processes ensure that all standard operations are performed without the need for manual data entry. Only deviations are flagged and categorized by priority level. Feature-rich dashboard and real-time visualizations make sense of complex data using our innovative specialized tools and cloud-based instant service.

### Reduced time to market

Hansen MDM is built with cloud-native technologies using the best practices of AWS. Our microservice architecture and event-driven process design takes full advantage of the public cloud offering. Hansen MDM is delivered in a SaaS model and system that is kept up-to-date with the newest version of the solution, all the time, with help of automatic CI/CD process. All things together allows Hansen to deliver new features to customers with reduced time-to-market, as every change doesn't require customer specific projects.

Unlock additional capabilities with an integrated solution with Hansen CIS. Enable your users to ping MDM meters (based on cycle/route parameters) to get readings for cycle billing as well as get on demand reads to assist with the exception handling process.

### Ask yourself

- Does your MDM scale to uncover the new data volumes?
- Do you have a plan on how to store and share metering data?
- Is your billing engine flexible enough to cater for all existing and future customers?

### Real-time data processing

Hansen MDM processes the data in real-time allowing AMI systems to send the data as many times a day as needed. Validation is executed during the importing process without any batch jobs. Validated data is immediately available for the next processes.

Modernized integrations and configurable driven platforms enable utilities to take their big data to the next level of business insight and adopt to a fast-changing energy landscape.

### Automated processes

Automated balance settlement processes for all market parties for high-performance allocation, reconciliation and imbalance settlement processes makes Hansen MDM highly adaptable to market changes.

The system improves data consistency and accuracy across systems and optimizes performance throughout meter-to- cash operations.

### Innovation at the edge of the grid

Hansen MDM provides an accurate view of total energy consumption and enhances network operation by increasing grid efficiency. Intelligent meter management and measuring applies not only to billing-relevant consumption data, but also to energy flow information and network status.

# HansenSuite

for Energy & Utilities

Hansen**CIS**

Hansen**MDM**

Hansen**Trade**

Hansen**Market-Message**

Hansen**Catalog**

Hansen**CPQ**

## HANSEN MDM IN A NUTSHELL

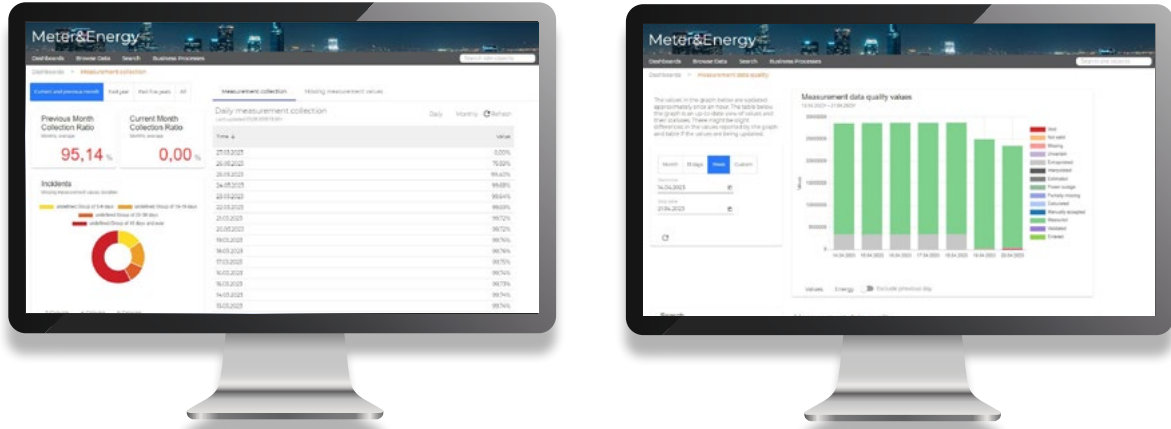
- Data collecting from multiple sources.
- Improved integration abilities with RICH API architecture, including deep pre-built integrations with different modules of the AMI\* like HES\*\* and CIS\*\*\*
- Standard REST API's enable customers to integrate the Hansen MDM to other applications.
- Well-defined dashboards to monitor and ensure the data quality
- Metering of consumption and production with flexible hierarchical configuration through sub and virtual meter functionality
- Efficient processing of measurements
- Validating, editing and estimating (VEE) meter reads.
- Monitoring – with pro-active response and corrections
- Custom exception handling
- Support for smart meter event and alarm collection
- Calculating billing determinants and support of complex tariffing schedules
- Supporting AMI deployment
- Balance management
- Datahub compliance
- Compliance with regulatory standards and service-level agreements

\*AMI: Advanced Metering Infrastructure

\*\*HES: Head-end System

\*\*\*CIS: Customer Information Systems

## HANSEN MDM BRINGS BENEFITS TO THE ENTIRE UTILITY VALUE CHAIN



Hansen MDM

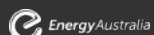
## FIVE KEY FUTURE FORWARD STRATEGIES

In this changing landscape, Hansen sees five key imperatives in future forward strategies for energy companies:

1. Turn into a Digital Utility
2. Build a digital platform
3. Architect a scalable analytic ecosystem
4. Implement next generation innovation capabilities
5. Deliver smart and digital customer experiences

**GROW YOUR NEW BUSINESS MODEL AND BE THE NEXT DIGITAL-DRIVEN ENERGY COMPANY.**

### Powered by Hansen



Hansen Technologies (ASX: HSN) is a leading global provider of software and services to the energy, water and communications industries. With its award-winning software portfolio, Hansen helps over 620 clients from over 30 offices worldwide to create, deliver and engage with their customers, to manage and analyze customer data, and control critical revenue management and customer support processes.



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