



The Energy Management (EM) Platform

Transform your energy data into actionable business insights and foresight, ensuring compliance and maximizing revenue through effective energy asset control

The energy revolution is powered by advances in renewable energy technologies, electrified transport, energy storage and digitalization. Companies across the energy value chain are striving to stay relevant—and in business—in a rapidly evolving operational landscape where new competitors are constantly emerging.

The energy value chain also faces persistent challenges that hinder operational efficiency and profitability. These range from fragmented data management to trading complexities, real-time communication gaps, and regulatory compliance requirements.

These obstacles can be overcome with the comprehensive capabilities offered by Tietoenvry's Energy Management (EM) Platform and its subsidiary products.



The Energy Management Platform in brief

The EM Platform provides a full package of capabilities to cover the entire energy value chain, ensuring a streamlined and integrated approach. It serves as the core foundation, offering a robust suite of functionalities including data management, market messaging, market connectivity, trading, and asset control.

To provide clarity and targeted solutions for specific users, the EM Platform can be configured to each market actor, offering specific capabilities and tools that cater to their unique requirements. By packaging selected capabilities into subsidiary products such as Energy Data Management (EDM) and Distributed Energy Solution (DES), the EM Platform provides streamlined and targeted tools.

EDM addresses the challenge of managing and refining energy data, enabling organizations to handle high data loads, automate processes, and administer energy data effectively in real time. DES, on the other hand, tackles the complexities of controlling diverse energy assets, enabling the formation of Virtual Power Plants for effective market participation and grid balancing.

With the EM Platform and its configuration into the specific tools offered by EDM and DES, your organization can gain clarity and targeted functionality, enabling you to navigate the energy value chain more efficiently and effectively. This integrated approach ensures a comprehensive solution while providing tailored tools to address specific user needs.

Key drivers

50% increase in RET growth

in 2023 compared to 2022*

Electrification of society causing increased congestion and transparency challenges

Global energy storage expected to reach 372GWh by 2030**

This needs a 27% annual increase from 2023

Legislation driving the digitalization of the energy value chain

Digitalising the energy system - EU action plan (COM/2022/552)***

* Electricity – Renewables 2023 – Analysis - IEA

** Bloomberg, 2H 2023 Energy Storage Market Outlook | BloombergNEF (bnef.com)

*** Digitalisation of the energy systems (europa.eu)

Energy Industry Challenges



Fragmented data management

The value chain suffers from scattered data sources, making it difficult to consolidate and utilize information effectively.



Real-time communication

Real-time, accurate data flows between industry stakeholders, such as grid operators, energy traders, and market participants, are essential for seamless operations.



Grid balancing and demand response

Efficient grid balancing and participation in demand response programmes can be challenging. Monitoring and controlling assets, analysing granular data and responding to grid conditions can be time-consuming and inefficient.



Regulatory compliance

In the complex energy market, different roles and locations carry specific responsibilities and compliance requirements, demanding a deep understanding of standards and recommendations, and continuous updates to them.



Scalability and flexibility

Scaling and adapting to diverse needs and evolving industry requirements can be complex, resource-intensive, and time-consuming.



Trading challenges

Energy market actors struggle to optimize their trading approaches, leading to missed opportunities and reduced revenue.



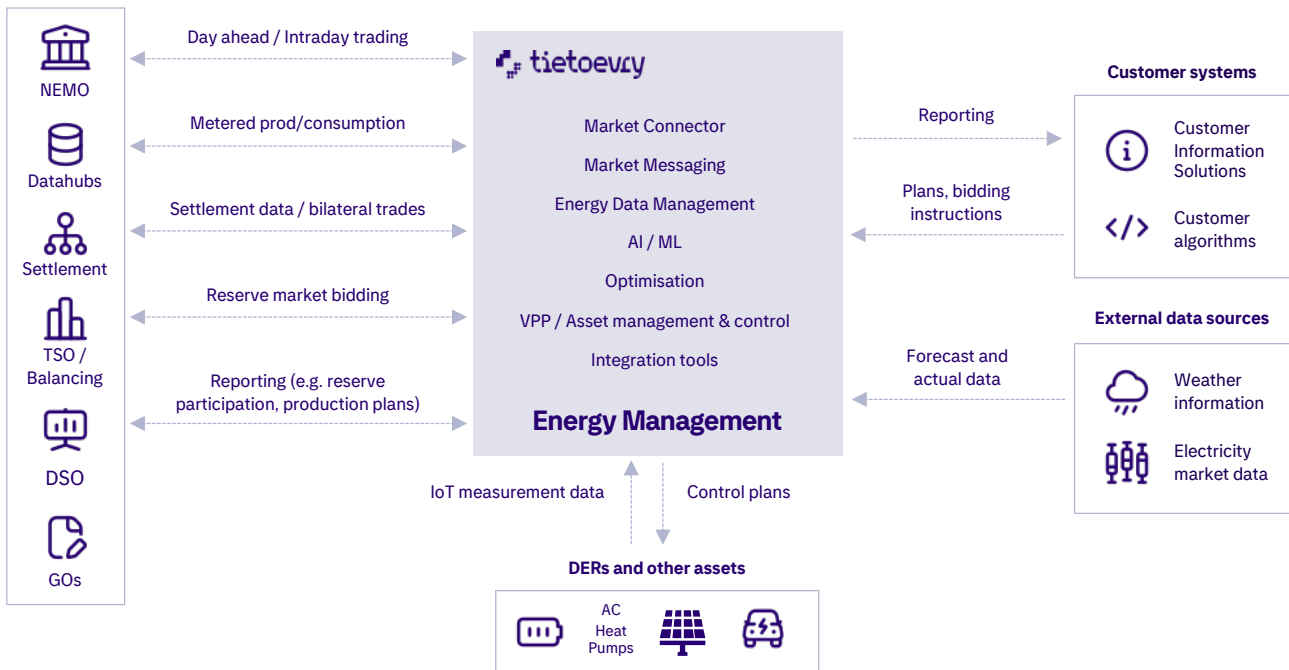
Reporting and analytics

Generating comprehensive reports, analytics, and dashboards can be time-consuming, error-prone, and lead to fragmented insights and regulatory non-compliance.

Making data work for you

With the EM Platform's comprehensive and modular suite of capabilities, organizations can overcome fragmented data management, enable and improve real-time communication, address trading challenges, bridge the gap in targeted solutions, and ensure regulatory compliance.

By harnessing this powerful platform and its subsidiary products, energy market actors achieve operational excellence, improve profitability, foster collaboration, and capitalize on market opportunities.



The Energy Management (EM) Platform is a cutting-edge software solution designed to revolutionize energy operations for energy retailers, DSOs, BRPs, and energy asset managers, not forgetting building management. With a focus on resilience, economic advantage, stability, and sustainability, it empowers organizations to optimize their energy management strategies in an ever-changing market landscape.

At its core, the EM Platform boasts:

- A cloud-native architecture, ensuring seamless scalability and accessibility while minimizing infrastructure costs
- A modular design which allows for flexible and tailored configurations to suit different use cases
- A comprehensive suite of capabilities encompassing data management, market messaging, market connectivity, trading, and asset control, providing organizations with the tools to manage energy resources effectively.

Key features

- Compliant handling of data and market messages for datahub and non-datahub regions, facilitating smooth operations with TSOs.
- Storage and validation of meter values and meter readings in all required time resolutions for all commodities, with built-in archive solution for optimizing infrastructure costs.
- Remote asset monitoring and control based on granular data to enhance decision-making, enable demand response, and avoid interruption penalties.
- Datalayer and data lakes for analytics, reports, and dashboards for holistic views.
- VPP asset integration for effective management, market participation, and grid balancing activities.
- Microsoft Azure Cloud-based, modular solution for automated digital management of energy. Quick to deploy, constantly updated, scalable, and flexible.
- Globally targeted platform supports pick-and-choose capabilities to fit business needs

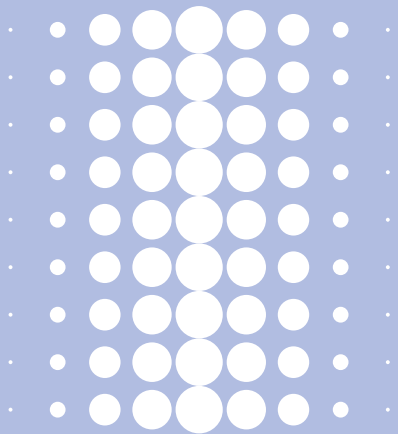
The EM Platform packages bring together various subsets of the platform's capabilities, designed to address the specific needs of energy retailers, DSOs, BRPs, and other energy asset managers, including those in building management. Each package offers streamlined workflows and optimized functionality, allowing organizations to efficiently achieve their energy management objectives. By choosing the appropriate package, customers receive a customized solution that meets their unique requirements while leveraging the core strengths of the platform.

With the EM Platform and its packaged products organizations can gain a significant competitive advantage. They unlock the ability to:

- Ensure operational resilience
- Achieve economic benefits through optimized energy usage

- Enhance stability in the market through reliable connectivity and trading capabilities
- Contribute to sustainability goals by managing energy resources efficiently
- Ensure regulatory compliance in and across customers' target regions.

In summary, the EM Platform is a game-changing software solution that empowers energy market actors to achieve their energy management objectives with resilience, economic advantage, stability, and sustainability in mind. The packaged products allow for tailored configurations, enabling organizations to harness the platform's capabilities in a streamlined and efficient manner, accelerating their journey towards energy management excellence.



Being right faster means better business

The EM Platform addresses the challenge of managing energy resources in a volatile, real-time market by enabling data-driven, intelligent management of the energy infrastructure. It empowers organizations to transition from systems of record to systems of insight, with AI, data, and analytics for a more competitive and sustainable energy future.

Two business-boosting tools right out of the box

Included in the versatile Energy Management (EM) Platform are two ready-to-go products that package selected capabilities to address specific energy management needs. These products, Energy Data Management (EDM) and Distributed Energy Solution (DES), offer tailored solutions that cater to the unique requirements of energy market actors.



Energy Data Management (EDM)

Energy Data Management (EDM) solves the problem of managing and validating energy data in a volatile market. It enables energy market actors to manage high data loads, automate processes, and administer energy assets effectively in real time, aligning with the mission of developing the digital future of energy, enabling a zero-carbon society, and ensuring regulatory compliance.

Distributed Energy Solution (DES)

DES addresses the challenge of managing and controlling diverse energy assets within an evolving and increasingly digital energy market. It enables efficient data management, asset control, and market participation. It utilizes Virtual Power Plants for effective market participation and grid balancing, thereby aligning with the mission of developing the digital future of energy and enabling a zero-carbon society.

With EDM and DES, we offer ready-to-go products that bring focused solutions to specific energy management challenges. Packaging these selected capabilities ensures that the products are tailored to meet the specific needs of energy market actors, such as energy retailers, DSOs, BRPs, and energy asset managers, including building management.

Explore the transformative potential of the EM Platform, EDM and DES by reading our white papers, where we delve deeper into how these solutions revolutionize energy management across the value chain. Experience the power of a comprehensive platform, encompassing all necessary capabilities while providing targeted tools for enhanced clarity and efficiency.



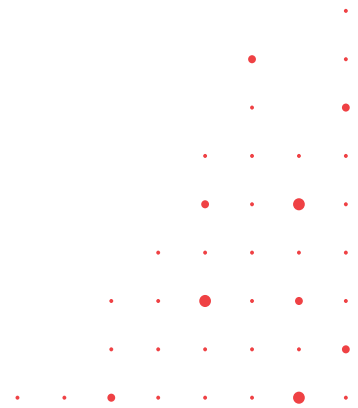
Want to know more?

Get in touch with us to get started on a business that ensures your business continuity in the face of the ongoing energy market revolution. We will be happy to arrange a meeting to give you more detailed results. Visit also at tietoevry.com/energy

Tietoevry creates purposeful technology that reinvents the world for good. We are a leading technology company with a strong Nordic heritage and global capabilities. Based on our core values of openness, trust and diversity, we work with our customers to develop digital futures where businesses, societies, and humanity thrive.

Our 24 000 experts globally specialize in cloud, data, and software, serving thousands of enterprise and public-sector customers in more than 90 countries. Tietoevry's annual turnover is approximately EUR 3 billion and the company's shares are listed on the NASDAQ exchange in Helsinki and Stockholm, as well as on Oslo Børs.

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