



Are You Ready for Half-hourly Settlement?

Energy Transformation and the UK Settlement Requirement



The Upside

There is a tremendous opportunity for utilities to improve every aspect of energy production, consumption, and trading.

- » Scalability: to manage large streams of data to multiple systems
- » Improved billing revenue: reduced arrears.
- » Customer engagement: through transparency, accuracy and behavioural programs
- » Increased data visibility providing actionable insights, like tracking, trends, and performance

THE CHALLENGE FOR UTILITIES: MANDATED CHANGE TO HALF-HOURLY SETTLEMENT

As Ofgem announced utility settlement reform in the United Kingdom, requiring market-wide half-hourly settlement (MHHS), utilities are now faced with a mandated regulatory change. With this mandate, changes are coming:

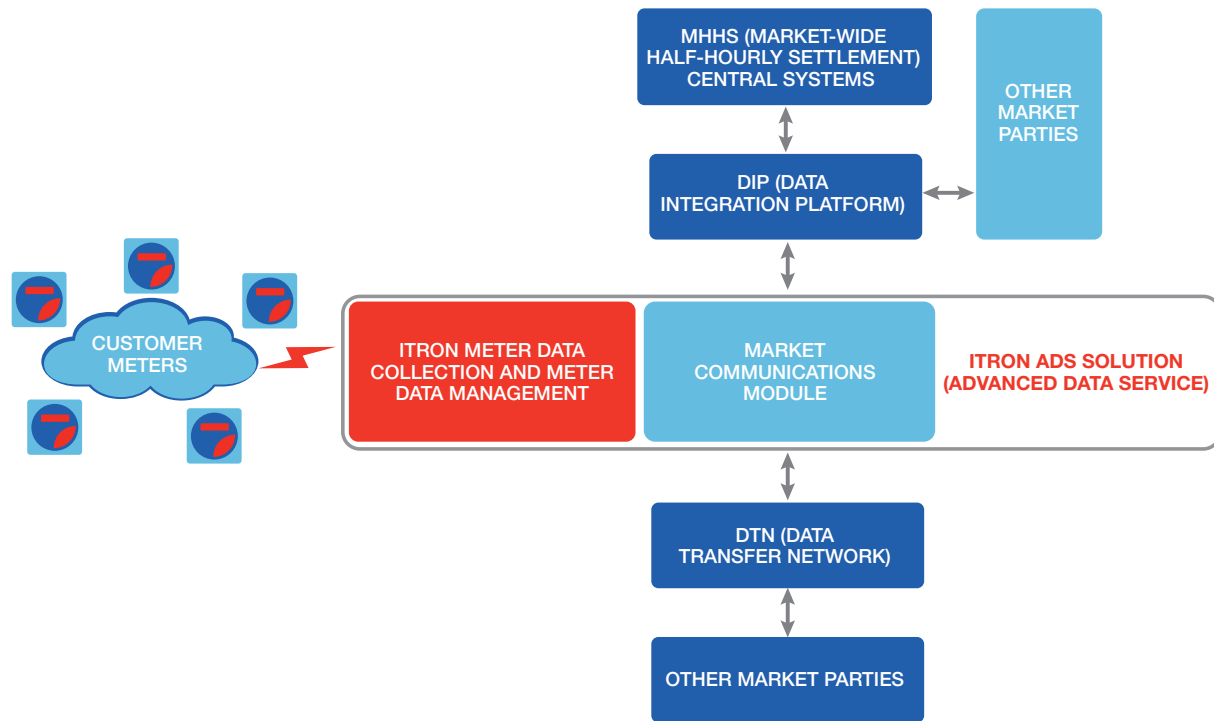
- » Data transparency and granularity is now required by regulators.
- » Digitalisation of systems needs acceleration – enormous quantities of data must be shared, both behind and in front of the meter.
- » This data will be delivered in varying formats from various sources, requiring a powerful technology to sort, validate, and provide accurate balancing, forecasting, and settling across the energy ecosystem.
- » The complexity of variable data collection timing – from several times a day to weekly or monthly reporting – requires utilities to adopt sophisticated forecasting and estimation capabilities.
- » Additional data points required under Ofgem include export energy via solar, wind and local generation, all of which are forecasted to continue increasing in number.
- » Adding to these, further complexity is expected with the acceleration of transport and heat electrification.

Regardless of the gaps in utilities' current ability to provide this level of data agility and rigour, the deadline for accomplishing this transformation is fast approaching.

Need a Proven Leader to Solve the Challenges

Consultants and start-ups are scrambling to create and test out technology and commercial solutions for a suddenly expanded UK utility market, searching for a way to meet regulatory requirements around settlements.

With customer data, meter data, and large sums of money involved in the energy settlement process, utilities are understandably cautious about new solutions, while simultaneously required to meet the half-hourly mandate by October 2025.



ITRON ADVANCED DATA SERVICE (ADS) SOLUTION

Itron has a proven solution for commercial, industrial, and high-end residential Advanced Data Service (ADS). Itron ADS solution consists of several modules:

- » Itron Meter Data Collection
- » Itron Meter Data Management (MDM) – validation, estimation, editing (VEE), aggregation, and calculation
- » Market Communications Module – market messaging interface and orchestration
- » Optional managed services.

Market Qualified

Itron ADS solution will obtain market qualification through participation in the MHHS Programme System Integration Testing (SIT) and will be proven and qualified according to the MHHS programme milestones.

Compliant, Ready to Implement Solution

Itron ADS solution will be a fully compliant and accredited solution to meet Ofgem half-hourly market-settlement regulations, in the time frame established by the regulators.

Experience in Managing Complex Migration

Data migration has inherent risk factors, which Itron anticipates and addresses. Our experience with very large data migration and vendor management / supply management is extensive, focused on smooth and seamless transition of your data without any interruption or loss.

Modular Design for Flexibility

Itron ADS solution is modular by design, which allows the flexibility to select the modules which complement your existing technology stack – adopt the entire solution end-to-end, or only the modules you need.

A POWERFUL, PROVEN, SCALABLE SOLUTION

- » **Powerful Integration Technology:** Itron ADS solution includes a powerful Market Communications Module. An industry leading, focused enterprise-wide service bus solution and rules manager, with integration to DIP (Data Integration Platform) and DTN (Data Transfer Network) including message brokering, communication format validation, content translation, data mapping, and transformation including issues resolution capabilities. This technology implements the UK market business rules, associated with message order choreography, sequencing and route management.
- » **Proven:** Itron MDM has been supporting customers across the globe for more than 20 years. This proven field experience spans more than 100 customers in production, across 15 countries and 6 continents, with 50 million meters in total, managed under our MDM.
- » **Scalable:** Itron MDM is highly scalable, which means it can manage very large quantities of data efficiently to provide reliable, accurate data. Our largest customer has more than 5 million meters. Many customers have millions of meters with granular data with 5 minute interval length. Our MDM scales to process this high volume of data and has been tested in a performance lab at 10 million meters. This provides assurance that Itron MDM is a robust solution to handle very large, complex data sets.
- » **Multi-vendor:** With Itron Meter Data Collection, even our largest commercial and industrial customers experience seamless data collection support from more than 300 device types from multiple vendors, simultaneously. If there is a device type that is not yet supported, our Itron team can add support for this device type.



OVER
1,200 utilities
utilise Itron Global
Managed Services



OVER
78 million
endpoints on
Managed Services



OVER
1.3 million meters
in the UK on Managed Services

» **Optional managed services:** An optional fully supported managed services model allows your resources to focus on the critical issues that drive your business while Itron keeps your technology solutions current, optimised for performance and efficiently maintained, allowing you to maximise the value from your key metering applications. Through a managed services model that utilises a secure, cost-effective, and scalable platform, we will gather, host, and analyse terabytes of data from your network—and then leverage it to help you make the most of your smart metering data.

A TESTED SOLUTION

Itron's recent experience and success includes completing a complex implementation of our solution for Australian utilities, where nationwide regulations require a 5-minute settlement program: utilities must collect 5-minute interval data from all meters and use the data for settlement. The solution consisted of residential data collection, commercial and industrial (C&I) data collection, meter data management and market messaging and orchestration modules to communicate with other market participants.

The solution was implemented at scale for 6 customers totalling 4 million meters. Through this project, Itron gained the experience and understanding of the challenges involved, from implementation and migration, to meeting regulatory deadlines and dealing with changing specifications in the regulation. These Itron customers enjoy the following benefits:

- » Achieve the nationwide regulatory compliance, such as in Australia.
- » Enjoy 5-minute Settlements.
- » Increase customer engagement with the utility, through demand response programs and rebates <https://youtu.be/lzc7qzvR-Cg>
- » Handle the demands of smart-meter data and real-time data streaming.
- » Manage emerging energy challenges brought on by EV adoption, increases in distributed energy resources (such as solar storage, wind energies, etc.), weather events and more.

WHAT'S NEXT?

See how Itron can help you meet your regulatory requirements while transforming your business.

Contact Itron UK Sales representative, to request a deeper dive, solution demonstration, or learn more from our references.



Itron

Join us in creating a more **resourceful world**.
To learn more visit [itron.com](https://www.itron.com)

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