

Delivering confidence in half hourly settlement



How Resillion helped a leading UK energy supplier meet a major regulatory challenge

When compliance gets complicated

Ofgem's market-wide half-hourly settlement (MHHS) reform is transforming how energy is traded and billed in the UK. Instead of relying on estimates or monthly readings, suppliers must now use actual half-hourly consumption data to give customers more accurate bills and support smarter, more responsive energy markets.

But making that switch isn't just a policy change - it's a full-scale technical transformation. Half-hourly settlement demands precise coordination between dozens of systems, from smart meters and data collectors to pricing engines, customer apps and settlement platforms. What's more, every 30-minute data point needs to be accurate, validated and securely processed across a web of interdependent services.

For the energy supplier, that meant a mountain of testing and a partner who could help them climb it.

Company overview

One of the UK's largest energy suppliers, responsible for delivering electricity to millions of homes and businesses. As part of its regulatory commitments, the company is working to meet Ofgem's Market-Wide Half-Hourly Settlement (MHHS) deadline—a major milestone in the shift to a smarter, more responsive energy market.

Location

United Kingdom

Industry

Energy and Utilities

Resillion's services

- Functional and non-functional testing for MHHS readiness
- End-to-end integration and system assurance
- Testing of APIs, interfaces and data flows
- Ongoing test delivery and engineering support

Key business outcomes

- Assured regulatory compliance for the energy supplier, protects their brand and reputation, while also supporting their net-zero goals
- Reliable up-to-the-minute information now allows the energy provider to match demand to purchasing, giving them savings they can pass on to their customers
- Supports the UK's Net Zero strategy by enabling greater integration of renewable green energy into the national grid.
- Saved the energy provider time and money with an efficient and targeted testing strategy

End-to-end assurance

Resillion's energy sector specialists joined the MHHS programme to provide complete testing and assurance services, from functional validation to performance, data integrity, and compliance. Working alongside the energy provider's in-house teams, Resillion designed a layered testing approach to meet the unique demands of HHS. That included building automated frameworks to simulate half-hourly data flows, test end-to-end system behaviour, and validate that consumption data was processed, billed, and settled correctly under real-world volume and timing conditions.

The team also worked across multiple system interfaces, APIs and third-party integrations, ensuring that every component communicated as expected and that data moved securely and accurately through the entire chain. Functional testing was backed by non-functional checks - performance, load, and failover.

From manual complexity to automated confidence

This wasn't just about ticking a regulatory box. For the organisation, half-hourly settlement marked a major operational shift that touched everything from data capture to billing accuracy.

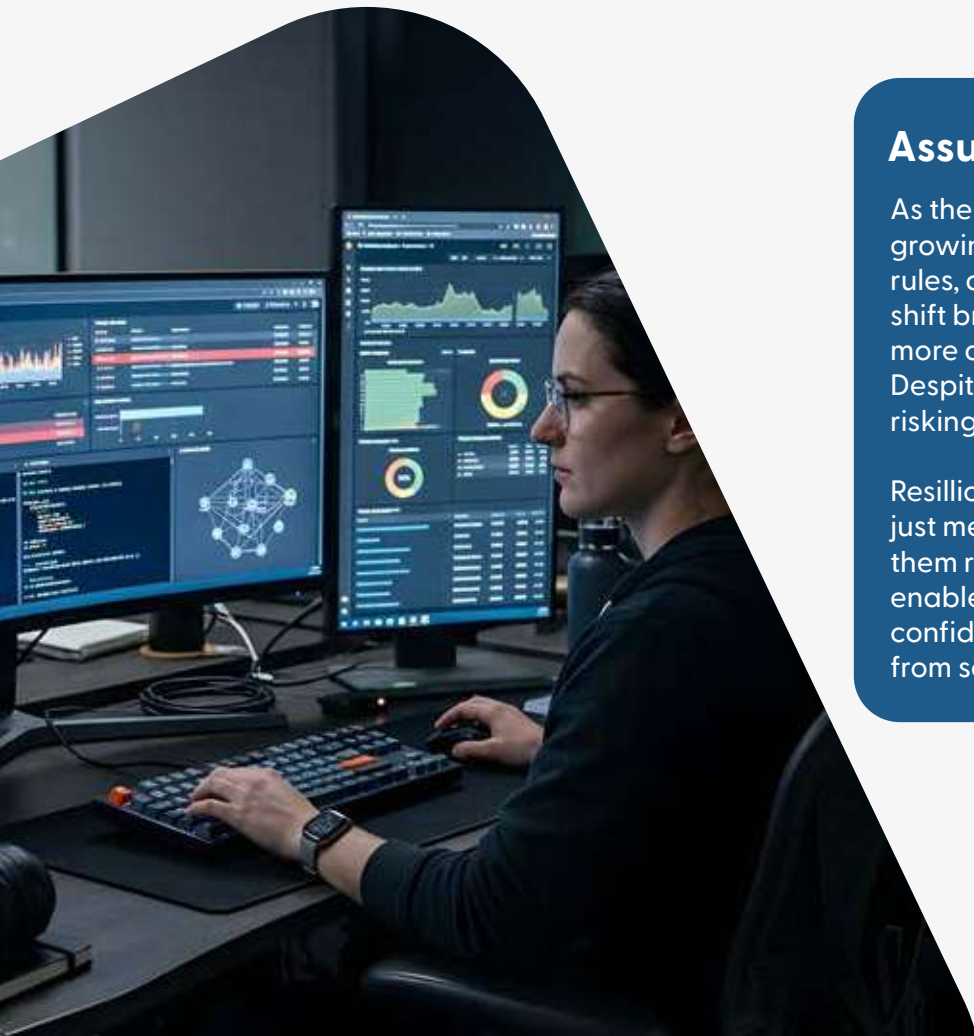
Resillion's job was to make sure each part of the system worked smoothly, even under pressure. The team developed comprehensive test capabilities across multiple complex systems, and future plans will include automating this testing to minimise ongoing testing costs and ensure rapid releases of future MHHS changes.

The company gained more than a compliant system—they now have a testing framework that adapts as the market evolves and which is already supporting future initiatives like dynamic pricing, grid flexibility, and smart tariff innovation. The result is a lot less friction, more confidence, and a system built to scale.

Assurance that scales with ambition

As the energy sector evolves, companies face growing pressure to modernise systems, meet stricter rules, and deliver better services to customers. That shift brings a complexity that inevitably comes with more devices, more data, and more dependencies. Despite that, they still needed to move fast without risking stability or performance.

Resillion made it possible. The testing approach didn't just meet regulatory requirements, it gave them room to innovate and a foundation that now enables them to respond faster, scale with confidence, and explore new ideas without starting from scratch.



“Half-hourly settlement touches every part of the energy ecosystem – from meter to market. Our job was to make sure the organisation could deliver it at scale, without missing a beat.”

Bill Chard

Resillion



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