

Industrial metering and data systems should be technology agnostic and performance driven

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Industrial metering and data systems should be technology agnostic and performance driven

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The article argues that carbon, energy and environmental reporting obligations are increasing rapidly with accountability extending to executives and Boards, and that reporting platforms are only as good as the data feeding them. We provide independent energy and carbon data architecture to ensure hardware, software and reporting platforms work together to deliver reliable, automated, audit-ready data, rather than relying on vendor-driven technology stacks.

Publication context: This article reflects its publication date. Market prices, program rules, reporting duties and deadlines may have changed. Confirm current official guidance before making a decision.

Carbon, energy and environmental reporting obligations are increasing rapidly, with accountability now extending to executive leadership and Boards. At the same time, many organisations are investing heavily in ESG and sustainability reporting platforms to meet global compliance requirements.

But reporting platforms are only as good as the data that feeds them.

Manual processes, estimated data and poorly integrated metering systems create risk, inefficiency and lost value. Northmore Gordon provides independent energy and carbon data architecture, ensuring your hardware, software and reporting platforms work together to deliver reliable, automated, audit-ready data.

The Market Challenge There are three common provider models in the market:

- End-to-End EMIS Providers Offer hardware, software and analytics in one proprietary stack.
- Meter + Platform Bundlers Provide their preferred brand of meter tied to their preferred reporting solution.
- Reporting Platform Providers Deliver powerful ESG and compliance tools but rely entirely on the quality of client-supplied data.

All are product-led. None are independent or best-fit for you.

The Northmore Gordon Difference Northmore Gordon sits above the technology.

We are not tied to any single metering supplier, software vendor or reporting platform. We independently design and deliver the right combination of:

- Sub-metering infrastructure
- Automated data collection systems
- Integration software
- ESG and reporting platforms
- Measurement & Verification (M&V;) frameworks

This ensures you receive the most cost-effective, scalable and future-ready solution, not a vendor-driven stack.

Turning Compliance Investment into Performance Value Many organisations are making significant investments in ESG and sustainability reporting systems to meet global obligations.

We ensure those investments deliver maximum value by:

- Designing the right sub-metering architecture - Automating and validating data collection - Integrating seamlessly with enterprise reporting platforms - Establishing audit-ready data streams - Enabling verification of savings and performance improvements - Supporting multi-site rollout and replication

Our approach transforms compliance infrastructure into a strategic operational asset.

Beyond Reporting - Driving Operational Insight A properly architected data ecosystem enables organisations to:

- Track energy performance indicators (EnPIs) - Monitor energy cost per unit of production - Allocate energy costs by department or process - Verify savings from efficiency and decarbonisation projects - Identify operational inefficiencies in near real time - Improve budgeting and forecasting accuracy

This is how you move from reporting to measurable operational improvement.

Sector Expertise + Execution Capability Northmore Gordon combines:

- Deep knowledge of industrial sectors - Strong project management capability - Independent technical expertise - Repeatable multi-site rollout frameworks

We design once and execute consistently across every site. This reduces risk, accelerates deployment and ensures consistent, defensible data across your portfolio.

Measure · Monitor · Manage Our framework ensures:

Accurate Measurement - Independent design and installation of right-sized sub-metering systems.
Clear Monitoring - Automated, integrated data collection aligned to reporting and operational needs.
Ability to Manage - Actionable insights that support compliance, governance and continuous improvement.

All delivered with a focus on helping organisations do more with less, less manual effort, less vendor lock-in, less reporting risk.

Northmore Gordon Your Independent Data Partner for Energy and Carbon

We provide:

- Independent metering strategy - Measurement & Verification (M&V;) - Data architecture and integration with existing systems - ESG platform enablement - Operational efficiency

Talk to us about building a defensible, scalable data foundation that supports compliance, performance and long-term sustainability outcomes

Using this guidance

Check the site's operating conditions, data quality, project stage and current program settings before turning the dated discussion into a scope or investment decision.

Related guidance

Energy audits

Measurement and verification

Contact us

Read the original article for the source publication and its full context.

What is the main argument of Northmore Gordon's article on industrial metering and data systems?

The article argues that carbon, energy and environmental reporting obligations are increasing rapidly with accountability extending to executives and Boards, and that reporting platforms are only as good as the data feeding them. We provide independent energy and carbon data architecture to ensure hardware, software and reporting platforms work together to deliver reliable, automated, audit-ready data, rather than relying on vendor-driven technology stacks.

What are the three common provider models in the metering and data market, according to the article?

The three common provider models are: 1) End-to-End EMIS Providers, who offer hardware, software and analytics in one proprietary stack; 2) Meter + Platform Bundlers, who provide their preferred brand of meter tied to their preferred reporting solution; and 3) Reporting Platform Providers, who deliver powerful ESG and compliance tools but rely entirely on the quality of client-supplied data. The article notes all three are product-led and none are independent or best-fit for the client.

How does Northmore Gordon position itself differently from other market providers?

We sit above the technology and are not tied to any single metering supplier, software vendor or reporting platform. It independently designs and delivers the right combination of sub-metering infrastructure, automated data collection systems, integration software, ESG and reporting platforms, and Measurement & Verification frameworks to ensure clients get the most cost-effective, scalable and future-ready solution rather than a vendor-driven stack.

What operational insights can a properly architected data ecosystem enable?

A properly architected data ecosystem enables organisations to track energy performance indicators, monitor energy cost per unit of production, allocate energy costs by department or process, verify savings from efficiency and decarbonisation projects, identify operational inefficiencies in near real time, and improve budgeting and forecasting accuracy. These insights support both strategic and tactical energy management decisions.

Why should metering system design begin with the business problem rather than technology selection?

A useful metering system begins by specifying the business problem, the equipment or site boundary, and the people who will use the information. The actual instrument, interval and accuracy requirements depend on the project and its governing method, not the reverse. This approach ensures technology serves as a means to answer specific questions rather than becoming an end in itself, preventing over-specification and ensuring cost-effectiveness.

What data responsibilities should be established before metering installation?

Before installation, identify who owns the data, who can access it, how it is exported and how equipment changes will be recorded. Include time-zone and daylight-saving treatment. Document whether readings are interval energy, cumulative register values or power measurements, as they cannot be combined without understanding their meaning. Ask how missing periods, resets, duplicates and implausible values will be detected and documented, preserving original observations alongside corrected datasets.

How should the measurement period match the operating cycle in industrial metering?

The metering measurement period must match the operating cycle to ensure representative data collection. Seasonal or variable operations require representative data covering complete operating patterns. Leaving measurement until immediately before installation can make the intended analysis difficult or impossible. Early planning ensures the data collected supports the business decision and

any required evidence standards for reporting or certification purposes.

What should a measurement handover specification include to make metering outputs operational?

Create a handover specifying the question each report answers, the person responsible for reviewing it and what happens when an anomaly is found. An attractive dashboard without those responsibilities can leave the original problem unresolved. This ensures metering data translates into actionable operational decisions, with clear accountability for investigating unexpected changes and maintaining data quality over time.

How does Northmore Gordon's moreData platform support technology-agnostic data architecture?

moreData is a supporting platform for energy and water data, performance analysis and reporting that collects information from multiple sources including meters, retailer bills, portals and site control systems. It provides energy/water balance views, performance indicators tracking, opportunity analysis, solar generation and emissions accounting, procurement analysis with tariff library, and NGER reporting functionality, enabling organisations to integrate diverse data sources into a unified platform independent of any single hardware vendor.