

SPONSORED BY

**SWORD**

UPGRADE YOUR BUSINESS

[www.sword-group.com](http://www.sword-group.com)

Rob Mossop, Sword UK CDO, has worked extensively as a technology and executive business consultant across many industries including financial services, public sector and energy for over 20 years. He helps to drive the development of Sword UK's global business, with a focus on uncovering new markets and partners, and helping our customers to turn vision and aspiration into practical programmes and solutions.



Rob Mossop

## Carbon Emissions Reporting and the power of real-time analytics

### The Road to Net Zero

The energy industry faces a critical task in delivering trusted carbon emissions and sustainability reporting as part of a managed energy transition to Net Zero. Without robust data and clear reporting practices, we may misinterpret the key insights that allow us to make better decisions to maximise the industry's potential to provide more sustainable energy production and ensure we collectively meet our regulatory requirements whilst delivering transparent stakeholder engagement.

The energy sector today is harnessing new solutions based on advanced analytics, machine learning and artificial intelligence capabilities as the key to unlocking the full potential of carbon emissions and sustainability reporting.

### Key Challenges in Carbon Emissions and Sustainability Reporting

Data collection and quality pose significant hurdles, with many operators using static files and disparate information sources. Collating accurate and reliable data on energy consumption, emissions, and other sustainability factors can be complicated. Data often spans multiple sources and data silos, so careful definition of the scope and boundaries of reporting is needed.

Shifting regulations and standards present continuous monitoring and compliance challenges. Staying up-to-date with changing requirements, reporting frameworks, and disclosure guidelines demands ongoing effort. Having to make changes to reporting practices on a regular basis to comply with new standards, or to adapt sets of data for different regulatory environments, can be time-consuming and resource-intensive.

Managing diverse stakeholder engagement and communication is vital for successful reporting. Different sets of reporting requirements mean that energy companies must address stakeholder needs, while ensuring transparent and constructive communication.

### Improving Sustainability Reporting with Innovation

Set up and built correctly, technology can help address reporting challenges. The advanced analytics capabilities provided by modern analytics platforms can support organisations in putting the right data, in the right hands, at the right time. This means we can extract meaningful insights to make better decisions around sustainability and carbon emissions management. These insights unveil hidden patterns, inefficiencies, and opportunities for improvement. By leveraging real-time data processing, energy providers and the wider supply chain can proactively identify environmental risks and deviations from sustainability targets, enabling prompt action and mitigation.

Cloud-based reporting and visualisation tools enable transparent and accessible reporting. Interactive dashboards and reports provide stakeholders with real-time information, fostering engagement and trust. This transparency can enhance organisational reputation and demonstrate commitment to a sustainable energy transition.

We help our energy customers to accelerate their technology progress and help avoid common pitfalls. Sword has helped our customers make significant advances by coupling advanced analytics and reporting technologies with our own Modern Data Framework, Tillit. Supported by a stack of Microsoft tools, a modern data framework connects trusted data to streamline reporting and informs decision making. We bring experience and expertise to accelerate design and implementation by engaging key business stakeholders early in the project.

As a Microsoft Solutions partner, we promote sustainable technology adoption when choosing your digital partners. Suppliers of technology software and hardware are increasingly open about their own environmental commitments. Microsoft's

commitment to sustainability and to become carbon negative by 2030 is an additional factor to consider when selecting technology for building new solutions. By leveraging Microsoft's cloud capabilities, energy providers and the wider supply chain can align themselves with a partner that shares their environmental values, fostering a culture of sustainability.

These insights unveil hidden patterns, inefficiencies, and opportunities for improvement.

### Improving Future Performance

Embracing cloud capabilities to advance your carbon emissions and sustainability reporting offers numerous benefits. By enhancing your operations through digital technology we can make key decisions based on insights these analytics deliver and optimise our energy intensive operations. This will aid in the reduction of carbon emissions and minimising operational waste. These efforts not only align with environmental goals but can also lead to substantial cost savings and operational efficiencies. Better decision-making based on trusted and consistent data enables you to develop true sustainable practices and drive long-term business value.

We can partner with you to get a head-start on the knowledge and expertise necessary to implement and optimise technology capabilities and build a better data culture. We listen to your needs and guide you in selecting the right tools and data platforms, integrating data sources, and developing innovative solutions that deliver against business objectives and enable data-driven decision making.

To bring to fruition and realise the full potential of our data, many may need to go back to basics, cleaning and rationalising data to ensure you can trust it is a critical step. With this trust you can rationalise and make data driven decisions and start to unlock the potential of real-time data and analytics capabilities into emissions and sustainability reporting. ▴

**About Sword:** As the North Sea's largest provider of data and digital services, Sword focuses on solving the industry's most critical business technology challenges by enabling our clients to capture, manage and utilise data to make informed decisions. This is supported by technology adoption and people engagement, together with modern ways of working to give confidence that the right decision is made every time.

