

ENVIRONMENTAL REPORTING AS A SERVICE



Sustainable Solution for Environmental Reporting

Most industrial multinationals have an environmental data management system in place but not many offer the benefits of integration with production data systems, standardised approach across all facilities and centralised calculations.

Bilfinger Tebodin and IBM joined forces in providing environmental reporting as a service (ERAS) to the industry. The requirements of environmental reporting are becoming stricter, partly due to environmental legislation itself but also because of the integration with financial reporting. At the same time, developments in IT offer more powerful and efficient solutions. ERAS helps ensure quality reports at an attractive cost. Quality means that the reported numbers are calculated based on validated primary data and are calculated according to approved calculations methodologies with sufficient accuracy,

Market

- Oil and Gas Industry
- Heavy Industry
- Industrial Multinationals

consistent for all facilities, within the required timeframe, and solid audit trail.

The Challenge

Most companies are still using spreadsheets or stand-alone databases for environmental reporting, which are not sustainable in terms of transparency, validation, assurance, and speed. Such systems would be totally unacceptable for

financial reporting. Environmental reporting begins conventionally with a painstaking data gathering process, followed by first conversion of the primary data, and second calculations that may require composition, density, equipment-related factors, and operation modes. The calculation results then need to be checked and aggregated. The whole process is labour-intensive and error prone. Setting up the data collection system is a project in itself but maintaining data quality is another challenge with continual changes in operations, calculation methods, reporting requirements, and staff members. Typical flaws are aggregation errors (double counting, missing parts); incomplete and/or outdated documentation, unclear validation of primary data, and differences in interpretation of definitions.

ERAS as a Solution

With the ERAS service in place, Bilfinger Tebodin and IBM can configure and maintain the software and hardware needed for recurrent reporting. The operations are configured in dedicated software from SAP. Once the system is implemented, ERAS consists of processing primary data from the operations and returning the desired environmental reports, for example on a monthly basis.

The system consists of a database, a calculation engine, and a reporting tool. Primary data storage is structured along source hierarchy, operation mode, time period, and data parameters. Calculation templates are used to calculate the required environmental key parameters. For example, CO₂ emissions are based on the volume flow, density, composition and oxidation rate.

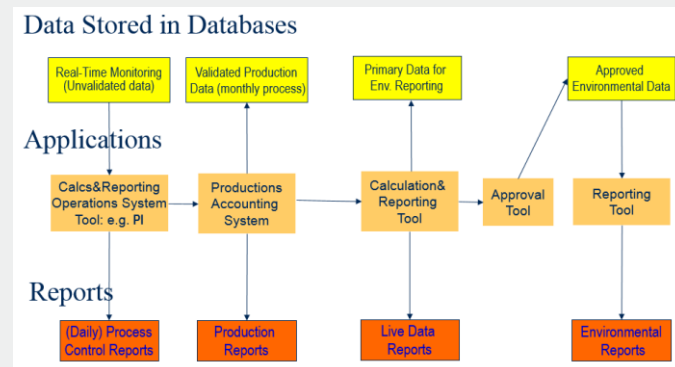
The typical advantages of outsourcing environmental reporting are:

- More time for staff to focus on HSE by spending less time on reporting processes and supporting IT systems
- Reduced costs compared to a typical company owned system
- Consumption based pricing
- Less vulnerable to sustain specific expertise
- Keeping the system up-to-date with software developments
- Independent party to joint ventures for corporate reporting.

Bilfinger Tebodin and IBM

Employees of Bilfinger Tebodin and IBM have worked together successfully in the environmental reporting team for an international Oil & Gas company and are able to offer a unique service as a sustainable solution for environmental data management. Bilfinger Tebodin and IBM have both

established long-term relationships with many industrial companies. Bilfinger Tebodin as a consultancy and engineering company has the expertise on industrial processes and environmental impact. IBM has smart IT solutions and is engaged in various software as service agreements.



Interested?

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Engineering & Technologies

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