



Data is the lifeblood of oil & gas operations

The oilfield of today and tomorrow is driven by digital data: real-time measurements that help visualize drilling conditions miles underground; sensors streaming information related to hydrocarbon production; digital earth models being shared by teams across distant locations.

Energistics' industry-developed data exchange standards are the foundation of digital transformation in upstream oil & gas.



About Energistics

Energistics is a global non-profit consortium dedicated to the development and adoption of open data exchange standards in the upstream oil and gas industry. Energistics provides a forum for members to develop data exchange strategies for the present and future of an interconnected industry, ensuring data integrity and reliable real-time transmittals.



From Drill Bit to Decision



Real-time data is critical to the remote monitoring of drilling activities. Data must travel instantly and continuously while being shared among numerous stakeholders. There needs to be total trust in the data's validity. Energetics data transfer standards and protocols provide the foundation for well data transfers to work efficiently around the globe.

Collaborative Reservoir Models



Modern workflows to build and simulate complex reservoir models involve different teams and many software packages. The reservoir models must retain all the knowledge created at each step. Energetics standards ensure that the model can be enriched at each step and passed on seamlessly to the next process.



Production Data at your Fingertips



Energetics standards can convey a large amount of metadata detailing the provenance of the data over time - i.e. what has been done to it, by whom, using which tool, etc.. - in order to establish data trustworthiness. Production data can be fed with confidence into production monitoring and reporting systems.

Test and monitoring data such as PVT, Wireline Formation Testing, DTS, DAS and many other time series are part of the standard.

Energetics Standards Today

WITSML™ transfers well-related data between operators and service companies. It encompasses all aspects of drilling, completions and interventions.

PRODML™ supports the exchange of hydrocarbon flow-related data from well bore to custody transfer, together with field service data, engineering analyses and more.

RESQML™ shares reservoir models between software packages used in E&P subsurface workflows. RESQML defines a rich set of subsurface data objects and metadata to capture and preserve asset knowledge.

ETP (Energetics Transfer Protocol) is a proven data exchange specification that delivers true real-time data streaming and is capable of handling today's increasing volumes of data associated with real-time monitoring.

A seamless platform

The Common Technical Architecture underpins the latest iteration of our industry-developed standards, making it possible to support the data needs of cross-functional asset teams by effortlessly combining elements from WITSML, RESQML and PRODML.

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