

A photograph of a large white industrial storage tank with a blue spiral staircase winding around it, set against a clear blue sky.

Oil & Gas

A close-up photograph of a blue spiral staircase on an industrial structure.

Industry ECM Solutions

The volatility of the world's energy markets requires forward-thinking Oil & Gas companies to keep improving the effectiveness and reliability of their production assets to control operating costs as well as to achieve an improved safety and integrity environment.

Controlling the management of engineering content like engineering drawings and other technical documentation throughout the enterprise and in all phases of the asset lifecycle enables Oil & Gas companies to minimize downtime, reduce overhead costs and improve safety and integrity. To meet your business challenges, BlueCielo ECM Solutions provides solutions for Oil & Gas that deliver a powerful combination of proven engineering content management (ECM) technology and a comprehensive, integrated industry solution built specifically for Oil & Gas companies.

InnoCielo Meridian Enterprise

InnoCielo Meridian Enterprise is a popular choice among Oil & Gas companies that are looking for a way to connect vital engineering content with the rest of their (distributed) enterprise. It is an asset-centric engineering content management solution that keeps all your technical asset information complete and up-to-date while making it available to the rest of the organization in an efficient and controlled manner.

InnoCielo Meridian Enterprise manages engineering drawings from process and instrumentation diagrams (P&IDs) and isometrics to single line and instrumentation diagrams, specification sheets, operating procedure manuals, calculation sheets and other asset-related documentation. It also streamlines the management of document updates and changes with electronic mark-up, modification, routing and approval of documents.

The software helps to promote operational excellence throughout the enterprise and to comply with regulatory requirements.

Industry Challenges

Lack of Document Control Results in Inefficiencies

Frequently, information that is available about existing assets is spread across several locations within the organization. If certain engineering documents are required for operational, maintenance or engineering activities, a lot of time can be spent on finding the most up-to-date (as-built) documents.

It is also often uncertain whether people are working with the correct version. When it is not clear if the information on the drawing represents the as-built situation, a time-consuming local asset/drawing verification needs to take place.

In other cases, various people may even be working on the same document simultaneously, which can easily be a source of miscommunication.

Loss of Production Due to Poor Documentation

Technical documents and operating procedure manuals are crucial for performing (preventive) maintenance on an installation. However, it often happens that the right documents showing the as-built situation are not easily or immediately available for maintenance engineers when the need arises.

Consequently, this may result in extended production stops because decisions and ordering parts were based on inaccurate information.

No Proper Control of As-Built Information

Changes to a production installation can involve modification of various documents that will be modified at the conclusion of the project.

The same documents can also be required for other concurrent projects that are being executed at the same time. This makes it generally difficult to maintain a clear overview and is a potential source of errors.



Controlling Receipt and Handover of Documents with External Parties

Often multiple contractors are involved in the execution of a project. A lot of work can be required to keep up with tracking which documents have been sent to whom and when. Also monitoring which version has been distributed and processing the deliveries of adjusted documents can be laborious. Enforcing company standards on outside contractors makes projects very costly, so standardization is often dropped from contracts to expedite projects.

Management of Digital Information

Controlling technical content is as important as controlling digital files. The asset lifetime can be over 25 years. Digital durability cannot last this period of time and needs to be actively managed. If omitted or poorly managed, files cannot be viewed, printed or modified when needed, which will result in time-consuming and costly adjustments. Also, different types and versions of digital files need to be actively monitored and maintained.

Major Benefits

Enhance Document Identification

To improve document management and access, it is important to make a distinction between the documents that are crucial within the organization and those that are for information only.

Crucial documents include P&IDs overview and detail drawings and specification sheets. Secondly, it is important to establish a tag-doc link between the documents and assets that enables the organization to access technical data faster. The “tag-doc relation” also makes it possible to determine which document types have to be in place for certain objects based on Safety, Health and Environment (SHE) guidelines, for example, based on hazard classifications.

Connect Engineering and Maintenance

By establishing the relation between assets and documents in InnoCielo Meridian Enterprise, the maintenance department will have the correct, up-to-date documents immediately available through the Maintenance Management System without losing time searching. Ultimately, this enables repairs to be carried out more quickly while production stops are prevented or kept to a minimum.

Create Proper Project Documentation

InnoCielo Meridian Enterprise makes sure that people can continue to work with the latest released documents while adjustments can be made during the execution of the projects. This ensures that Maintenance has access to the as-built information. After completion of a project, the right technical data needs to be available for future maintenance. In addition, other ongoing projects need to incorporate changes to get earmarked as as-built.

By identifying which documents have to be in place and by establishing their relation with the assets during engineering, it is possible to achieve compliance with important regulations, which means that handover to the organization can take place quickly.

Keep Track of Relevant Data

The InnoCielo BriefCase module enables organizations to create a set of documents and send them to external parties along with the metadata. The BriefCase provides a completely transparent overview of what has been sent – when, to whom and what version. If the external party wants to create a new document, they can use the templates sent along with the BriefCase. This disposes of the necessity to impose standards on external parties and they no longer need to make any additional monetary investments to work with your tools.

What Customers Say

“The main reason that all this functionality has been realized is that InnoCielo Meridian Enterprise, while being a standard ECM software product, offers extensive customizability that enables it to be tailored to meet our specific needs. KTB Consultants AS has supplied us with a cost efficient solution that meets our requirements 100%.” – Per Skarung, Implementation Facility Manager, ExxonMobil Norway

Your Bottom Line

With InnoCielo Meridian Enterprise for Oil & Gas, companies can immediately gain significant benefits in productivity and efficiency as well as improve safety and integrity. Operational excellence will be boosted through higher return on assets and lower production costs, which will in return create better profit margins.

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