

Energy Asset Integrated Delivery is Transforming the Delivery of Energy Production Infrastructure

The Energy Asset Integrated Delivery solution gives owner-operators and contractors of energy production, such as hydrocarbon production, offshore wind, and plant facilities, the ability to view all their integrated engineering and asset management information within a single portal. Built within a digital twin environment, the solution enables collaboration between the engineering, construction, and maintenance teams to give facility stakeholders full visibility into all data of their energy assets, whether that data is for work-in-progress or for as-built assets.

ELIMINATE DATA SILOS AND CYCLE TIME

During the conceptual engineering and detailed design phases of energy production projects, a vast amount of data, such as asset information and engineering design information, is exchanged between contractors and the facility owner. This process contains many manual steps and is therefore inefficient when teams are communicating changes and the availability of new data. They need faster access to the most accurate and up-to-date information to streamline their engineering cycle time and improve project viability and profitability.

FULL ENGINEERING VISIBILITY AND COLLABORATION

The Energy Asset Integrated Delivery solution brings together Bentley's innovative software and interoperability to provide an immersive and visual digital environment. Up-to-date asset information is easily found and tracked across the entire asset lifecycle by simply clicking on the asset in the digital twin. The 3D models within the digital twin, and the information contained therein, are always kept up to date for an evergreen connected 3D model. This means that any update in the system will be automatic, resulting in fewer errors, less work duplication, and less disruption caused by handovers or a change in resources. It is critical to show the progress of any large energy related project as a whole. Now, with a connected 3D model, all stakeholders, both internal team members as well as external vendors and contractors, have full visibility of the project and can see how the dynamics are changing in different parts of the operation.



CHALLENGE

Managing and maintaining up-to-date information during the conceptual engineering and detailed design phases.

SOLUTION

Bentley's solution provides a digital line of sight for all connected engineering and asset information within a single digital twin environment for improved collaboration, visibility, and efficiency.

KEY BENEFITS

- ◆ Improve productivity
- ◆ Reduce project risk
- ◆ Increase design review efficiency
- ◆ Improve brownfield project selection process
- ◆ Find information 50% faster and make more informed decisions