

ONBuild Helps EPC Achieve Integrated Planning & Execution



PROJECT OVERVIEW

Greenfield Gasification Complex

The Greenfield Gasification Complex in Singapore underwent a transformative \$1.4 billion expansion project, poised to elevate its capabilities in advanced gasification technologies. This state-of-the-art development aimed to enhance production efficiency, sustainability, and capacity to meet growing energy demands in the region.

Strategically located in Singapore, the complex will integrate cutting-edge processes and infrastructure, further solidifying its role as a key player in the energy transition and industrial decarbonization efforts.

THE CHALLENGE

Manual project execution processes

Implementing best practices for project efficiency can be challenging without ensuring that all stakeholders have access to the same critical information, such as the construction model. Although the Owner and EPC teams had well-aligned processes, maintaining consistent data requirements and enforcing best practices proved difficult when relying on manual workflows.



O3 fills a gap in our technical landscape - there is very little overlap between O3 and our current tools. It is a powerful reporting platform and we are discovering new opportunities for using it.

Construction Productivity Manager
LEADING GLOBAL EPC FIRM

THE SOLUTION

ONBuild with Graphical Work Packaging

O3 enabled users to integrate best practices, such as issuing constraint-free packages, with the EPC's customized configurations and approvals. By building packages directly from the 3D model, stakeholders could collaboratively plan and prioritize work in a single tool. O3's features, including assigning construction components to rules of credit and tracking man-hours per package, transformed planning efficiency and cross-team coordination.

THE RESULTS

Driving project excellence

Implementing best practices and leveraging ONBuild drove significant improvements across project workflows, including:

Early Transparency: Providing clear visibility into project data and progress allows teams to identify and address potential issues before they escalate.

Shared Accountability: A common platform ensures all stakeholders stay aligned and accountable for their roles and responsibilities.

Data Integrity: Enforcing stringent data requirements and quality standards enhances accuracy and reliability throughout the project lifecycle.

Seamless Handoffs: Streamlining the transition of CWP to construction ensures teams can execute efficiently with all necessary resources and information.

50%





reduction in workforce planners staffing budget

4,000+

construction work packages created

ONBUILD BENEFITS

Powerful construction execution

-  Efficiently plan installation and testing packages with best-in-class workforce planning, constraint management, our cutting-edge packaging copilot.
-  Identify and remove blockers early with constraint management and RFIs. Manage change rapidly with data review, change notification, and quarantine.
-  Enable rapid decision-making with innovative 3D and 4D visualizations, including real-time progressing.
-  Supports multiple project methodologies within an AWP framework to meet all stakeholders where they are.

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