



Large infrastructure projects within the Energy industry are striking and never ending

As the world needs more, we build more. And as technology evolves so to does the infrastructure, we rely upon to power our world.

Over the last two decades Oil and Gas companies have measured success by how much output was generated (volume of oil, gas or other) and as such have continued to optimize their operations to increase this key KPI.

technological requirements and increasing regulations. To achieve this, it has become a necessity to have complete transparency of your operations and a detailed understanding of the full lifecycle of your assets.

Today, while optimized productivity remains imperative, Oil and Gas companies must accommodate new objectives such as decarbonization and sustainability goals,

In this infographic we will look to outline the **4 key stages of the Oil & Gas process** and how the need for connected operations has become a must have, not a nice to have.

Stage 1 – Capital construction and installation

The process of collecting resources is complex and requires the construction and installation of key capital assets, be that oil rigs, fracking pumps, gas drills, etc. And this is just the start – with operations supported by pipes, crossings, pressure control equipment, storage containers, field equipment and so on. The demands are immense.

And this doesn't even take into consideration if your operations are offshore, in a disconnected environment or in unstable terrain.



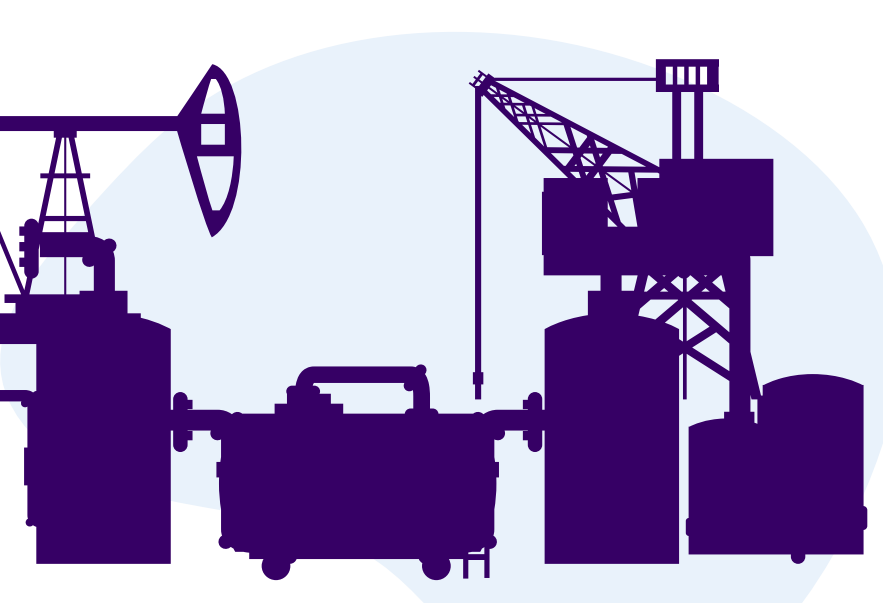
Step 2 – Resource Storage/Refinement

Once the resource has been extracted, the next challenge is the storage and refinement of it. It's in this part of the process that many companies determine the profitability of their operations as they can accurately forecast the amount that will be sent to the end consumer.



Step 3 – Deliver to customer

In the scenario where the extracted resource such as crude oil has been refined into its end form, be that propane, gasoline, diesel, jet fuel, heating oil, etc. It needs to be transported and this is typically done utilising vessels, rail and trucks.



Step 4 – Decommissioning

The final stage of this process is decommissioning the capital asset, when the initially selected site has run dry, it's the responsibility of the oil and gas company to break down their assets and return the site to its former state.



Staying Connected

In this simplified scenario the key to success is ensuring that each stage is connected. With a typical refinery capable of generating 1TB of raw data every day understanding how to collect and utilize this data for optimizing your operations.

To produce real-time data intelligence, Oil and Gas companies must harness data generated across the operation, connecting the business at its most granular level.

The Power of IFS

IFS Cloud connects all aspects of these large infrastructure projects, providing industry-leading enterprise asset management (EAM) and resource planning (ERP) technologies. IFS also enables innovative capabilities such as digital twins. These systems generate an exact digital copy in real-time, ensuring status reports from third-party contractors align with the data.

The benefits of IFS during the planning phase extend to support the operation once the project goes live.

For example, **IFS Planning and Scheduling Optimization (PSO)** was instrumental in controlling all moving pieces during construction, including the scheduling of workers, contractors, and other third parties such as city crews, traffic control, permitting services, and others.



An industry in change

As with all Oil and Gas projects, flexibility is vital. While IFS Cloud supports end-to-end project lifecycle management, the platform is composable to accommodate applications and technologies already in use, integrating seamlessly with existing enterprise applications for a truly connected operation.

To learn more about how IFS supports Oil & Gas organizations.

[Get in touch today](#)

About IFS

IFS develops and delivers cloud enterprise software for companies around the world who manufacture and distribute goods, build and maintain assets, and manage service-focused operations.

Within our single platform, our industry specific products are innately connected to a single data model and use embedded digital innovation so that our customers can be their best when it really matters to their customers – at the Moment of Service™.

The industry expertise of our people and of our growing ecosystem, together with a commitment to deliver value at every single step, has made IFS a recognized leader and the most recommended supplier in our sector.

Our global team of 5,000 employees every day live our values of agility, trustworthiness and collaboration in how we support thousands of customers. Learn more about how our enterprise software solutions can help your business today at ifs.com.

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