

ExxonMobil PNG

Powered by Innovation



ExxonMobil

PNG LNG – 10yrs of world class performance



Leveraging data to drive innovation

The background image shows two industrial workers in a factory setting. They are wearing white hard hats and high-visibility yellow shirts. The worker on the left is looking towards the right, while the worker on the right is looking down at a device. The background is filled with industrial machinery and structures, with warm lighting.

“The goal is to turn data into information and information into insight.”

~ Carly Fiorina, former chief executive officer, Hewlett Packard.

Data is at the heart of complex operations

Innovative organizations turn data into insights which drive action

Since startup, EMPNG has brought industry-leading innovation to PNG, and is currently producing above design capacity due to data-driven debottlenecking and optimizations

Continuing to take data-driven innovation to the next level:

- Advanced process control systems enhance plant performance
- Next generation machine learning tech to derive insights
- Real-time optimization software which can automatically adjust operating parameters
- Predictive and condition-based maintenance
- Enabled through data foundation and support structure

Connecting the data to the expert – Fast!

Smart Tools used at the job site, connect the worker to the information they need and the information they collect to where it is needed quickly

Cloud based technologies can immediately present data gathered in the field to the expert who needs it, regardless of where they are

Wireless Sensors are providing data directly from equipment and systems where once before it was not perceived or possible



“With data collection, ‘the sooner the better’ is always the best answer.”

~ Marissa Mayer, IT executive and co-founder of Lumi Labs, former Yahoo! president and CEO



Visualizing the data in context



A foundation of trusted data designed as a “system of reference” for visualization tools

Various software platforms utilize the data foundation to translate the data into visual contexts

Process mining software providing insight into improvements that save time and money

A digital twin of the facility to visualize information in context of a 3D environment

“People spend 60% to 80% of their time trying to find data. It’s a huge productivity loss.”

~ Dan Vesset, group vice president, IDC

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