

Safeti Performance Forecasting

Asset Efficiency Performance Forecasting



Assets and future development challenges

Asset owners are increasingly seeking more effective methods for management of their current assets and future developments, thereby improving performance and reducing costs. DNV Software's Performance Forecasting tools allow users to safely and responsibly analyse and improve production efficiency.

Managing your asset presents many challenges with numerous, often complex and inter-related parameters:

- gas deliverability over venture life
- network / plant configuration
- equipment reliability
- logistics (e.g. spares)
- maintenance resource levels / availability
- unit re-start times (maintenance and process related)
- operational logic (flexibility)
- unit costs/rates and OPEX (operating expenditure)
- gas demand requirements (contractual supply obligations)

Our advanced simulation tools

DNV Software provides a range of Reliability, Availability, and Maintainability (RAM)

based Performance Forecasting software products building on traditional RAM analysis but with additional advanced features and capabilities enabling you to predict and understand your plant performance and identify areas for improvement. By combining your understanding of the system to be modelled and the Performance Forecasting simulation tool appropriate to your industry you will be able to derive the true quantifiable benefits likely to result from adopting a particular strategy.

DNV Software's Performance Forecasting tools are used at various project stages, from the design concept screening stage, through proving detailed design to optimising mature assets.

Our simulation software suite provides quantitative asset performance forecasting capabilities including:

- Performance forecasting for new upstream production assets (offshore/onshore)
- Performance forecasting for mature assets
- Sub-sea Performance forecasting
- Onshore Oil & Gas Processing Terminals
- Security of supply of gas and LNG supply chains
- Plant-wide reliability for downstream plants

DNV offers a suite of software applications for asset performance forecasting for upstream and downstream assets. Enhanced functionality can be provided to model advanced logistics such as that required for LNG operations. These applications are marketed under the Maros and Taro brands.

DNV Software

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