

Online lube optimization tool

Optimize lube product yield and quality with quick and easy assessments

Energy lives here

The online lube optimization model is a predictive tool that enables you to quickly and cost-effectively test the impact of feedstock and operational changes on lube product yield and quality. Developed from years of ExxonMobil expertise and experience, the tool can be tuned to match actual unit performance, delivering valuable data to help enable decisions about how best to:

- Evaluate feed flexibility
- Optimize product mix
- Maximize operational value

Two modules

The model has lube hydrocracker (LHDC) and dewaxing modules, which can be run independently or linked. Each module predicts process performance and product yields and qualities based on key operating variables, such as average reactor temperature, space velocity, pressure, product fractionation cut point and separation efficiency.

Customized for you

The optimization model provides more accurate, quantitative guidance when tuned to the specific unit commercial data using available tuning factors. The tuned model can be used to expand the unit's operating envelope with new feed and product specifications, and to optimize the process performance.



Key benefits



Scenario planning

- Perform case studies
- Feasibility screening



Product mix optimization

- Maximize value



Expand operating envelope

- Evaluate feed flexibility
- Understand operational resilience



Enhanced collaboration with ExxonMobil experts

- Secure cloud-based sharing
- Common data view

Key features



Easy functionality

Input cells constrained to prevent input errors and define operating windows



Continuous upgrades

Ongoing updates based on our latest research and commercial data



Secure data

Housed on dedicated Amazon Web Services (AWS) servers



Predictive accuracy

Model can be tuned to match actual unit performance



Expert support

Onboarding, model tuning, user training, annual tuning and refresher training



Versatile capability

Hydrocracking and dewaxing modules available

About us

ExxonMobil helps refiners and petrochemical manufacturers increase capacity, lower costs, improve margins, reduce emissions and operate safe, reliable and efficient facilities. Along with a commitment to helping to implement best practices and to achieve better results, we provide cutting-edge proprietary catalysts and license advantaged process technologies for refining, gas and chemical needs.

Accurate quantitative guidance to optimize process performance and create value.

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