



ACCIAM
Consulting, Training & Research

UNDERSTAND AND IMPROVE YOUR REFINING ECONOMICS BY FINE-TUNING YOUR LP MODELS

A REFINERY MODELING CASE STUDY



An outdated LP model can misrepresent your margin calculations by up to **2.0 US\$/boe**

AT A GLANCE

Challenges

From a study performed by ACCIAM, we fine-tuned the FCC % conversion by upgrading the unit model as well as the gasoline properties to the most stringent specs in the market

Benefits

Our results show that an outdated model can misrepresent the refinery's margin calculations by up to **2.0 US\$/boe**

OBJECTIVES

Evaluating refining economics involves complex calculations incorporating crude oil and products' physical and chemical properties, units operation, logistic constraints, and prices. This turns out to be a very large set of equations and variables, compiled into a matrix (LP model). Finding the optimal solution for the matrix is not an easy task, and obtaining **valuable insights** from the results requires the **right expertise**.

SOLUTIONS

Through an extensive library of different processing units (catalytic crackers, hydrotreaters, distillation units, among others) as well as our expertise in setting up and fine-tuning LP models, we can put together all the elements required to obtain solutions to your refining operations using **Aspentech PIMS®***, the market leader for hydrocarbon manufacturing & optimization software.

BENEFITS

By using a well tuned LP model, together with the right price datasets, refiners are capable of making the most sound decisions under different price environments, as well as understand the impact of planned/unplanned maintenance work, product specs, and crude oil price/quality.

*We are a **certified Aspentech PIMS®** user as well as a member of the **AspenTech Partner Network**.

Contact us at contact@acciam.com

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