Technology-Integrated Profitability Solutions

OPTIMIZE YOUR INVESTMENT, ENHANCE YOUR PROFITABILITY

Comprehensive consulting programs for tactical and strategic refinery optimization
UOP Technology-Integrated Profitability Solutions (TIPS) offers you further insight into your opportunities for profitability improvements. As market conditions grow more complex and continue to shift globally, refiners must look for ways to maximize their investments and get more from their existing assets.

UOP LLC, a Honeywell company, has a long-standing history of providing world-class services and solutions through the entire plant lifecycle. We are dedicated to flawless technology delivery, seamless start-up, and trouble-free and profitable operations. Whether you are deciding on a grassroots configuration, modifying the existing configuration of your plant, adding feed or blendstock flexibility, increasing yields of desirable products or reducing operating costs, UOP will help you meet your business objectives.

**Discover how to get more from your operations**

Optimization of your plant is critical to achieving and maintaining profitability. The UOP TIPS consulting services include a broad range of tools that look at the short-term opportunities for technology-focused enhancements and improved efficiencies as well as longer-term investment planning and configuration design. Each of our solutions is backed by robust methodology and long-standing technology expertise that allows us to best identify where you can capture additional value. We work closely with your team to help you get the most out of your technology investment.

---

**Align Your Business with Current Market Drivers**

**Optimize Capital Spending**

**Identify Profit Opportunities**

**Improve Key Product Yields**

**Discover Integration Opportunities**

**Manage Energy Consumption & CO₂ Emissions**

**Optimize Hydrogen Utilization**

**Address New Regulations**

**Manage Investment Risk**
Continued optimization of your plant is a critical part of maintaining and enhancing profitability.

**Tactical Opportunities**

UOP tactical consulting solutions closely examine your current operations and help you determine how to unlock the most value from your operations. From improving yields and margins to addressing new regulations and enhancing efficiency, we can help you meet your business objectives.

Today’s refineries and petrochemical plants face ever increasing challenges. UOP experts evaluate individual process units or process blocks across an entire refinery complex, or even across multiple sites to identify key opportunities.

- Unit performance improvements
- Refinery-wide profitability studies
- Energy & CO₂ optimization
- Hydrogen management
- Scheduling and blending consultation
- Evaluation of processing options
- Debottlenecking
- Linear Program (LP) optimization

**Strategic Solutions**

Our dedicated teams of business-minded technologists and analysts can help you develop and implement optimal capital spending and operating plans to get the most from your investment.

Our focus is on programs that can help your business grow. We offer grassroots configuration planning to help you find the optimal scheme of process technologies to meet your objectives. Our refinery configuration studies address complex issues like heavy-crude upgrading, refinery/petrochemical integration, clean fuels production and expansion studies.

- Configuration design
- Investment strategy planning
- Gasoline manufacturing schemes
- Diesel maximization strategies
- Incorporation of biofuels
- Managing licensor

**TIPS**

Technology-Integrated Profitability Solutions

**Tactical Solutions**

**Technology - Focused**
- Process unit or process block
- Complex-wide or refinery-wide
- Multi-site

**Systems/Network - Focused**
- CO₂/energy management
- Hydrogen management

**Strategic Solutions**

**Grassroots configuration**
- Investment strategy
- Configuration definition

**Processing solutions configuration**
- Dieselization
- Gasoline pool
For almost a century UOP has built unparalleled experience and knowledge in the refining and petrochemical industries. We have developed more than 50 process technologies used in refineries around the world supported by more than 90 different catalysts and adsorbents as well as key mechanical equipment and systems. This insight is a distinct advantage when looking to enhance your profitability.

Most importantly, the solutions we propose are based on our knowledge and understanding of the full operating range of today’s state-of-the-art technology, products and equipment. Our solutions account for the most recent technology improvements, which is critical to challenging current operating assumptions and driving the most value for our customers. Our experience in unit design and revamps allows us to determine the best ways to debottleneck or modify the unit, and highly accurate process modeling tools will predict the economic impact of these changes. We provide complete feedback that can go quickly to implementation allowing you to focus on the benefits.

Proven Success

Our customers are seeing the benefits of our tools and experience. To date, UOP has conducted more than 100 studies for our customers with outstanding results.

Our team has executed a tactical refinery-wide program that realized $10 million savings each year through debottlenecking, energy optimization and increased product recovery. Additionally we helped another customer identify $35 million in additional annual margin by leveraging synergies across multiple sites.

Put Our Experience to Work for You

We’ve developed robust tools and methodologies based on our extensive knowledge that will quickly identify and prioritize opportunities. We model a full slate of available technologies, including innovations not represented in generic models, to help you make the best decisions based on the technologies that will be used in the next generation of hydrocarbon processing.

Find out more

If you are interested in learning more about our Technology-Integrated Profitability Solutions for your refinery, please contact your UOP representative or visit us online at www.uop.com/TIPS