SHUTDOWNS & TURNAROUNDS
HEAT EXCHANGERS & AIR COOLERS

STAATSOLIE REFINERY

MAJOR SHUTDOWN SURINAME

Delivering precision, pace and performance on first full-scale refinery shutdown in Suriname



CLIENT: Staatsolie Maatschappij

YEAR: 2020

BUSINESS LINE: Infrastructure and Industrial Solutions

THE CHALLENGE

In February 2020, Staatsolie Maatschappij launched the first full-scale shutdown of its Tout Lui Faut Refinery. Suriname's largest and most complex refinery operation since it began production in 2015. The goal: execute a comprehensive inspection and industrial cleaning program across all major units to ensure safe, reliable operations on restart. The challenge? A remote location, a tight timeline, and a massive scope involving dozens of critical assets.

THE SOLUTION

EnerMech mobilized a combined local and international team, along with 10 ultra-high-pressure (UHP) water jetting systems and automated cleaning equipment.

The team worked around the clock to deliver internal and external bundle cleaning, tube and fin fan cleaning, and 3D nozzle cleaning for vessels and columns.

By deploying multi-skilled personnel and leveraging automated technologies, EnerMech ensured safe, efficient execution across all scopes.

THE OUTCOME

EnerMech completed all scopes ahead of schedule, helping Staatsolie minimize downtime and restart operations faster than planned.

The quality of work and safety performance met and exceeded client expectations. This successful delivery reinforced EnerMech's capability to execute large-scale shutdowns in remote and logistically challenging environments, while maintaining high standards of safety, quality, and efficiency.

The scope included the full cleaning and inspection of all major process units, including

- 52 heat exchangers
- 33 air coolers
- 40 vessels
- 11 columns.

KEY HIGHLIGHTS

- Mobilization of 10 UHP water jetting units and automated cleaning systems
- 24/7 operations with local and international crews
- Cleaning and inspection of 130+ major refinery units
- On-site quality control and assurance to meet client standards
- Strong HSE performance throughout the shutdown

TIMELY DELIVERY

EnerMech completed all inspection and cleaning scopes ahead of schedule, helping Staatsolie reduce downtime and restart operations faster than planned, critical for maintaining refinery output and operational continuity.

HIGH VOLUME EXECUTION

Over 130 refinery units, including heat exchangers, air coolers, vessels, and columns, were cleaned and inspected using advanced UHP and automated systems.

EnerMech
Energizing Energy