



Powering Progress Through Precision Refining
Refining

LOCATION

Hamriyah Free Zone, Sharjah, UAE

FOCUS

Global Petrochemical Excellence

WHO WE ARE | CORPORATE OVERVIEW

SUN PETROCHEM FZC is a state-of-the-art oil and petrochemical processing leader based in the **Hamriyah Free Zone, Sharjah, UAE**.

We specialize in producing high-quality fuels and petrochemicals products, leveraging advanced technology to deliver consistent quality across all product streams. Our fully automated facility ensures precision, safety, and operational excellence in every barrel.



 **1,000 MT**
DAILY CAPACITY


 **PLC Based**
FULL AUTOMATION

OUR MISSION

SUN PETROCHEM FZC is a UAE-based oil and petrochemical company operating a **1,000 MT/day** refinery, producing **Naphtha, White Spirit, Base oils, and Fuel oil** through advanced, fully automated processing systems, with a strong focus on **quality, innovation, and sustainability**.

OUR VISION

Elevating the regional industry, supporting economic growth, and contributing to a sustainable future through responsible production and continuous improvement.

 Strategic Hub: Hamriyah Free Zone, Sharjah, UAE — Connecting Global Markets.

Our Journey: A Decade of Growth

From a focused regional operation to an innovative industry leader.

PHASE I



Founding & Vision

Established in Hamriyah Free Zone.

PHASE II



Technological Leap

PLC automation and 10 modular distillation kettles.

PHASE III



Strategic Leadership

43,283 CBM capacity expansion.



Founding & Growth

Founded to deliver high-performance fuels. Expanded footprint over 10 years with cutting-edge infrastructure to meet evolving market needs.



Strategic Expansion

Built 43,283 CBM tank farm and PLC automation. Ambition: 400,000 CBM target capacity.



Technical Excellence

1,000 MT / DAY
TOTAL PROCESSING CAPACITY



ATMOSPHERIC DISTILLATION UNIT (ADU)

Primary separation unit for processing feedstock under atmospheric pressure. Extracts light-to-medium hydrocarbon fractions with high precision.



VACUUM DISTILLATION UNIT (VDU)

Advanced unit for processing heavier residuals. Separates high-boiling point components without thermal cracking, maintaining product integrity.



10 MODULAR KETTLES / COLUMNS

Flexible network of distillation columns for precise separation and yield optimization based on feedstock characteristics.




CORE TECHNICAL FOCUS

- ✓ Precision separation and yield optimization.
- ✓ Modular flexibility for diverse hydrocarbon streams.
- ✓ Robust PLC-based automation for safety and stability.

FEEDSTOCK MATRIX & MATERIAL BALANCE

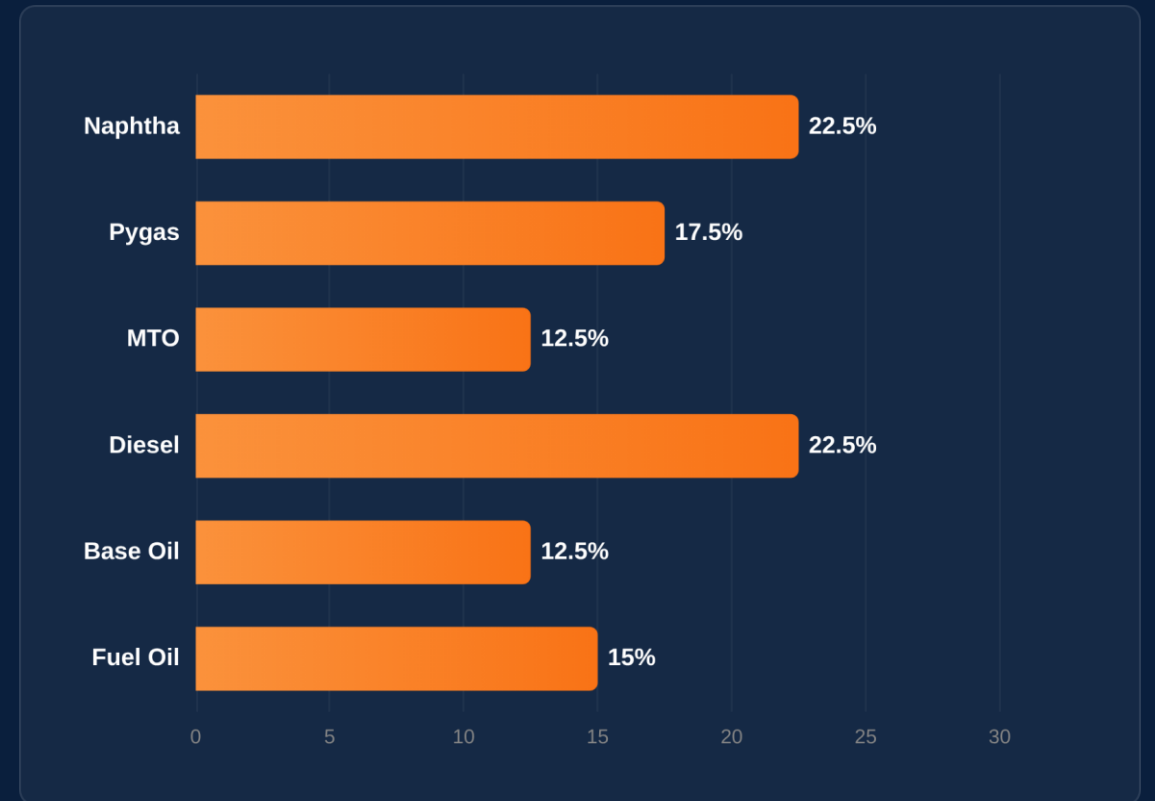
Feedstock Specifications

FEED TYPE	TYPICAL SPECIFICATIONS	UNITS
Mixed Hydrocarbons	Sulfur < 0.5%, Flash Pt > 30°C	ADU/VDU
White Spirit	Density: 0.77-0.82, Flash Pt > 38°C	D60
Condensate	Density: 0.65–0.82, BP: 30–200°C	ADU/KET
Aromatic Oil	High aromatics, Viscosity: 0.5–2.0	VDU/KET

 Facility accepts a diverse range of hydrocarbon feedstocks meeting stringent quality thresholds to ensure process stability and high-value yield optimization.



Typical Yield (Per 1,000 MT Feed)



* VALUES ARE APPROXIMATE AVERAGES

BASIS: 1,000 METRIC TONS

STRATEGIC INFRASTRUCTURE

Tank Farm Configuration & Logistical Capability

TOTAL CAPACITY

43,283 CBM

STORAGE UNITS

20 Tanks

TANK CLASSIFICATION

Large (4,027 CBM/unit)	9 Units
Small (640 CBM/unit)	11 Units
Vertical Fixed Roof w/ IFR	6 Units
Vertical Fixed Roof	14 Units

All tanks are interconnected via integrated pipelines, enabling real-time blending and circulation for product customization and quality consistency.

STORAGE ALLOCATION (CBM)



PUMP HOUSE

19 Centrifugal & gear pumps integrated with central PLC flow control.



LOADING GANTRY

2 Dedicated gantries with 4 bays. Equipped with ESD & flow meters.



Strategic hub designed for high-throughput, traceable, and secure operations across the entire value chain.

PRODUCT PORTFOLIO

Refined Hydrocarbons & Industrial Fuels

Solvent Naphtha

High-purity solvent for industrial cleaning and chemical feedstock applications.

Kerosene

Premium-grade fuel engineered for aviation, heating, and specialized lighting.

Mineral Turpentine Oil

Essential solvent widely utilized in the production of paints, coatings, and adhesives.

Diesel (LSD / HSD)

Low and High Sulfur variants optimized for power generation and heavy transport.

Virgin Base Oil

High-quality base stocks (various grades) for lubricant formulation and industrial use.

Industrial Fuels

Includes Fuel Oil (180/360), Furnace Oil, and specialized Black Diesel for marine use.

All products are manufactured under strict quality assurance protocols and are traceable from feedstock to final delivery, ensuring compliance with international specifications.

 Best Price Guarantee

 99% Purity Guarantee

 Timely Delivery Assured

SPECIALTY OFFERINGS & BLENDING SERVICES

Advancing petrochemical innovation through high-purity chemical intermediates and sustainable, closed-loop recycling processes.

High-Value Products

Gas Oil

We specialize in the production of high-quality virgin and recycled base oils of various grades, processed through advanced distillation to ensure premium lubrication standards.

Base Oil

Our facility delivers high-performance gas oil and diesel, available in both low and high sulfur variants to meet diverse industrial and customized fuel requirements.

Blending Solutions

Tailored formulations engineered to meet precise client specifications and performance standards.

 Viscosity Optimization

 Flash Point Calibration

 Specific Additive Profiles

Sustainability Focus



Recycled Base Oil

Eco-friendly grades meeting international standards.

Used Engine Oil Refining

Advanced closed-loop recycling of waste oils.

OPERATIONAL STANDARDS & ADVANCED AUTOMATION



PLC-Based Plant Automation

Centralized control via Programmable Logic Controllers for real-time monitoring and interlock protection.



HMI/SCADA Integration

Supervisory control interface enabling operators to regulate critical distillation and separation processes.



Level Radar Monitoring

Digital radar-based level measurement for precise inventory tracking and overfill prevention across all tanks.



END-TO-END SOP FLOW

01. RECEIPT



Feedstock Arrival & Safety Checks

02. SAMPLING



Closed-loop Material Collection

03. LAB TESTING



Comprehensive Quality Analysis

04. TREATMENT



Feedstock Pre-processing

05. DISTILLATION



ADU / VDU Thermal Processing

06. SEPARATION



Product Stream Isolation

07. STORAGE



Final Allocation & Documentation

QUALITY ASSURANCE & SAFETY PROTOCOLS

PRECISION QUALITY CONTROL

Dual Laboratory Facilities

- **Operational Lab:** Real-time analysis for 24/7 plant production stability.
- **R&D Laboratory:** Innovation-driven testing and advanced quality validation.

Process Optimization

Seamless **Lab-Process Data Interface** dynamically optimizes parameters (temperature, pressure, reflux) based on real-time test results.

INDUSTRIAL SAFETY STANDARDS

CRITICAL SAFETY INFRASTRUCTURE

Emergency Shutdown (ESD)

Automated systems on critical equipment for immediate hazard mitigation.

Radar-Based Monitoring

Level radar on all tanks for overfill prevention and remote inventory tracking.

Integrated Detection

Gas detectors, flame sensors, and centralized fire alarm systems.

INTERNATIONAL COMPLIANCE

All operations adhere to international HSE standards, ensuring earthing, bonding, and surge protection in all classified zones.


**Best Price
Guarantee**


**99% Quality
Guarantee**


**Timely Delivery
Assured**

IN-LINE QUALITY
ASSURANCE

24/7 AUTOMATED
MONITORING

ZERO-INCIDENT
COMMITMENT

FUTURE VISION | STRATEGIC EXPANSION

REDEFINING PETROCHEMICAL HORIZONS

EXPANSION LANDMARK

400,000

 CBM STORAGE

Scaling on a 15,000 sqm plot in Hamriyah Free Zone.



AI Optimization

AI-driven process control to maximize efficiency.



Low-Impact Refining

Energy recovery systems to reduce carbon emissions.



Circular Economy

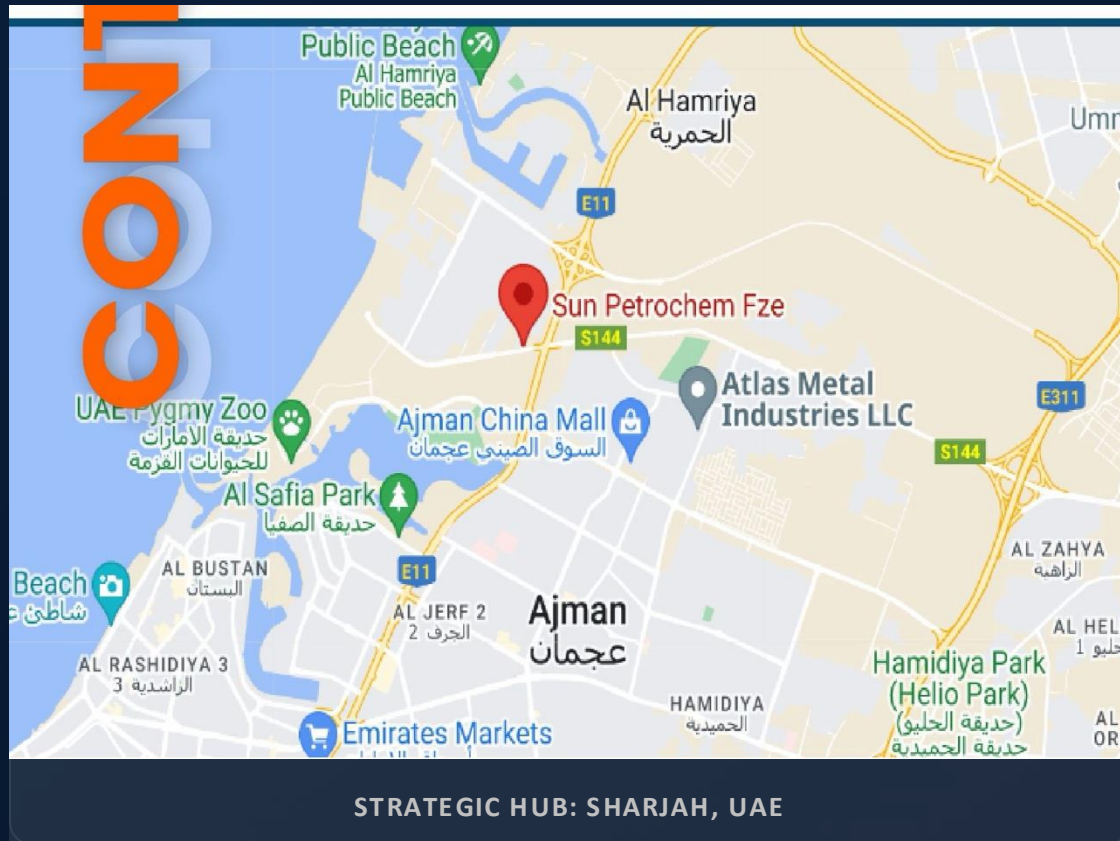
Used engine oil recycling and by-product recovery.



Specialty Focus

Next-gen fuel blends and specialty chemicals.

Contact & Connect



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