Shaheen Project Investor Briefing

November 2022





S-OIL Green Initiatives

Final investment decision was made for Shaheen Project to expand petrochemical business, one pillar of Green Initiatives

Final investment decision on Shaheen Project



Carbon emission reduction up to 35% by 2030 (vs. BAU)

'Net zero' carbon emission by 2050







Our Journey to a Greener Future in Energy & Chemical Industry



Hydrogen business

New Energy

Business

Bio-fuel business



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Shaheen Project

Background

Core Competitiveness

Execution Plan

S-OIL after Shaheen





Long-term growth outlook for petrochemical demand

Global Petrochemical Market Trends

Global demand for petrochemical products is expected to grow steadily for the long-term,

requiring capacity additions to meet incremental demand

Stay-at-Home **GDP/Population** economy¹⁾ Growth Structural (+) **New Trend Globalization & Eco-friendly Urbanization** CO2 Reduction Industrialization

Global Ethylene Demand Forecast



Global Propylene Demand Forecast



Source: Market intelligence agency, The Company

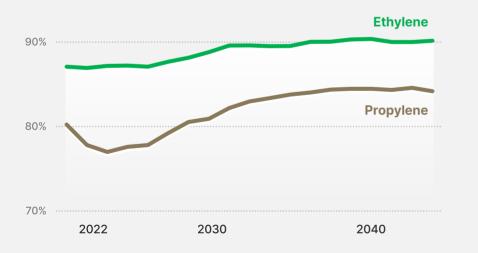
Long-term outlook for petrochemical industry

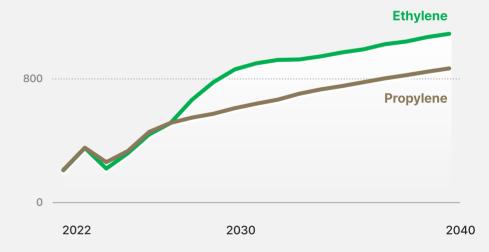
The petrochemical industry is expected to rebound in the mid-2020s and then maintain stable fundamentals going forward











Source: Market intelligence agency, The Company

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Core competencies and resources

In an era of unprecedented uncertainties, our core competencies and resources will maximize chances of success in new investment





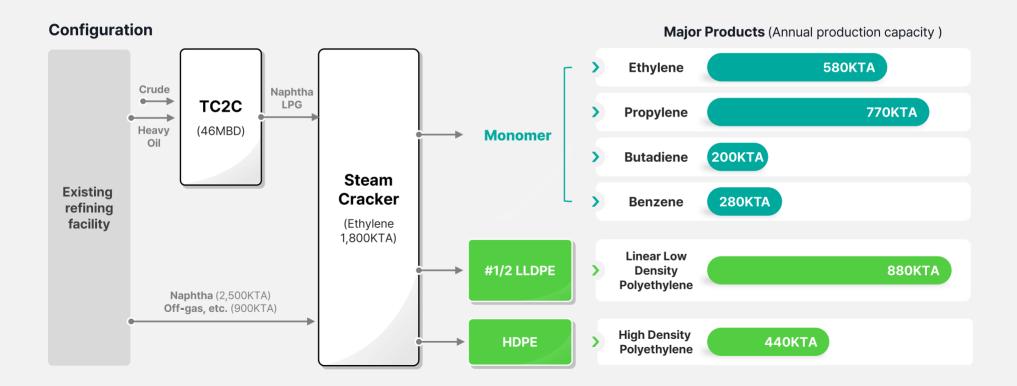






Shaheen Project overview

Shaheen Project is the world's largest refinery-integrated steam cracker with future-oriented design in energy & environmental conservation



Core competitiveness

The Company aims to lead in integrated refining & chemical competitiveness within the Northeast Asian region

1

Refining & chemical integration synergy



Integrated refining & chemical competitiveness

2

Adoption of new TC2C technology (Thermal Crude to Chemical)

3

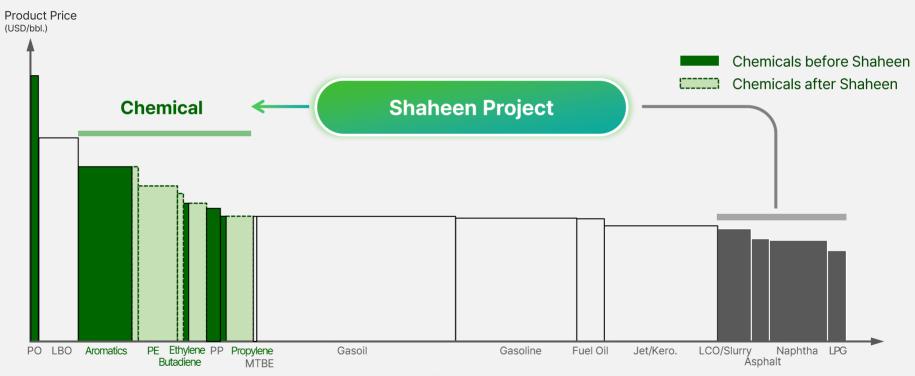
Industry-leading energy efficiency & carbon intensity

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Superior cost competitiveness and economics

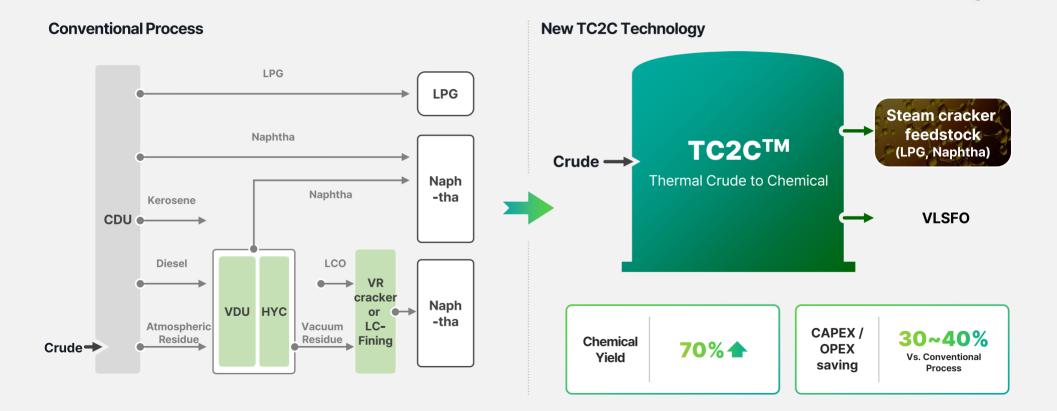
Refining & chemical integration synergy

Refining & chemical integration enables feedstock competitiveness, superior facility and operation



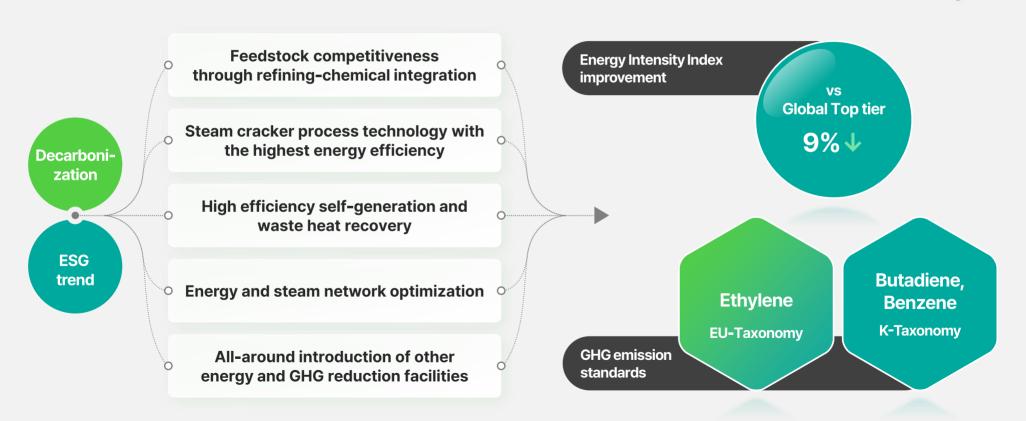
Cumulative Production Volume (Based on 2021 Actual Performance)

To-be-commercialized TC2C will lower CAPEX/OPEX and increase chemical yield



Industry-leading energy efficiency and carbon intensity

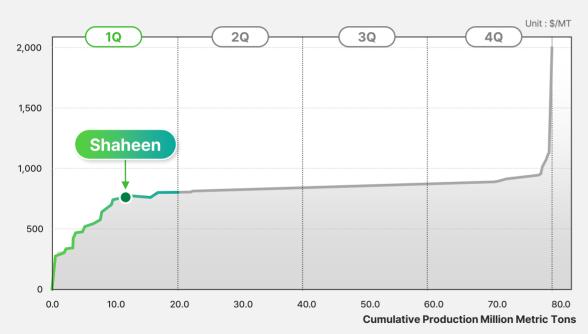
Energy efficiency will reach a world-class level, while major products will qualify for greenhouse gas emission standards home and abroad



Superior cost competitiveness and economics

1st quartile cost competitiveness in Northeast Asia and 16.4% of IRR are expected

Cost competitiveness



Olefin Cost Curve (2026 - NE Asia)





Marketing plan

The Company plans to secure stable domestic sales outlets and overseas marketing partners for major monomer/polymer products

Domestic Marketing

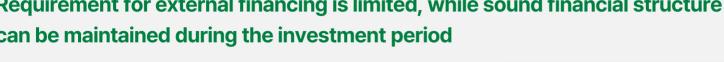


Overseas Marketing



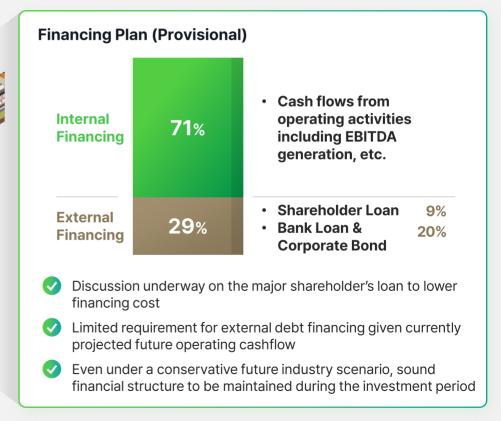
Estimated CAPEX and financing plan

Requirement for external financing is limited, while sound financial structure can be maintained during the investment period





- Existing land to be utilized for project
- Minimized new support facilities (storage tanks, utility facilities) by utilizing existing ones in the refinery
- Reduced investment costs through Value Engineering activities during the design phase
- Inclusive of 166 bil. Won of design fee, which was executed already



EPC Execution plan

EPC work will begin in 2023 with the target of mechanical completion by 1H 2026



S-OIL after Shaheen

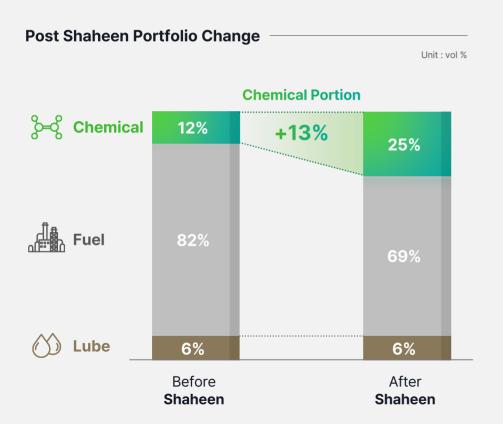
Vision 2030

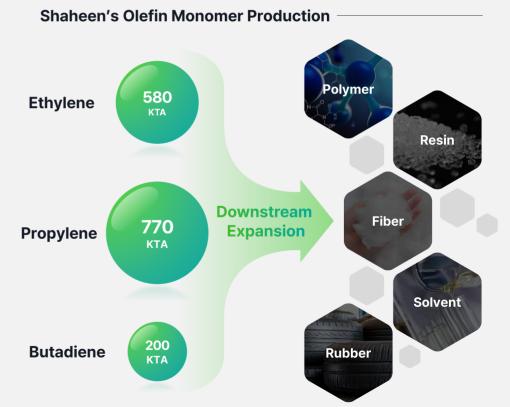
The most competitive, creative and clean energy & chemical company



Expansion of chemical business portfolio

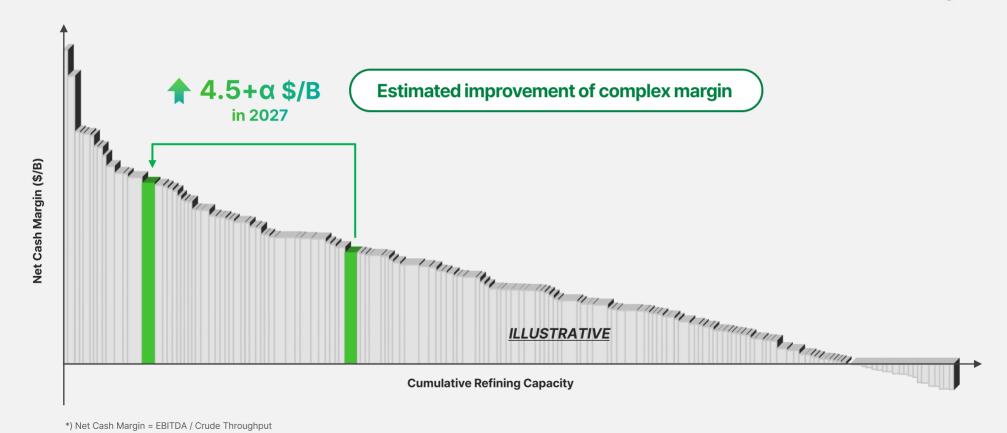
Shaheen Project will enlarge chemical portion to 25% and set the foundation for further downstream expansion





Fundamental competitiveness enhancement

S-OIL will secure industry-leading competitive position through refining & chemical integration in preparation for long-term energy transition



^{*)} Net Cash Margin = EBITDA / Crude Throughput



S-OIL is the only company named to DJSI World for the 12th consecutive year among Asia Pacific refiners and the winner of Best Excellence Company in 2021 ESG awards from Korean Corporate Governance Service.

S-OIL Investor Relations



