

Crude Oil to p-Xylene— Shenghong Refinery-PX Complex

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Abstract

The Jiangsu Shenghong facility in Lianyungang, China, is the latest of several large crude-oil-to-chemicals (COTC) projects in China. Scheduled for start-up at the end of 2021, it will have a feed capacity of 16 million tonnes/yr (330,000 bpd).

The Shenghong project is a refinery designed to produce a much larger quantity of petrochemicals than usual. Shenghong claims that it will produce 4 million tonnes/yr of PX, approximately 6 million tonnes/yr of other chemicals, and 5.5 million tonnes/yr of liquid fuels. It will achieve a roughly 64% conversion to chemicals rate based on crude feed.

This report represents the first independent assessment of the Shenghong project. IHS Markit PEP presents the material and energy consumptions at the process level, and material and energy consumptions as a whole for the complex. IHS Markit PEP also presents our estimates of capital investment and overall production economics.

Contents

| | | |
|----------|---|-----------|
| 1 | Introduction | 8 |
| 2 | Summary | 9 |
| | Conclusions | 9 |
| | The Shenghong COTC process | 10 |
| | Capital costs | 11 |
| | Production costs | 14 |
| 3 | Refinery configurations and the Shenghong project | 18 |
| | Configurations for fuels production | 18 |
| | Carbon rejection | 19 |
| | Hydrogen addition | 21 |
| | Configurations for chemicals production | 22 |
| | Integration with steam cracking | 24 |
| | Integration with aromatics complex | 26 |
| | Full integration | 29 |
| | Economic drivers for COTCs | 30 |
| | Global refining capacity and trends | 31 |
| | Global refinery integration levels in 2019 | 36 |
| | Crude to chemicals price margins | 39 |
| | The Shenghong project | 41 |
| | General plant layout | 42 |
| | Storage tank inventory | 42 |
| | Loading and unloading facilities | 43 |
| | Fuel gas recovery and flares | 43 |
| 4 | Technology review | 44 |
| | Crude distillation | 44 |
| | Crude distillation unit (CDU) | 45 |
| | Vacuum distillation unit (VDU) | 47 |
| | Light hydrocarbon processes | 47 |
| | Hydrocracking and hydrotreating | 48 |
| | HyK™ gasoil hydrocracking unit | 49 |
| | Catalyst | 51 |
| | Diesel hydrocracking (DHC) | 51 |
| | Catalyst | 52 |
| | Hydrotreating processes | 53 |
| | Kerosene hydrotreating unit (KHT) | 54 |
| | Aromatics complex in Shenghong COTC project | 55 |
| | Naphtha hydrotreating (NHT) unit | 57 |
| | Process description | 57 |
| | Naphtha reforming and continuous catalytic regeneration unit (CCR) unit | 58 |
| | Process description | 59 |
| | Catalyst regeneration section | 61 |
| | Paraxylene complex | 63 |
| | Brief process description | 65 |
| | Aromatics (BTX) extraction unit (liquid-liquid extraction process) | 66 |
| | Process description | 68 |
| | Benzene toluene separation | 69 |
| | Toluene disproportionation (TDP) unit | 70 |
| | Process description | 71 |
| | Paraxylene recovery unit (adsorption process) | 71 |

| | |
|---|-----------|
| Process description | 72 |
| Xylene isomerization unit | 75 |
| Process description | 76 |
| Xylene separation and PXRU feed isolation section | 77 |
| C ₇ aromatics and C ₉ aromatics transalkylation section | 78 |
| Process description | 80 |
| Delayed coker and residue hydrocracking unit | 80 |
| Delayed coker | 80 |
| H-OilRC residue hydrocracking unit | 81 |
| Gasification block | 83 |
| Feedstock coal | 83 |
| Gasification technology | 84 |
| Sulfur recovery unit (SRU) | 84 |
| Hydrogen PSA unit | 85 |
| Chemicals block | 86 |
| Conventional steam cracker | 86 |
| Feedstock | 87 |
| Butadiene extraction by NMP process | 89 |
| Vinyl acetate from ethylene and acetic acid by vapor phase process | 89 |
| Dow high efficiency ethylene glycol process | 89 |
| Phenol from benzene and propylene via cumene | 90 |
| 5 Material and energy balances | 91 |
| Crude distillation | 91 |
| Crude distillation unit (CDU) | 91 |
| Vacuum distillation unit (VDU) | 92 |
| Light hydrocarbon processes | 92 |
| Light hydrocarbon recovery | 92 |
| Light naphtha isomerization | 93 |
| Liquefied gas separation | 93 |
| Alkylation | 94 |
| Hydrocracking and hydrotreating | 94 |
| Diesel hydrocracking unit (DHC) | 94 |
| HyK™ gas oil hydrocracking unit | 95 |
| Kerosene hydrotreating unit (KHT) | 96 |
| Reforming and aromatics | 96 |
| Naphtha hydrotreating unit (NHT) | 97 |
| Continuous catalytic reforming (CCR) | 97 |
| Aromatics units | 98 |
| Delayed coker | 99 |
| H-Oil™ residue hydrocracking unit | 99 |
| Integrated Gasification Combined Cycle (IGCC) | 100 |
| Hydrogen production | 101 |
| Sulfur block | 101 |
| Sulfur recovery unit (SRU) | 101 |
| Chemicals section | 102 |
| Steam cracking | 102 |
| Butadiene extraction | 103 |
| Vinyl acetate | 104 |
| Ethylene glycol | 104 |
| Phenol | 105 |
| Supporting processes | 105 |
| Hydrogen pressure swing adsorption (PSA) | 105 |
| Other material balances | 106 |
| Hydrogen balance | 106 |

| | |
|-------------------------------------|------------|
| Oxygen balance | 107 |
| Gasoline pool | 107 |
| Energy balances | 108 |
| Steam cracker utilities | 108 |
| Shenghong complex utilities balance | 109 |
| Hydrogen production and IGCC | 110 |
| Fuel gas balance | 112 |
| 6 Overall complex economics | 114 |
| Capital costs | 116 |
| Production costs | 118 |

Tables

| | |
|---|-----|
| Table 2.1 p-Xylene from crude oil via shenghong process—Feed and product slates | 12 |
| Table 2.2 ISBL capital investment summary | 13 |
| Table 2.3 Total capital investment | 14 |
| Table 2.4 para-Xylene from crude oil shenghong crude oil to chemicals—Production costs | 15 |
| Table 3.1 Feed crude oil characteristics | 19 |
| Table 3.2 World's largest refineries with over 10% integration to chemicals | 37 |
| Table 4.1 List of technology sources | 44 |
| Table 4.2 Physical properties of Shenghong crude oil feeds | 46 |
| Table 4.3 Output and destination of crude distillation units | 47 |
| Table 4.4 Typical composition of light naphtha from light hydrocarbons recovery unit | 56 |
| Table 4.5 Typical composition of fluidized bed naphtha from residue hydrocracker unit | 56 |
| Table 4.6 Hydrotreated naphtha specifications and typical properties | 58 |
| Table 4.7 Typical properties and composition of C ₆ + reformat from CCR | 61 |
| Table 4.8 Major inlets and outlet streams for NHT and CCR units | 63 |
| Table 4.9 Major inlets and outlet streams for paraxylene complex | 64 |
| Table 4.10 Typical aromatics recoveries and product streams purity | 67 |
| Table 4.11 Benzene product specifications | 70 |
| Table 4.12 Paraxylene recovery unit (adsorption process) feed specification | 72 |
| Table 4.13 Paraxylene product specification | 75 |
| Table 4.14 Shenghong feedstock coal specifications | 84 |
| Table 4.15 Steam cracker yield pattern (based on 1,000 lb of ethylene product) | 88 |
| Table 5.1 Hydrogen balance | 106 |
| Table 5.2 Oxygen balance | 107 |
| Table 5.3 Gasoline pool octane number | 107 |
| Table 5.4 Shenghong steam cracker utilities estimates | 108 |
| Table 5.5 Shenghong complex utilities unit consumptions | 109 |
| Table 5.6 Shenghong complex summary of utilities consumptions | 110 |
| Table 5.7 Summary of hydrogen production via coal gasification | 111 |
| Table 5.8 Fuel gas balance | 112 |
| Table 6.1 p-Xylene from crude oil via shenghong process—Feed and product slates | 114 |
| Table 6.2 Shenghong complex summary of utilities consumptions | 115 |
| Table 6.3 ISBL capital investment summary | 117 |
| Table 6.4 Total capital investment | 118 |
| Table 6.5 para-Xylene from crude oil Shenghong crude oil to chemicals—Production costs | 119 |
| Table 6.6 para-Xylene from crude oil Shenghong crude oil to chemicals (No downstream chemicals case)—Production costs | 122 |
| Table 6.7 para-Xylene from crude oil Shenghong crude oil to chemicals (No steam cracker case)—Production costs | 124 |

Figures

| | |
|--|----|
| Figure 2.2 ROI vs. Crude oil price | 17 |
| Figure 3.1 Residue upgradation route selection depends on feed crude properties | 21 |
| Figure 3.2 Refinery-petrochemicals integration levels | 24 |
| Figure 3.3 World light naphtha production source and demand by end use | 26 |
| Figure 3.4 Integration of light naphtha steam cracker with refinery | 26 |
| Figure 3.5 Aromatics complex integration with refinery | 28 |
| Figure 3.6 World heavy naphtha production source and demand by end use | 28 |
| Figure 3.7 Full integration of refinery-steam cracker-aromatics complex | 30 |
| Figure 3.8 World fuels and primary petrochemicals demand growth projections | 31 |
| Figure 3.9 World fuels and primary petrochemicals annual demand | 31 |
| Figure 3.10 World and regional refining capacity (2018) | 32 |
| Figure 3.11 Global refinery distillation and conversion unit capacity trends (1990–2018) | 33 |
| Figure 3.12 Global refinery distillation and conversion unit capacity trends (1990–2018) | 34 |
| Figure 3.13 Asia-pacific distillation and conversion unit capacity trends (1990–2018) | 34 |
| Figure 3.14 North America distillation and conversion unit capacity trends (1990–2018) | 35 |
| Figure 3.15 Europe distillation and conversion unit capacity trends (1990–2018) | 35 |
| Figure 3.16 Middle East distillation and conversion unit capacity trends (1990–2018) | 36 |
| Figure 3.17 Global refinery integration levels and nature of integration | 38 |
| Figure 3.18 United States refinery integration levels and nature of integration | 39 |
| Figure 3.19 Price margins of primary chemicals over Arab Medium Crude (SEA/APAC) | 40 |
| Figure 3.20 Relative volatility of price margins with Arab Medium Crude (SEA/APAC) | 41 |
| Figure 4.1 Crude and vacuum distillation process flow diagram | 46 |
| Figure 4.2 HyK™ process configurations | 49 |
| Figure 4.3 HyK™ process schematic | 50 |
| Figure 4.4 Diesel hydrocracking schematic | 53 |
| Figure 4.5 Kerosene hydrotreating process schematic | 55 |
| Figure 4.6 Block flow diagram for NHT and CCR units | 56 |
| Figure 4.7 Process schematic of Naphtha hydrotreating unit (NHT) | 57 |
| Figure 4.8 Process schematic of Naphtha reforming and continuous catalytic regeneration unit (CCR) | 59 |
| Figure 4.9 Block flow diagram for PX complex 1 | 65 |
| Figure 4.10 BTX extraction unit (LLE process) process schematic | 68 |
| Figure 4.11 Toluene disproportionation unit process schematic | 71 |
| Figure 4.12 Paraxylene adsorption unit process schematic | 73 |
| Figure 4.13 Xylene isomerization unit process schematic | 76 |
| Figure 4.14 Block flow diagram for PX complex 2 | 78 |
| Figure 4.15 Block flow diagram for PX complex 2 | 79 |
| Figure 4.16 Ebullated versus fixed bed resid hydrocracking | 81 |
| Figure 4.17 Schematic representation of H-Oil ebullating bed reactor | 82 |
| Figure 4.18 H-Oil _{RC} process schematic | 83 |
| Figure 5.1 CDU feed/product slate summary | 91 |
| Figure 5.2 VDU feed/product slate summary | 92 |
| Figure 5.3 Light hydrocarbon recovery feed/product slate summary | 93 |
| Figure 5.4 Isomerization & separation feed/product slate summary | 93 |
| Figure 5.5 Liquified gas separation feed/product slate summary | 94 |
| Figure 5.6 Alkylation feed/product slate summary | 94 |
| Figure 5.7 Diesel hydrocracking feed/product slate summary | 95 |
| Figure 5.8 Gas oil hydrocracking feed/product slate summary (HyK unit #1) | 95 |
| Figure 5.9 Gas oil hydrocracking feed/product slate summary (HyK unit #2) | 96 |
| Figure 5.10 Kerosene hydrotreating feed/product slate summary | 96 |
| Figure 5.11 Naptha Hydrotreating feed/product slate summary | 97 |
| Figure 5.12 Continuous catalytic reforming feed/product slate summary | 98 |
| Figure 5.13 Aromatic feed/product slate summary (Aromatics Unit #1) | 98 |
| Figure 5.14 Aromatic feed/product slate summary (Aromatics Unit #2) | 99 |
| Figure 5.15 Delayed coker feed/product slate summary | 99 |

| | |
|--|-----|
| Figure 5.16 Residuum hydrocracker feed/product slate summary | 100 |
| Figure 5.17 IGCC feed/product slate summary | 101 |
| Figure 5.18 Hydrogen production feed/product slate summary | 101 |
| Figure 5.19 Sulfur recovery feed/product slate summary | 102 |
| Figure 5.20 Steam cracker feed/product slate summary | 103 |
| Figure 5.21 Butadiene extraction feed/product slate summary | 104 |
| Figure 5.22 Vinyl acetate monomer feed/product slate summary | 104 |
| Figure 5.23 Ethylene glycol feed/product slate summary | 105 |
| Figure 5.24 Phenol/Acetone feed/product slate summary | 105 |
| Figure 5.25 PSA feed/product slate summary | 106 |
| Figure 5.26 IGCC schematic | 111 |
| Figure 6.1 ROI vs. Crude Oil Price | 121 |

Appendix B Figures

| | |
|---|-----|
| Figure 2.1 Shenghong Crude to Chemicals Process Configuration—Refinery Shenghong COTC BFD 1 | 132 |
| Figure 2.1 Shenghong Crude to Chemicals Process Configuration—Chemicals Shenghong COTC BFD 2 | 133 |

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