

PTT Group Value Chain Businesses

PTT FACTSHEET 1H2021

Powering Life with Future Energy and Beyond



MISSION

To conduct integrated energy and petrochemical business as the nation's energy company whose mission is to equally respond to all stakeholders



Upward Integration (Operate Through Subsidiaries)

PTT Businesses (PTT's own operation)

Downward Integration (Operate Through Subsidiaries)

Petroleum Exploration and Production (E&P) Business



- Conducts through PTT Exploration and Production Plc. (PTTEP).
- Invested in Thailand and overseas to find petroleum deposits of crude oil and natural gas to ensure Thailand's energy security.

Gas Business



- Engages in integrated natural gas business, including
 - The natural gas transmission system
 - The Gas separation business
 - Natural gas supply and distribution
 - Natural Gas for Vehicles

Oil and Retail Business



- Conducts through PTT Oil and Retail Business Plc. (OR)
- Engages in the oil and retail business including service station, Cafe Amazon, and related businesses in both domestic and overseas

LNG Business



- Conducts through PTT LNG Co., Ltd. (PTTLNG) and PTT Global LNG Co., Ltd. (PTTGL)
 - LNG receiving facilities
 - LNG value chain

International Trading Business



- Import/ Export/ Out-out trading of petroleum and petrochemical products
- To become the leading multinational trading company, enhance energy security for the Kingdom, and strive for Thai pride in the international trade arena

Petrochemical and Refining Business



- Invests comprehensively in the petrochemical and refining business through PTT Global Chemical Plc. (GC), Thai Oil Plc. (TOP), IRPC Plc. (IRPC), and PTT Tank Terminal Co., Ltd. (PTT Tank)
- High-efficiency refineries, produce and sell upstream, midstream, and downstream petrochemicals of both olefins and aromatics lines

Coal Business



- Conducts through PTT Global Management Co., Ltd. (PTTGM)
- Invested in coal business in Indonesia and sold to Asia, including Hong Kong, Taiwan, Korea, Japan, China, India, Malaysia, Indonesia, and Thailand. (In process for divestment)

Technology & Engineering Business



- Engaged in engineering, real estate, digital, and technology in support of PTT's business
- Developed prototypes and pursues New Business S-Curve opportunities to accommodate domestic and international growth

Power and Public Utility Business



- Conducts through Global Power Synergy Public Company Limited (GPSC), the innovative power flagship of PTT Group
- Operates power generation business as well as produce public utilities i.e. steam and demineralized water

Future Energy



- Expedite execution New Energy, EV, and integrate renewable energy value chain with PTT Group business, e.g., renewable energy, energy storage system, EV value chain, energy platform, and other potential areas

Beyond Energy



- Focus more on new businesses that have potentials to grow, e.g., life science, mobility & lifestyle, high value business, logistics & infrastructure, AI, Robotics & Digitalization

Transparency & Sustainability

E Sustainable Production and Consumption

- Low Carbon Society
- Circular Economy

S People's Well-being

- Safety and Human Rights
- Social Shared Value
- Workforce for New Growth

G Good Governance and Performance Excellence

- Economic Drive by creating 'Next Growth'
- Operate with Integrity (GRC)

GHG's Long-term 2030 target
15% reduction target compared to year 2020

1,169,772 Rai of forest area are PTT's planted and cared
 Absorb over 2.14 million tonnes of carbon dioxide equivalent per year in greenhouse gas

Awards and Recognition

 The Forbes Global 2000: 170 th in 2020	 Best Investor Relations Best Environmental Stewardship	 Best CEO/ Best CFO/ Best CSR Best Environment Responsibility Best IR Company Best IR Professional	 Platts Top 250 Global Energy Company: 23 rd in 2020
 Fortune Global 500: 140 th in 2020	 SET Awards 2020: Best Investor Relations Awards 2020 (2 nd consecutive years) Best Sustainability Excellence Awards 2019	 Dow Jones Sustainability Index (DJSI): DJSI Member 2011-2020 (9 th consecutive years)	 Awarded a Gold Class S&P Global Sustainability Award 2021 with the Oil & Gas Upstream & Integrated Industry's top-performing company's score

Credit Ratings

PTT ratings at Thai sovereign level

	Moody's	S&P Global Ratings	FitchRatings
FC	Baa1	BBB+	BBB+
PTT - FC	Baa1	BBB+	BBB+
PTT - LC	Baa1	BBB+	BBB+

Disclaimer: The information contained herein is being furnished on a confidential basis for discussion purposes only and only for the use of the recipient, and may be subject to completion or amendment through the delivery of additional documentation. Except as otherwise provided herein, this document does not constitute an offer to sell or purchase any security or engage in any transaction. The information contained herein has been obtained from sources that PTT Public Company Limited considers to be reliable; however, PTT makes no representation as to, and accepts no responsibility or liability for, the accuracy or completeness of the information contained herein. Any projections, valuations and statistical analyses contained herein have been provided to assist the recipient in the evaluation of the matters described herein; such projections, valuations and analyses may be based on subjective assessments and assumptions and may utilize one among alternative methodologies that produce differing results; accordingly, such projections, valuations and statistical analyses are not to be viewed as facts and should not be relied upon as an accurate representation of future events. The recipient should make an independent evaluation and judgment with respect to the matters contained herein.

Head Office

555 Vibhavadi Rangsit Road, Chatuchak
 Bangkok 10900
 Tel: 0-2537-2000 Fax: 0-2537-3498-9

IR Contact

Email: ptt-ir@pttplc.com



PTT Group Business Highlights in 1H2021

Upward Integration (Operate through subsidiaries)

EXPLORATION AND PRODUCTION BUSINESS

Conducted through PTT Exploration and Production Plc. (PTTEP)

No.1 Thailand's oil and gas producer

Sales Revenue > 90% SEA & Middle East

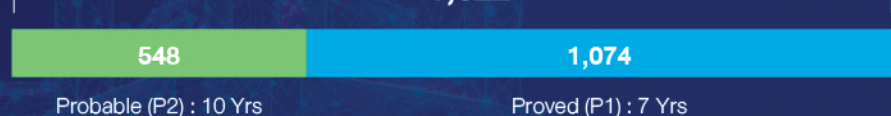
Cash Cost < 13\$/BOE Cost Competitive

>40 Projects in 15 Countries

413 KBOED



Total reserves **1,622** MMBOE



LNG BUSINESS

Conducted through PTT LNG Co., Ltd. (PTTLNG)

Terminal#1: **11.5** MTA Capacity

Accum. capacity of 2 terminals: **19** MTA (terminal#2 to COD in 2022)

PTT Own Businesses (PTT's own operation)

GAS BUSINESS

Sole owner & operator in Thailand with ~4,000 km gas transmission pipelines

Gas Transmission Pipeline

4 Pipelines in Operation
5th onshore pipeline is under construction (COD 2021)

Gas Separation Plant (GSP)

6 Gas Separation Plants

Feed Capacity: GSP **2,870** MMSCFD

Gas Supply & Distribution

Gas Sales Volume **4,600 - 4,700** MMSCFD

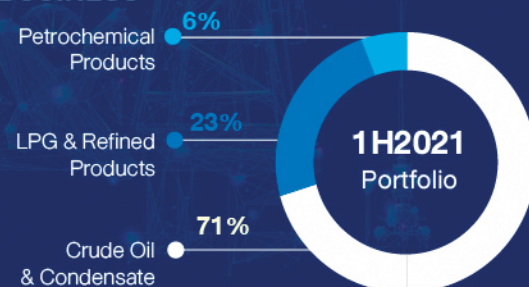
Natural Gas for Vehicle (NGV)

Total NGV Stations **401** Stations

NGV Sales Volume **4** Kton/Day

INTERNATIONAL TRADING BUSINESS

37,157 Million Liters Sold Thru Our Global Connectivity



Downward Integration (Operate through subsidiaries)

OIL BUSINESS

Conducted through PTT Oil and Retail Business Plc. (OR)

PTT Stations **2,367** Stations

Cafe' Amazon **3,729** Branches

Convenience Stores **2,118** Outlets

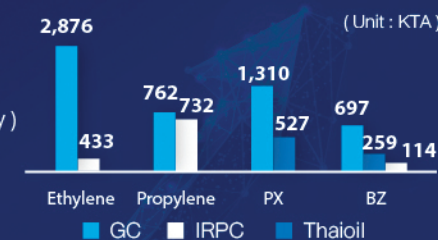
Note: Domestic and International (As of 30 June 2021)

PETROCHEMICAL AND REFINERY BUSINESS

Conducted through

770 KBD (62% of Thailand Capacity)

3 of 6 Refineries in Thailand

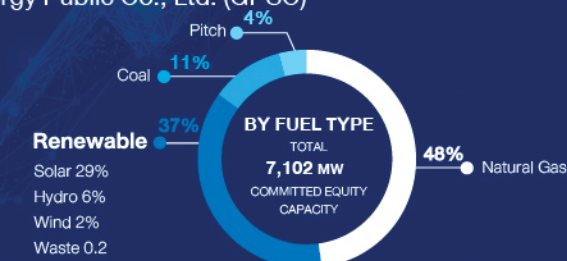


TECHNOLOGY AND ENGINEERING BUSINESS (TEG)

Conducted through Global Power Synergy Public Co., Ltd. (GPSC)

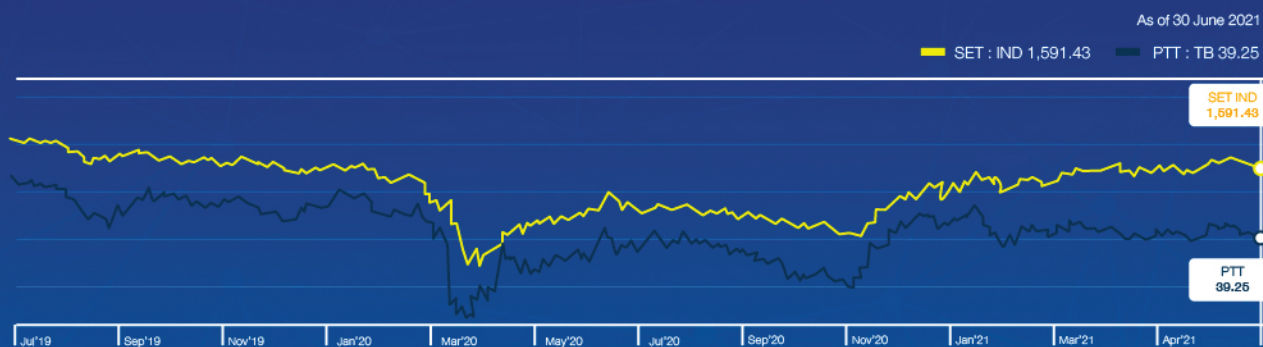
Total Capacity **7,102** MW
In operation: **5,385** MW

Note: Total capacity as of August 2021



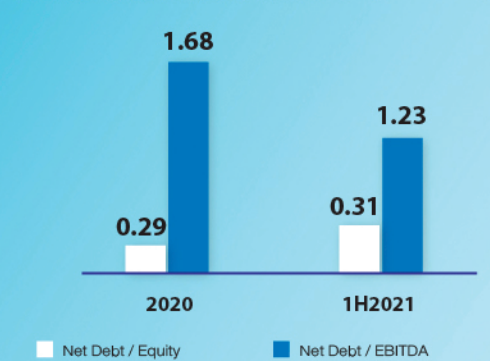
2-YR STOCK PERFORMANCE

Last Price 39.25 THB	Market Cap : Million THB 1,028,267.86	52-Week High/Low: THB 45.00/30.50	Free Float 48.88%
--------------------------------	-------------------------------------------------	---------------------------------------------	-----------------------------

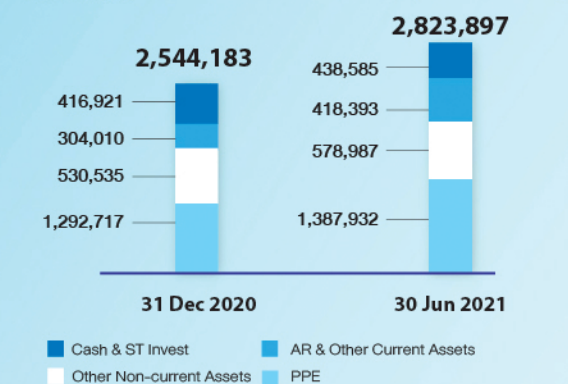


Financial Highlights

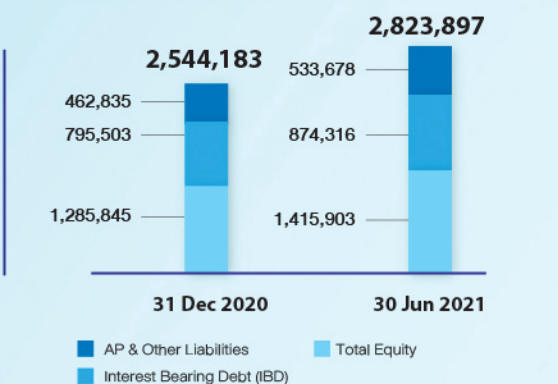
KEY FINANCIAL RATIOS (Unit: Times)



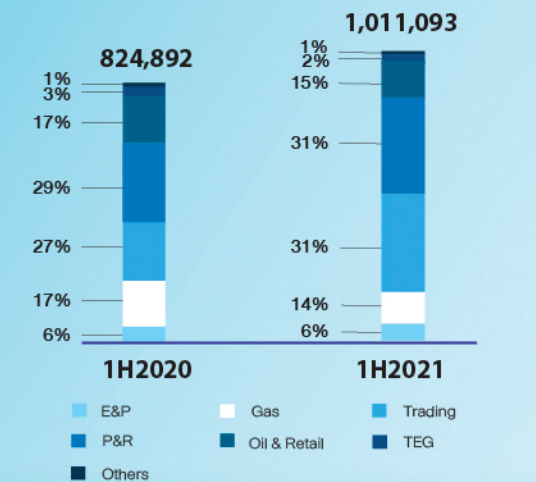
ASSETS (Unit: Million Baht)



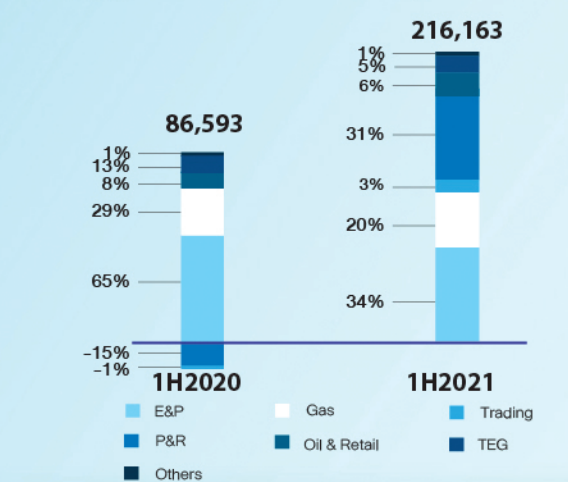
LIABILITIES & EQUITY (Unit: Million Baht)



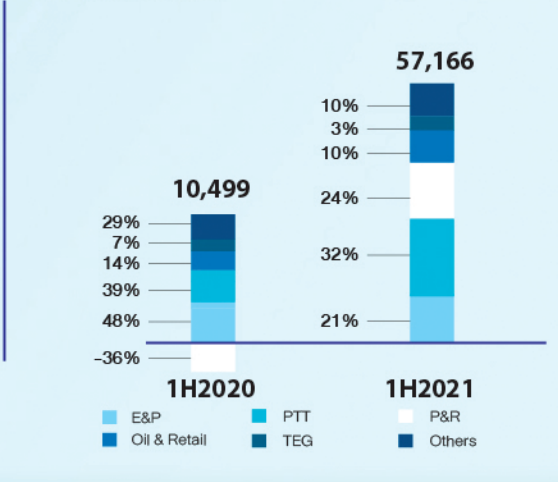
REVENUE (Unit: Million Baht)



EBITDA (Unit: Million Baht)

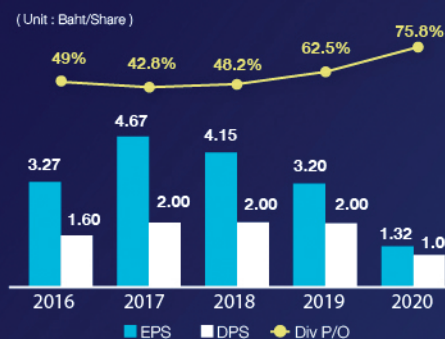


NET INCOME (Unit: Million Baht)



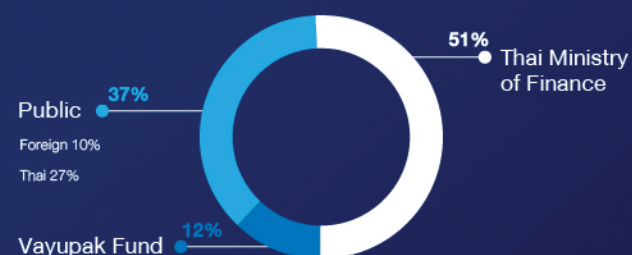
DIVIDEND POLICY & HISTORICAL PAYMENTS

PTT's Minimum Dividend Payout Policy : 25%



SHAREHOLDER STRUCTURE

As of 5 Mar 2021



*Split par value from 10 to 1 Baht/share since 24 Apr 2018