

An associate of PTTGC & LyondellBasell

FY2021 Update

Resilient financial performance with care and share to society



29 March 2022



Medical Personal Protective Equipment

Leveraged polypropylene properties for medical personal protective equipment



HMC Polymers

2021 Key Highlight Resilient financial performance with care and share to society

Announced new Leadership Team for new PP4 Plant readiness and global market expansion

Achieved EBITDA margin at 15% and net profit at 2,900 mTHB

Leveraged polypropylene properties for medical personal protective equipment to support medical requirement in the COVID-19 pandemic Achieved Specialty Product and Differentiated Product (SPDP) sales at 55% of total sales volume



Reduced household greenhouse gas emissions from 2019 to 2021 by up to 32,394 kgCO2 (equivalent to the carbon dioxide absorption of 3,599 trees) with Low Emission Support Scheme by Thailand Greenhouse Gas Management Organization (Public Organization)



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2021 Awards and Certificates

- **MiT: Made in Thailand product certification** by the Federation of Thai Industries for 4 main product categories: Homopolymer, Random Copolymer, Impact or Block Copolymer and Terpolymer.
- IPHA: Industrial and Production Hygiene Administration Certificate by The Federation of Thai Industries for our stringent health standards in the COVID-19 preventive measures.
- The Occupational Safety and Health National Level (Gold Level Certificate) as part of the Thailand Labor Management Excellence Award 2021 by the Thai Ministry of Labor
- Green Industry Award Level 4: (Green Culture) which was sponsored and endorsed by the Thailand Ministry of Industry
- **CSR-DIW Continuous Award 2021** for PP and PDH Plants recognized by the Department of Industrial Work, Thailand Ministry of Industry

Vision and Mission



Vision

To be A Most Admired Company and Asia's Preferred Partner



To capture and deliver the full potential of polypropylene and HMC for our customers

We deliver exceptional value by bringing the latest technology that improves the quality of people's lives.

We differentiate our business through customer service and operational excellence based on ethical and sustainable practice and uncompromised safety.

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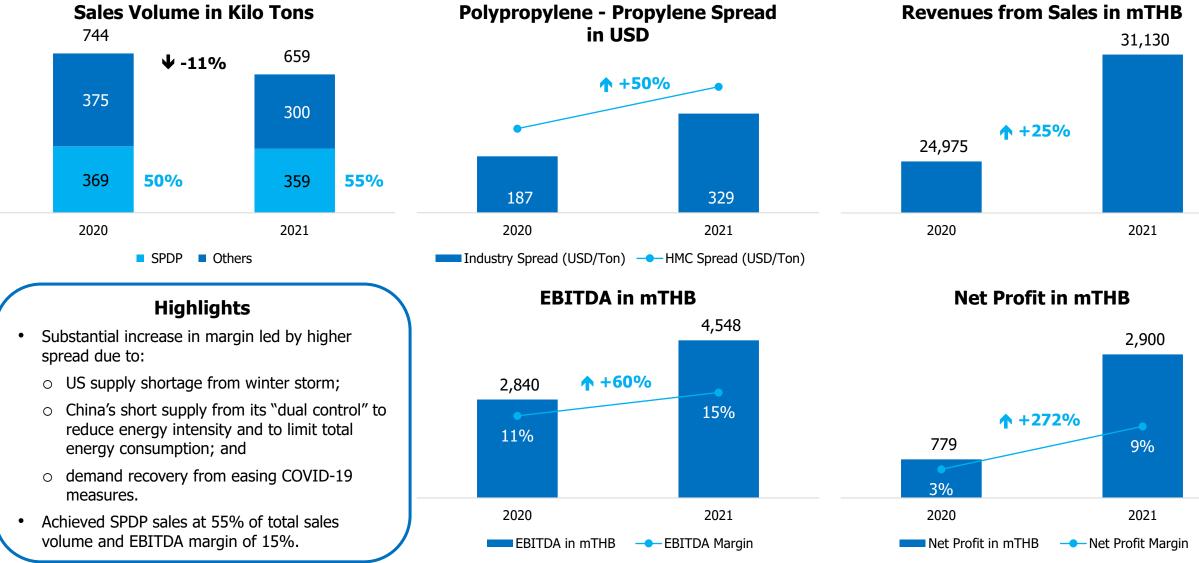


1. Financial Performance and Projection

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2021 Financial Performance

Substantial increase in margin led by higher spread of high-value-added products



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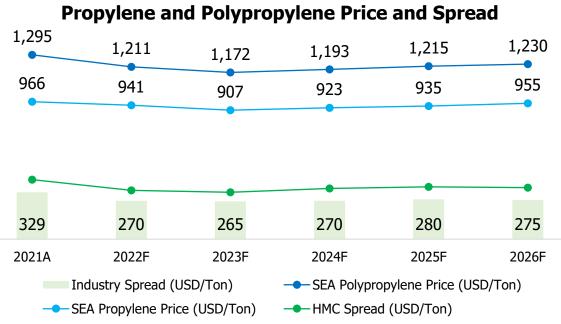
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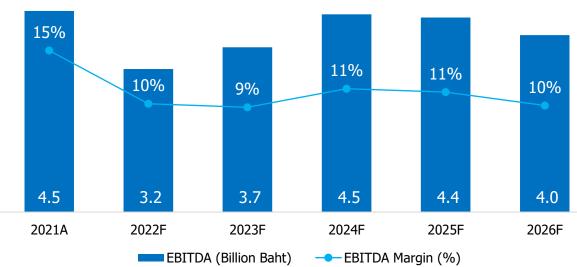


5 Years Financial Projection

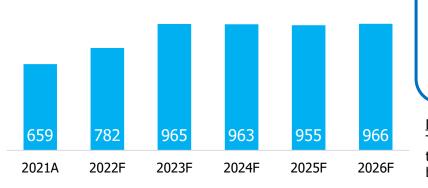
Escalate growth in specialty and differentiated products



EBITDA and EBITDA Margin



Sales Volume (Kilo Tons)



(USD/Ton)	EBITDA (Billion Baht)	
Highlights	N	et IBC
• PP4 Project is planned for start-up in 2022H2.		
 2 Spherizone Plants to support specialty and differentiated products with higher premium. 		
• PDH major turnaround in 2023 and then 202	.6.	
Disclaimer This Financial Projection was prepared in October 2021. The term impact from a conflict between Russia and Ukraine h	las not yet	.6
been included in the assumption.	2021A 202	22F

Net IBD to Equity (times)



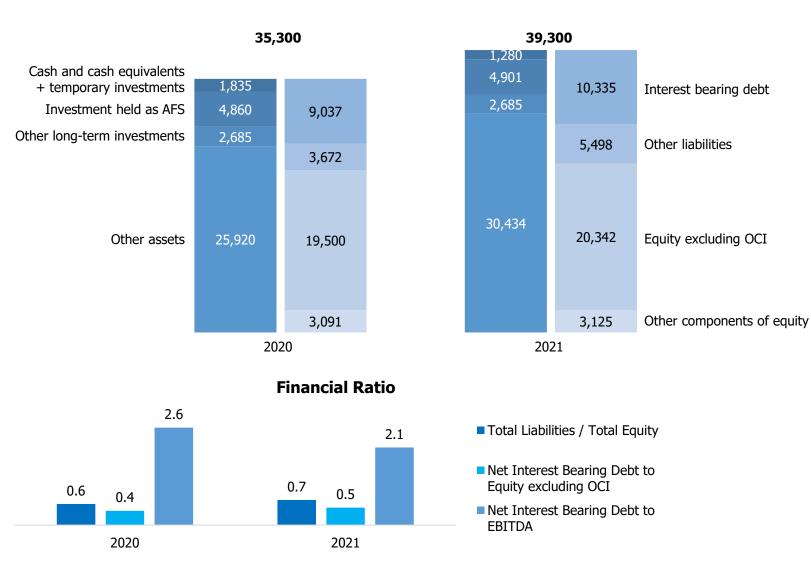
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2021 Financial Position

Robust financial standing with strong capital base and low leverage ratio



Financial Position in mTHB



FitchRatings A-(tha) 30 April 2021

- Net IBD to Equity < 1.0x
- Net IBD to EBITDA* < 2.0x

* During PP4 construction, Net IBD to EBITDA will be increased. Net IBD to EBITDA will decrease to below 2.0x by 2025.

Liquidity

- Voluntary cash reserve for next loan installment with minimum cash around Baht 1 billion
- Committed revolving credit facility of Baht 4 billion available for use

Dividend

• Free cash available after reserved funds as required by law, current and due debt obligations, ongoing expenditures and CAPEX.

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HMC Strategic Direction





Market Leading Innovation – Capture business opportunity by leveraging our asset utilization, innovation and marketing

- Become **an innovation leader** in strategic applications such as consumer, industrial and medical sectors.
- Expand and **diversify product portfolio** in durables & industrial, transportation and construction sectors.
- Leverage capabilities of new PP Line IV for strategic products including flexible packaging, hygiene products, pipes and in-line compounding.



Outstanding Customer Orientation – Escalate growth in specialty and differentiated applications

- Ensure long-term growth by profitable product mix and sales channels.
- Continue customer-oriented approach to establish **partnership and co-development** with downstream strategic customers.

World Class Safety and Operational Excellence – Aim towards world class operational excellence

- Create differentiation through "Customer Focus".
- Uplift integrated planning and supply chain system allowing secured and competitive feedstock.
- Exploit **digitalization tools** to accelerate business growth such as HMC Digital Business Process.
- Step up **sustainability scheme** and drive circular economy.



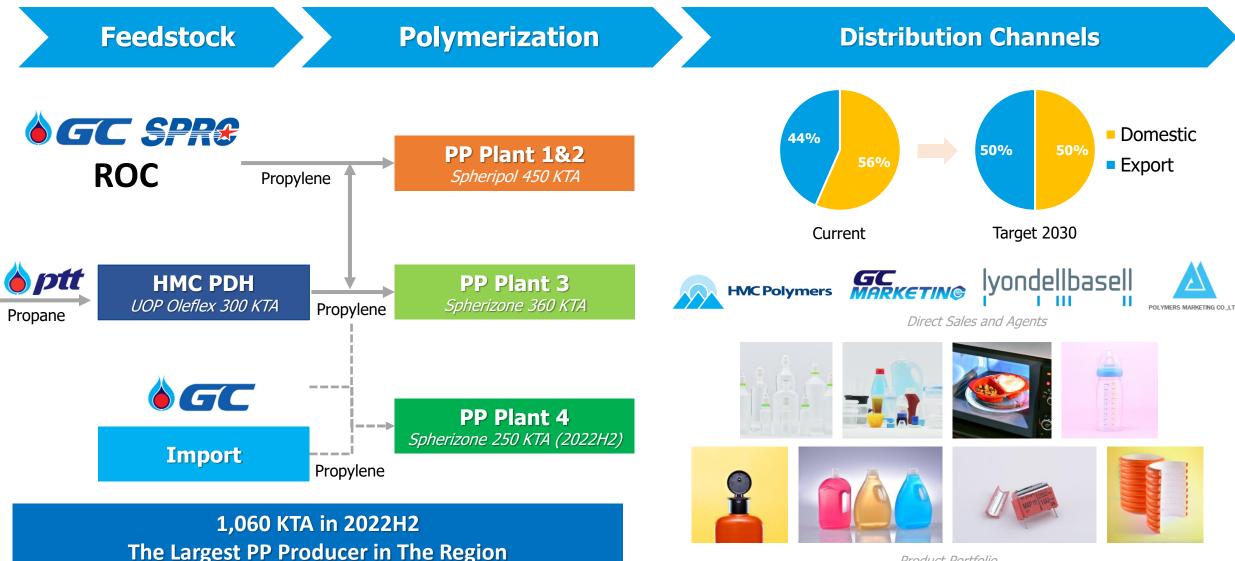
The Most Result-Oriented, Experienced and Engagement People – *Strive for excellence in employee development*

- Enhance HMC Culture **4 Core Behaviors**: Customer Focus, One Team, Strive for Excellence and Innovation.
- Drive people expertise, agility and growth to align with company's strategic direction and investment.
- Implement career development plan.

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HMC Polymers Upstream Integration and Diversified Feedstock

through PDH plant and secured & diversified long-term contracts with suppliers



Product Portfolio

Market Leading Innovation

Growth in sales of specialty and differentiated products

Purell RP171G

1.5 MFI copolyme

specially designed for

Purell RP271M

Crystallinity

Clarity

8 MELPP

Moplen HP561R - 25 MFI Homo

Moplen HP562T - 60 MFI Homo

Trends capture

- Medical/ Healthcare
- Personal Protective Equipment
- Food & beverage packaging/container



Long-term sustainability

- Mono-material .
- Harmless chemicals contained

NON-PHTHALATE PP GRADES





Increase in takeaway / food delivery

Thermoformed & TWIM containers



Tensile stress

Heat Distortion

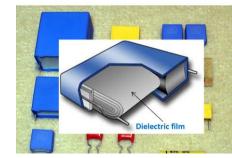
Temperature

More advanced products and improvement

- Low SIT film •
- Pipe grade: PP-HM, PP-R . and future with PP-RCT
- Dielectric BOPP film .
- Soft spunbond
- High MFI for compound
- Oil & heat resistance
- Higher clarity .
- Single grade formulation

Polypropylene used for Dielectric Film needs to meet stringent requirements regarding

- Purity and catalyst residues
- Stiffness and heat resistance
- Processability





Key Features of Adsyl resins for CPP

- Low SIT of 107-110 °C on CPP films
- Good seal strength
- Good optical properties
- Suitable for metallizable films











Product Strategy

Target to achieve 70% SPDP in 2030

- Decrease in product sales in 2021 as a result of an unplanned shutdown from power outage in Apr 2021.
- However, HMC gained higher %SPDP in 2021 from • optimizing commodity portfolio and drove SPDP by securing renewal contract, new market diversification and maintaining key market base.
- During the start-up of Line IV, commodity grades will be churned out and reduce %SPDP.
- Afterwards, %SPDP is rising in response with growing • demand of innovative products.



is disruptive product, low or no other competitors, high entry barrier, high profitability end application and low-price sensitivity

Differentiated Product (DP)

is selected product, high growth, limited producers and superior profitability of end application.

Commodity

SPDP

Others

is general commodity product, low entry barrier, high competition, low value end application and high price sensitivity.

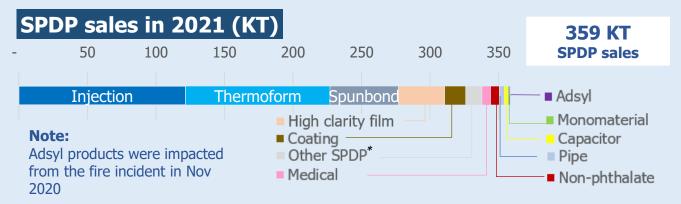
Non-Prime

is transition products and off-specification.

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Product Sales in KT 58% 55% 54% **52%** 50% 49% 46% 46% 472 502 521560 356 335 375 359 493 461 426 1.24 406 394 369 300 2019 2020 2021 2022F 2023F 2024F 2025F 2026F 729 744 659 782 965 963 955 966 Total

SPDP



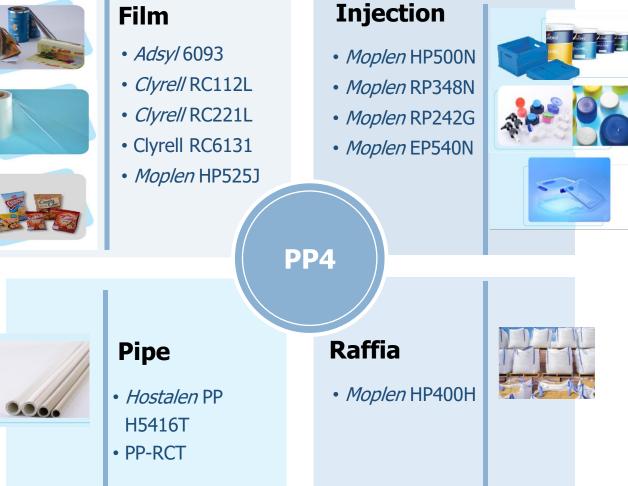


Others --%SPDP

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Product Strategy PP4 Product Slate









Start-up plan: 2022H2







HMC as A Most Admired Company

Achieving sustainability through Environmental, Social and Governance



• In November 2021, we received the **Green Industry Award Level 4: (Green Culture)** which was sponsored and endorsed by the Thailand Ministry of Industry.



- This award is a recognition that we are an organization which places environmental considerations as a top priority for all aspects of its business operations as well as a key aspect of its corporate culture.
- Green Industry refers to industrial entities that are committed to the continuous improvement of production processes, environmental management and business operations throughout the supply chain that are environmentally and socially responsible.

HMC as A Most Admired Company

Achieving sustainability through Environmental, <u>Social</u> and Governance



 HMC has consecutively obtained this CSR-DIW Award since 2010 from Department of Industrial Works as our belief in Care and share for the better life.

26000

CSR-DIW

AMARD

- A variety of sustainability development initiatives that are currently active and expanding including Circular Economy
- With Circular Economy, we could gradually reduce household greenhouse gas emissions through food waste and plastic waste segregations for further utilization as fertilizer and plastic recycling.



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HMC as A Most Admired Company

Achieving sustainability through Environmental, Social and Governance



International Anti-Corruption Day 2021







Gifts, Entertainment and Travel Policy

- In December 2021, HMC Polymers was presented with a Thai Chamber of Commerce Outstanding Ethics Award at the "TCC Best Awards 2021: Seize opportunities, navigate through crisis with ethics".
- We are committed to prevent corruption and fraud by building good governance culture among employees. Both newcomers and existing employees are continuously updated on Anti-Fraud Policy and Gifts, Entertainment and Travel Policy to ensure that ethical business conduct can be expected.







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PP4 Project



The most advanced PP plant ever built



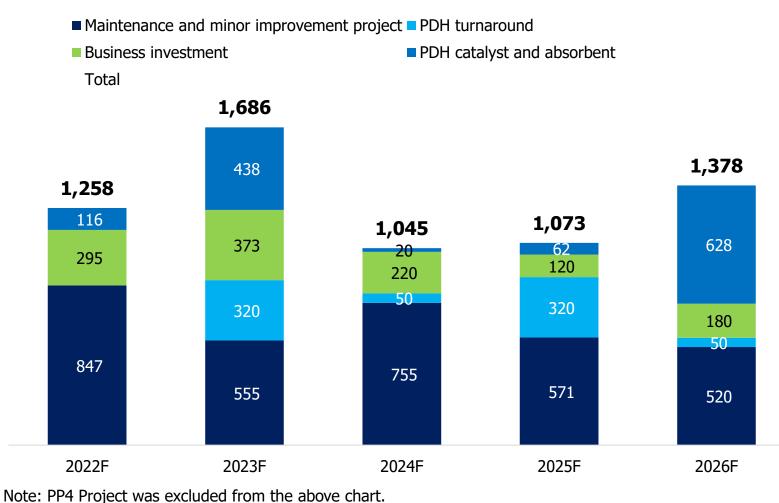
- The new PP4 Plant is now well underway bringing HMC's total PP capacity to 1,060 KTA further boosting its position as the largest PP producer in ASEAN.
- Expected PP4 start-up in 2022H2
- Focus on innovative products exploiting the new generation technology and catalyst benefits
- More specialty and differentiated products to the growing market for flexible packaging, hygiene products and pipes with higher margins

5 Years CAPEX Plan

Capital projects to enhance Safety, Reliability, Efficiency and Sustainability

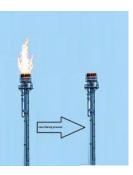
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in Million Baht



CAPEX Highlight

 PP Zero Flare from 2022 to 2024 with the value of Baht 550 million aiming CO₂ emission reduction and monomer yield enhancement for sustainable utilization.



 PDH major turnaround in 2023 and will extend turnaround interval from 2 years to ~3 years, then next turnaround will be shifted to 2026.



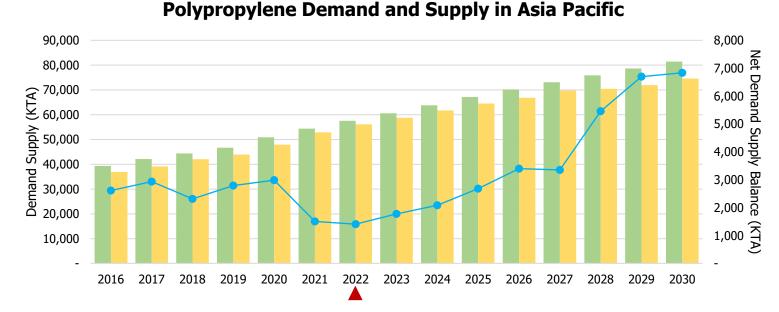




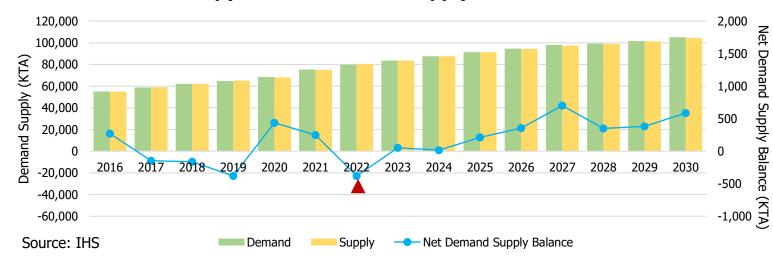
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Polypropylene and Propylene Demand Supply Balance in Asia Pacific





Propylene Demand and Supply in Asia Pacific



Polypropylene Market

- In 2021, changes in consumer behavior resulting from the impact of COVID-19 led to demand growth for PP fiber, food packaging, film and sheet products.
- Continual increase in consumption of PP in 2022 is expected as a result of a combination of growth in traditional uses (e.g. packaging and medical application), recovery of automotive segment and new emerging EV application.
- On the capacity development, the impact of COVID-19 and an uncertainty about the economic outlook have delayed the start-up of several new PP plants in Asia Pacific.

Propylene Market

 Propylene market in Asia Pacific is expected to be relatively tight during turnaround season.

<u>Disclaimer</u>

The short-term impact from a conflict between Russia and Ukraine has not yet been included in the assumption.



HMC Investor Information



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HMC Industrial Hygiene Certified by FTI The Federation of Thai Industries (FTI) is cooperating with the Ministry of Public Health and Ministry of Industry in Thailand to assist ... read more

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