

# FUTURE OF POLYPROPYLENE

# PAVING THE WAY FOR SUSTAINABLE SOLUTION

The 15<sup>th</sup> PTT Group Petrochemical Outlook Forum Friday, 16 August 2024

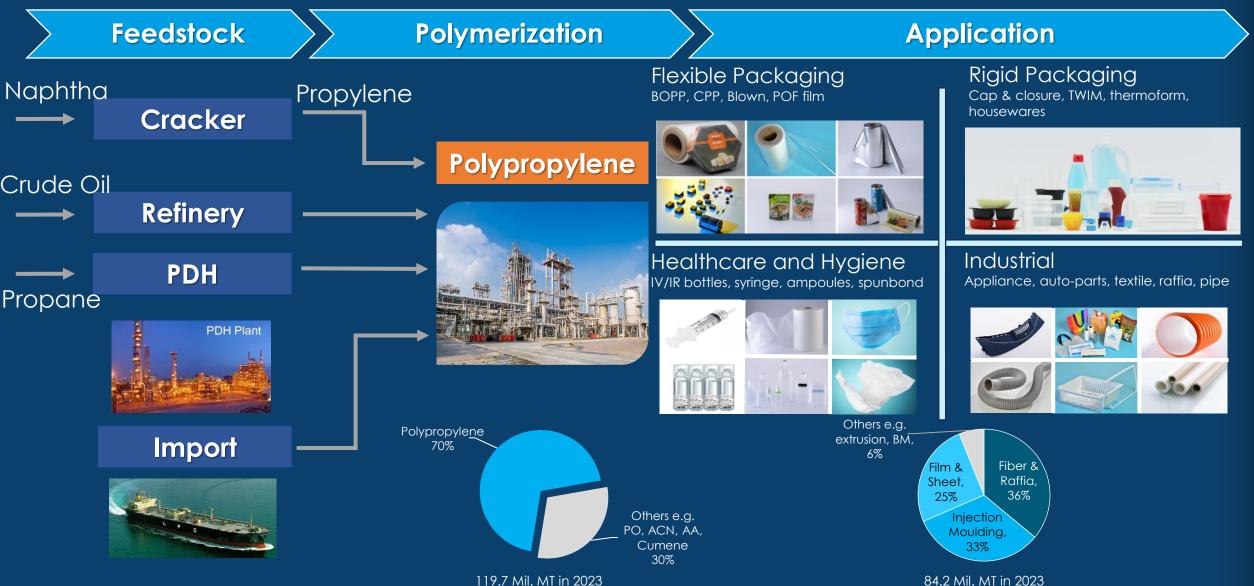
# What Is Your Survival Of The Fittest?

# POLYPROPYLENE VALUE CHAIN





# PP Is A Key Polymer for Everyday Products



# GLOBAL PP DEMAND/SUPPLY LANDSCAPE

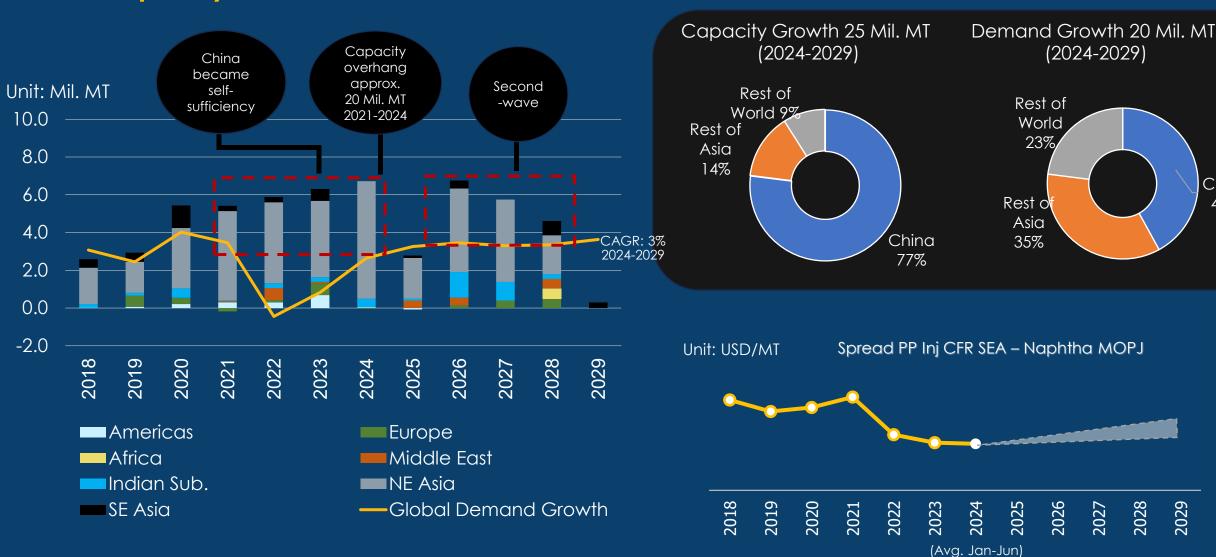




China

42%

### Overcapacity Investment and Second-Wave Potential in China



Source: CMA and HMC Analysis

2028

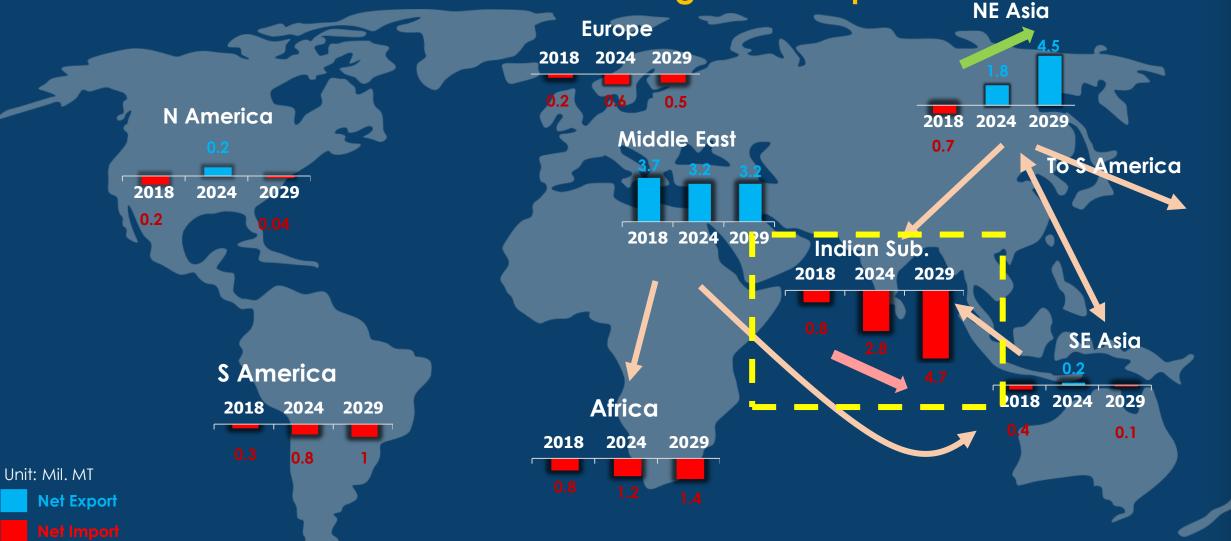
2029

# GLOBAL PP TRADE FLOW





Increasing Supplies and China Self-sufficiency:
The Indian Sub. Is Forecasted to be the Largest Net Importer



# **MEGA TRENDS**





# Global PP Demand Continues to Grow, Aligned with the Trends











Demographic Shift

Health and Wellness

Urbanization

Disruptive Technology

Sustainability

## SUSTAINABILITY PATHWAY





# The Market Has Responded to the Sustainability Trend

#### **Trend Towards**



Single-use Plastic is Banned



"Net Zero" Target



Sustainability is not just about the Environment

#### **Market Responds**



Increasing of Inter-Material Replaced Products



e.g. fiber-based, bio-based with fast development to improve performance



Enforcement of Low Carbon Emission

Brandowners / customers seek for low carbon emission solutions



Engagement along Value Chain

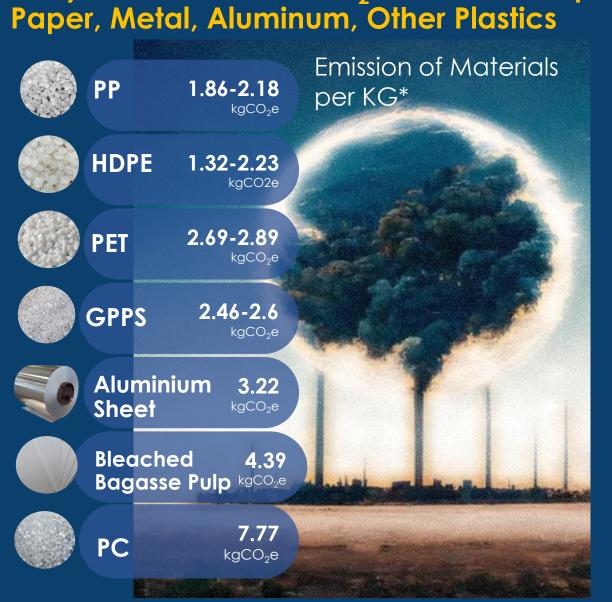
Implementation of international requirements

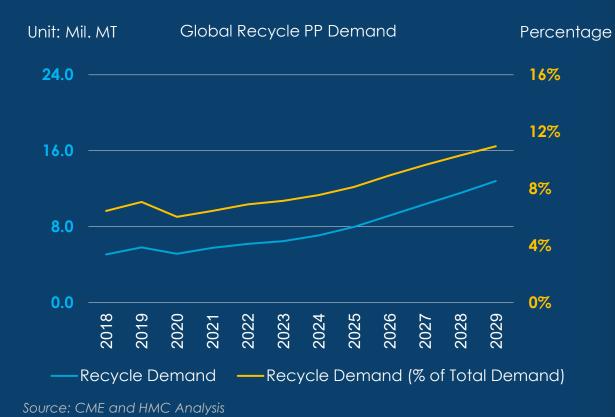
# PP: SUSTAINABLE MATERIAL











# And we make it more sustainable

through Innovation and Partnership
Make it not only the products but also the Process

# PP: INNOVATION-DRIVEN MATERIAL FOR SUSTAINABILITY





# **Higher-Performance and Greener Materials**



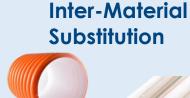
**Mono-Material** 

Multi-Material Laminate

PET

Adhesive









10

Durable application that is easily recycled.

**Light Weight Material** 





Maintaining the dimensional stability and performance



Traceability-Certified Low Carbon Feedstock

**Bio-Circular Pl** 







**Used Cooking Oil** 

#### Circular



PCR Mixed Plastic Waste

#### **Mechanical Recycled PP**





Global Recycled Standard

# **KEY TAKEAWAYS**





# Paving the Way to Sustainable PP Solution

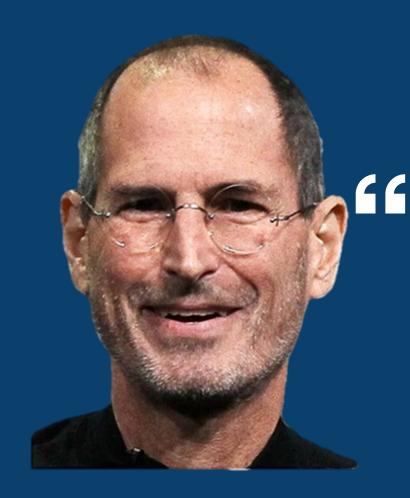
Considering challenging period, Asia producers are adapting to changes such as improve feedstock competitiveness, adjust business model, diversify market, and explore sustainable options

Sustainable solution needs to plug in innovation ways such as reduce usage at source, multiple usage, ease of recyclability, and replacing non-sustainable materials

To bring sustainable solutions to market, we needs to be **committed** to working closely with its **value chain partners:** technology providers, converters, end-users







# Innovation Is The Ability To See Change As An Opportunity – Not A Threat ""

Steve Jobs