



# NAVIGATING THE STYRENIC MARKET

Unveiling Challenges and Opportunities amid the Volatile World

The 15th PTT Group Petrochemical Outlook Forum

Friday, 16 August 2024



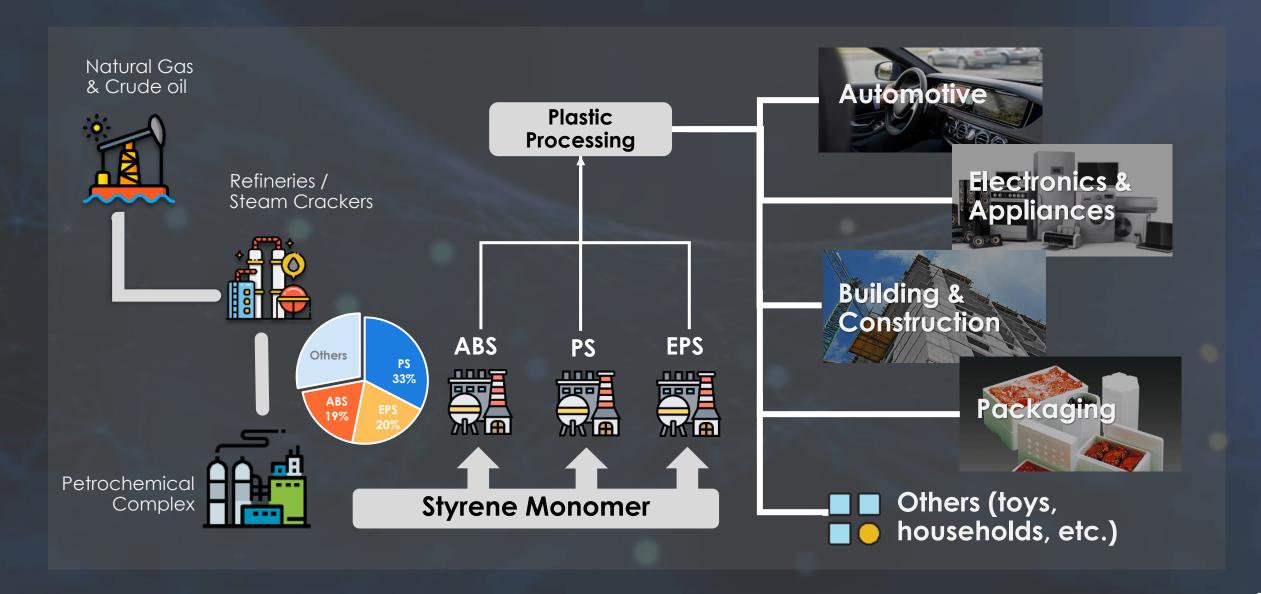
#### Did it bottom out

Where's Opportunity

How We Survive

#### STYRENIC SUPPLY CHAIN

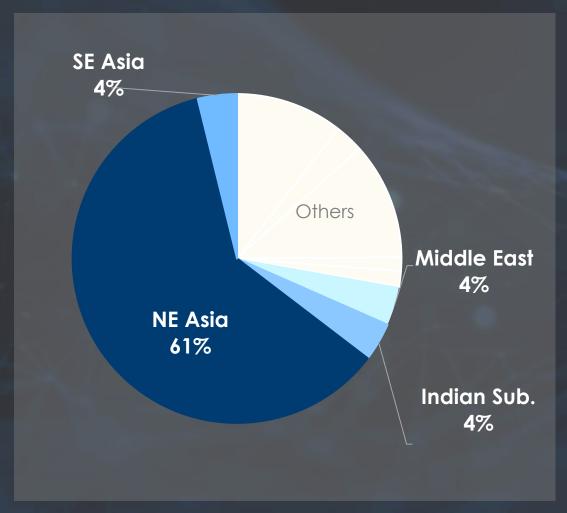


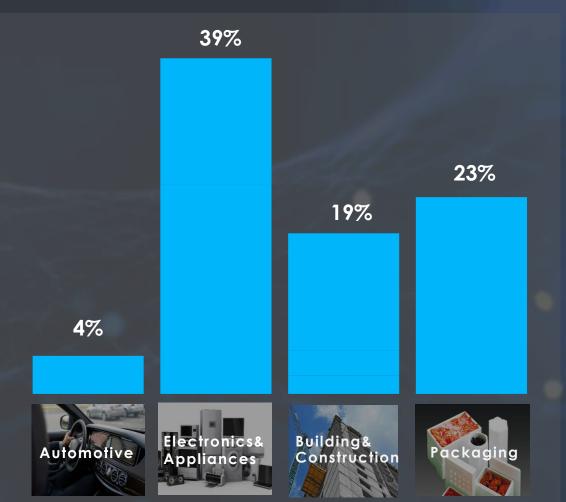


#### WORLD STYRENIC DEMAND IN 2024



Asia Is the Biggest Consumer, While the Electrical and Electronic Sectors Drive Demand Growth









#### Huge Capacity Additions in China Until 2025 Amid Steady Demand Growth





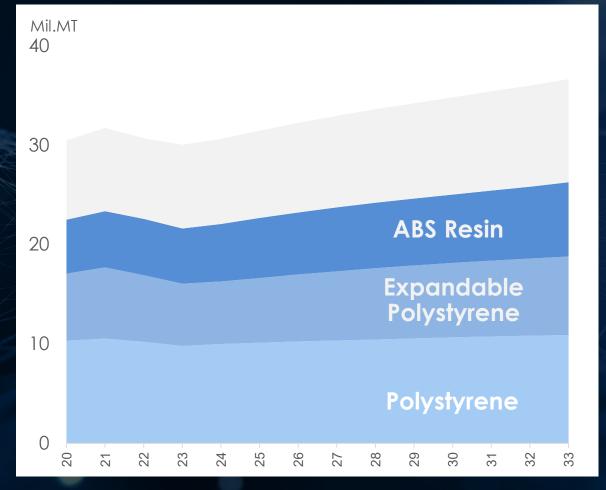


#### STYRENIC RETURNS TO GROWTH POST-2025

Styrenic Returns to Growth, Driven Mainly by Urbanization and Emerging Technology





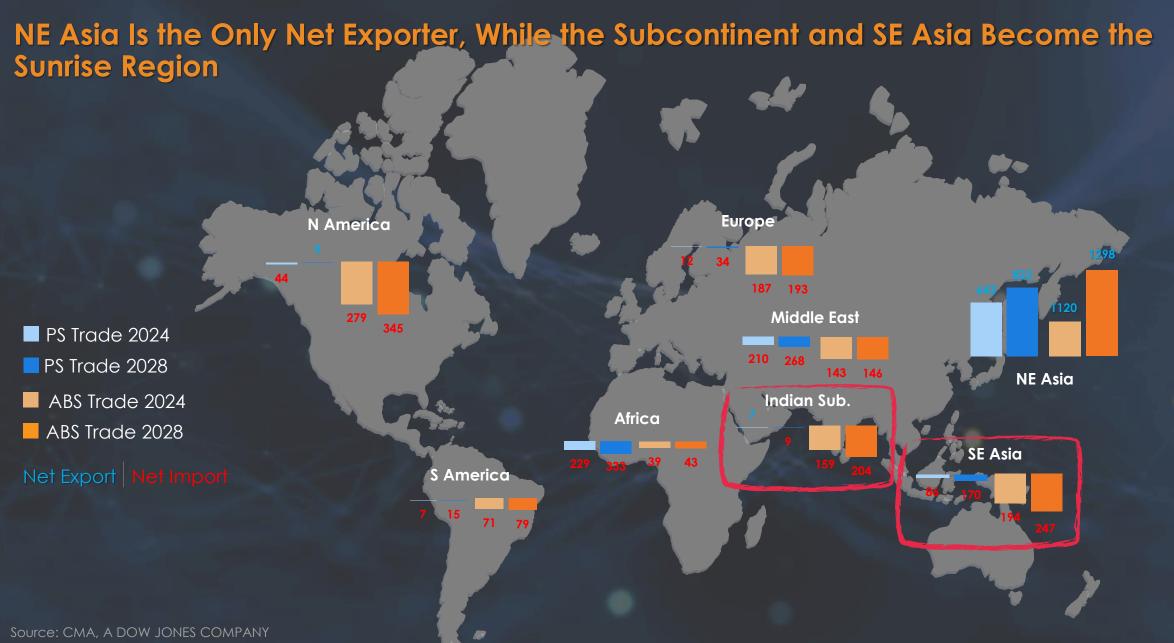


Source: WPC

#### TRADE GRAVITY SHIFTS EAST









### CHINA Plus One

ASEAN - Preferred Region for China and Foreign Companies



Geopolitical tensions



Pandemic-driven disruption



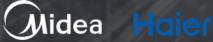
**Government Policy** 

Consumer electronics

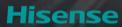




Home appliance







Electric vehicle











Digital economy





Renewables









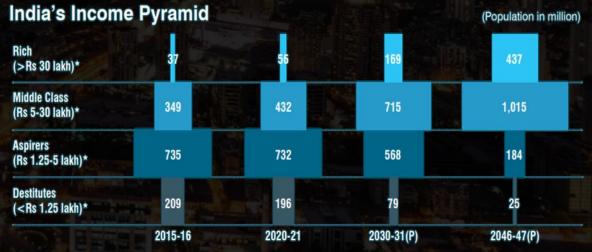




#### INDIA URBANIZATION

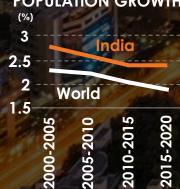
#### India Become A Silver Lining Amid Challenges





\*Annual household income at 2020-21 prices

#### ANNUAL URBAN POPULATION GROWTH



of national income expected to come from urban areas by 2036

the estimated investment in urban infrastructure over the next 15 years

Indian Urbanization

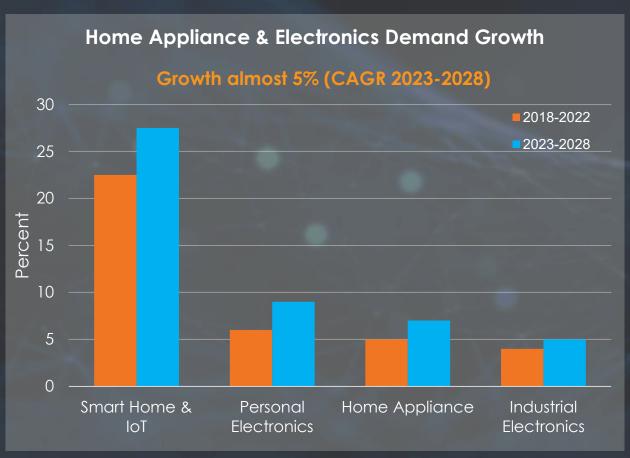
Source. World Dar

#### HOME APPLIANCE & ELECTRONICS DEMAND GROWTH ARREST APPLIANCE





The Impact of Emerging Technology and Urbanization Has Driven Home Appliance & Electronics Demand Growth



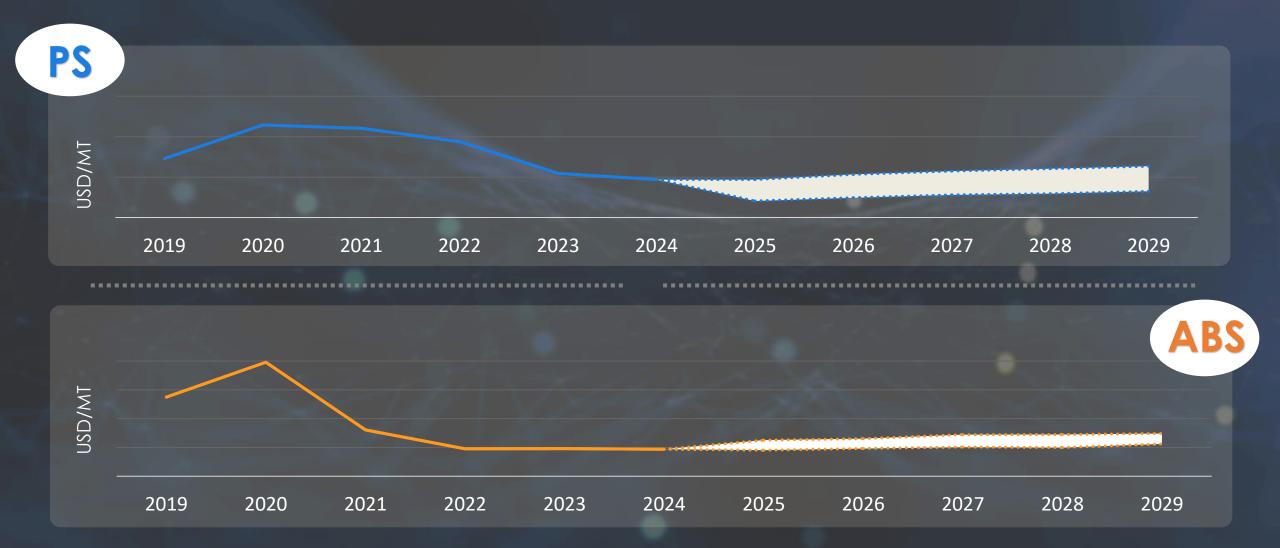
Source: Custom Market Insights, Precedent Research

- Smart Appliances
- IoT-Enabled
- More Functionality
- Influence of Health and Wellness Trends
- Focus on Sustainability

#### STYRENIC OUTLOOK



#### **Styrenic Margins Gradually Recovered After 2025**







## SUSTAINABLE TRENDS OF STYRENIC

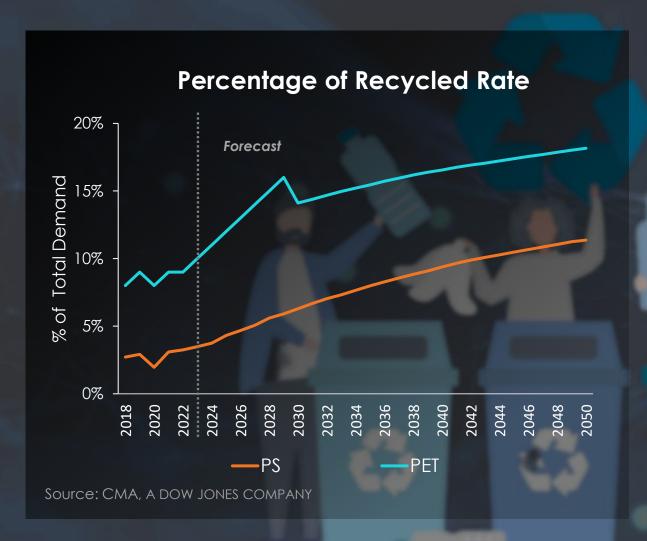
CHALLENGE & OPPORTUNITY





#### SUSTAINABLE CHALLENGES IN STYRENIC

Slow Growth of Recycled Rate in the Styrenic Chain Due to Many Obstacles

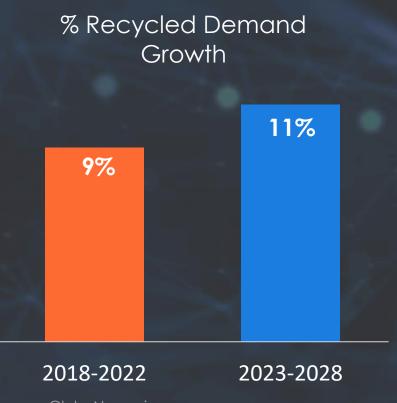






#### HIGH DEMAND FOR RECYCLED MATERIALS

Companies Are Incorporating Recycled Plastics into Their Products, Reducing The Need For Virgin Materials And Minimizing Waste





Increase the proportion of recycled plastic the Group uses to 50% by 2030.

#### **SAMSUNG**

By 2030, apply recycled resin to 50% of plastic parts used in DX products. And aim to expand e-waste collection system to all countries with sales presence, collecting a cumulative 10 million ton.



By 2030, more than half of our product content will be made from recycled, renewable or reduced carbon emissions material.

Source: GlobeNewswire

#### SUSTAINABLE WAY FORWARD





Bio Composites and Recycled Compounds Are Becoming New Solutions for Styrenic





#### KEY TAKEAWAYS

- © Center shifts to Asia
- © Demand growth by post-2025
- © Emerging technology and urbanization in developing countries driving demand
- Preparation for sustainability





**66** There are no secrets to success. It is the result of preparation, hard work and learning from failure.

