

Investors Conference 2023.6



東聯化學(1710TW)

Oriental Union Chemical Corp.

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- Future prospects in this presentation reflects the company perspective based on the condition until now. If any change or adjustment of views later in the future, the company undertakes no obligation to update.

- Company Overview
- History
- Subsidiaries Chart
- Operation Overview-EG、GAS、SC
- Financial Overview
- Company Strategy



Company Overview

- Established 1975/12
- Capital NT\$ 8,857 million
- Chairman Douglas Tong Hsu
- General Manager Justin Tsai
- Main Business Manufactures and markets ethylene glycols, ethylene oxide, gas oxygen, gas nitrogen, liquid nitrogen, liquid argon, monoethanolamine, ethylene carbonate, polyethylene glycol, polyoxyethylene lauryl ether and methoxy polyethylene glycols.
- Production Sites Linyuan 、 Yangzhou

Linyuan

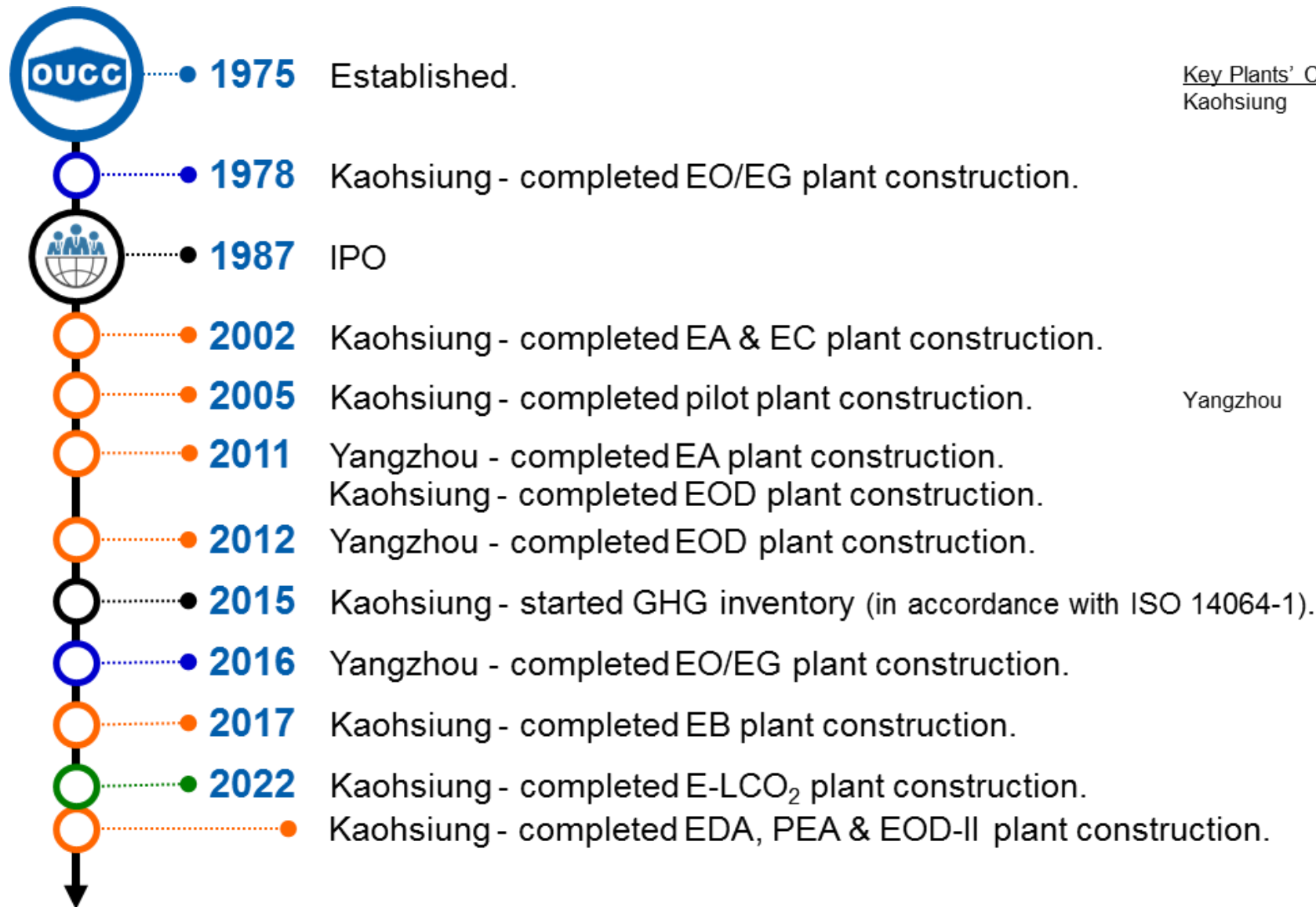


Yangzhou





History

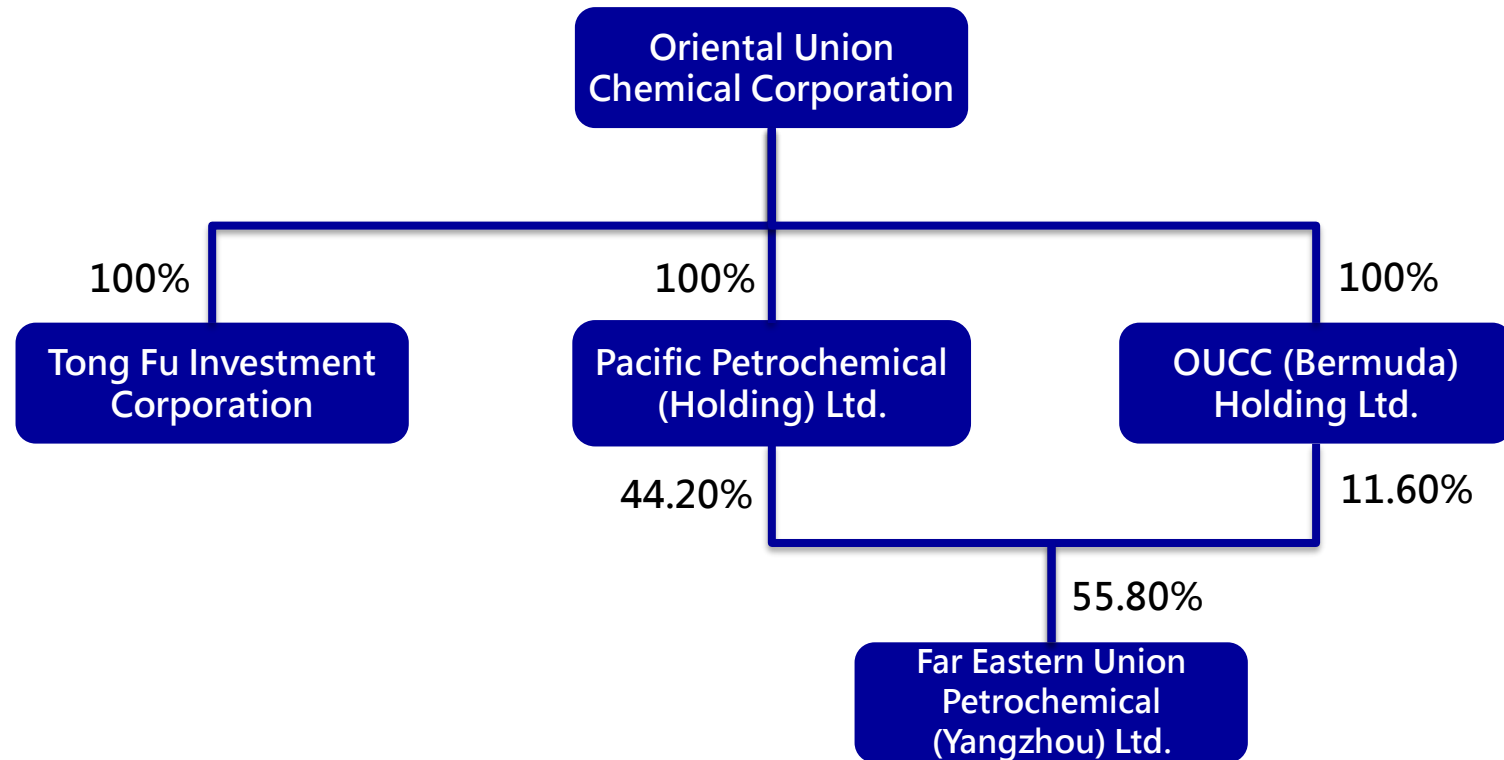


Key Plants' Capacity Change:

Location	Plant Type	Year	Capacity Change
Kaohsiung	EO/EG plant	1978	EG 125KTA
		2015	EO increased to 360KTA & EG increased to 300KTA
	EA plant	2017	EG increased to 360KTA
		2002	EA(I) 40KTA
	EB plant	2008	EA(II) 40KTA
		2015	EA(II) increased to 60KTA
EC plant	2017	EA(I) reconstructed to EB 20KTA	
	2022	increased to 40KTA	
	2002	20KTA	
Yangzhou	EO/EG plant	2008	increased to 60KTA
		2016	EO 400KTA & EG 500KTA



Subsidiaries Chart





Three Business Groups

Ethylene Glycols

A photograph showing several clear plastic bottles of ethylene glycol with blue and red caps, set against a blue background.

Industrial Gases & L-CO₂

A photograph of a blue printed circuit board (PCB) with various electronic components and traces, set against a blue background.

Specialty Chemicals

A photograph of several open paint cans containing various colored liquids (red, yellow, green, blue, purple), set against a blue background.

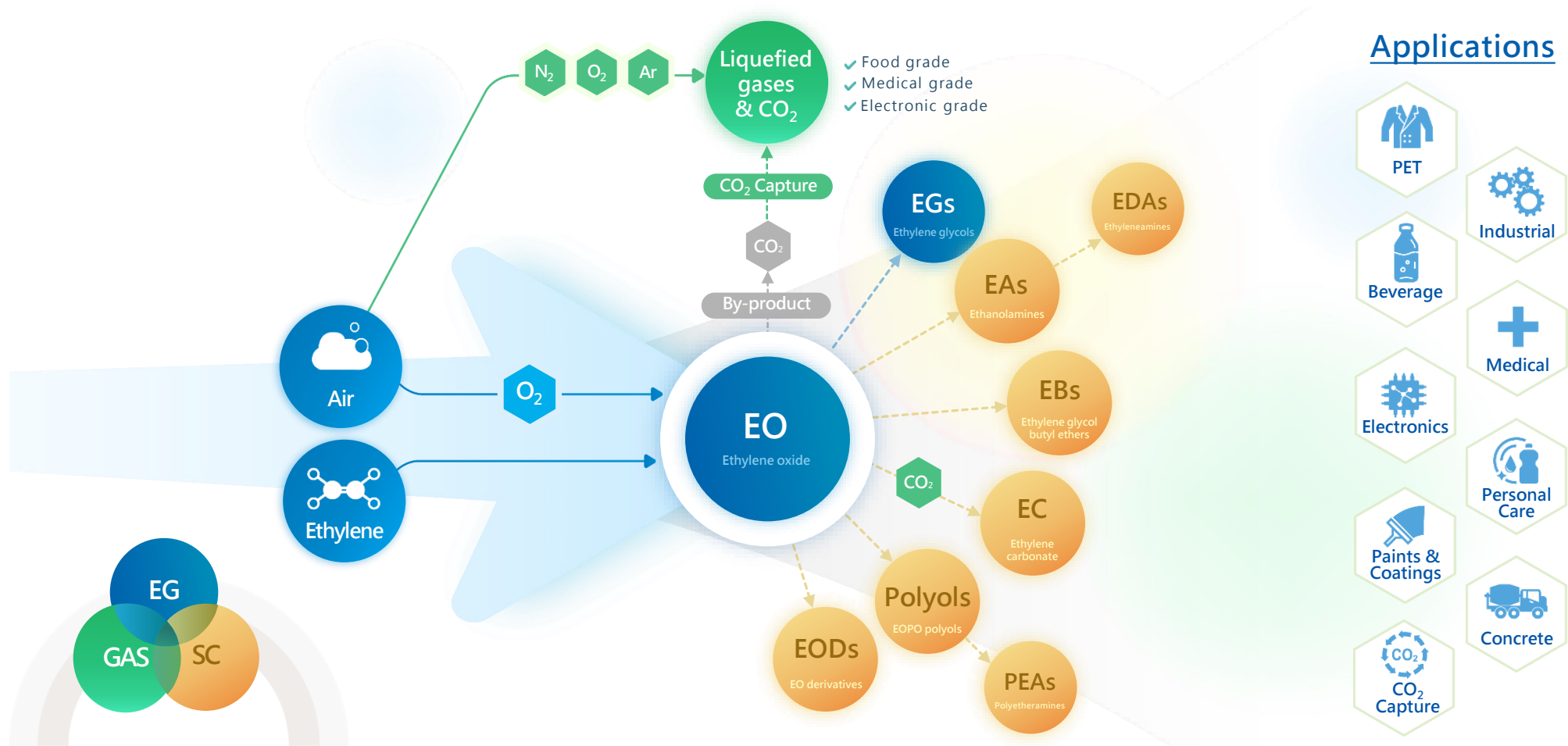


Product & Capacity

Group	Products	Linyuan	Yangzhou	Total
EG	EO	360kta	400kta	760kta
	EG	360kta	500kta	860kta
GAS	O ₂ 、N ₂ 、Ar	1,000kta	800kta	1,800kta
	E-CO ₂	17kta		17kta
SC	EA	60kta	40kta	100kta
	EB	30kta		30kta
	EC	80kta		80kta
	EODs	100kta	66kta	166kta
	PEA	8kta		8kta
	EDA	20kta		20kta



Product Value Chain





Products & Applications



Material

Products

Applications

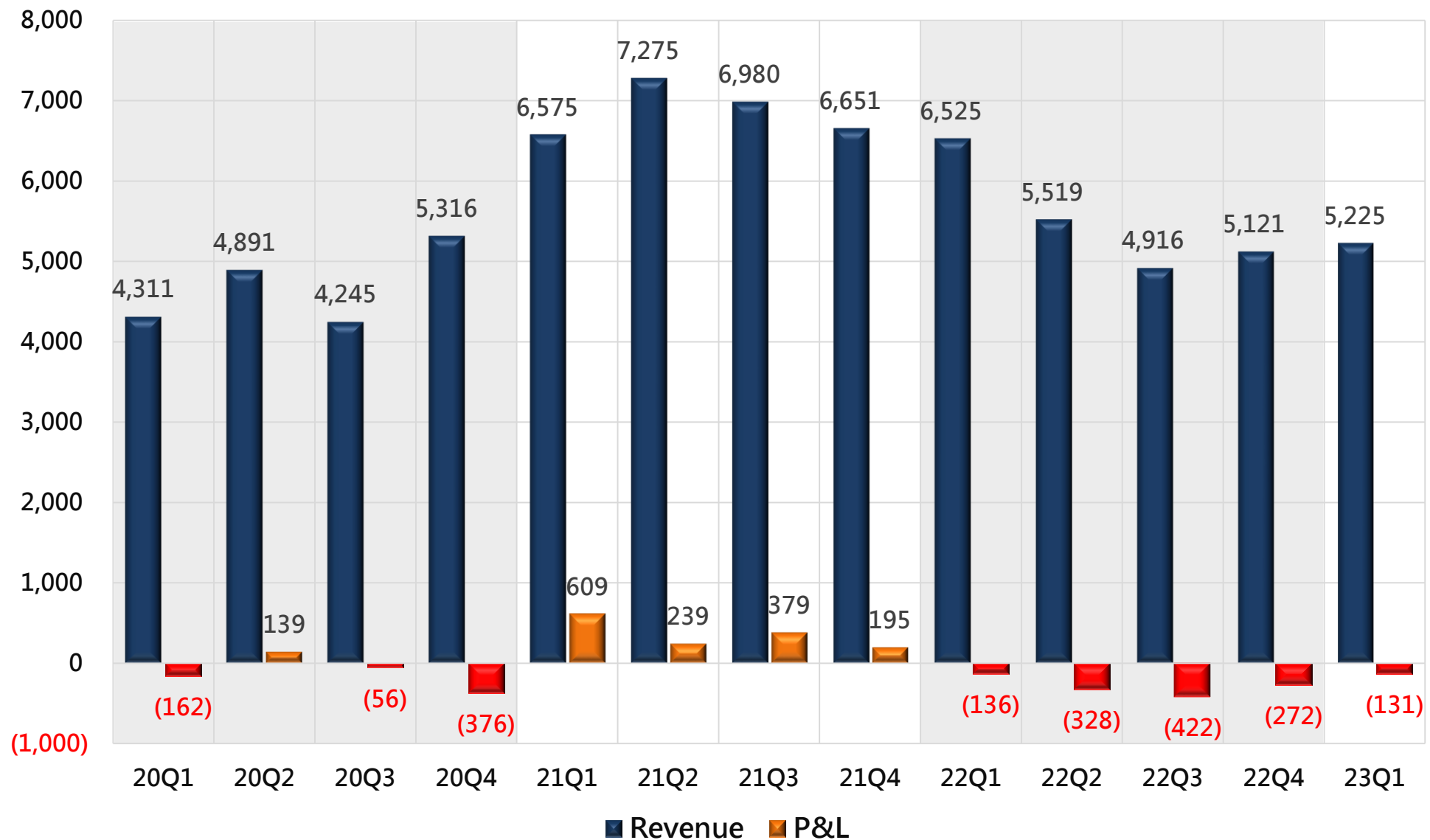
Ethylene

Ethylene Oxide

Ethylene Oxide	Ethylene Glycol	MEG/DEG/TEG	Polyesters/PET/Antifreezes/Syn. Leathers	
	Ethanolamines	MEA/DEA/TEA	Detergents/Elec. Stripper/Cosmetics/Medical intermediates	
	Glycol Ether	EB/DB/TB/PB	Coating/Ink/Electronic Chemical Strippers	
	Ethylene Carbonate	EC	CD/Engineering Plastics/Electrolytes/Resin Modification	
	EODerivatives	Surfactant & Performance Chemicals	Ethoxylates	Detergent/Cosmetics/Dyeing and finishing auxiliaries /Agrochemical adjuvants
			Polyethylene Glycol (PEG)	Electroplating brightener/Flux/Release agent
			EO/PO Copolymers	Emulsifier/Demulsifier/Defoamer
		Construction Chemicals	Polycarboxylate (PCE)	PCE/Functional aids/Grinding additives
		Fine Chemicals	Polyols	Lotion/Demulsifier/Defoamer/Dyeing Auxiliaries
			Ethyleneamines	Coating/Epoxy curing agents/Medicals/Agriculture additives /Surfactants
	Polyetheramines		Wind blade curing agent/Epoxy curing agent /Gasoline detergent	
Oxygen/Nitrogen/Argon		Electronic semiconductor Ind./Pharmaceutical Ind. & Hospital /Steel Ind./Chemical Ind./Petrochemical Ind.		
Carbon Dioxide		Electronic semiconductor Ind./Pharmaceutical Ind. & Hospital /Food Ind./Freezing Ind.		



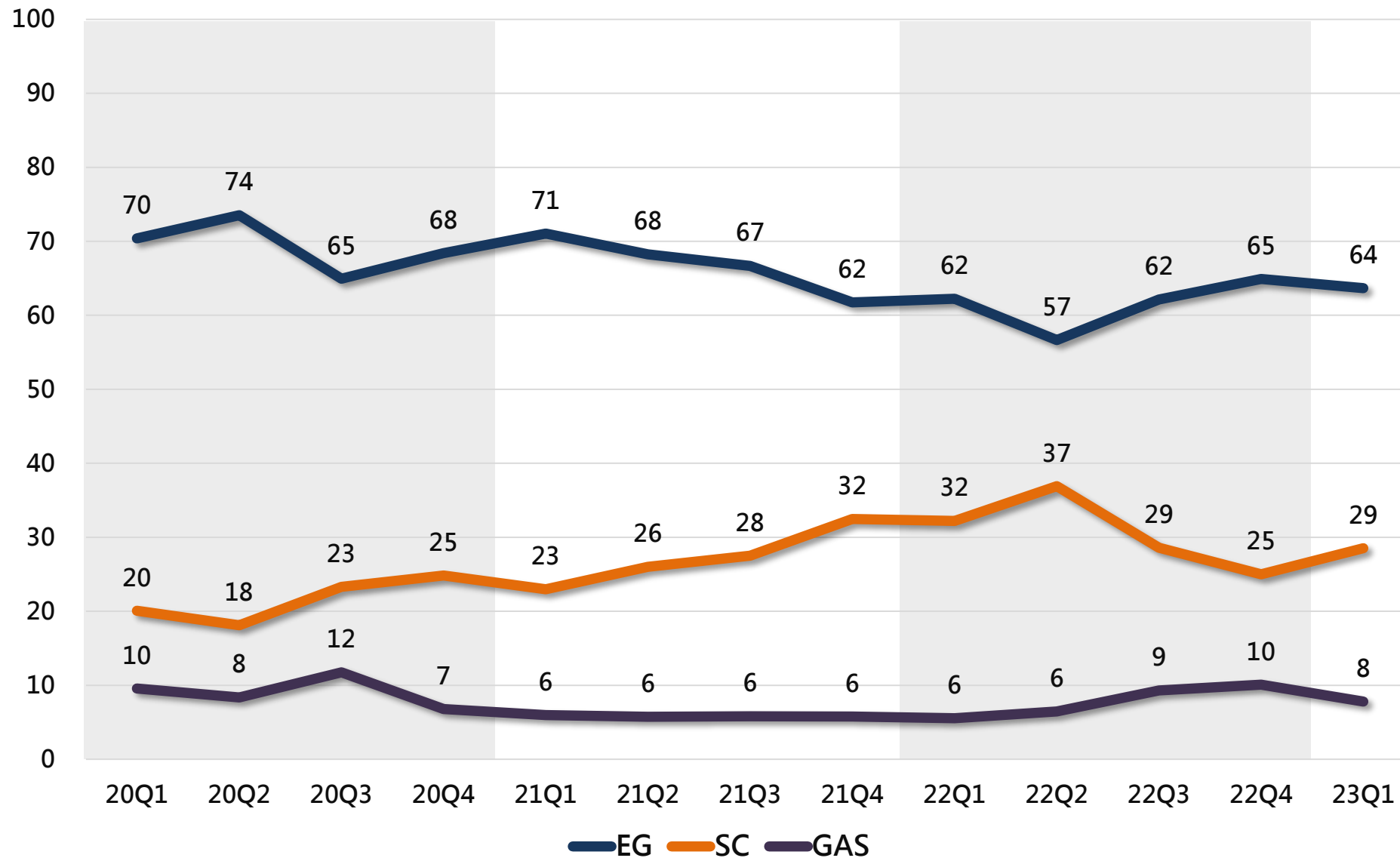
Operation Overview-Revenue · P&L



NT\$ million

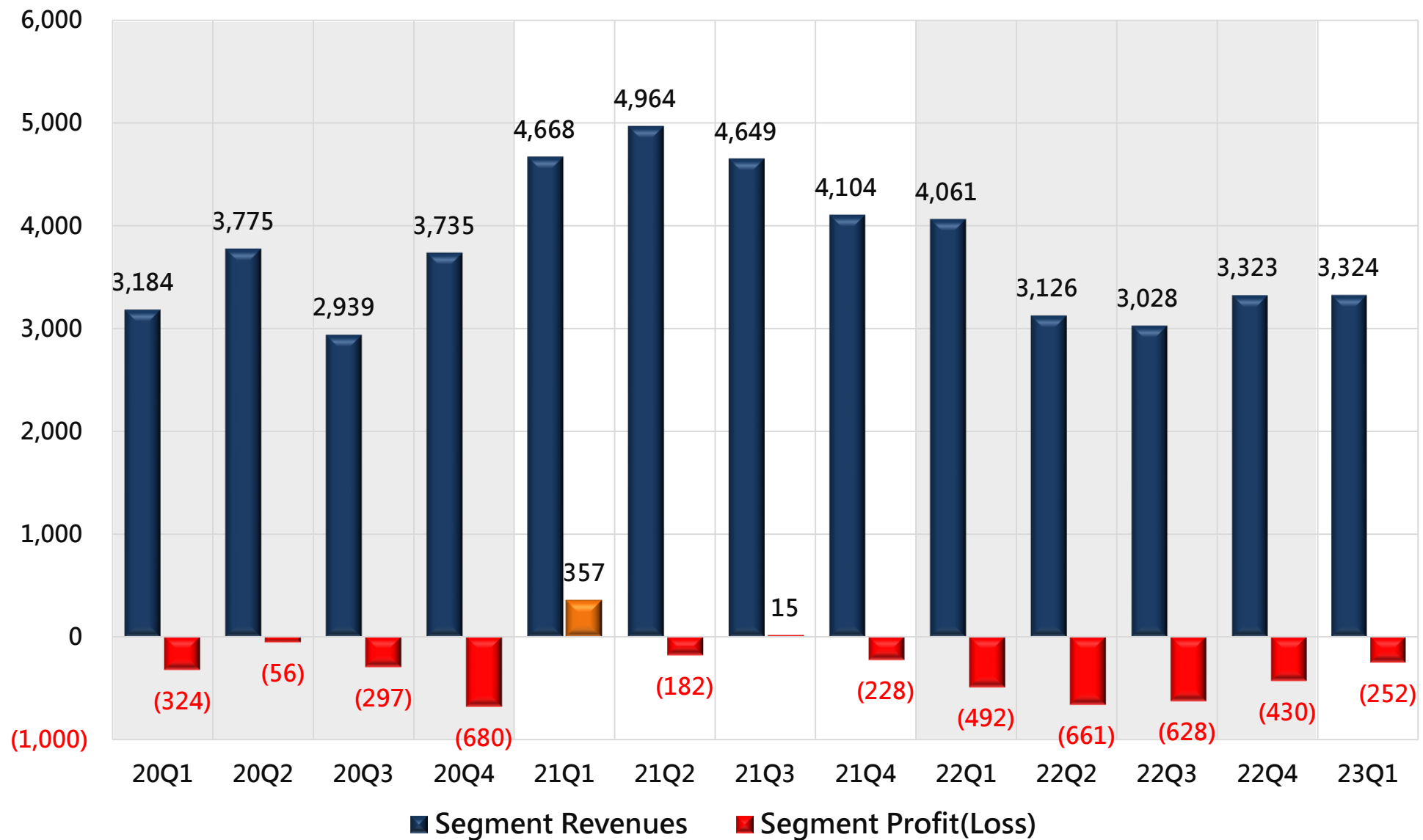


Operation Overview-Sales Ratio





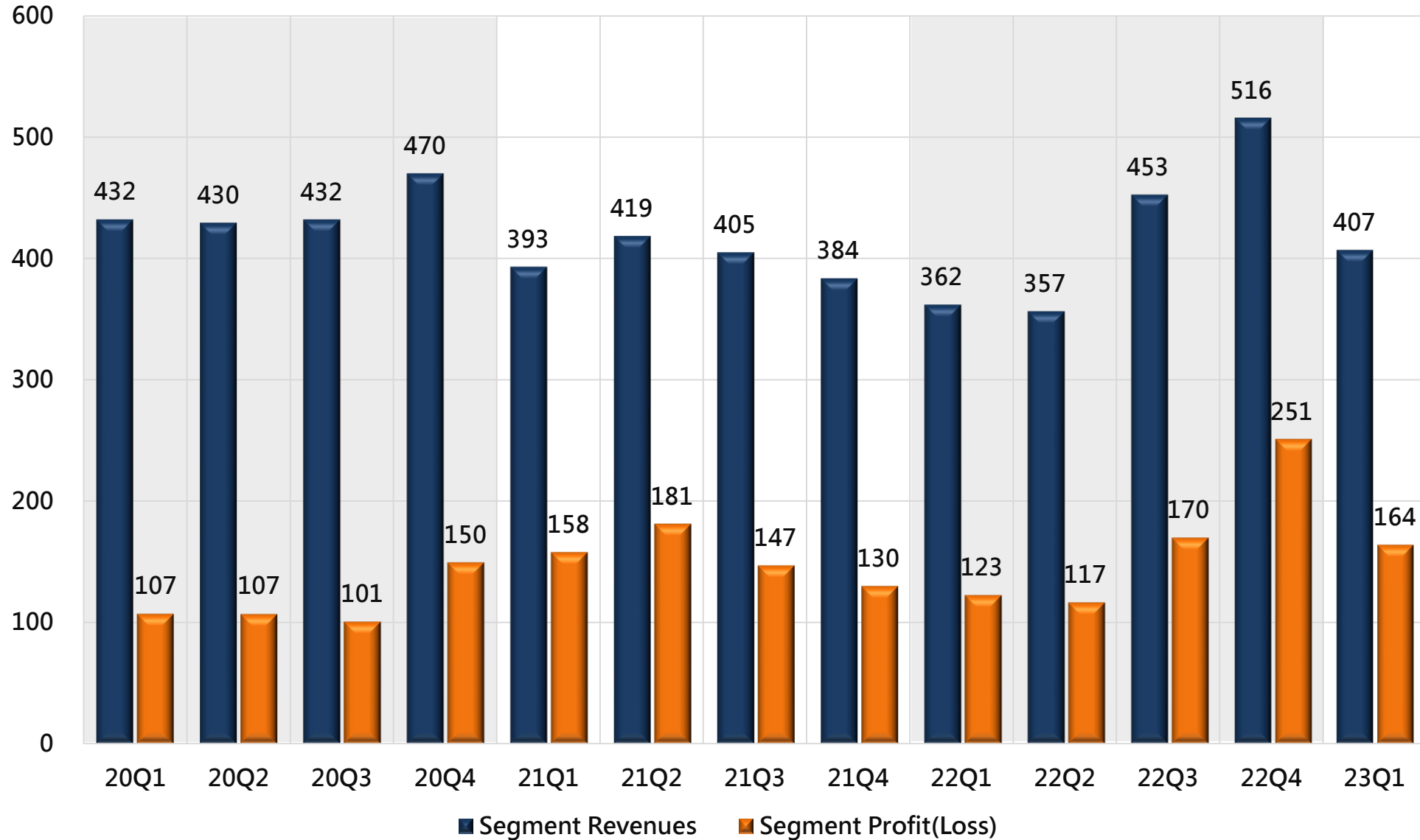
Operation Overview-EG



NT\$ million



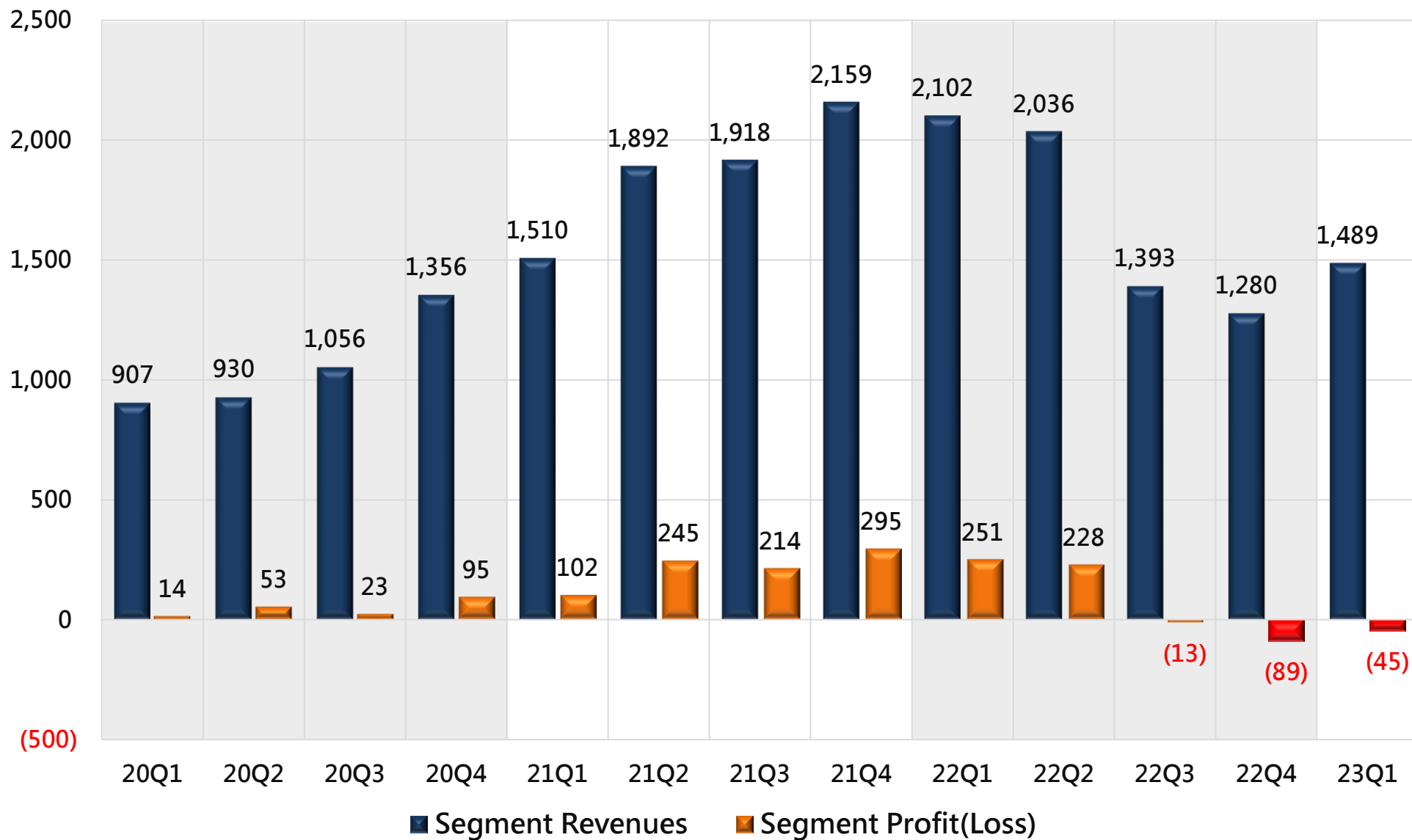
Operation Overview-GAS



NT\$ million



Operation Overview-SC



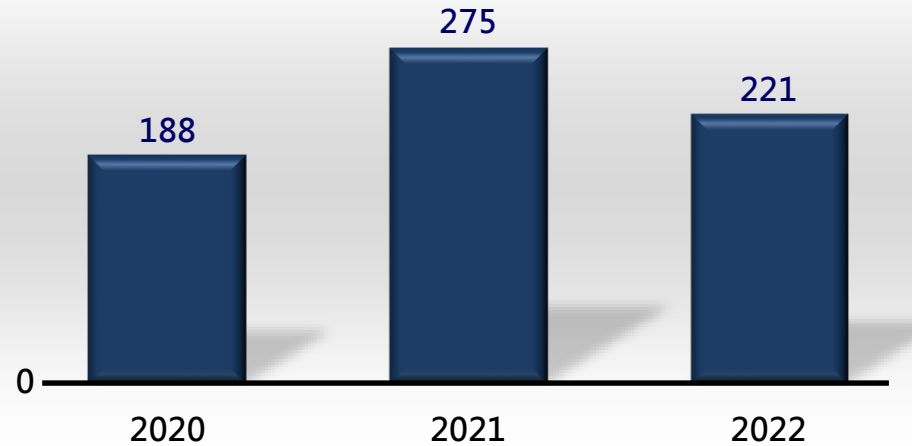
NT\$ million



Financial Overview

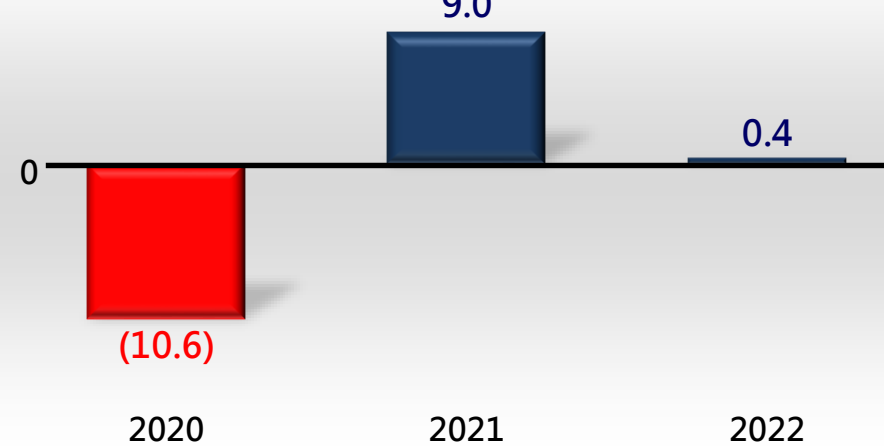
Consolidated Operating Revenue

(NT\$ million)



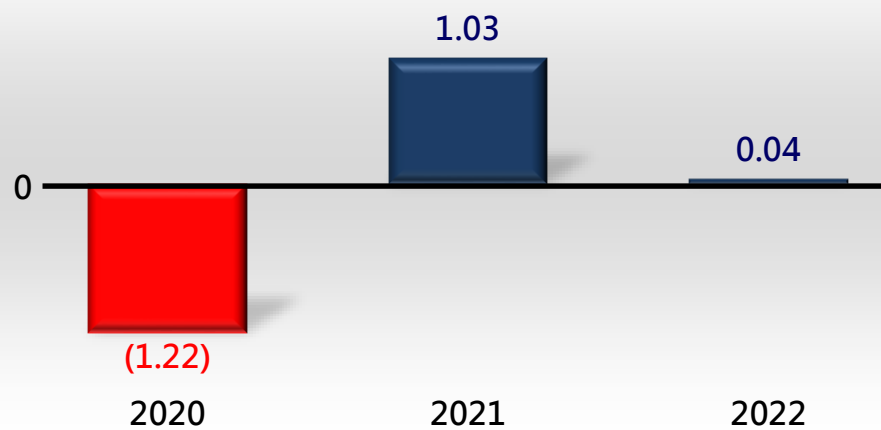
Net Profit(Loss)

(NT\$ million)



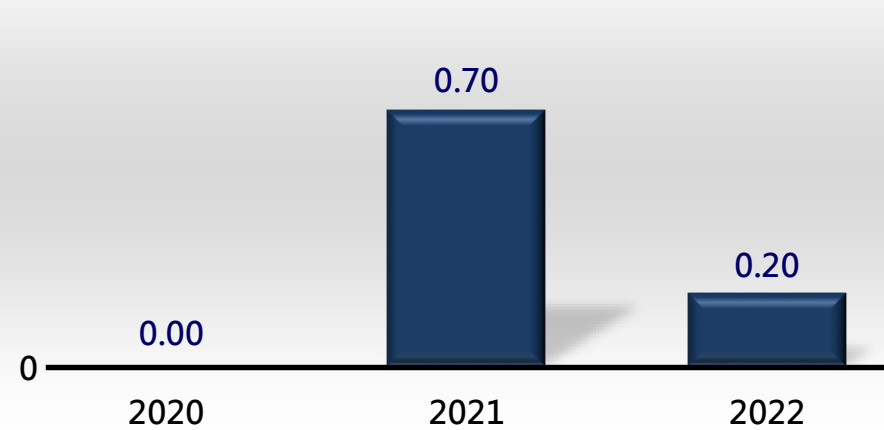
EPS

(NT\$)



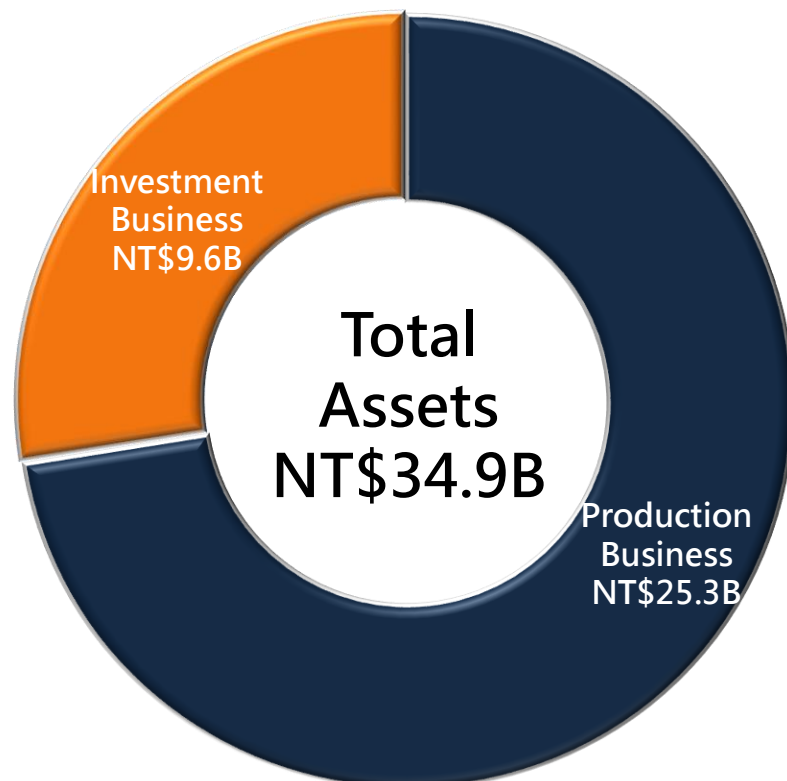
Cash Dividend

(NT\$)





Consolidated Balance Sheets(2022/12/31)



Financial Structure

Liabilities NT\$20.6B	Interest-bearing Debt	NT\$17.3B
	Interest-free Debt	NT\$3.3B
Equity NT\$14.3B	Equity %	41%
	BVPS	NT\$13.5



Strategy(I)-Technology Transformation



- Develop green processes and green materials
- Develop plastic recycling, material modification and biodegradable polyester technologies



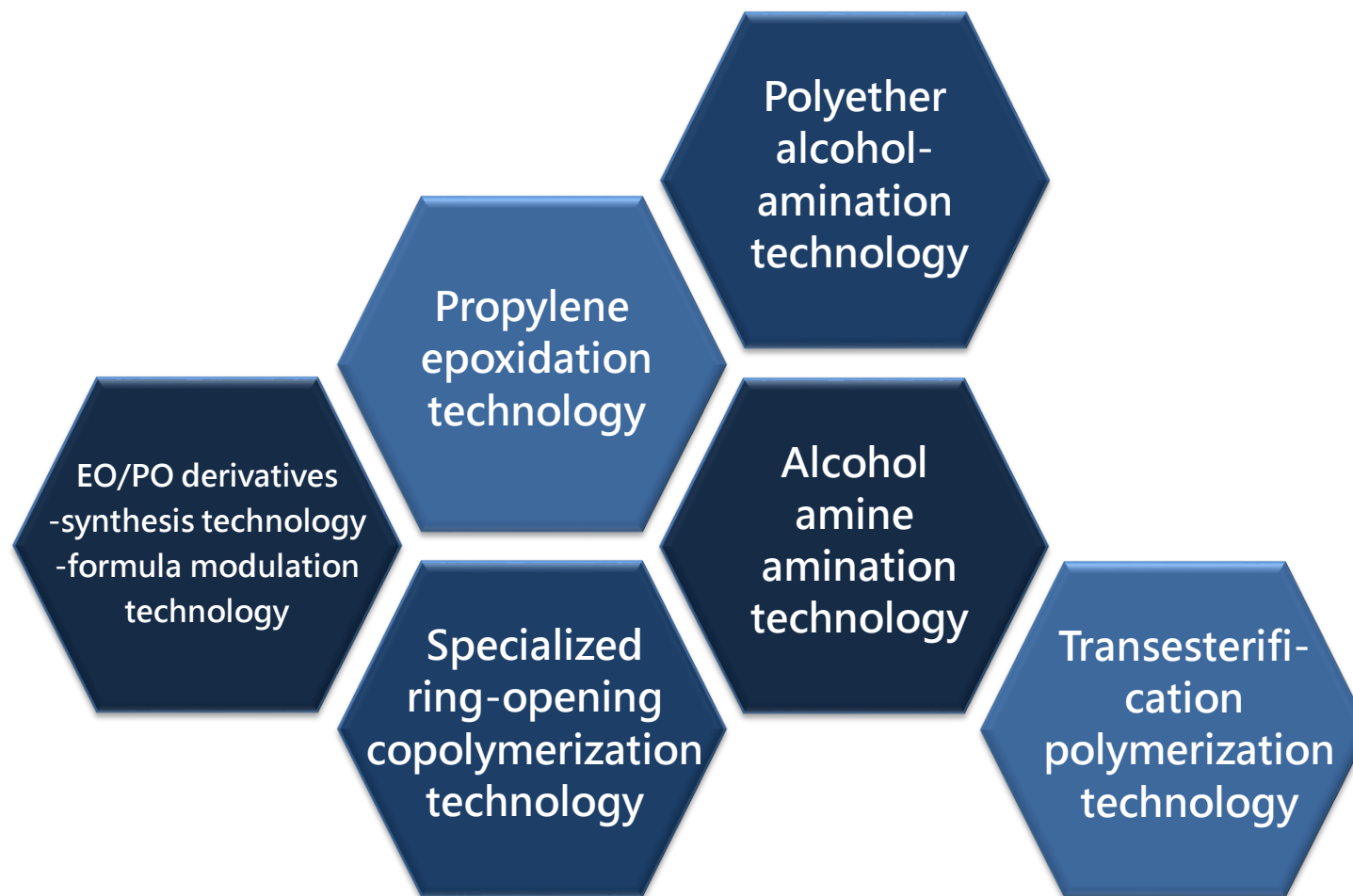
- Continue to invest in technology research and development, improve chemical properties, and achieve the purpose of carbon fixation and carbon reduction
- Carbon embedment, carbon capture technology and energy integration, development of CO₂ chemical low-carbon process



- Master special application chemicals and materials
- Focus on high-tech efficiency, link environmental protection, electronics, automobile and other industries with overall environmental solutions



Strategy(I)-Innovative Technology





Strategy(II)-Product Transformation

1 EO/EG/GAS

EO

EG

GAS

E-CO2

2 Surfactants & Performance Chemicals

Surfactants

Functional aids

Functional lotion

Green product

Customized solution

3 Solvent Chemicals

EA

EB

EC

4 Construction Chemicals

PCE

Functional aids

Grinding additives

Mortar additives

Customized solution

5 Fine Chemicals

EODs

PODs

EOPO Copolymers

PCDL

Polyester polyol

6 Amine series

Polyether amines

Ethylene amines

EA



Strategy(II)-Innovative Product

Category	Subject	Contents
Polyetheramine	Monoamines, diamines, polyamine and polyetheramine derivatives	<ul style="list-style-type: none"> ● OUCC owns the exclusive technology for direct amination of alcohols and ethers, which retains the excellent properties such as low viscosity, high permeability, anti-yellowing and heat resistance. ● They are used in high-performance composite materials, polyurea, and anti-scratch, weather resistant materials. Examples include large high-strength structures such as wind turbine blades, dams, bridge piers, as well as cement additives, epoxy flooring materials, paints, decorative ornaments.
Ethanolamine reductive amination co-products	Ethylenediamine, diethylenetriamine, aminoethyl ethanolamine, trivinyltetramine, piperazine and related co-products	<ul style="list-style-type: none"> ● OUCC owns the exclusive technology for direct amination of alcohols and ethers, and the main products are ethylenediamines, diethylenetriamines, triethylenetetramines, aminoethyl ethanolamines, piperazine and related products. ● They can be applied to petroleum, pesticide, medicine, light textile, chemical fiber, paper making, metallurgy, electroplating, solvent, resin additive and other fields.



Strategy(III)-Sustainable Management System



Standards

- GRI Standards : Core Option
- Sustainability Accounting Standards Board, SASB : Chemical Standard
- Task Force on Climate-Related Financial Disclosures



Environment

- ISO 14001
- ISO 14064-1
- ISO 50001



Society

- ISO 45001



Governance

- Regulations Governing the Preparation of Financial Reports by Securities Issuer
- ISO 9001

Thank You
Q&A



ORIENTAL UNION CHEMICAL CORPORATION