

Investors Conference 2023.5



東聯化學(1710TW)

Oriental Union Chemical Corp.

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





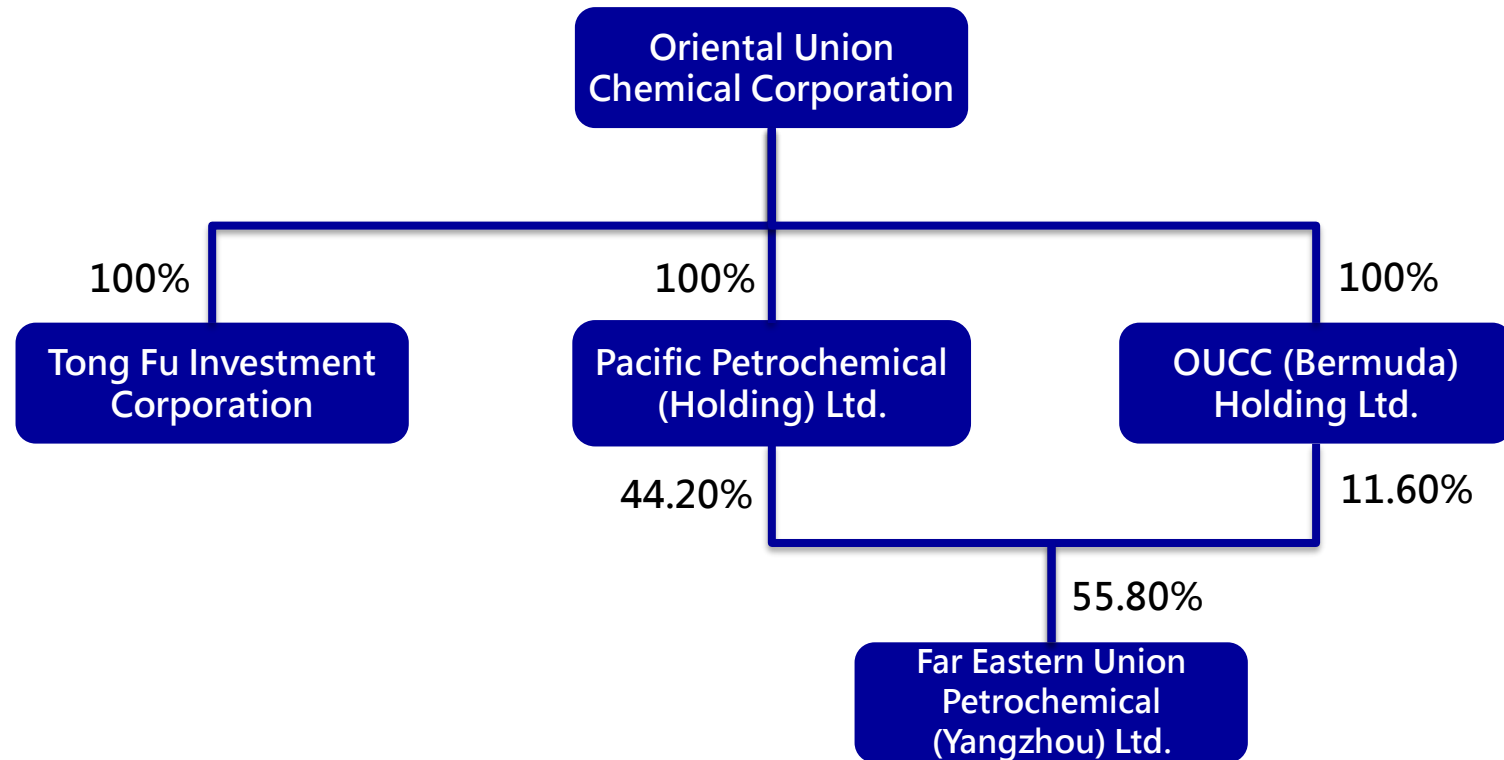
History



- 1975 The company was authorized for incorporation with a share capital of NT\$569,250 thousand.
- 1978 Ethylene glycol plant construction completed.
- 1987 Stock approved for sale.
- 1992 Completed the construction of the ethylene glycol wastewater treatment plant in compliance with national standards.
- 1998 Obtained ISO 14001, and achieved a record of 2 million consecutive incident-free man-hours.
- 2000 Implemented an enterprise resource planning system(ERP).
- 2002 Obtained certifications of ISO 9001 (Quality Management System) and OHSAS 18001 (Occupational Health and Safety Management System).
- 2008 Completed the second EA factory with an annual output of 40,000 tons, dedicated to the production of MEA, DEA and TEA.
Completed debottlenecking EC to increase output by about 20,000 tons per year.
- 2012 Completed the Oriental Petrochemical (Yangzhou) Corp. ethyleneoxide derivatives plant with an annual capacity of 60,000 tons.
- 2016 Completed the gas plant with annual output of 340,000 tons at Linyuan site. Completed construction of the CO₂ plant III at Linyuan site with an annual output of 40,000 tons.
Far Eastern Union Petrochemical (Yangzhou) Ltd. officially started commercial operation of the ethylene oxide and ethylene glycol plants with respective annual output of 400,000 and 500,000 tons.
- 2017 Completed the reconstructrue of the ethanolamine plant I into an ethylene glycol monobutyl ether plant with an annual output of 20,000 tons.
- 2018 Completed the technical revamp of EOD plant at Oriental Petrochemical (Yangzhou) Corp, increasing EOD annual output to 66,000 tons.
- 2019 Far Eastern Union Petrochemical (Yangzhou) Ltd, was rewarded the second annual Jiangsu Province Zi Feng Award for “Growth Type Enterprise.
- 2020 Received the SGS CSR Awards - 2020 Sustainable Elite Award.
- 2021 OUCC Linyuan plant was awarded 2021 Excellent Manufacturer in GHG Reduction by the Industrial Development Bureau of Department of Economic Affairs.



Subsidiaries Chart





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



Products & Applications

Material

Products

Applications

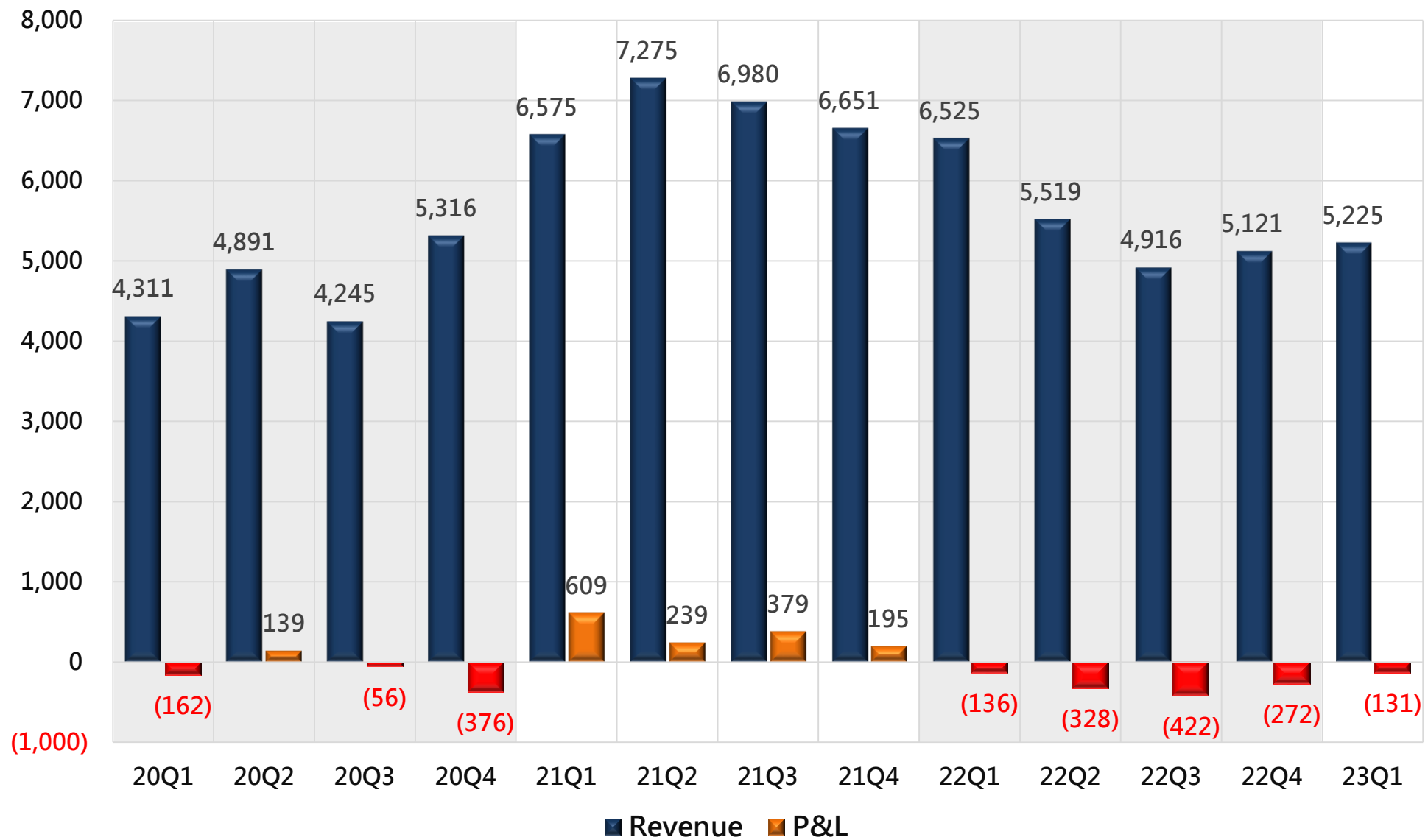
Ethylene

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.		



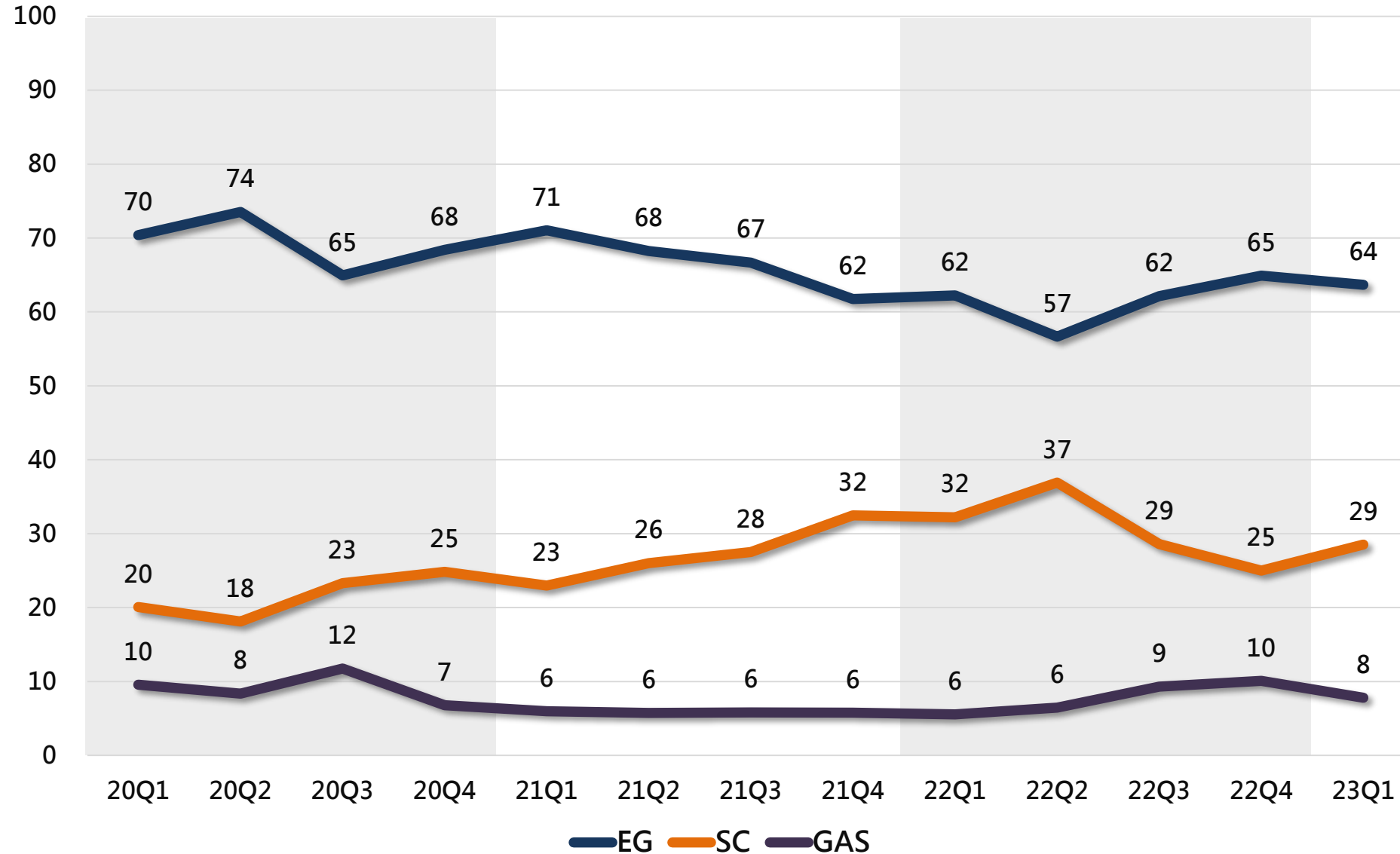
Operation Overview-Revenue · P&L



NT\$ million

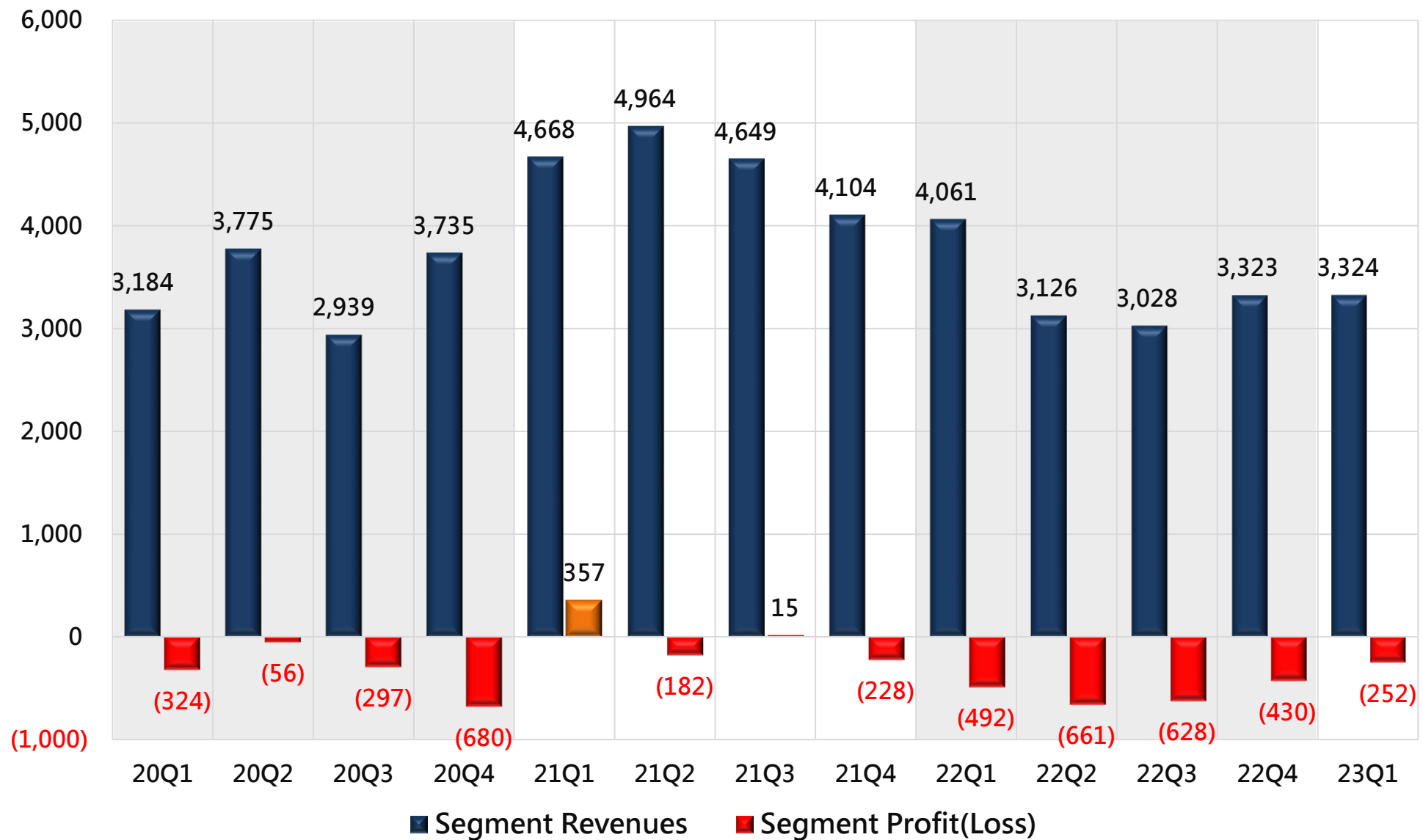


Operation Overview-Sales Ratio





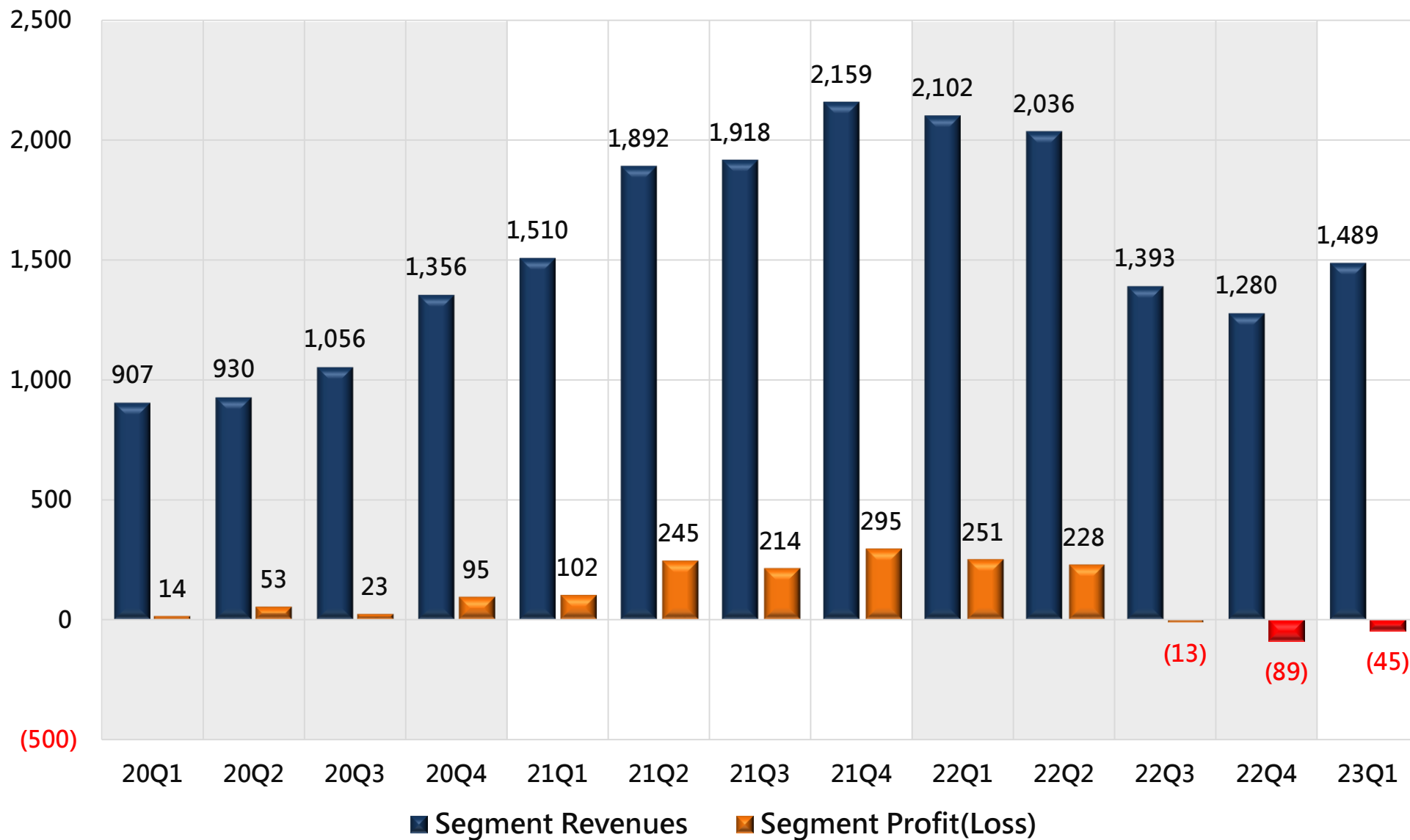
Operation Overview-EG



NT\$ million



Operation Overview-SC

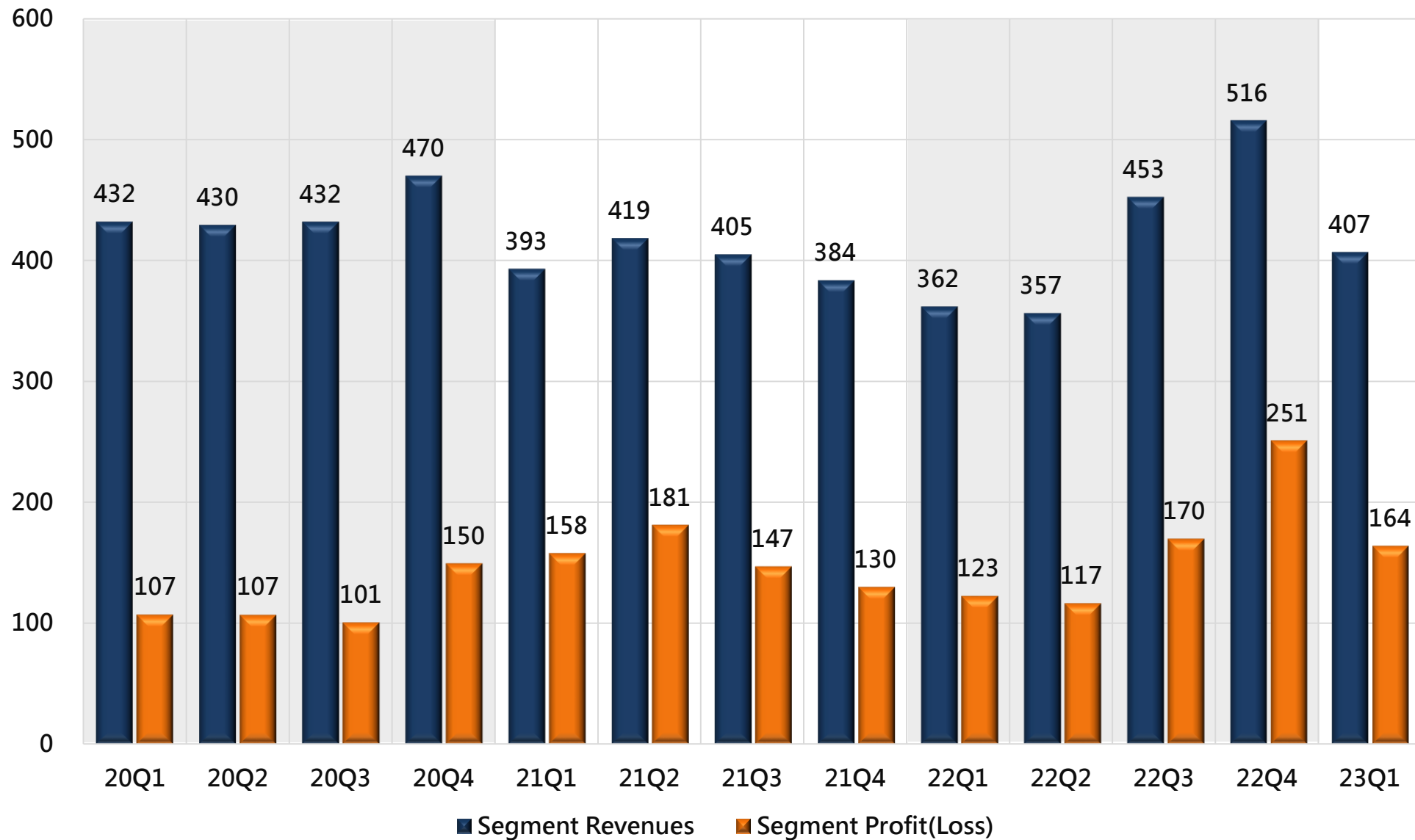


(500)

NT\$ million



Operation Overview-GAS



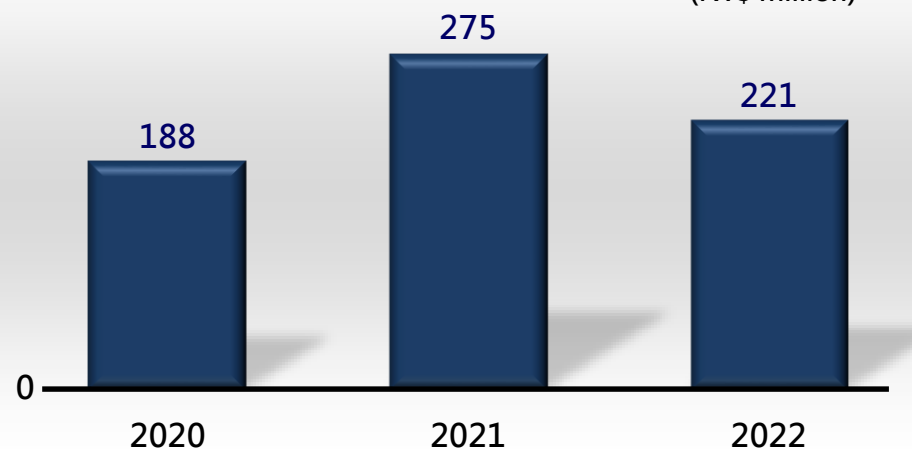
NT\$ million



Financial Overview

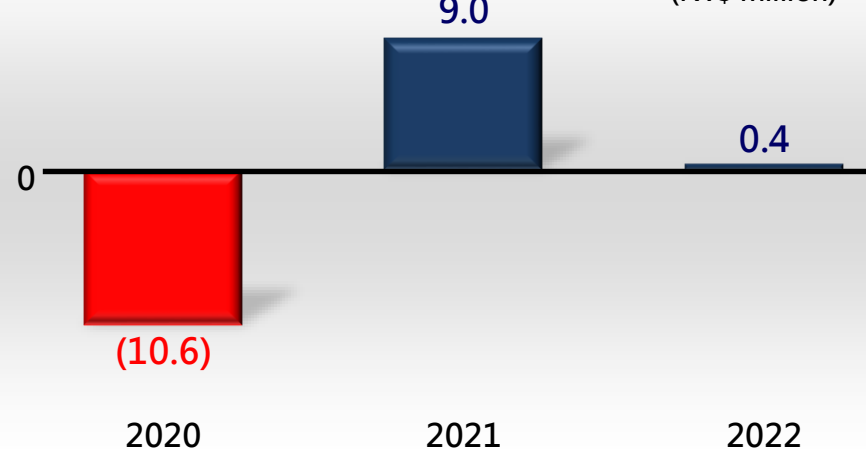
Consolidated Operating Revenue

(NT\$ million)



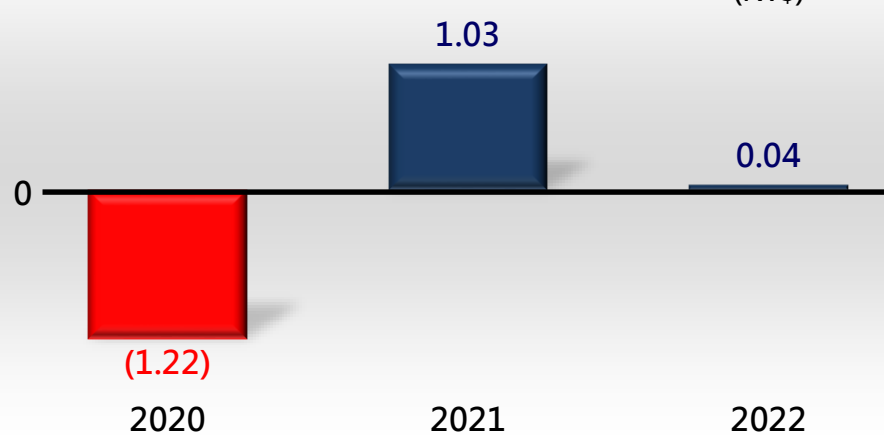
Net Profit(Loss)

(NT\$ million)



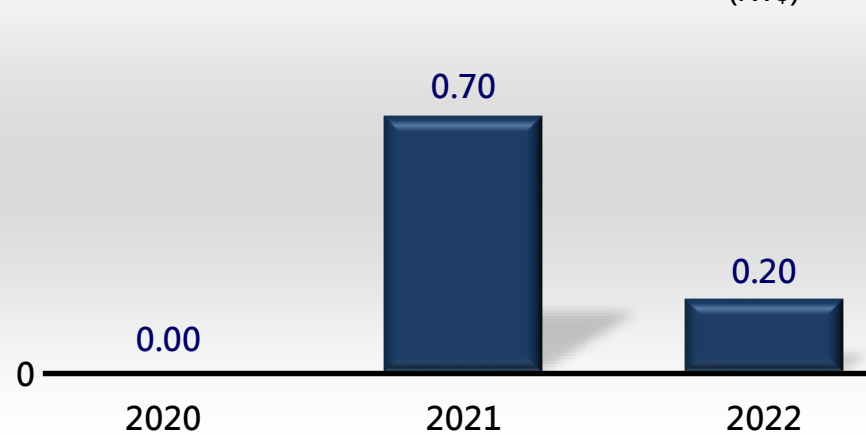
EPS

(NT\$)



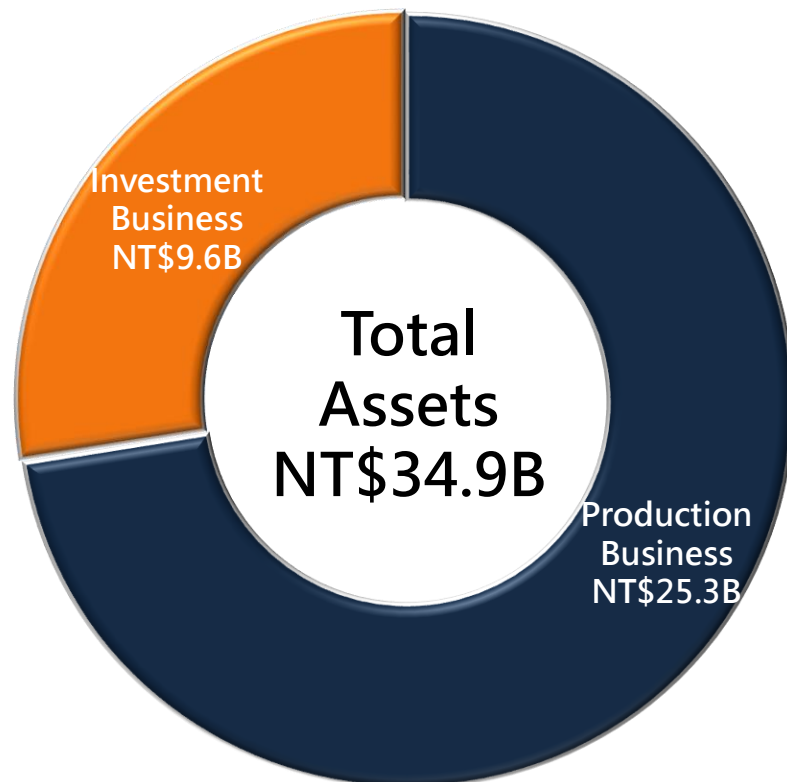
Cash Dividend

(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



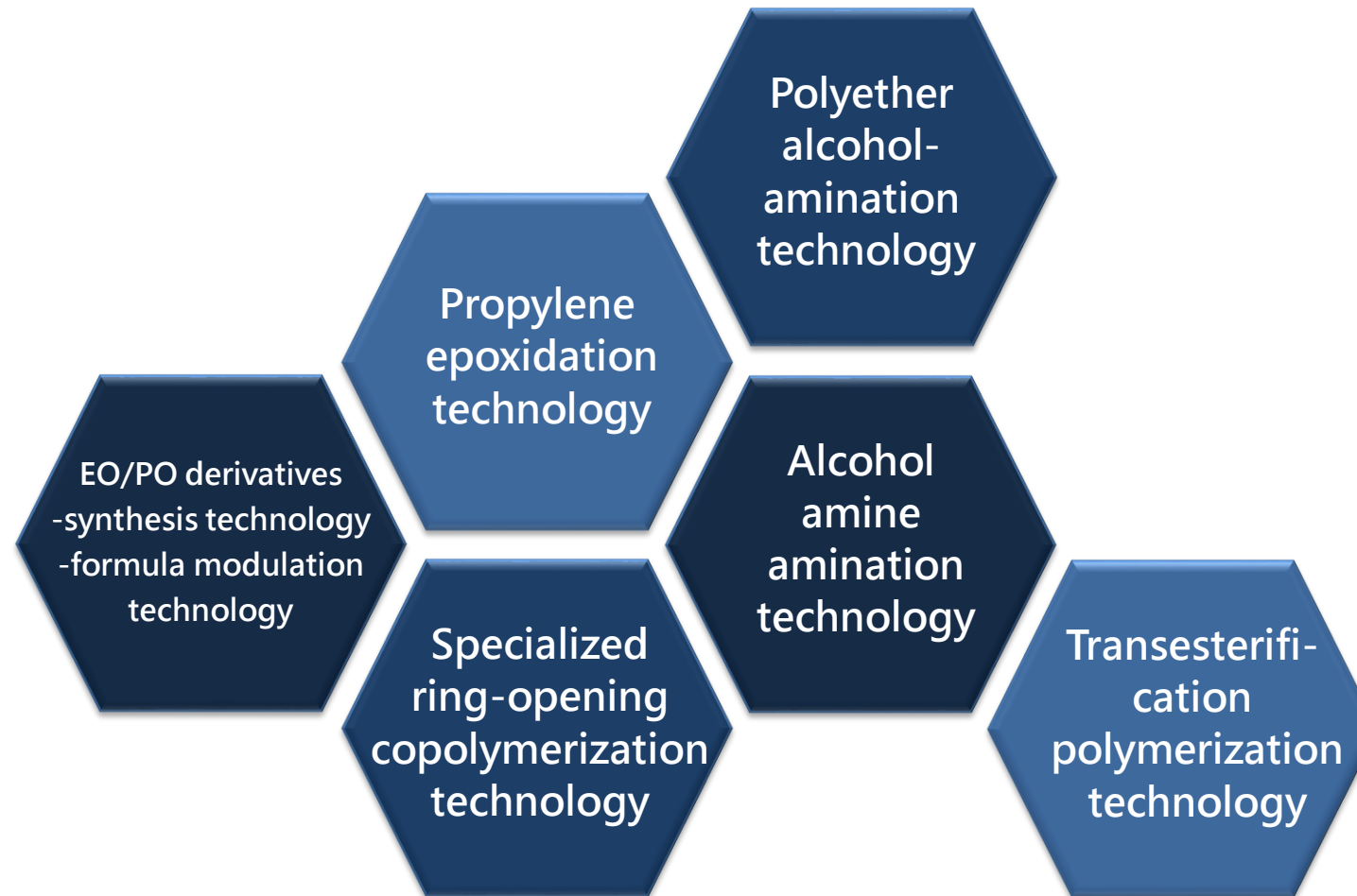
- Continue to invest in technology research and development, improve chemical properties, and achieve the purpose of carbon fixation and carbon reduction
- Carbon embedment, carbon capture technology and energy integration, development of CO₂ chemical low-carbon process



- 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

EO

EG

GAS

E-CO2

2 Surfactants & Performance Chemicals

Surfactants Functional aids Functional lotion

Surfactants

Functional aids

Functional lotion

Green product

Customized solution

3 Solvent Chemicals

EA EB EC

EA

EB

EC

4 Construction Chemicals

PCE Functional aids Grinding additives

PCE

Functional aids

Grinding additives

Mortar additives

Customized solution

5 Fine Chemicals

EODs PODs EOPO Copolymers

EODs

PODs

EOPO Copolymers

PCDL

Polyester polyol

6 Amine series

Polyether amines Ethylene amines EA

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