Investors Conference 2024.03



東聯化學(1710TW) Oriental Union Chemical Corp.



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Company Overview



• Established 1975/12

'5/12

Linyuan Yangzhou

● 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





History

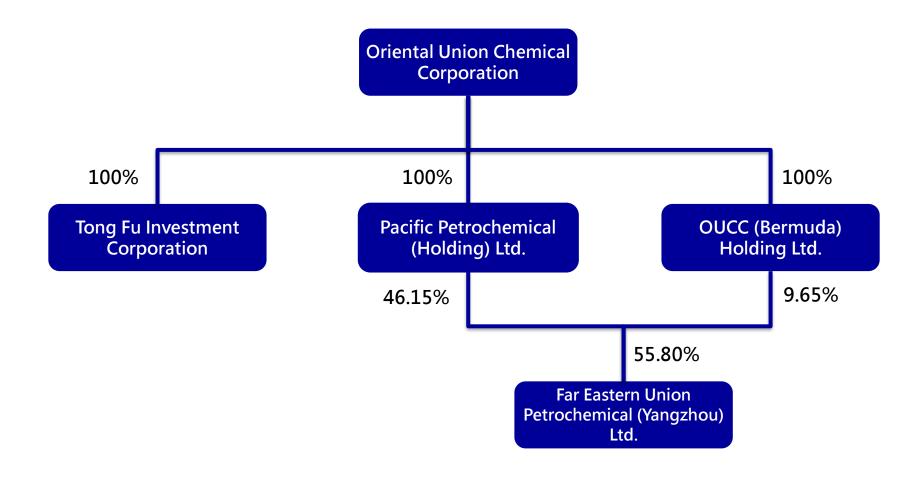


				H 動美好未来 你我攜手同行
OUCC 1975	Established.	Key Plants' Kaohsiung	Capacity Change EO/EG plant	<u>e:</u> 1978: EG 125KTA
1978	Kaohsiung - completed EO/EG plant construction.		·	2015: EO increased to 360KTA & EG increased to 300KTA 2017: EG increased to 360KTA
• 1987	IPO		EA plant	2002: EA(I) 40KTA 2008: EA(II) 40KTA 2015: EA(II) increased to 60KTA
2002	Kaohsiung - completed EA & EC plant construction.		EB plant EC plant	2017: EA(I) reconstructed to EB 20KTA 2022: increased to 40KTA 2002: 20KTA
2005	Kaohsiung - completed pilot plant construction.	Yangzhou	EO/EG plant	2008: increased to 60KTA 2016: EO 400KTA & EG 500KTA
2011	Yangzhou - completed EA plant construction. Kaohsiung - completed EOD plant construction.			
• 2012	Yangzhou - completed EOD plant construction.			
● 2015	Kaohsiung - started GHG inventory (in accordance with IS	O 14064-1)).	
• 2016	Yangzhou - completed EO/EG plant construction.			
• 2017	Kaohsiung - completed EB plant construction.			
• 2022	Kaohsiung - completed E-LCO ₂ plant construction. Kaohsiung - completed EDA, PEA & EOD-II plant const	ruction.		
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Subsidiaries Chart



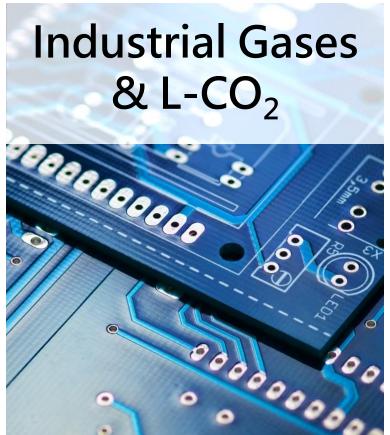


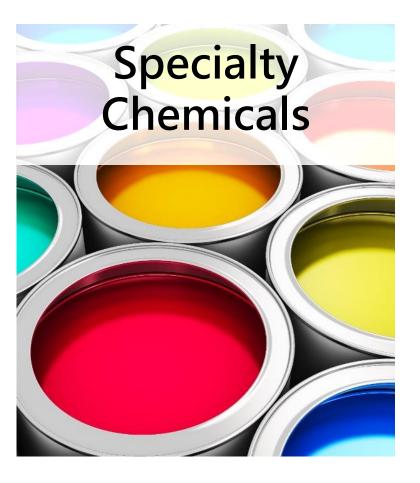


Three Business Groups











Product & Capacity



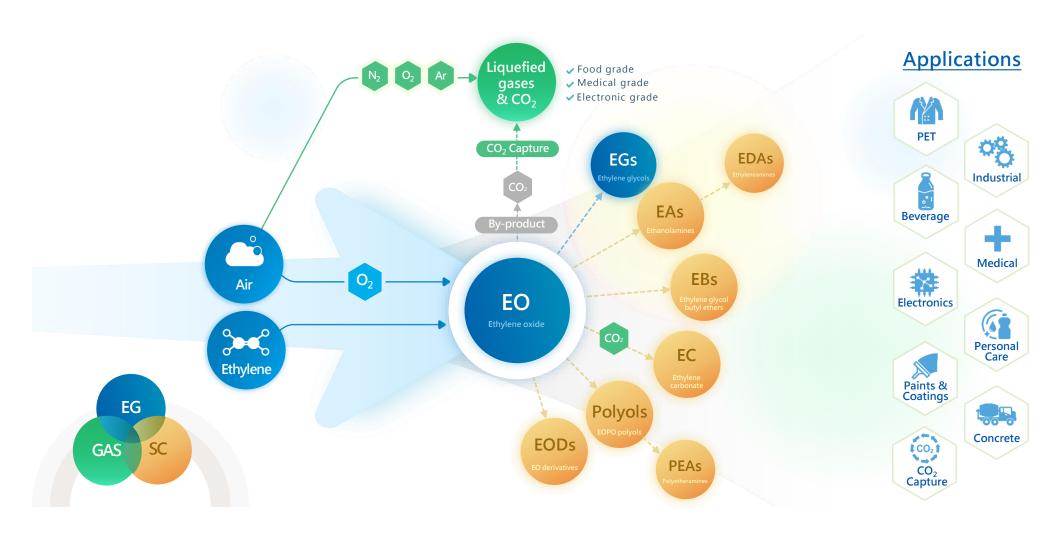
Group	Products	Linyuan	Yangzhou	Total
EG	EO	360kta	400kta	760kta
	EG	360kta	500kta	860kta
GAS	$O_2 \cdot N_2 \cdot Ar$	1,000kta	800kta	1,800kta
	E-CO ₂	17kta		17kta
SC	EA	60kta	40kta	100kta
	EB	30kta		30kta
	EC	80kta		80kta
	EODs	100kta	66kta	166kta
	PEA	8kta		8kta
	EDA	20kta		20kta

Company Overview History Subsidiaries Operation Overview Financial Overview Strategy



Product Value Chain

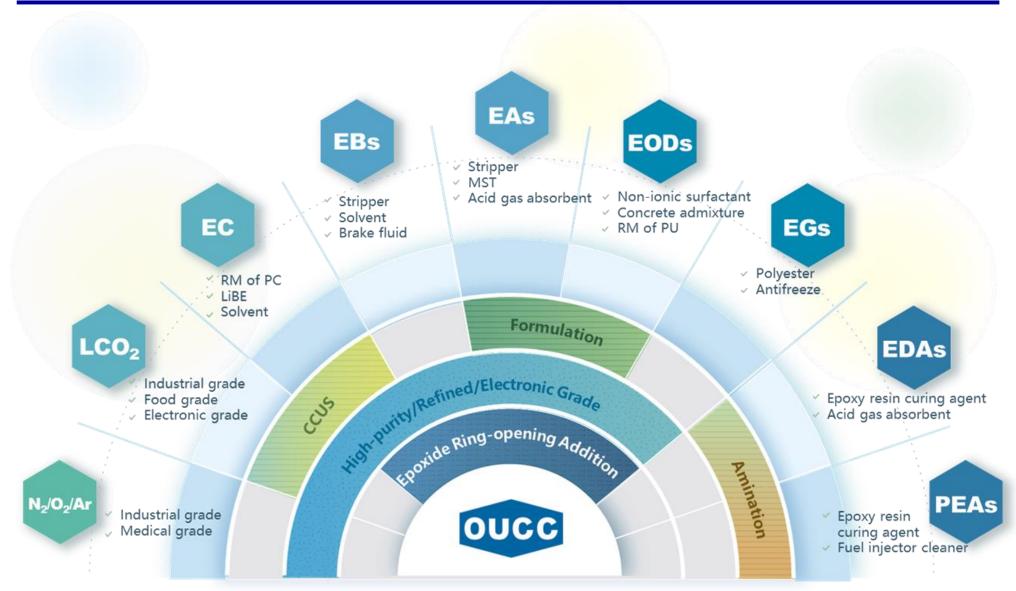






Products & Applications



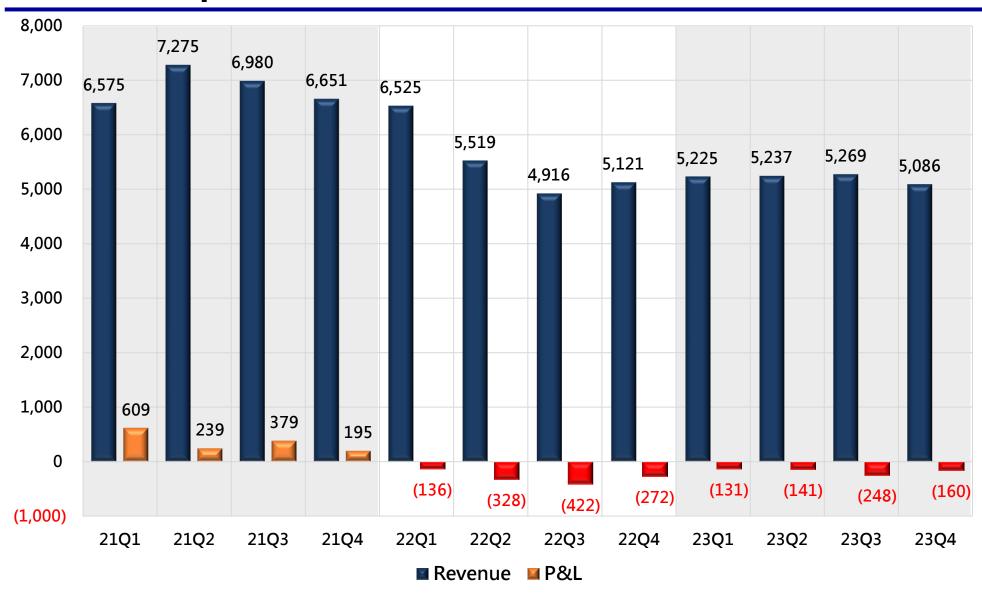


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Operation Overview-Revenue P&L

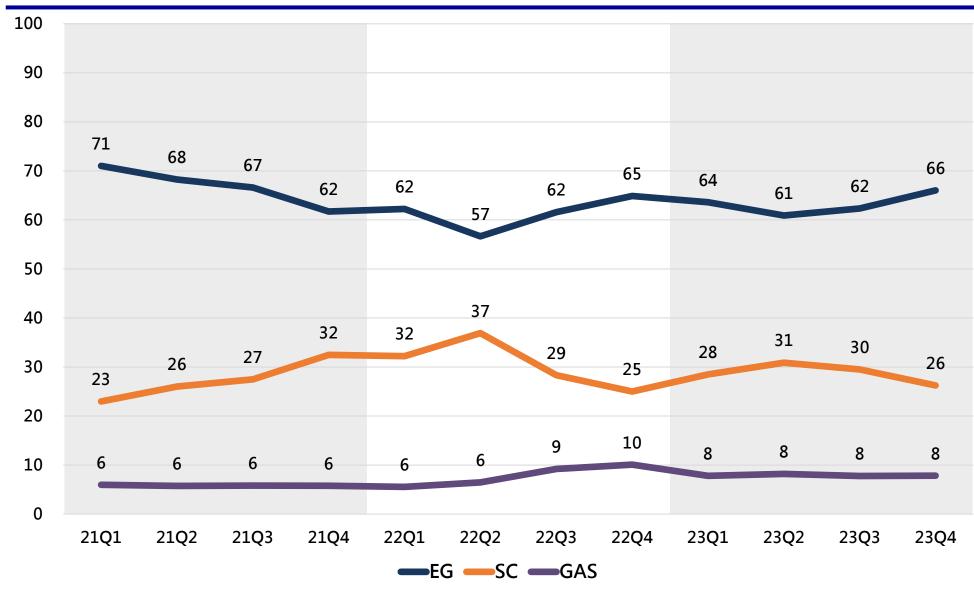






Operation Overview-Sales Ratio



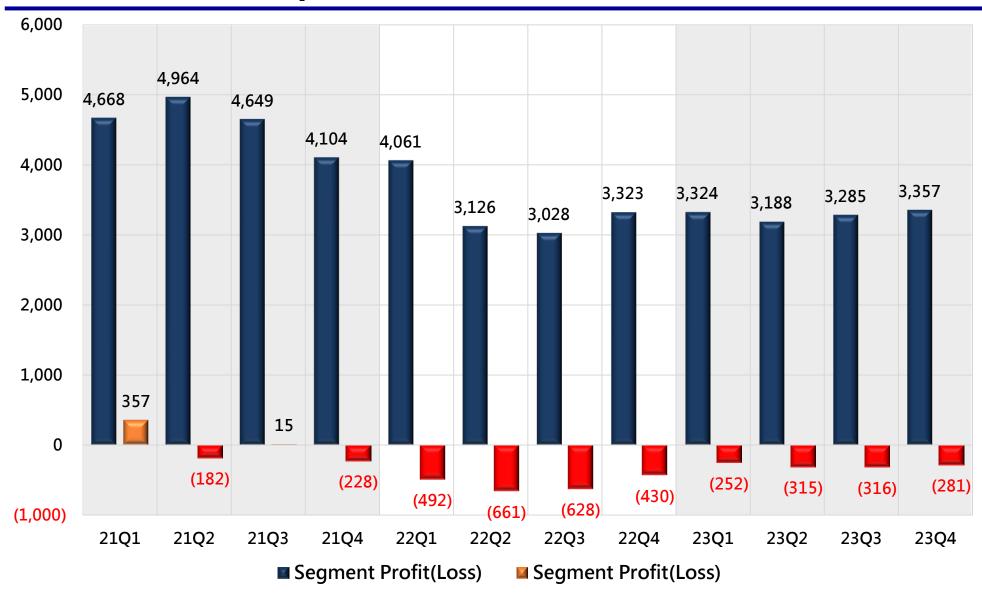


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Operation Overview-EG



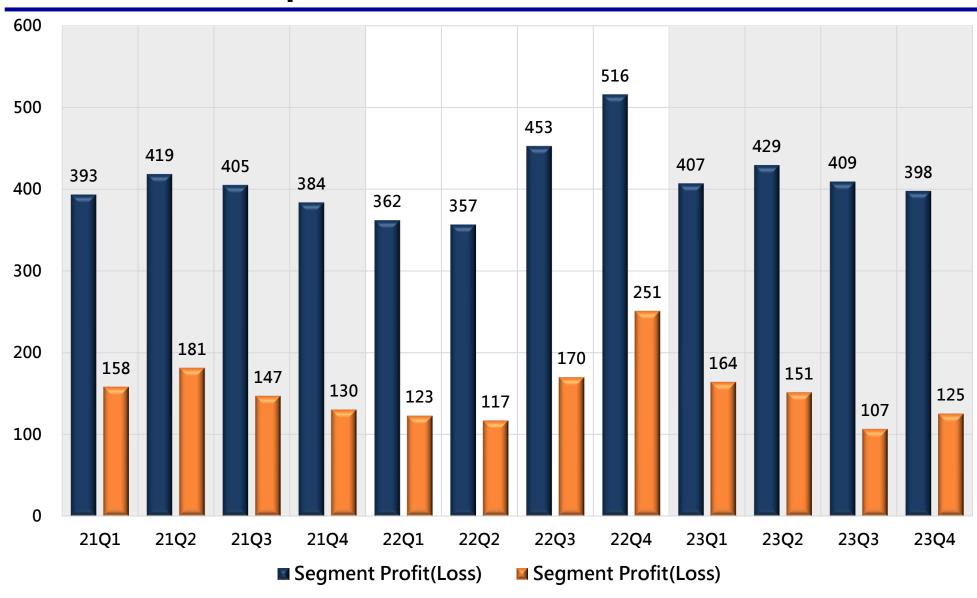


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Operation Overview-GAS



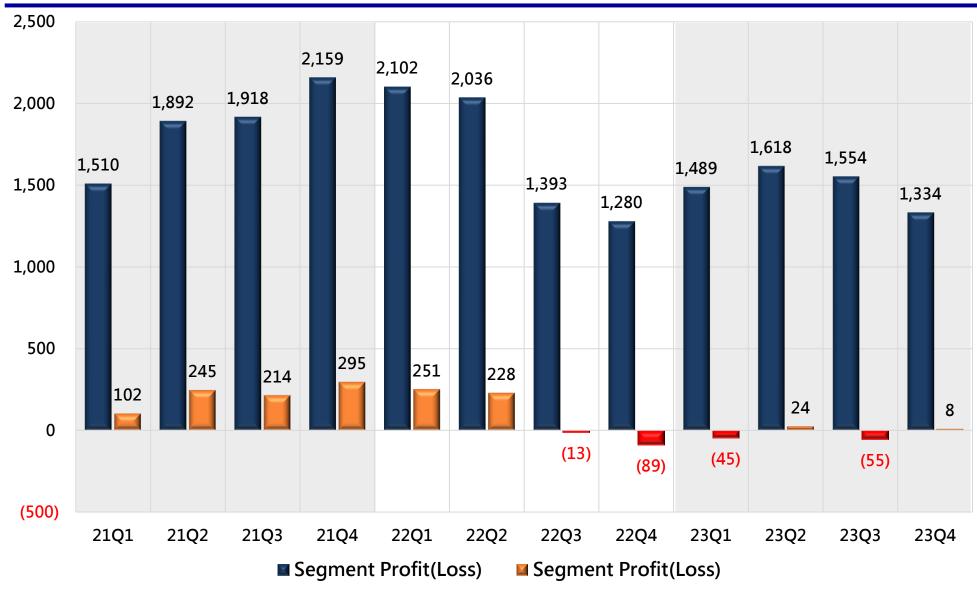


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Operation Overview-sc

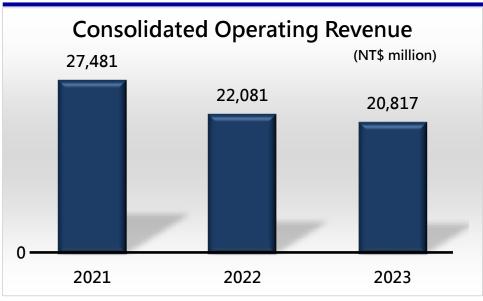


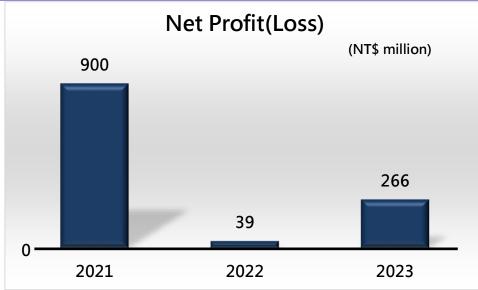


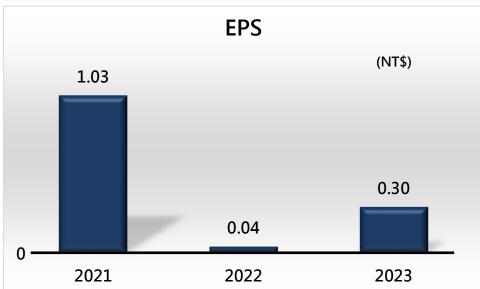


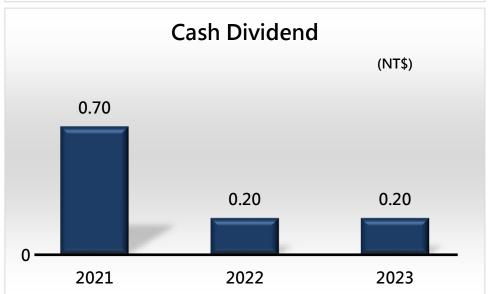
Financial Overview







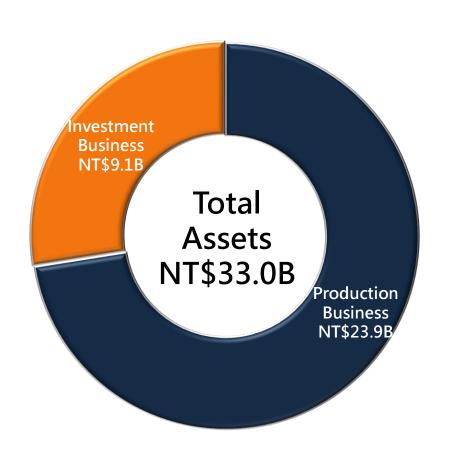




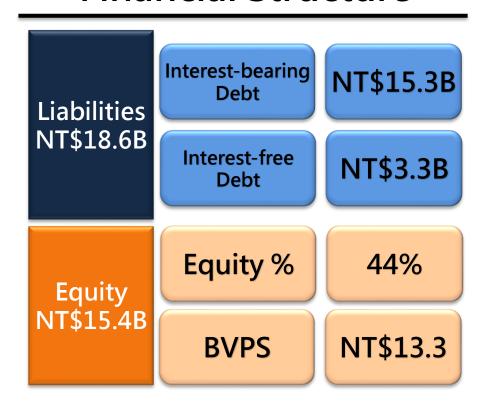


Consolidated Balance Sheets(2023/12/31)





Financial Structure





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

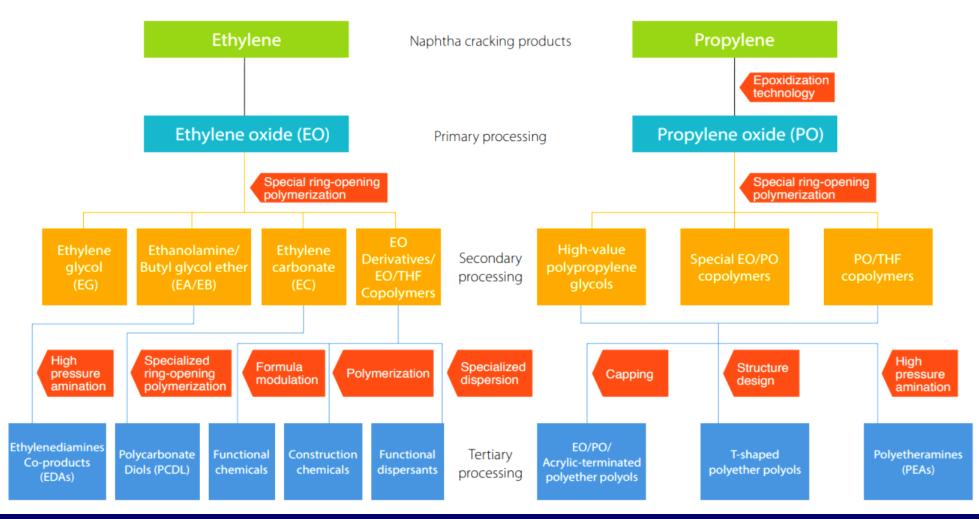


Strategy(I)-Innovative Technology



New technology items for the ethylene product chain

Technology map for the propylene product chain



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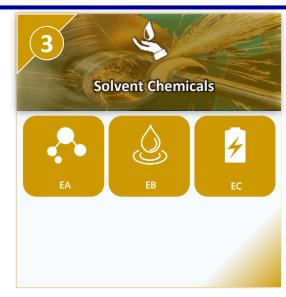


Strategy(II)-Product Transformation



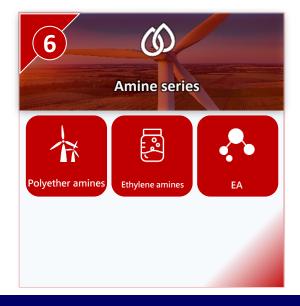














Strategy(II)-Innovative Product



Strategy

Category	Subject	Contents
Polyetheramine	Monoamines, diamines, polyamine and polyetheramine derivatives	 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, weatherresistant 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.
reductive amination	Ethylenediamine, diethylenetriamine, aminoethyl ethanolamine, trivinyltetramine, piperazine and related co-products	 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)-Carbon Management Targets



Schedule	Target	
2021 Results	 Take 2015 as the base year, 1% reduction as the average annual target Carbon reduction approx. 2,992 t-CO₂e/year in 2021, with a target achievement rate of 0.93% 2017-2021: 5 years cumulative reduction of 83,000 t-CO₂e, of actual reduction rate 26%; the target achievement rate 100% 	
Short-term (2022)	 Take 2015 as the base year, 1% reduction as the average annual target 	
Mid-term (until 2025)	 Annual reduction target: 2% per year, of reduced volume 6,420 t-CO₂e / year Evaluating and planning high-efficiency, low-carbon cogeneration system, and to purchase RECs 	
Long-term (until 2030)	 Emissions of 2030 reduced by 20% compared to 2015 Planning the achievable targets based on Climate Change Act and the schedule of carbon reduction and zero emissions proposed by the government's Industrial Response Team 	

Note: 2015 greenhouse gas emission: 320,946 t-CO₃e.



Strategy(IV)-Sustainable Management System



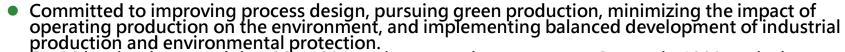


Standards

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



Environment



 OUCC has implemented the ISO 14001 Environmental Management System in 1998, actively promoting various pollution prevention improvements and striving to reduce the risk of pollutant emissions.

OUCC introduced the ISO 50001 Energy Management System for energy saving. Through innovative R&D, the circular economy model is integrated to reduce energy consumption.



Society

OUCC values the importance of industrial safety & health and human rights, and has obtained ISO 45001:2018 certificate to build a friendly and safe workplace environment. The Linyuan Plant was awarded the recognition of 5 Million Accident-Free Man-Hours Record in 2021,

and continue to progress towards the goal of a safe environment and a healthy workplace.

OUCC adheres to the core spirit of the "Universal Declaration of Human Rights," the "ILO Declaration," and "The United Nations Global Compact" and "Responsible Business Alliance Code of Conduct." We abide strictly by all labor-related laws and regulations. The company has also formulated internal labor-related rules and management mechanisms to achieve equality and create a friendly working environment.



actively seeks potential cooperation with global companies, and introduces the most advanced chemical and biochemical technologies with the aim of creating new profit potential.

In view of corporate operative responsibility, the safeguard of sharehoders' lawful rights as well as others stackholders' interests, OUCC implements the robust governance, improves business operation to maximize shareholders' interests.

For the continueous strengthening in corporate governance and management system, the corporate governance officer was installed in 2021 accountable for the work promotion.
 Adherence to the OUCC spirit of entrepreneurship – "sincerity, diligence, thrift, prudence, and innovation" to steadily cope with future challenges and achieve sustainability



Governance

Thank You Q&A



ORIENTAL UNION CHEMICAL CORPORATION