SK chemicals 2023 4Q Earnings Release









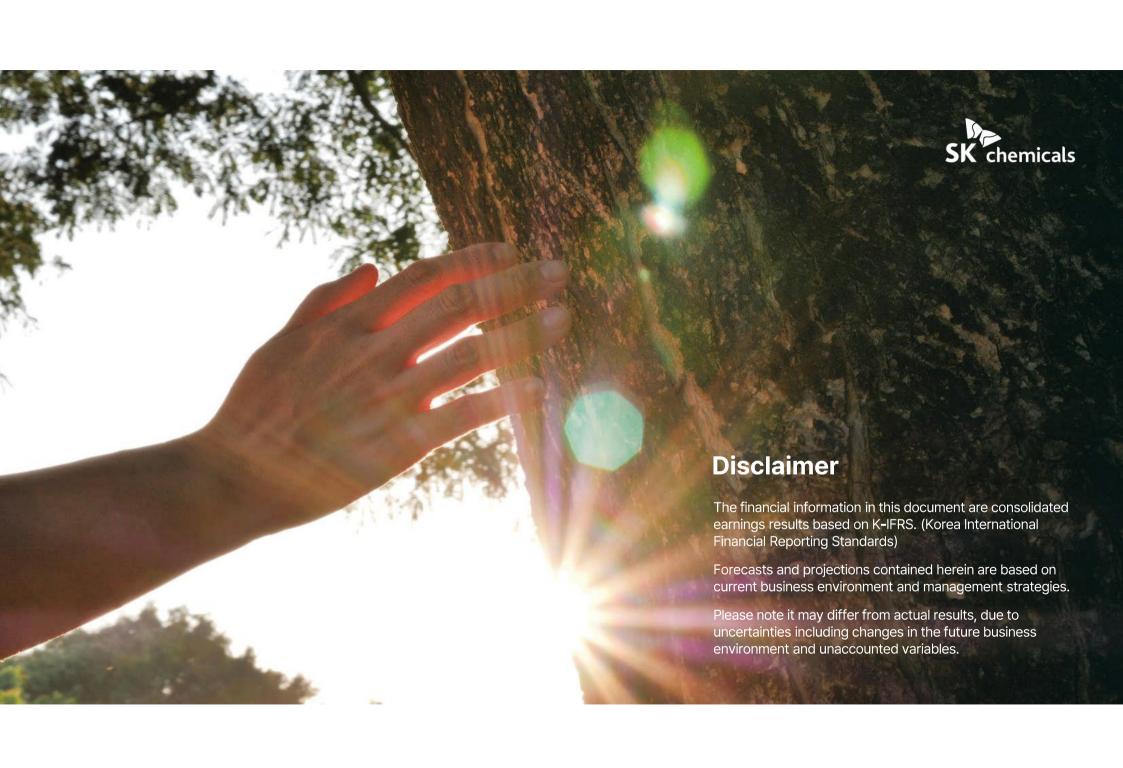


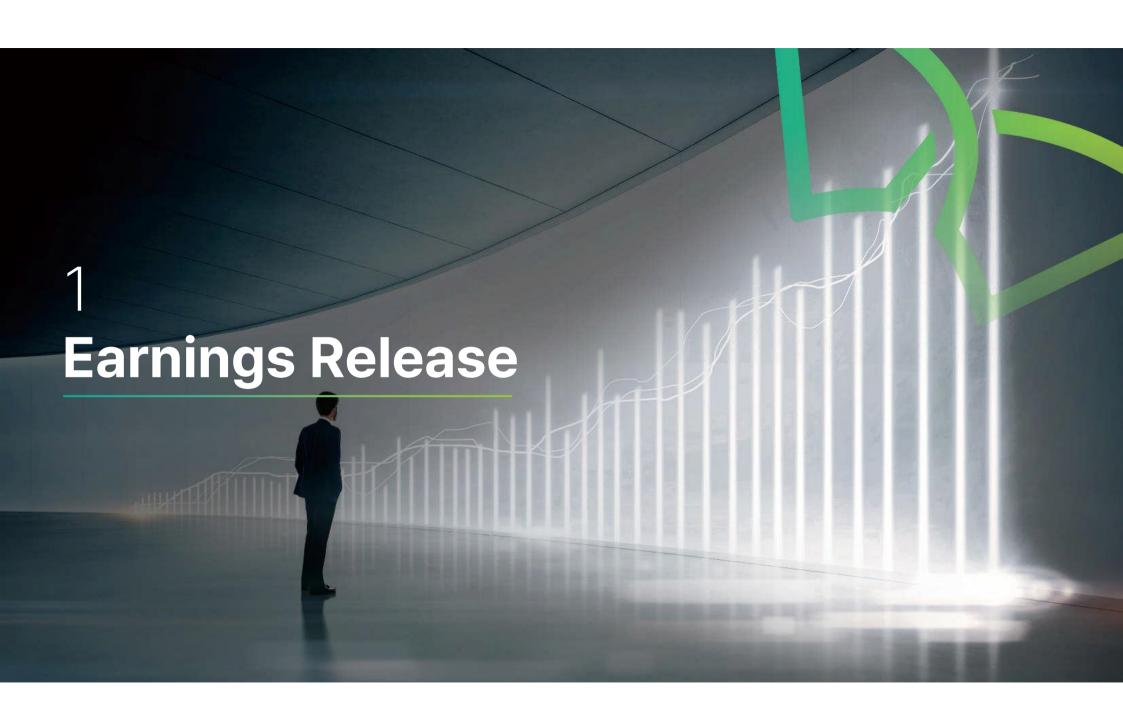




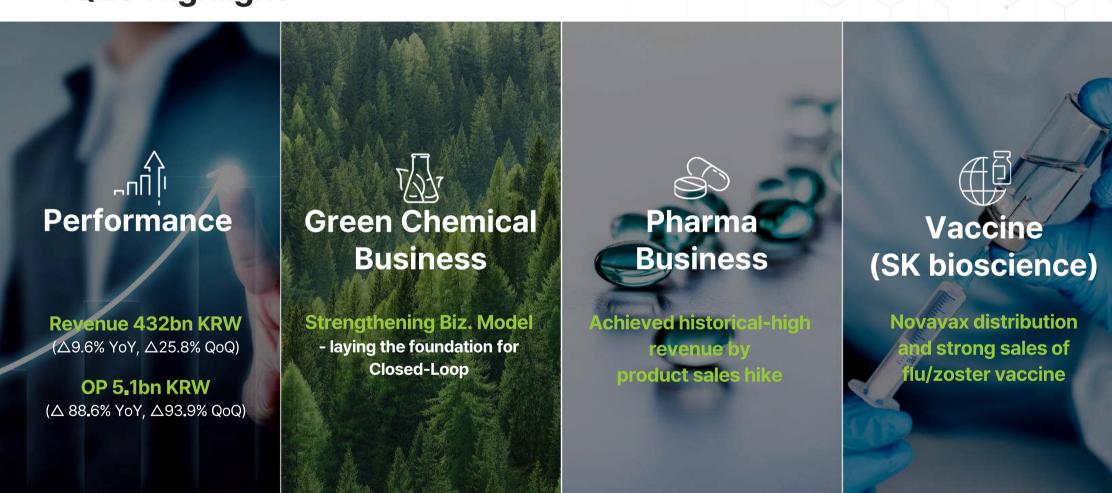
We care for the future.

Healthcare, Earthcare





4Q23 Highlight



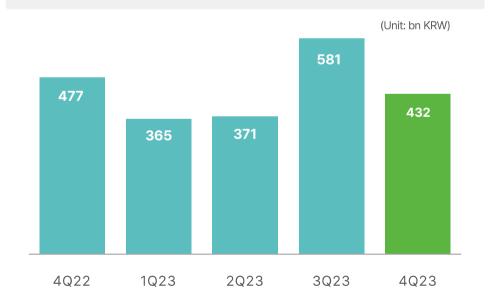
4Q23 Performance Review (Consolidated)

Revenue

432bn KRW

 $(\Delta 9.6\% \text{ YoY}, \Delta 25.8\% \text{ QoQ})$

Despite revenue increase of own business, consolidated revenue declined due to the impact of subsidiary's performance



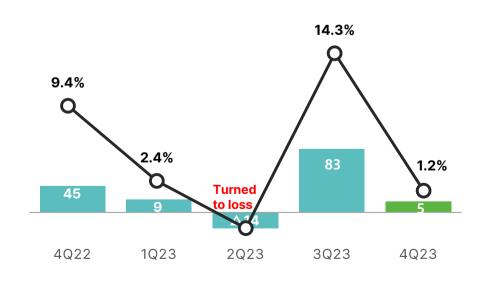
Operating profit & margin

5bn KRW

(△ 88.6% YoY, △93.9% QoQ)

Profit and profitability decreased due to revenue decline

(Unit: bn KRW)



4Q23 Performance Review (Separate)

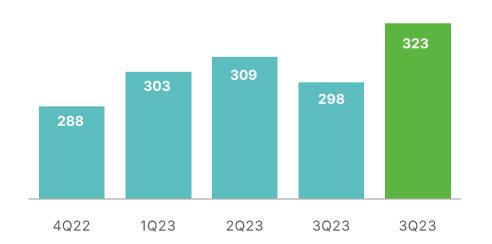
Revenue

323bn KRW

(+12.0 YoY, +8.3% QoQ)

Despite slight revenue decline in the green chemicals, revenue increased thanks to strong performance in the pharma business

(Unit: bn KRW)



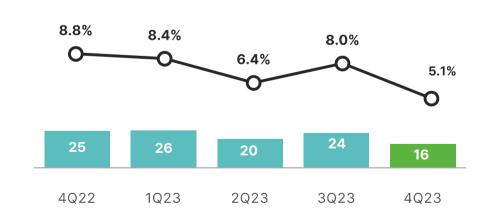
Operating profit & margin

16bn KRW

(△35.6% YoY, △31.4% QoQ)

Profit decreased due to low sales in Copolyester business, despite Pharma business' profit increased

(Unit: bn KRW)

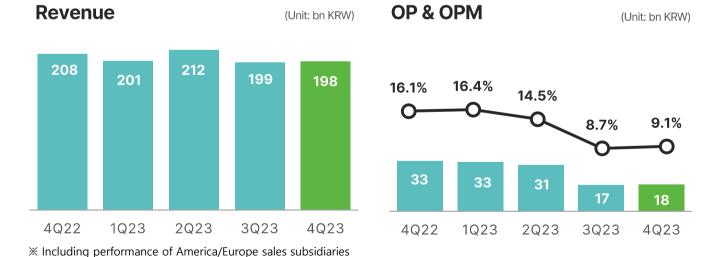


Performance Review by Division

Green Materials - Copolyester & Petrochem

Performance and Outlook

'23.4Q Performance '24.1Q Outlook 198bn KRW (△4.7% YoY, △0.6% QoQ) Revenue Revenue declined due to product mix change, whereas sales volume remains Strengthening Ocean freight steady high-profitability increase portfolio 18bn KRW (△46.3% YoY, +3.2% QoQ) **Operating** profit Profit and profitability decreased due to product mix and cost increase





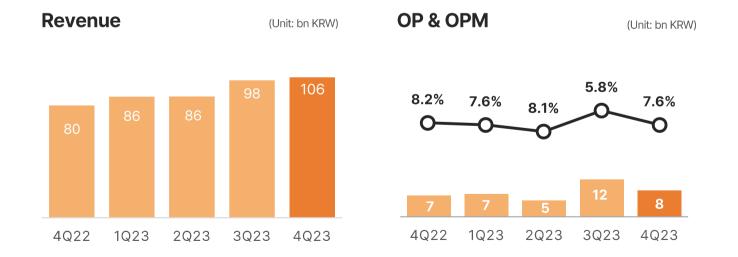
Main Product

Performance Review by Division

Life Science - Pharma

Performance and Outlook

723.4Q Performance Revenue 106bn KRW (+32.3% YoY, +8.2% QoQ) Revenue increased thanks to increased sales in main products Robust sales Continues Continues Vs. Concerns in cost increase Operating profit Profit increased followed by revenue growth

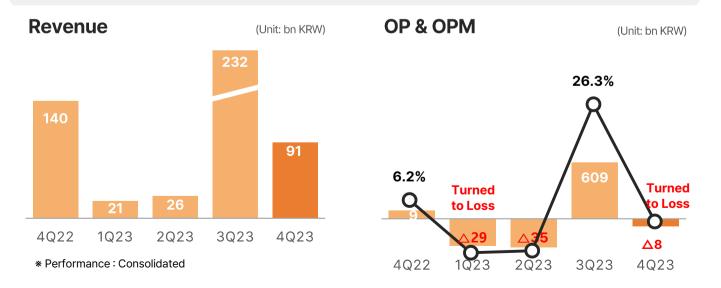


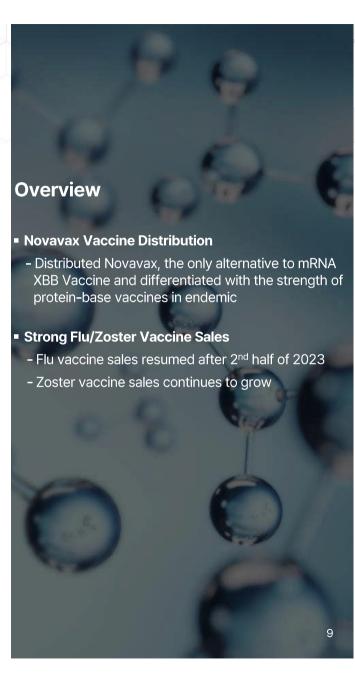


Performance Review by Division

Life Science - SK bioscience

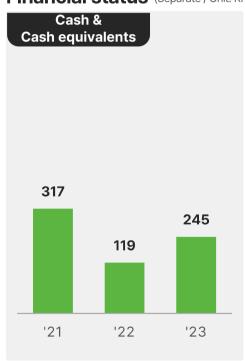
Performance and Outlook

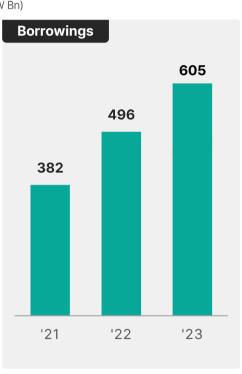




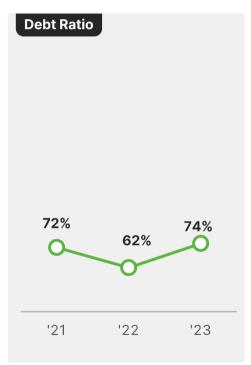
Financial Highlights

Financial status (Separate / Unit: KRW Bn)





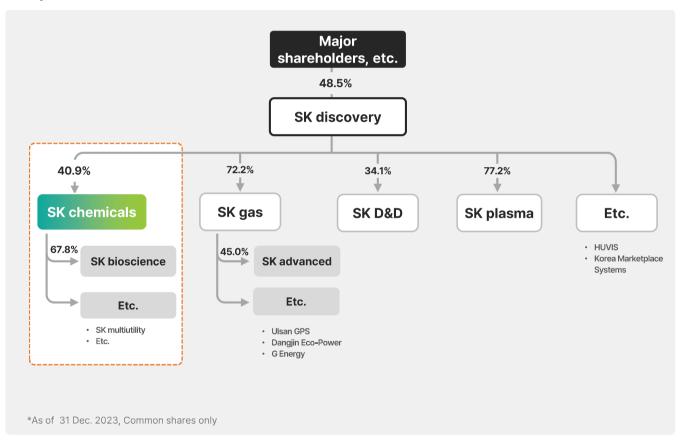
Financial Ratio (Separate)



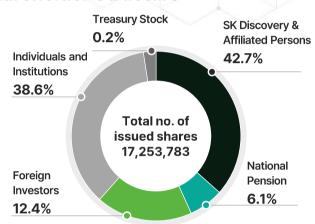


Governance and Shareholders

Corporate Governance



Shareholder Structure

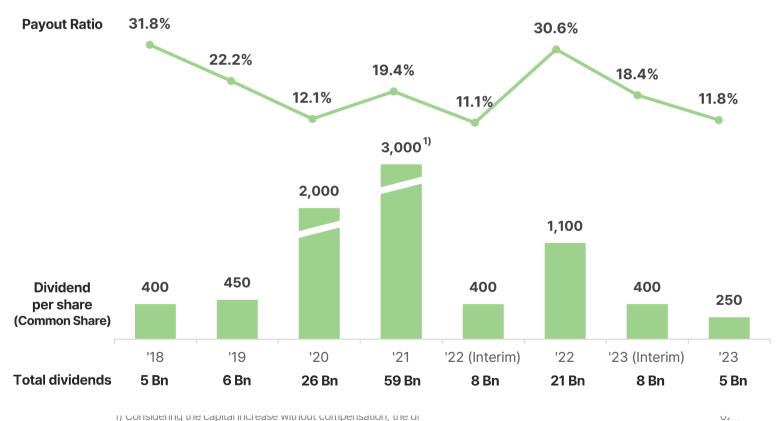


Shareholders Category	No. Shares
SK Discovery & Affiliated Persons	7,361,072
National Pension	1,052,651
Foreign Investors	2,140,442
Individuals and Institutions	6,668,761
Treasury Stock	30,857
Total no. of issued shares	17,253,783

*As of 31 Dec. 2023, Common shares only

Shareholder returns

Dividend



Others

Retirement of Stock¹⁾

'21. 10 Announced dividend policy²⁾

50% capital increase without **'21. 11** consideration

Announced Buy-back of **'22.3** Stock (50 Bn KRW)

Retirement of Stock **'22. 10** (50 Bn KRW)³⁾

I) 1,939, IZU SHares

Z) Determining the total arm

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(Separate Het IIICO

recurring

J) RELITED 303,40

Global Network



SK Shantou



Construction Status	'19 r-BHET, CR-PET Plant takeover (Shuye)			
	'23 Mar. Acquisition of Tangible Assets (Shuye)			

Production r-BHET, CR-PET etc. Items

Production r-BHET: 70,000 tons / CR-PET 50,000 tons annually Capacity

Ulsan Plant



Certifications ISO 14001(Environment) / ISO 45001 (Safety and

Health) / ISO 9001(Quality)

Construction '89 SEP. PTA / DMT Plant completion **Status**

'01 JAN. CHDM / PETG Plant completion

'22 Feb. PO3G Plant completion

Production Copolyester resin, DMT etc.

<u>Items</u>

Production 450,000 tons annually 1) Capacity

Cheongju Plant (S HOUSE)

Capacity



K GMP/ EU GMP(solid tablets, patches)

Construction `09 JUL Cheongju plant takeover Status

`12 JUL Production building completion

`14 MAR Patch building reconstruction

Production Solid tablets and patches

<u>Items</u> **Production**

760m solid tablets, 66m patch pouches annually

Andong Plant (L HOUSE)



Certifications MFDS & EU GMP Certifications

Construction '12 DEC Completion

Status

Production Flu vaccine, varicella/herpes zoster vaccine, Items

COVID vaccine (CMO/CDMO)

Production Approximately 500m dozes annually based on Capacity

finished products

¹⁾ Reflecting operation of new production facility*(#4) from 15th Jun 2021

Financial Statements (Consolidated)

Balance Sheet

(Unit : KRW Bn)

Items	′22	′23
Current assets	2,519	2,204
- Current account	2,036	1,828
- Inventory	483	377
Non-current assets	1,427	1,954
- Investment in affiliated companies and joint ventures	13	10
- Tangible property	1,193	1,602
- Intangible property	52	54
- Other Non-current assets	169	288
Total assets	3,946	4,159
Current liabilities	1,059	830
Non-current liabilities	178	653
Total liabilities	1,237	1,483
Equity attributable to the parent company	2,147	2,119
- Capital stock	99	99
- Consolidated capital surplus	1,199	1,212
- Consolidated other components of equity	△22	△22
- Accumulated other comprehensive income	2	△37
- Consolidated earned surplus	869	867
Non-controlling interest	562	557
Total equity	2,709	2,676
Total liabilities and equity	3,946	4,159

Income Statement

(Unit: KRW Bn)

- Cost of Revenue 331 267 282 396 33 - Gross profit from Revenue 146 98 90 185 10 - Revenue and administrative expenses 101 89 104 102 9 Operating profits 45 9 Δ14 83 - Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 11 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0					(01)	ic i i di ci i di ci i
- Cost of Revenue 331 267 282 396 33 - Gross profit from Revenue 146 98 90 185 10 - Revenue and administrative expenses 101 89 104 102 9 Operating profits 45 9 Δ14 83 - Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 11 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	Items	'22.4Q	'23.1Q	'23.2Q	'23.3Q	'23.4Q
- Gross profit from Revenue 146 98 90 185 100 - Revenue and administrative expenses 101 89 104 102 90 Operating profits 45 9 Δ14 83 - Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 11 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ - Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	Revenue	477	365	371	581	432
- Revenue and administrative expenses 101 89 104 102 9 Operating profits 45 9 Δ14 83 - Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 11 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	- Cost of Revenue	331	267	282	396	332
Operating profits 45 9 Δ14 83 - Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 1 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	- Gross profit from Revenue	146	98	90	185	100
- Other non-operating income 0.8 5 2 3 - Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 1 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	- Revenue and administrative expenses	101	89	104	102	95
- Other non-operating expense 14 8 13 0.8 2 - Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 1 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	Operating profits	45	9	△14	83	5
- Financial income 21 59 28 22 2 - Financial expense 7 54 28 30 1 - Share of profits Δ0.8 Δ0.5 Δ0.4 Δ0.4 Δ Earnings before interest and taxes 48 10 Δ25 77 Δ - Income tax expense Δ36 Δ1 Δ9 15 0	- Other non-operating income	0.8	5	2	3	2
- Financial expense75428301- Share of profits $\triangle 0.8$ $\triangle 0.5$ $\triangle 0.4$ $\triangle 0.4$ \triangle Earnings before interest and taxes4810 $\triangle 25$ 77 \triangle - Income tax expense $\triangle 36$ $\triangle 1$ $\triangle 9$ 150	- Other non-operating expense	14	8	13	8.0	23
- Share of profits $\triangle 0.8$ $\triangle 0.5$ $\triangle 0.4$ $\triangle 0.4$ \triangle Earnings before interest and taxes $\triangle 0.5$ $\triangle 0.4$ $\triangle 0.5$ $\triangle 0.4$ $\triangle 0.5$ $\triangle 0.4$ $\triangle 0.5$ - Income tax expense $\triangle 0.5$ $\triangle 0.$	- Financial income	21	59	28	22	21
Earnings before interest and taxes 48 10 $\triangle 25$ 77 $\triangle 7$ - Income tax expense $\triangle 36$ $\triangle 1$ $\triangle 9$ 15 0	- Financial expense	7	54	28	30	14
- Income tax expense Δ36 Δ1 Δ9 15 0	- Share of profits	△0.8	△0.5	△0.4	△0.4	Δ2
The state of the s	Earnings before interest and taxes	48	10	△25	77	△11
Consolidated net income 84 11 Δ16 63 Δ2	- Income tax expense	△36	△1	∆9	15	0.1
	Consolidated net income	84	11	△16	63	△11
- Equity attributable to the parent company 74 16 \triangle 11 47 \triangle 1	- Equity attributable to the parent company	74	16	△11	47	△12
- Non-controlling interest 9 $\triangle 4$ $\triangle 5$ 16	- Non-controlling interest	9	△4	△5	16	1

Financial Statements (Seperate)

Balance sheet

(Unit: KRW Bn)

Items	'22	′23
Current assets	645	673
- Current account	401	441
- Inventory	244	232
Non-current assets	1,165	1,283
- Investment in affiliated companies and joint ventures	384	444
- Tangible property	662	693
- Intangible property	32	30
- Other Non-current assets	87	115
Total assets	1,811	1,956
Current liabilities	535	653
Non-current liabilities	156	179
Total liabilities	691	832
Capital	99	99
Capital surplus	158	158
Other components of equity	△13	△13
Earned surplus	876	880
Total equity	1,120	1,124
Total liabilities and equity	1,811	1,956

Income Statement

(Unit: KRW Bn)

Items	'22.4Q	'23.1Q	'23.2Q	'23.3Q	'23.4Q
Revenue*	288	303	309	298	323
- Cost of Revenue	212	228	239	226	254
- Gross profit from Revenue	76	75	71	72	69
 Revenue and administrative expenses 	51	49	51	48	52
Operating profits*	25	26	20	24	16
- Other non-operating income	4	3	2	2	17
- Other non-operating expense	12	3	10	4	25
- Financial income	5	16	7	7	10
- Financial expense	15	15	13	11	12
Earnings before interest and taxes*	7	26	5	18	7
- Income tax expense	1	10	0.7	4	△0.1
Net income	6	17	5	14	7



Recycle Biz. History



2019 Started R&D for Recycle Biz.



2021
Launched the
circular recycled product
for the first in the world
(ECOTRIA CR®)



2022
Established mass production system of circular recycled product(SKYPET CR®) for the first time in Korea



2023 (3Q) Secured foundation for SK Chemicals' own Closed Loop system



2023 (1Q)
Secured core raw material
for circular recycling
and manufacturing capacity



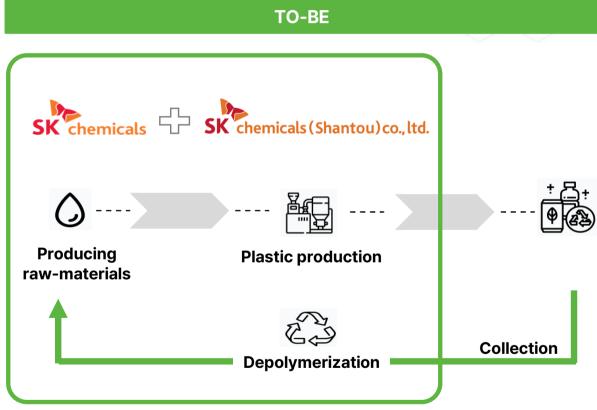
2022
Acquisition of 'Low Carbon' certification for chemical recycled Copolyester for the first in the world

^{* &#}x27;Circular Recycle' refers to 'Chemical Recycle' in this report

Competency (1): Internalization of core raw materials

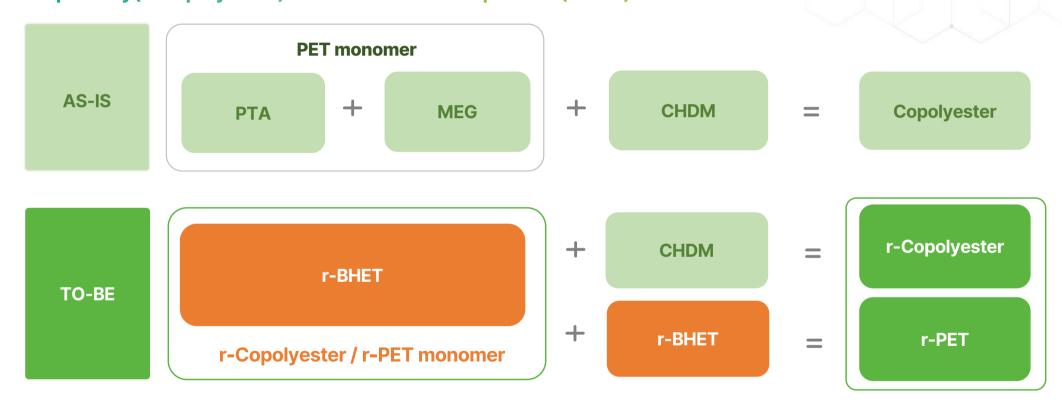
Internalized core raw materials(r-BHET) by acquisition of Shuye's technology and facilities





Competency (2): Expansion of biz. criteria

Secured potentially high-growth recycling value chain in which consisted of ①Specialty(r-Copolyester) and ②Mass market product(r-PET)



Competency (3): Securing Feedstock in advance

Securing sustainability of recycle business by stable w-PET supply



Strengthening recycle biz. competency (1)

Working on the 'Basic but Important Tasks' to strengthen biz. sustainability

Key Activities

Expectations

Certification / Regulation

- · Acquisition of GRS and ISCC Plus certification
- Conducting tasks to respond regulations by major regions

- Securing a core-marketing competitiveness
- Constructing entry barriers against competitors

SK Shantou

- Processing PMI by adapting SK process after acquisition of Shuye's facilities & technology ('23.3)
- On-going Business development process with LOVERE, waste collecting/sorting company based in China
- Enhancing cost competitiveness and optimizing processes through continuous PMI process
- Stabilization of SK Shantou Feedstock supply and achieving Economic Value through Recycle business

Customers

- Securing domestic/overseas clients
- Validation with major brand-owners on the progress
- Strengthening Global networks by securing new customers in various markets

Strengthening key factors through analysis & advancement

Raw-materials

Costleadership Advanced strategy

Financial outcome



"Sustainability & Competitiveness"

Strengthening recycle biz. competency (2)

Established the foundation of Closed Loop system by signing MOU with waste collection company

LOVERE Overview

- ✓ A Subsidiary of ATRenew,* an electronic device collection
 and recycling company listed on New York Stock Exchange
- ✓ Currently collecting approximately 420K tons of household waste in 37 cities in China
- ✓ Implementing self-developing Al-based sorting automation device and digital service-based reward program

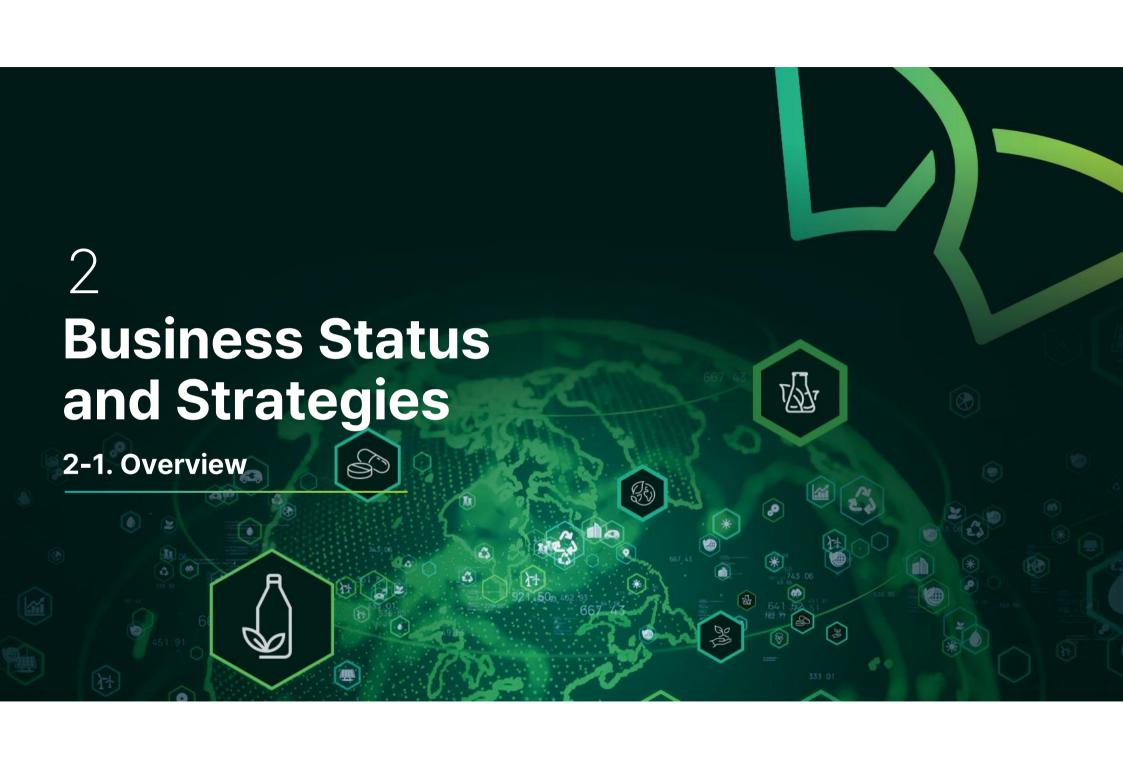
MOU Overview

- ✓ When : Sep. 18, 2023
- ✓ Why : Securing waste plastic collection / sorting system for establishing Recycle Plastic Closed Loop
- ✓ Expectations : Accelerating the establishment of Closed Loop by expanding the value chain to plastic collection and sorting

Expectations



"Establishment of SK Chemicals' own closed-loop recycling system, laying the foundation for future customized circular model business for various brand-owners"



Vision



Providing eco-friendly materials and total healthcare solution

Global Leading Company



The Green Chemical Company

Leading resource recycling ecosystem



Total Life Science Company

Innovating human lives with technologies

History

Secured business identity through restructuring chemical business and SK bioscience IPO

2020 —

2021

2022~

Commence business portfolio reorganization

Arrange core business focus foundation

Procure new growth momentum and enter growth phase

Green Materials

- · Bio energy business sold
- Drive green portfolio centered growth
- Initiate commercialization of world's 1st chemical recycling technologybased r-Copolyester (Jul 2021)
- : securing stable raw material, and inhouse production infrastructure and technical skill
- New copolyester plant (#4) commercial production started
- · Limited business (PPS business) sold
- Spin-off Multi Utility business

- Regularize chemical recycle business
- Complete bio-materials technology development and start operating commercialized plant (Mar 2022)
- SK-Shantou establishment Mar.'23

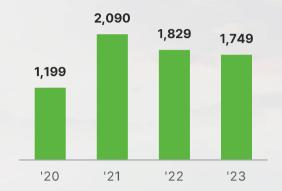
Life Science

 Covid-19 vaccine CMO/CDMO contracts

- SK bioscience listing on KOSPI
- Covid-19 vaccine phase 3 trial commenced
- Expanding new pipelines utilizing AI/DI technologies
- Fortifying existing portfolio and procuring new technologies
- Acquired SKY Covione approval (domestic/global)
- Supplying updated Novavax COVID vaccine

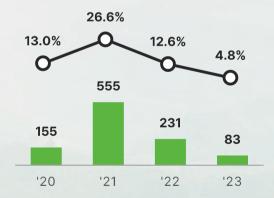


(Unit: KRW Bn)



OP & OPM

(Unit : KRW Bn)



- * Consolidated, excluding discontinued businesses
- * Reflecting re-written financial statements for the past 2 years from the completion of the sale of business
- PPS business sale completion: 31st Dec 2021
- Bioenergy business sale completion: 29th May 2020

25

Strategies

Jump-up through each unit's organic/inorganic growth strategies

Green Materials (Eco-transition)

- 1 Transition to Recycled Copolyester
 - Focusing on globalization through securing production bases, strengthening network etc.
 - · Strengthening Recycle portfolio
- 2 Expand into new Bio-material business
 - Development and commercialization of corn based PO3G technology
- 3 Drive 'Net Zero' with green energy usages
 - · Value creation with LNG fuel transition
 - Drive carbon reduction in future by establishing hydrogen economy
 - **Expansion of promising future green material business**
 - Expand into promising future green material business

Organic Growth

Life Science

- 1 Formation of R&D platform utilizing open innovation and Al
 - · Development of new drug through open innovation
 - Formation of new drug search platform utilizing AI/DI
 - Introduction of external projects and venture investments
- 2 Partnership
 - Collaborating with major pharmaceutical companies to develop new products
- 3 Expansion into the vaccine business and related fields
 - Global Top-tier level vaccine platform
 - · Possession of world-class vaccine production facilities
 - Fortification of international cooperation for global vaccine distribution expansion

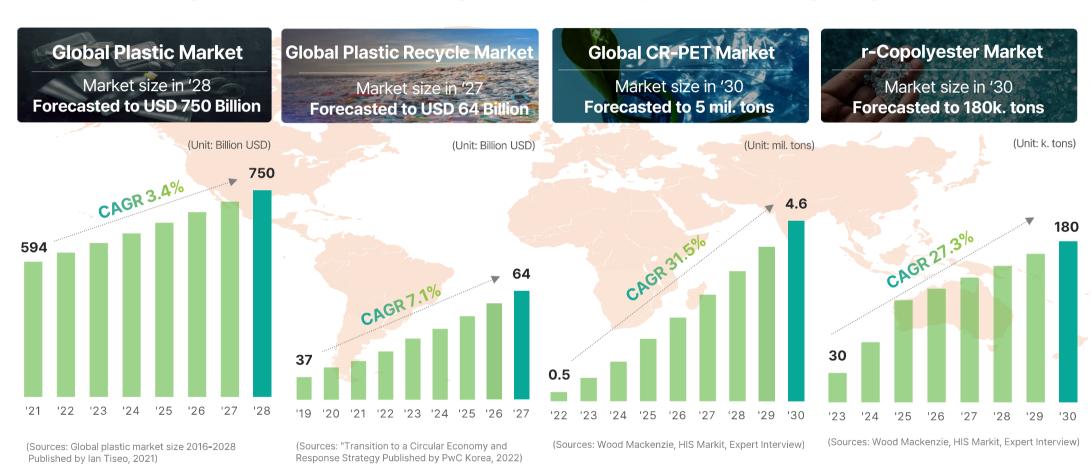
Inorganic Growth

- Search for business opportunities in new bio fields
 - Search for new business opportunities such as genetic editing/ genetic therapy, Proteolysis targeting chimera, cell therapeutics, etc.



Global Market Outlook

The circular recycling market is expected to show rapid growth, while traditional plastic market shows gradual growth



Copolyester Business

Expansion into the range of applications with Copolyester through continuous product development



Household items

Global Regulations and Market Trends

Demands for recycled plastic products are expected to hike explosively as global regulation gets stricter

Global Regulations



- Mandated recyclable plastic usage in plastic packaging
 : 55% by 2022, 100% by 2030
 (Sources: European Commission, COM(2018))
- Mandated usage of Recycled PET(r-PET) for PET beverage bottles
 : 25% by 2025, 30% by 2030
 (Sources: European Parliament, Single-Use Plastics Directive)
- California: Mandates recycled content in PET bottles

l IC



- 15% by 2022, 50% by 2030
- Washington State: Mandates recycled content for plastic containers across food and household product
 - 15% by 2022, 25% by 2025, 50% by 2030

Japan



Establishing goals for recycling rates of plastic containers
 : 60% by 2030, 100% by 2035

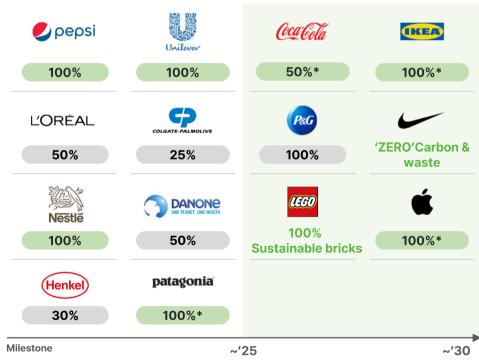




- Enlarging 30% of the usage of recycled plastic materials by 2030
- Targeting to reduce 20% of waste plastic by '25

Brand owners' Commitments

Announces from Brand owners: "Transition to 50%~100% recyclable materials by 2030"



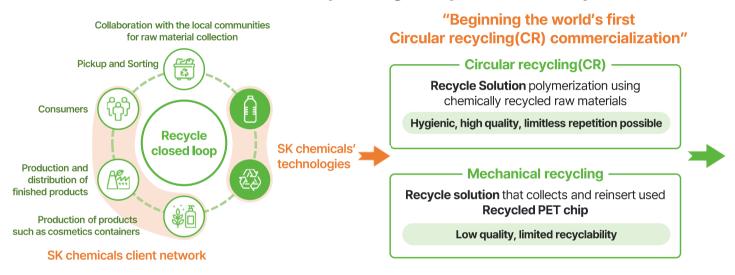
* Renewable & recycle content

(Sources: Branded-audit report (2022)& Homepages of each company

Recycled Copolyester

SK chemicals' sustainable packaging solutions

Establishment of circular economy through recycle closed loop



Achieving No.1 Recycle Solution Povider

Recycled Copolyester production process



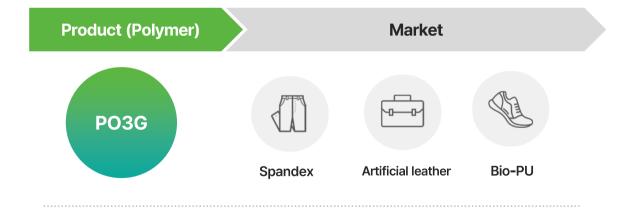
Strengths

- Stable raw material secured through self production of r-BHET and CHDM
- 2 Demonstrate Recycle technology by being the world's 1st to commercialize r-Copolyester
- 3 Validation with major brand-owners on the progress

Bio-materials Business

Expansion into bio-material business such as PO3G





ECOTRION

Investment term Feb 2020 ~ Feb 2022

Capacity 5,000 tons annually

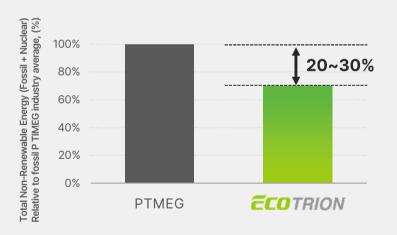
Features High elastic recovery, Abrasion resistance

Applications Elastomer, 3D Printing, Spandex, etc.

Progress Commercial plant started (Mar 2022)

PO3G eco friendly features

Up to 30% reduction of greenhouse emissions compared to existing Polytetramethylene Ether Glycol (PTMEG)



Reference : DuPont™ Cerenol® -A New Family of Sustainable and Environmentally Friendly Materials, 2008, Washington DC



Life Science - Pharma

Main Products





No.1 Gingko extract circulatory enhancer

Joins



Korea's no.1 herbal medicinal products for arthritis

Trast



World no.1 patch formulation for arthritis

Mvix S



World's 1st film type impotency treatment

Rivastigmine Patch



Patch type Alzheimer treatment

Strengths and Growth Strategy

Top class marketing and partnerships in Korea



New drug development strategic cooperation

- Open Innovation
- CMO · CDMO



Establishment of a new drug search platform utilizing Al

- · Expand new pipelines and minimization of failure costs
- Secure analysis capacity level on par with established Al companies



Introduction of external projects and venture investments

- Build high-prospect venture capital investment pipelines, and search for new business fields
- Generate investment profits and develop introduction pipelines

Life Science - SK bioscience

