SK chemicals 2023 3Q Earnings Release















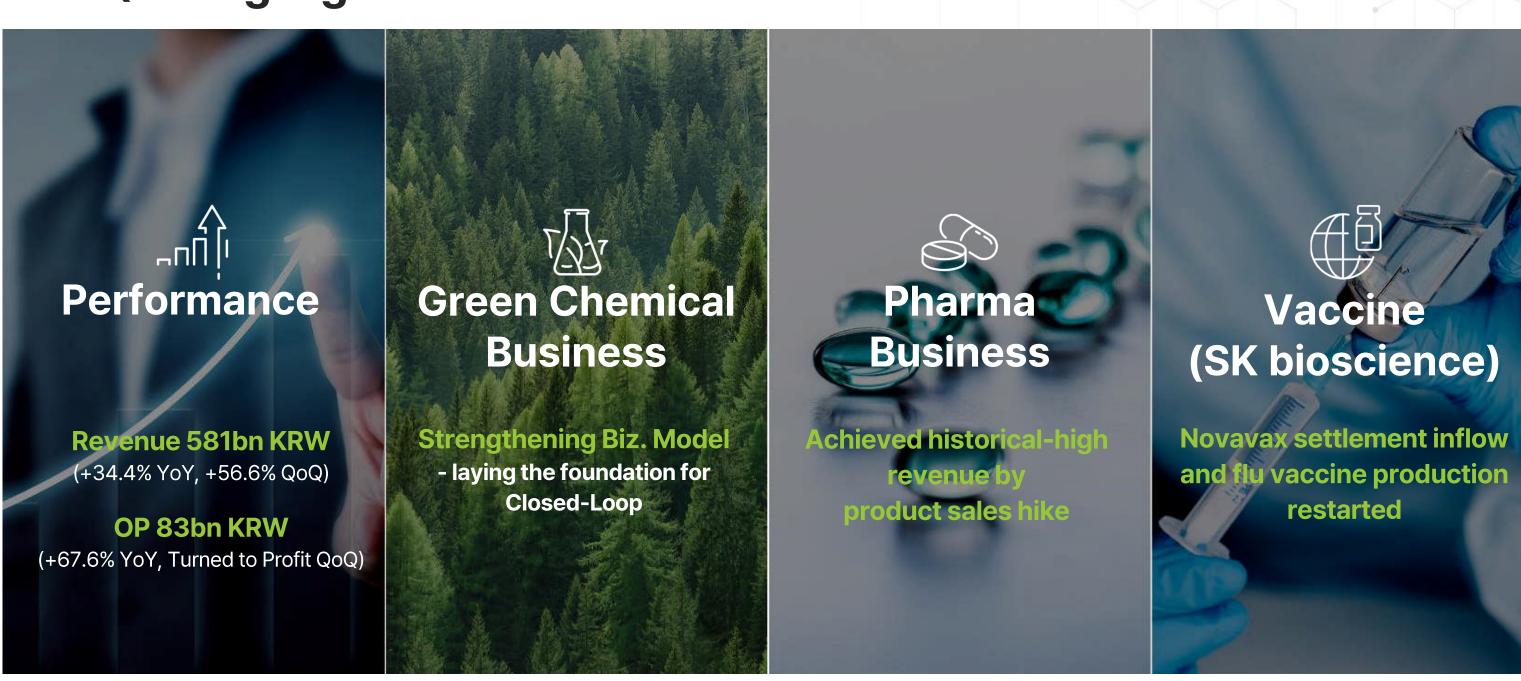
We care for the future.

Healthcare, Earthcare





## 3Q23 Highlight



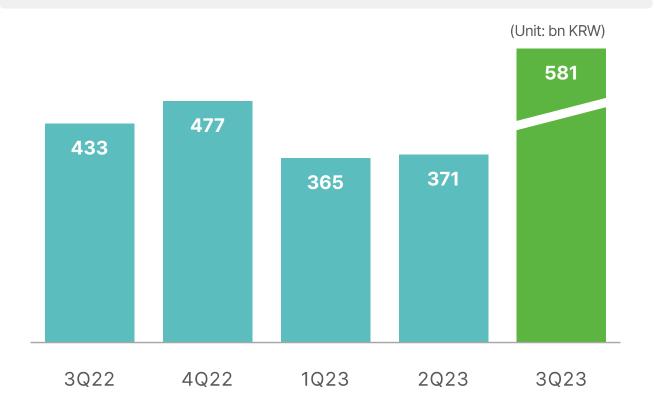
## **3Q23 Performance Review (Consolidated)**

#### Revenue

#### 581bn KRW

(+34.4% YoY, +56.6% QoQ)

Despite the revenue decrease of own business, consolidated revenue increased due to the impact of consolidated subsidiary's revenue hike

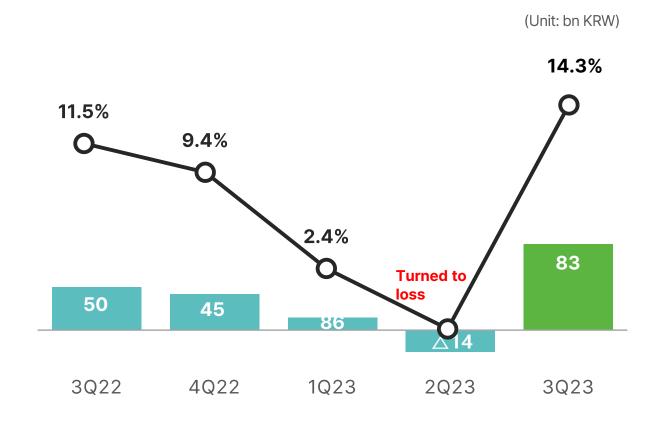


#### **Operating profit & margin**

#### 83bn KRW

(+67.6% YoY, Turned to profit QoQ)

Profit and profitability increased due to the impact of consolidated subsidiary's performance



## **3Q23 Performance Review (Separate)**

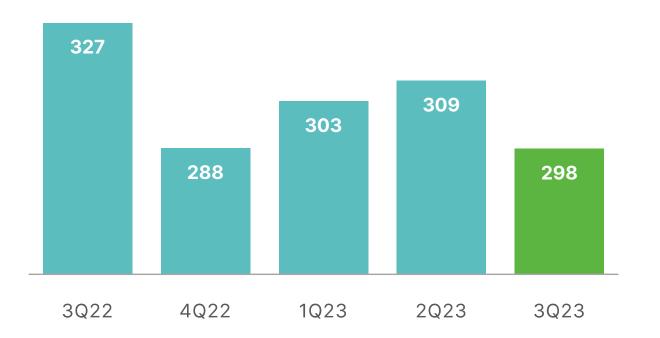
#### Revenue

#### 298bn KRW

 $(\triangle 8.6\% \text{ YoY}, \triangle 3.5\% \text{ QoQ})$ 

Revenue declined as weaker performance in the green chemicals business due to weak global demand more than offset strong performance in the pharma business

(Unit: bn KRW)



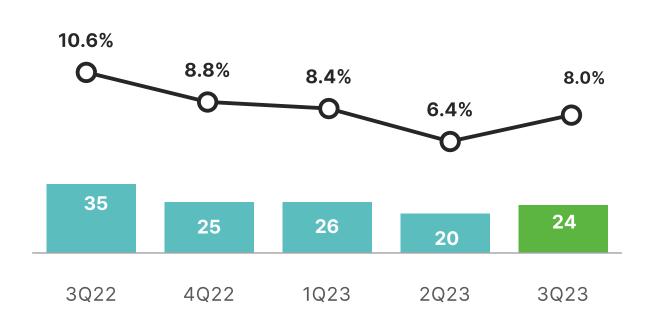
#### **Operating profit & margin**

#### 24bn KRW

 $(\triangle 30.8\% \text{ YoY}, +21.3\% \text{ QoQ})$ 

Profit decreased due to lower sales in Copolyester business and cost increases

(Unit: bn KRW)

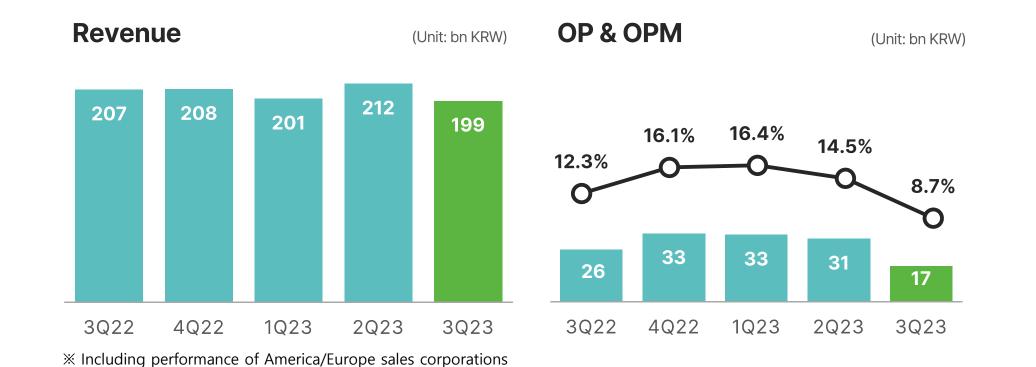


## **Performance Review by Division**

**Green Materials – Copolyester & Petrochem** 

#### **Performance and Outlook**

#### '23.4Q Outlook **'23.3Q Performance 199bn KRW** (△4.0% YoY, △6.0% QoQ) Revenue Revenue declined due to the lower volume **Continuous** followed by slowdown in the improvement Strengthening weak global of global consumer sentiment VS. high-profitability consumer portfolio **17bn KRW** (△32.1% YoY, △43.5% QoQ) sentiment **Operating** profit Profit decreased due to lower sales volume and cost increase

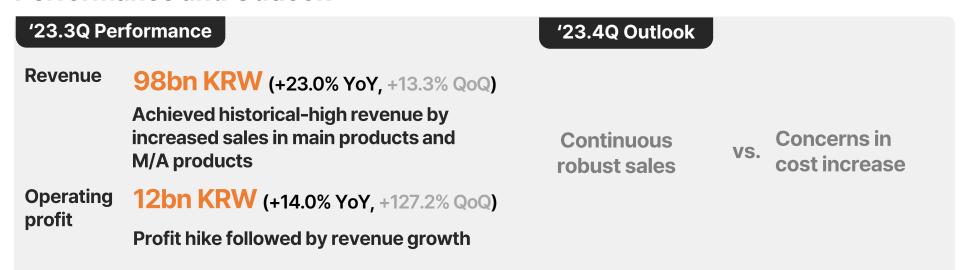


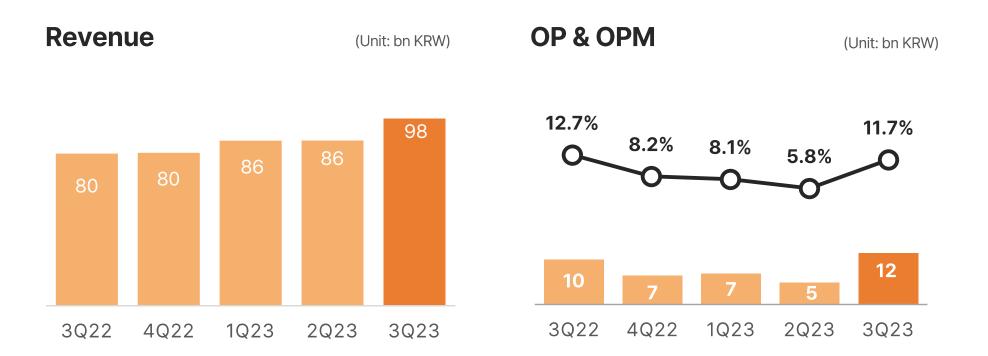


## **Performance Review by Division**

**Life Science - Pharma** 

#### **Performance and Outlook**





#### **Sales Composition**



#### **Main Products**



#### Joins

Natural product based anti-arthritic treatment





#### Ginexin

blood circulation disorder treatment & Cognitive enhancer





#### Rivastigmine patch

Anti-dementia treatment patch



## **Performance Review by Division**

Life Science - SK bioscience

#### **Performance and Outlook**

#### '23.2Q Performance

Revenue

232 bn KRW (+154.6% YoY, +775.5% QoQ)

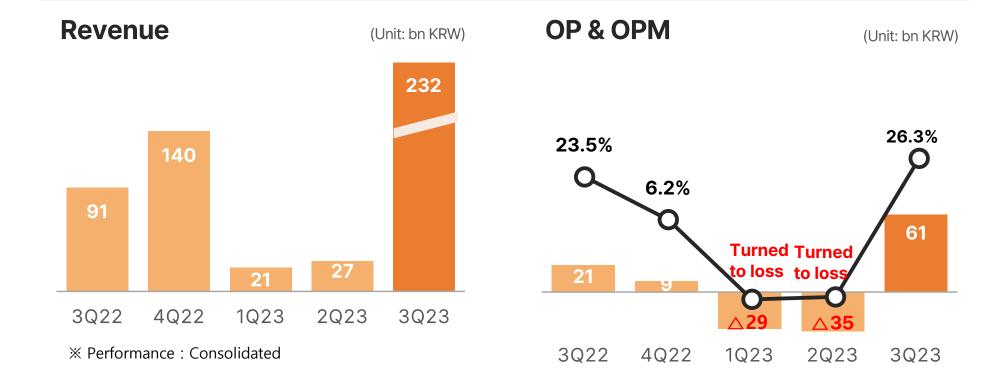
Revenue improved due to Novavax settlement and Flu Vaccine

Operating 61 bn KRW (+185.3% YoY, Turned to profit QoQ) profit

Operating profit increased due to the impact of revenue growth

'23.3Q Outlook

Revenue expected to increase by continuing No.1 domestic M/S of vaccines and supplying updated Novayax COVID Vaccine

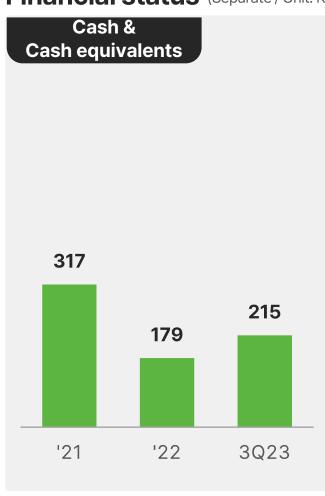


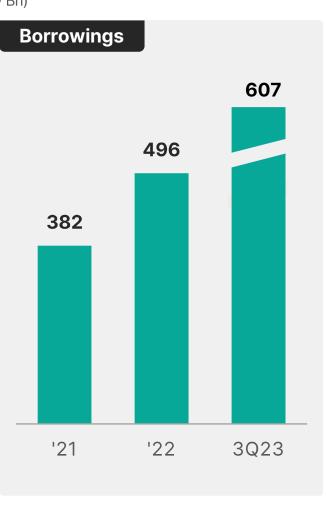
#### **3Q23 Business Review**

- Novavax Contract
  - Strategic partnership with Novavax via new L/I contract & equity investment
  - Synergy with Novavax : Expanding vaccine portfolio, Reinforcing Mfg. Partnership, Advancing market experience
- Updated Novavax COVID Vaccine Supply
- The only alternative to mRNA XBB Vaccine differentiating with the strength of protein-based vaccines in endemic

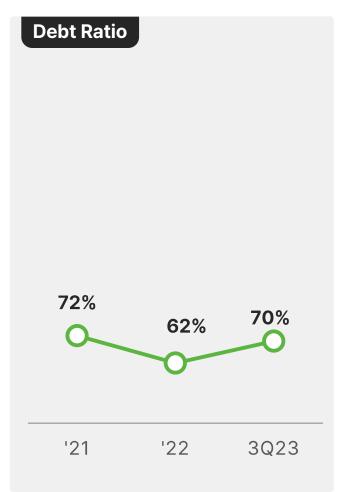
## **Financial Highlights**

#### Financial status (Separate / Unit: KRW Bn)





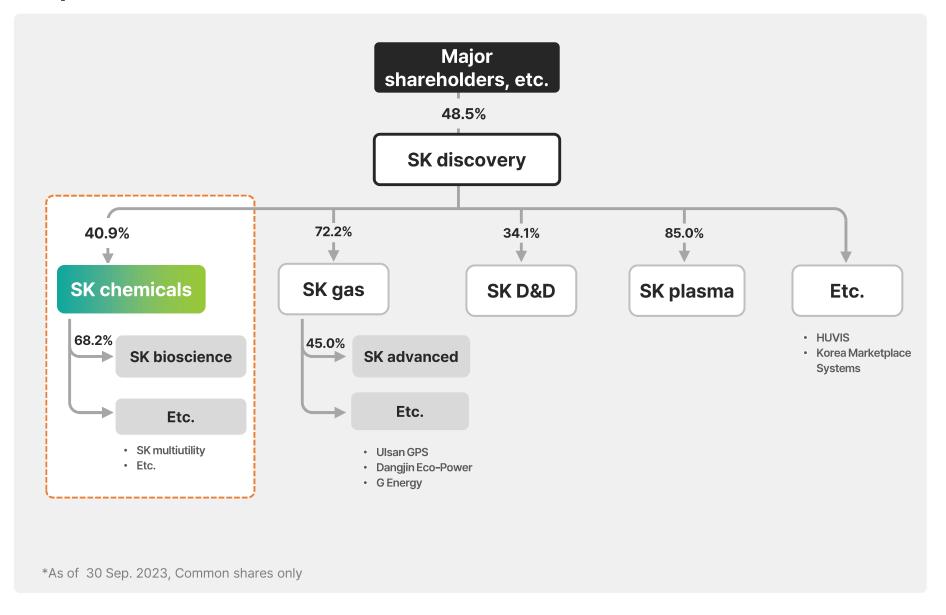
#### Financial Ratio (Separate)



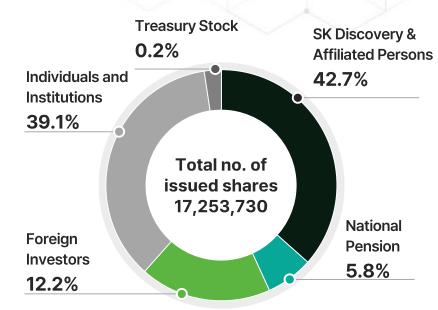


## **Governance and Shareholders**

#### **Corporate Governance**



#### **Shareholder Structure**



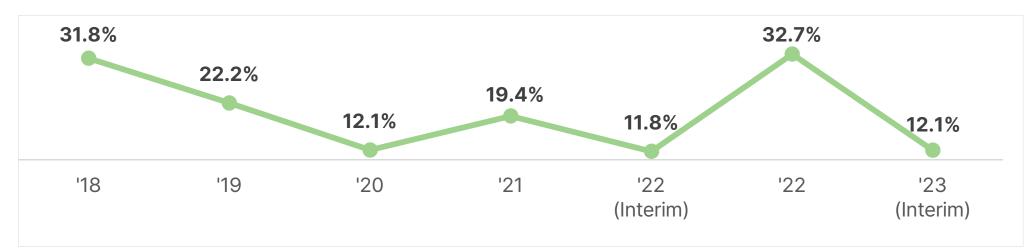
<b>Shareholders Category</b>	No. Shares
SK Discovery & Affiliated Persons	7,361,072
National Pension	1,001,823
Foreign Investors	2,106,811
Individuals and Institutions	6,753,220
Treasury Stock	30,857
Total no. of issued shares	17,253,783

\*As of 30 Sep. 2023, Common shares only

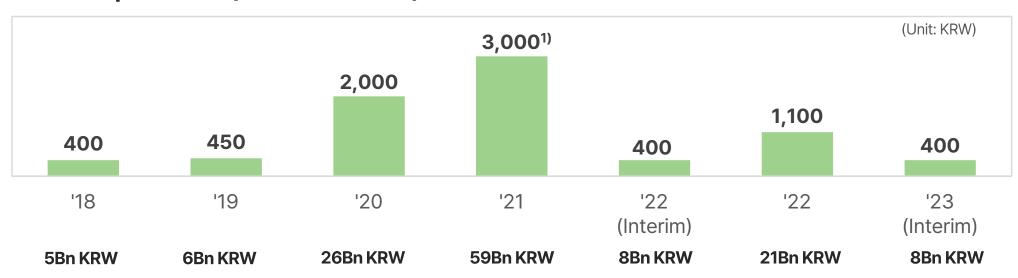
## **Shareholder returns**

#### **Dividend**

#### **Payout Ratio**



#### **Dividend per share (Common stock)**



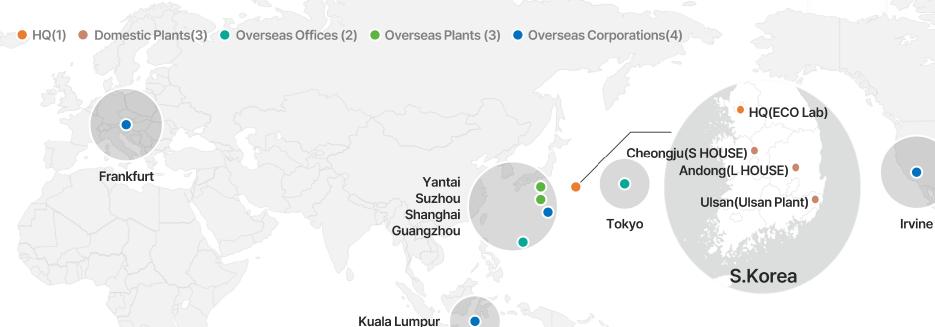
#### **Others**

- **17.6** Retirement of Stock<sup>1)</sup>
- **'21. 10** Announced dividend policy<sup>2)</sup>
- **'21. 11** 50% capital increase without consideration
- **'22. 3** Announced Buy-back of Stock (50 Bn KRW)
- **'22. 10** Retirement of Stock (50 Bn KRW)<sup>3)</sup>
- 1) 1,939,120 shares of common stock
- 2) Determining the total amount of dividends at the 30% dividend payout level
- (Separate net income excluding non-recurring income)

<sup>3)</sup> Retired 389,489 common shares

<sup>1)</sup> Considering the capital increase without compensation, the dividend per share was 4,500 KRW(including extra dividend) in 2021.

# Global Network



#### **SK Shantou**



Construction **Status** '23 Mar. Acquisition of Tangible Assets (Shuye)

'19 r-BHET, CR-PET Plant takeover (Shuye)

r-BHET, CR-PET etc.

Production

Capacity

Production

**Items** 

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

#### **Ulsan Plant**







#### **Andong Plant** (L HOUSE)



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

Health) / ISO 9001(Quality)

'89 SEP. PTA / DMT Plant completion

'01 JAN. CHDM / PETG Plant completion

'22 Feb. PO3G Plant completion

Production Items

Construction

**Status** 

450,000 tons annually 1)

**Production** Capacity

Copolyester resin, DMT etc.

**Production** Items **Production** 

**Capacity** 

Construction

<u>Status</u>

760m solid tablets, 66m patch pouches annually

K GMP/ EU GMP(solid tablets, patches)

`12 JUL Production building completion

`14 MAR Patch building reconstruction

`09 JUL Cheongju plant takeover

Solid tablets and patches

**Certifications** MFDS & EU GMP Certifications

Construction '12 DEC Completion Status

**Production** Flu vaccine, varicella/herpes zoster vaccine, <u>Items</u>

COVID vaccine (CMO/CDMO)

Approximately 500m dozes annually based on Production Capacity

finished products

## Financial Statements (Consolidated)

#### **Balance Sheet**

(Unit: KRW Bn)

Items	′22	′23. 3Q
Current assets	2,519	2,276
- Current account	2,036	1,835
- Inventory	483	441
Non-current assets	1,427	1,840
- Investment in affiliated companies and joint ventures	13	12
- Tangible property	1,193	1,495
- Intangible property	52	56
- Other Non-current assets	169	276
Total assets	3,946	4,116
Current liabilities	1,059	765
Non-current liabilities	178	651
Total liabilities	1,237	1,415
Equity attributable to the parent company	2,147	2,145
- Capital stock	99	99
- Consolidated capital surplus	1,199	1,199
- Consolidated other components of equity	△22	△22
- Accumulated other comprehensive income	2	△23
- Consolidated earned surplus	869	892
Non-controlling interest	562	556
Total equity	2,709	2,701
Total liabilities and equity	3,946	4,116

#### **Income Statement**

(Unit: KRW Bn)

Items	'22.3Q	'22.4Q	'23.1Q	'23.2Q	'23.3Q
Revenue	433	477	365	371	581
- Cost of Revenue	279	331	267	282	396
- Gross profit from Revenue	153	146	98	90	185
- Revenue and administrative expenses	104	101	89	104	102
Operating profits	50	45	9	△14	83
- Other non-operating income	1	0.8	5	2	3
- Other non-operating expense	3	14	8	13	0.8
- Financial income	71	21	59	28	22
- Financial expense	67	7	54	28	30
- Share of profits	0.1	△0.8	△0.5	△0.4	△0.4
Earnings before interest and taxes	52	48	10	△25	77
- Income tax expense	10	△36	Δ1	△9	15
Consolidated net income	42	84	11	△16	63
- Equity attributable to the parent company	35	74	16	△11	47
- Non-controlling interest	7	9	△4	△5	16

## Financial Statements (Seperate)

Balance sheet (Unit: KRW Bn)

Items	′22	′23. 3Q
Current assets	645	669
- Current account	401	430
- Inventory	244	240
Non-current assets	1,165	1,243
- Investment in affiliated companies and joint ventures	384	450
- Tangible property	662	677
- Intangible property	32	30
- Other Non-current assets	87	86
Total assets	1,811	1,913
Current liabilities	535	533
Non-current liabilities	156	254
Total liabilities	691	787
Capital	99	99
Capital surplus	158	158
Other components of equity	△13	△13
Earned surplus	876	882
Total equity	1,120	1,126
Total liabilities and equity	1,811	1,913

#### **Income Statement**

(Unit: KRW Bn)

Items	'22.3Q	'22.4Q	'23.1Q	'23.2Q	'23.3Q
Revenue*	327	288	303	309	298
- Cost of Revenue	245	212	228	239	226
- Gross profit from Revenue	81	76	75	71	72
<ul> <li>Revenue and administrative expenses</li> </ul>	47	51	49	51	48
Operating profits*	35	25	26	20	24
- Other non-operating income	1	4	3	2	2
- Other non-operating expense	3	12	3	10	4
- Financial income	24	5	16	7	7
- Financial expense	23	15	15	13	11
Earnings before interest and taxes*	34	7	26	5	18
- Income tax expense	8	1	10	0.7	4
Net income	26	6	17	5	14

# Circular Recycle Biz.



## **Recycle Biz. History**



2019 Started R&D for Recycle Biz.



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



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



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



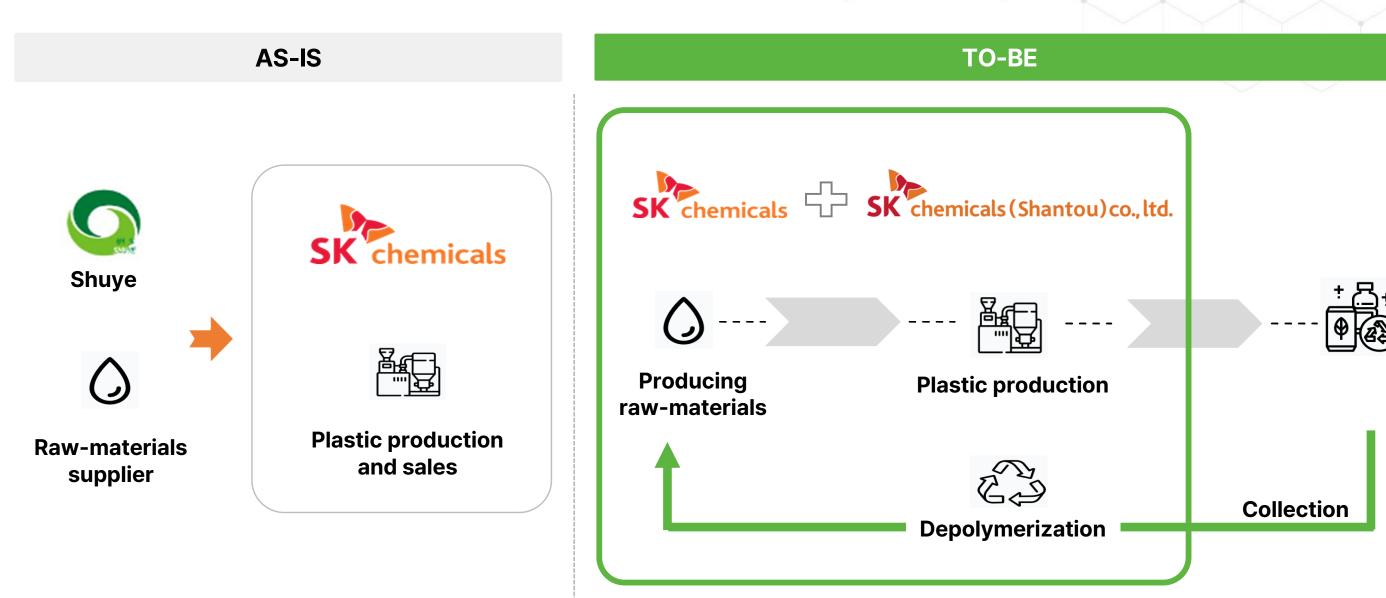
2023 (1Q)
Secured core raw material
for chemical recycling
and manufacturing capacity



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

## Competency (1): Internalization of core raw materials

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

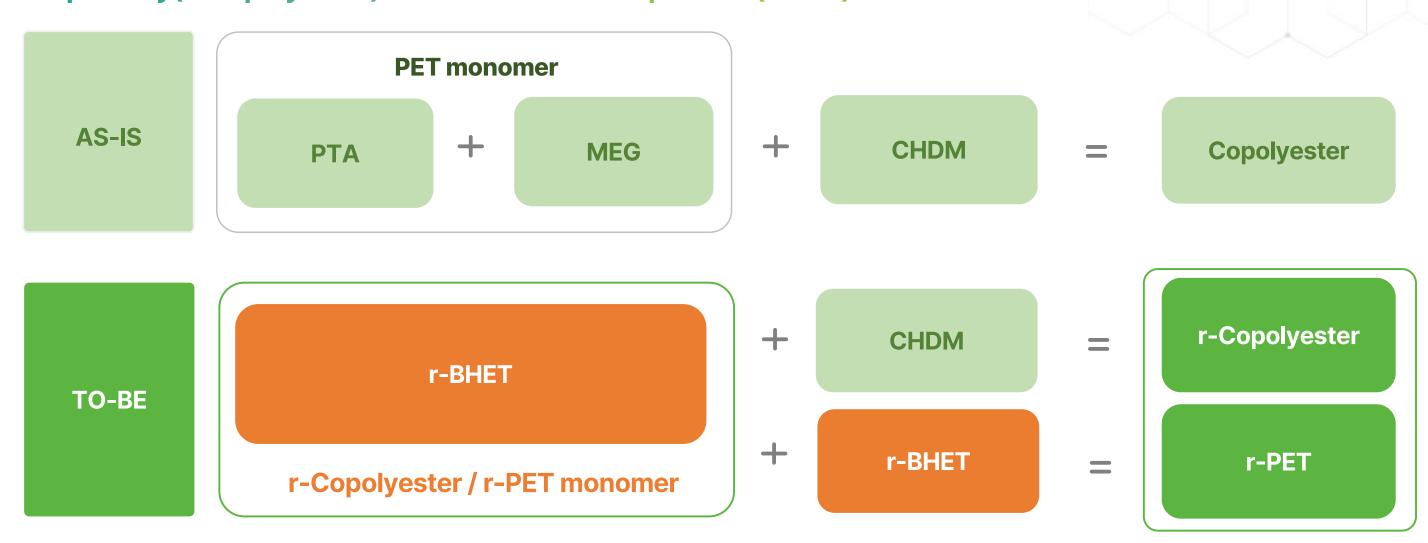


"Outsourcing raw materials"

"Internalization of core raw-materials"

## 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)
- Promoting cooperation with w-PET(ISCC certified)
   companies to secure stable flake supply

- Enhancing cost competitiveness and optimizing processes through continuous PMI process
- Building recycling cluster by taking geographical advantage of Shantou

#### **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) - 3Q23 Highlight

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 \_\_\_\_\_

Commence business portfolio reorganization

Arrange core business focus foundation

Procure new growth momentum and enter growth phase

2022 ~ -

#### **Green Materials**

- Bio energy business sold
- Drive green portfolio centered growth
- Initiate commercialization of world's 1<sup>st</sup> 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)
- Develop highly flexible PLA technology and develop commercialization
- SK-Shantou establishment Mar.'23

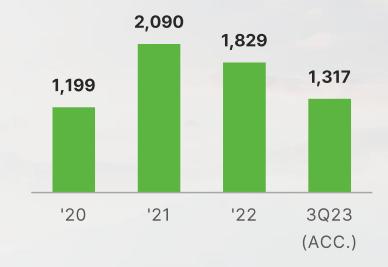
#### **Life Science**

 Covid-19 vaccine CMO/CDMO contracts

- SK bioscience listing on KOSPI
- Covid-19 vaccine phase 3 trial commenced
- Expanding new pipelines utilizing Al/Dl technologies
- Fortifying existing portfolio and procuring new technologies
- Completed Covid-19 GBP 510
   Phase 3 trial
- Supplying updated Novavax COVID vaccine

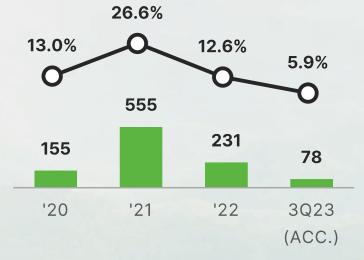


(Unit: KRW Bn)



#### 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: 29<sup>th</sup> 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.
- Recycle portfolio 50% by 2026 Recycle portfolio 100% by 2030

#### 2 Expand into new Bio-material business

- Development and commercialization of corn based PO3G technology
- Development of highly flexible PLA technology overcoming shortcoming of existing PLA

#### 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**

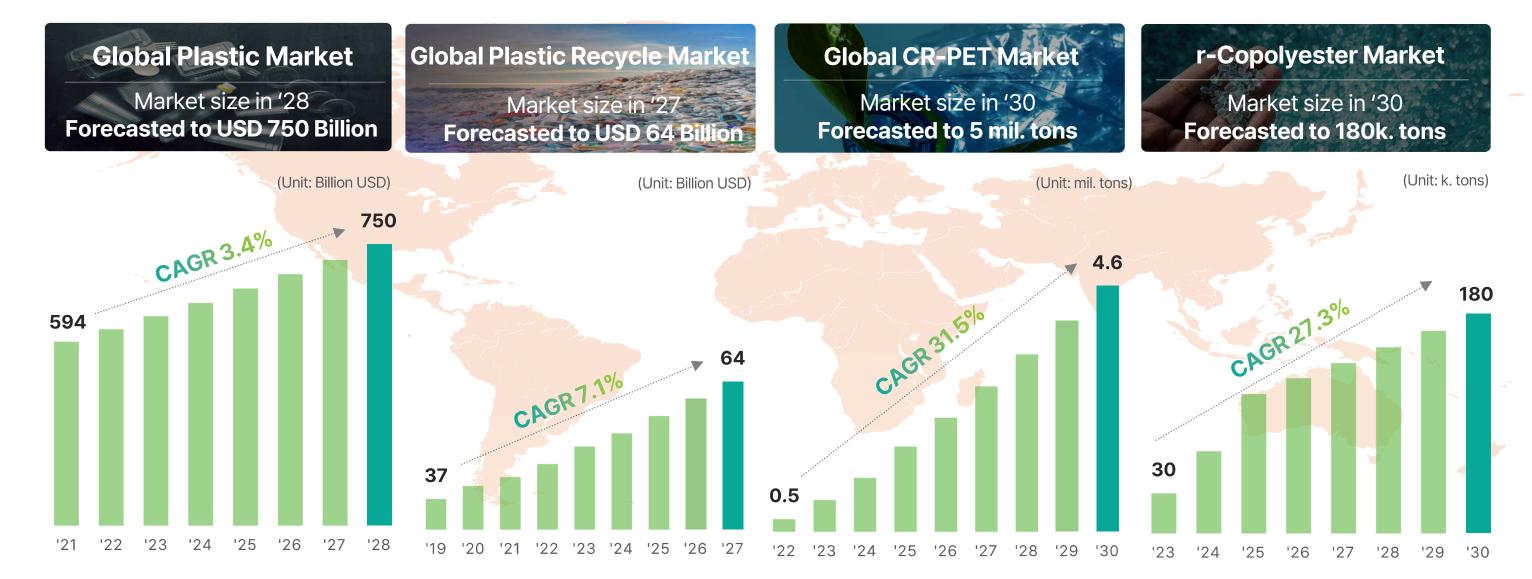
(Sources: Global plastic market size 2016-2028

Published by Ian Tiseo, 2021)

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

(Sources: "Transition to a Circular Economy and

Response Strategy Published by PwC Korea, 2022)



(Sources: Wood Mackenzie, HIS Markit, Expert Interview)

(Sources: Wood Mackenzie, HIS Markit, Expert Interview)

## **Copolyester Business**

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



## **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

US



- 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

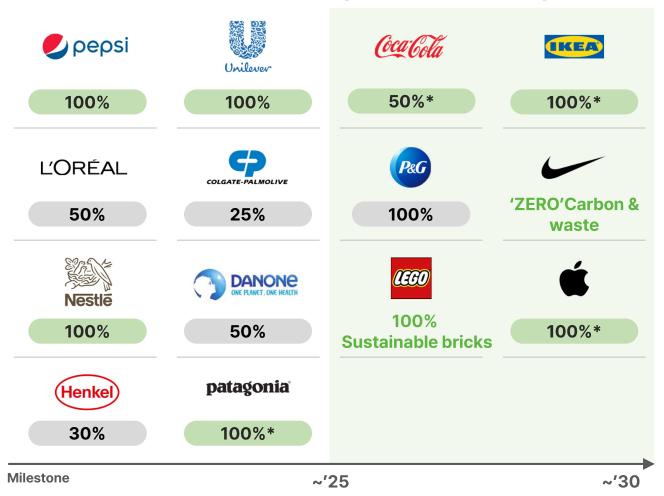




- Enlarging 30% of the usage of recycled plastic materials by 2030
  - Targeting to reduce 20% of waste plastic by '25

#### **Brand owners' Commitments**

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

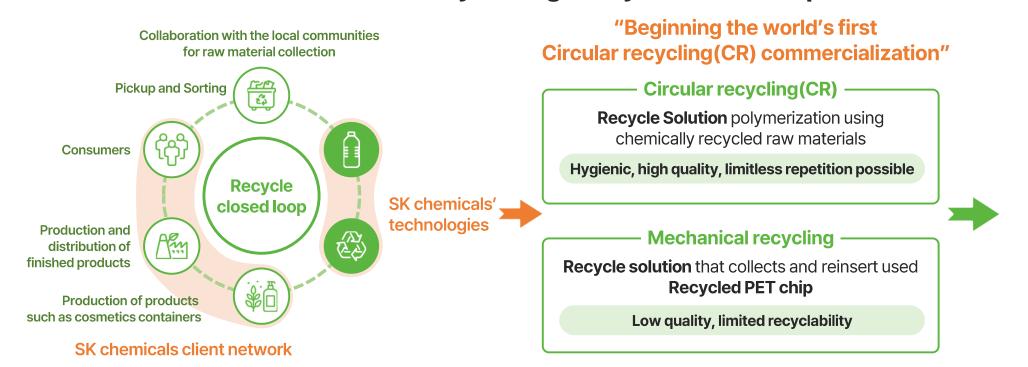


\* Renewable & recycle content

## **Recycled Copolyester**

SK chemicals' sustainable packaging solutions

#### Establishment of circular economy through recycle closed loop



Recycle portfolio 100% by 2030

#### **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

#### **Bio-materials Business**

Expansion into bio-material business such as PO3G and high flexibility PLA



# PO3G Spandex Artificial leather Bio-PU High flexibility PLA Packaging

## **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

