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## We think about the future of humanity and earth.

EcoPro, EcoPro BM, EcoPro HN, EcoPro Materials, EcoPro EM, EcoPro Innovation, EcoPro CnG, EcoPro AP, Ecopro Partners, Eco Logistics, EcoPro Global.

Our subsidiaries may have different roles in the business, but we have a common thought when it comes to people and environment, creating a new world together.

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## Mission & Vision

# EcoPro

MISSION

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Our mission is to develop new energy and technologies to sustain environment, which ultimately will improve and make our lives easier.

VISION	Ś
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We make sure that EcoPro technologies are found 'Everyday, Everywhere.'

Everyday Everywhere EcoPro

## Everyday Everywhere



We accept failure and are ceaselessly challenging ourselves based on independence and self-motivation to become No. 1 in the business field.



We respect the diversity of our employees and partners and are trustworthy as we perform tasks in consideration of work ethics to become No. 1 in the business field.





We create new opportunities to enter markets through brilliant ideas and R&D, constantly pursuing changes and innovation to become No. 1 in the business field.



## EcoPro Group History

EcoPro Group leads present and future.



1998~2015

Early

Stage

- 1998. 10. Established EcoPro Co., Ltd.
- 2001. 06. Started research and development of catalysts for decomposition of perfluorinated compounds (PFCs)
- 2002. 07. Moved into Ochang Science Industrial Complex (located in Ochang-eup, Cheongju-si, Chungcheongbuk-do)
- 2002. 08. Participated in development of Nano Carbon Ball (NCB) authorized by the established corporate-affiliated research center
- 2004. 04. EcoPro, received the grand prize in the environmental technology part at the 4th Maeil Business Venture Awards[Maeil Business/Ministry of Commerce, Industry and Energy/Ministry of Science and ICT)
- 2004. 10. Entered business for cathode materials through joint-development of highvolume cathode active materials
- 2005. 07. Established EcoPro Innovation
- 2005. 08. Completed carbon monoxide (CO) removal catalyst facilities
- 2006. 09. EcoPro's PFC treatment system certified as New Excellent Technology (NET) by the Ministry of Trade, Industry and Energy (MOTIE)
- 2006. 09. EcoPro selected as Chungbuk Best Enterprise in the technological innovation part (KOSME)
- 2006. 11. EcoPro, awarded "Million-Dollar Export Tower" at the 43rd Trade Day (KITA)
- 2007. 07. Listed on KOSDAQ
- 2007. 12. Received an excellent patent award from the Ministry of SMEs and Startups with the developed PCF Scrubber
- 2008. 03. Completed the first cathode active material (CAM 1) factory
- 2009. 07. Completed the second cathode active material (CAM 2) factory
- 2010, 12. Received an official commendation from the Ministry of Environment for environment conservation
- 2010. 12. EcoPro, won the 2010 Korea Technology Awards for large-capacity catalytic greenhouse gas reduction technology (Ministry of SMEs and Startups)
- 2011. 03. EcoPro, selected as an exemplary taxpayer at the 45th Taxpayer's Day (Ministry of Economy and Finance)
- 2011. 11. EcoPro, awarded "30Million-Dollar Export Tower" at the 48th Trade Day (KITA)
- 2012. 05. EcoPro Innovation, initiated the filter frame business
- 2012. 06. EcoPro, received the R&D Award (USA) with CSG for electric vehicles
- 2013. 03. EcoPro, selected as an exemplary business at the 40th Commerce and Industry Dav (MOTIE)
- 2014. 09. EcoPro, received the grand prize at the Industrial Technology of the Month Awards (MOTIE)
- 2015. 10. Completed the third cathode active material (CAM 3) factory



### 2016~2018

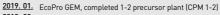


- 2016. 05. Established EcoPro BM (physical division of EcoPro battery material business)
- 2016. 06. Established EcoPro BM-affiliated research center
- 2016. 07. ECOPOR Innovation, started the lithium material business
- 2016. 09. EcoPro, designated as an Excellent Environmental Firm (Ministry of Environment)
- 2016, 12. EcoPro, awarded "100Million-Dollar Export Tower" at the 53rd Trade Day, and
- received a commendation from the president (KITA)
- 2016. 12. EcoPro BM, listed in the World Class 300 (MOTIE) 2017. 04. Established EcoPro GEM
- 2017. 05. Won "IR52 Jang Young-shil Award" [Ministry of Science and ICT]
- 2017. 05. Completed the fourth cathode active material (CAM 4) factory
- 2017, 06. Established EcoPro Innovation-affiliated research center
- 2017. 06. Established EcoPro GEM-affiliated research center
- 2017. 07. EcoPro BM, won "IR52 Jang Young-shil Award" for NCA cathode materials (Ministry of Science and ICT)
- 2017. 12. EcoPro BM, awarded "100Million-Dollar Export Tower" at the 54th Trade Day (KITA)
- 2018. 03. EcoPro GEM, completed 1-1 precursor plant (CPM 1-1) 2018. 03. EcoPro BM, won "IR52 Jang Young-shil Award" and received the Prime
- Minister's Award for NCA034 Series[Ministry of Science and ICT]
- 2018. 07. World's first commercialization of MW VOC reduction system
- 2018. 09. EcoPro GEM, designated as an outstanding company for employing young people (Gyeongsangbuk-do)
- Minister's Award at the 10th Recycle Day (Ministry of Environment)
- Energy Plus 2018 Opening and Awards Ceremony (MOTIE) 2018.11. EcoPro BM, received the Minister's Award from MOTIE for the World Class 300
- Project at 2018 Leading Korea, Job Festival
- 2018. 12. EcoPro BM, awarded "300Million-Dollar Export Tower" at the 55th Trade Day (KITA) 2018. 12. EcoPro GEM, awarded "500Million-Dollar Export Tower" at the 55th Trade Day (KITA)

## 2019~2020

Internal Stability

Stage



- 2019. 02. EcoPro, founded Onnuri Sport Club
- 2019. 03. EcoPro BM, listed on KOSDAQ 2019. 03. EcoPro, opened Shanghai Branch
- 2019. 03. EcoPro GEM, received a Certificate of Excellent Company at 2019 Technology Evaluation (NICE Information Service)
- 2019. 05. EcoPro GEM, ISO140001/ISO145001/IATF16949-certified
- 2019. 06. EcoPro, CEO Lee Dong-chae received a special prize in the regional economy part at 2019 Citizen Day commemorating the 70th anniversary of Pohang being raised to the status of a city
- 2019. 07. EcoPro Innovation, selected as one of the best companies for job creation in 2019 (Ministry of Employment and Labor)
- 2019. 07. EcoPro GEM, concluded an MOU for battery innovation and industrial ecosystem development (13 organizations, including Pohang-si)
- 2019. 09. EcoPro GEM, received an excellence award at the Consortium for HRD Ability Magnified Program (Ministry of Employment and Labor/Human Resources Development Service of Korea)
- 2019. 10. EcoPro BM, Development Team 1 Head Yoo Hyeon-jong received the Minister's Award from MOTIE at 2019 Awards on Electrical Equipment, Smart Grid & Secondary Cells
- 2019. 10. Completed the fifth cathode active material (CAM 5) factory
- 2019. 11. EcoPro, received the Minister's Award from the Ministry of Environment for creating jobs in environment
- 2019. 11. EcoPro, received the Minister's Award from the Ministry of Education at 2020 Korea Social Contribution Awards and won CSR grand prize (organized by 14 government departments, including the National Assembly, Ministry of Education and Ministry of Employment and Labor) 2019. 11. Established EcoPro AP
- 2019. 12. EcoPro BM, awarded "500Million-Dollar Export Tower" at the 56th Trade Day (KITA) 2019. 12. EcoPro GEM, received the Minister's Award from the Ministry of Employment and Labor for job creation
- 2019. 12. EcoPro GEM, certified as a family-friendly company
- 2020. 01. EcoPro GEM, concluded an agreement to collaborate with POSTECH
- 2020. 02. Established EcoPro EM (joint venture between EcoPro BM and Samsung SDI)
- 2020. 02. EcoPro, won "IR52 Jang Young-shil Award" for MW System (MSIT)
- 2020. 03. EcoPro, CEO Lee Dong-chae received the Gold Tower Order of Industrial Service Merit at the 47th Commerce & Industry Day (KCCI)
- 2020. 03. Established EcoPro CnG
- 2020. 04. EcoPro Innovation, started the lithium hydroxide waste treatment business 2020. 05. EcoPro GEM, certified as a company specializing in materials, parts and equipment (Korea Evaluation Institute of Industrial Technology)
- 2020. 06. EcoPro Innovation, concluded a contract for long-term (6 years) supply of industrial lithium carbonate
- 2020. 07. Established Ecopro Partners
- 2020. 07. EcoPro/EcoPro BM, selected as KOSDAQ Rising Star
- 2020. 07. EcoPro/EcoPro GEM, selected as the best companies for job creation in 2020 (Ministry of Employment and Labor)
- 2020. 08. EcoPro, certified as an international accredited testing agency by KOLAS (Korea Agency for Technology and Standards)
- 2020. 09. Completed EcoPro GEM-affiliated R&D center
- 2020. 11. Concluded CDM business contracts with 6 companies in China 2020. 12. EcoPro BM, won the Minister's Award from the Ministry of SMEs and Startups in the
- regional development part at the 15th Korea Social Contribution and CSR Awards 2020. 12. EcoPro BM, received an excellence award for transparent management at the 12th KOSDAQ Awards (Financial Supervisory Service)
- 2020. 12. EcoPro GEM, awarded "30Million-Dollar Export Tower" at the 57th Trade Day (KITA)



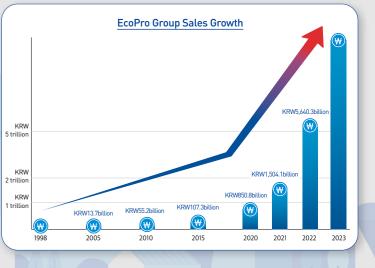
### 2018. 09. EcoPro GEM, selected as a company leading recycling and received the Prime 2018. 10. EcoPro BM, CTO Choi Moon-ho received the Prime Minister's Award at the

2021~ Take-Off Stage 2021.01. EcoPro BM, selected as one of the best companies in the field of materials, parts and equipment (MOTIE) 2021.03. EcoPro GEM, started building the second precursor plant (CPM 2) and completed the first sulfur oxide treatment plant 2021. 04. Established Eco Logistics 2021. 05. Established EcoPro HN (spin-off of the EcoPro environment business) 2021. 05. EcoPro HN. listed on KOSDAQ 2021. 06. EcoPro BM, selected as 2021 KOSDAQ Rising Star (KRX) 2021. 07. Relocated the head office of EcoPro Innovation (from Ochang-eup Cheongiusi Chungcheongbuk-do to Buk-gu Pohang-si, Gyeongsangbuk-do) 2021. 09. Established EcoPro Global 2021. 09. EcoPro Innovation, completed the first high-purity lithium hydroxide plant (LHM 1) 2021. 10. EcoPro AP, completed the first high-purity oxygen/nitrogen plant (ASU 1) 2021. 10. EcoPro EM, completed the sixth cathode active material factory (CAM 6) and started building the seventh cathode active material factory (CAM 7) 2021. 10. Established EcoPro CnG-affiliated research center 2021. 11. EcoPro GEM, concluded a MOU for mutual cooperation regarding the secondary cell business, including nickel and cobalt supply and recycling 2021. 12. EcoPro, received the Minister's Award from the Ministry of Science and ICT for social contribution at Korea Social Contribution Awards 2021. 12. EcoPro GEM, awarded "200Million-Dollar Export Tower" at the 58th Trade Day 2021. 12. EcoPro, selected as the company recognized for social contribution at the CSR in the Community Day for 3 consecutive years (Ministry of Health and Welfare) 2021. 12. EcoPro BM, awarded "800Million-Dollar Export Tower" at the 58th Trade Day (KITA) 2022. 03. EcoPro GEM, changed the company name to EcoPro Materials 2022. 05. EcoPro Materials, concluded a MOU for mutual cooperation in relation to solvent extraction for hydrometallurgy 2022. 06. EcoPro HN, concluded a MOU for secondary cell-related technical support for SNU Engineering Consulting Center 2022. 06. EcoPro HN, listed in the World Class 300 (MOTIE) 2022. 07. EcoPro HN, obtained a certificate of Environmental Product Declaration (EPD) 2022. 08. Launched a committee for community welfare fund 2022. 10. EcoPro EM, completed the seventh cathode active material factory (CAM 7) 2022. 12. EcoPro, selected as the company recognized for social contribution at the CSR in the Community Day for 4 consecutive years (Ministry of Health and Welfare) 2022. 12. EcoPro BM, awarded "1000Million-Dollar Export Tower" at the 59th Trade



Dav (KITA)





ECOPRO 07

an Enterprise Leading Future **ECOPRO** 

(01)

### EcoPro 에코프로

Founded in 1998, EcoPro has focused on the development of eco-friendly core materials and parts related to air pollution control. In 2003, it succeeded in the phased localization of core materials for secondary cells that were highly import dependent. As such, EcoPro has grown by building its foundation in two main areas, environment and IT energy.

In May 2016, EcoPro BM was spun off by means of physical division for specialization in cathode materials. And, in May 2021, EcoPro HN was spun off for specialization in air environment business. As it switched to a holding company, it is planning to concentrate on 'discovering new growth engines,' 'establishing ESG management system,' and 'stable financing.'

Financial Status 2022 Annual Consolidated Report





Date of Establishment Date of Listing CE0 Employee Status

**Business** Area

October 22, 1998 July 20, 2007 Song Ho-jun 143 persons (3,087 employees in the Group) Holding company (subsidiaries, investment management, etc.)



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a World-Class Company Specializing in High-Nickel Cathode Materials

(02)

## **ECOPRO** BM



EcoPro BM, which was spun off from its parent company EcoPro in May 2016 by means of physical division for specialization in cathode materials, is a company which leads the high-volume cathode material market at home and abroad based on its success in developing and mass-producing highnickel cathode materials for the first time in Korea.

Based on the infinite future growth potential of lithium-ion secondary cells, such as electric vehicles (EV), electric energy storage systems (ESS), uninterruptible power supply (UPS), smart grids, and ones for aerospace, medical and military purposes, EcoPro BM will grow into a core material company that makes Korea the leader of next-generation battery market.

Financial Status 2022 Annual Consolidated Report





Date of Establishment Date of Listing CE0 Employee Status **Business Area** 

May 2, 2016 March 5, 2019 Joo Jae-hwan and Choi Moon-ho 1,344 persons R&D and production of materials ranging from precursors to cathode active materials



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#### **Cathode Active Material**

#### From power tools to electric vehicles (EV) High-volume, high-energy and long-lived cathode active materials

Thanks to the steady growth of power tool markets and drastic  $\ensuremath{\mathsf{EV}}$ market expansion, we are witnessing a rapid increase in demand for high-energy and high-density cathode materials. Accordingly, the interest in and demand for high-nickel cathode materials are rapidly soaring. EcoPro has been creating an ecosystem ranging for precursor production to battery recycling to build a business model of virtuous cycle. EcoPro BM, which is responsible for the battery material business, has already secured international competitiveness with its development of original fundamental technologies and mass production technology accumulated for over 16 years when it comes to high-nickel cathode materials.

Also, EcoPro BM is getting ready to advance into the global EV market. With this aim, it has improved cathode material technology applied to high-end cathode materials with ceaseless R&D and developed next-generation materials such as a highly stable single crystal in response to market changes. EcoPro BM promises to do its best to stand tall as a leading company in the field of core materials for secondary cells while satisfying customers and market needs.

(EV)





**Applied Products** 



System (ESS)

Main Products

#### NCA Series

- Secured absolute advantage when it comes to high-nickel products
- Continuous Non-IT growth + expanded EV application
- Established a joint venture with Samsung SDI (EcoPro BM)

- Frist in the world to commercialize NCM 811
- Realized high-volume and safety with concentration gradient technology • Achieved the highest volume of Ni
  - industry

#### NCM Series

90% NCM cathode materials in the

#### NCMX

- Combined the advantages of NCA (high-energy) + NCM (long life span)
- High-performance, highly stable nickel applied with single crystal
- Diversified the product line
- Realized various features with differentiated doping and coating

\*NCA (Nickel, Cobalt and Aluminum), NCM (Nickel, Cobalt and Manganese), NCMX (NCM + Additive)

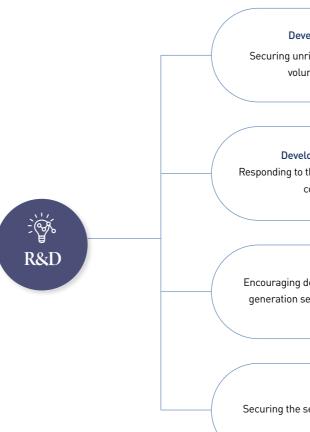
### Enhancing the competitiveness of core technology with ceaseless R&D

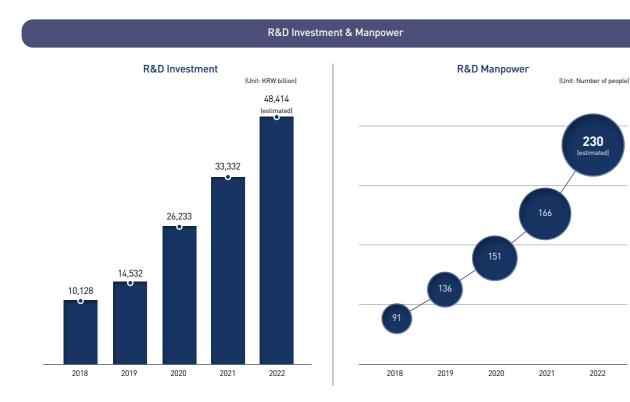
Cathode materials, the heart of secondary cells, are the core materials that determine a battery's voltage, volume and lifespan, etc., and it is important to secure a range of products in proper combination of metals to satisfy the performance needed according to the particular usage of the secondary cell. Also, the size, surface shape, etc. of the precursor, which is applied to cathode materials, affect the characteristics of cathode materials. Thus, it is important to adjust the characteristics of precursor powder during process control.

EcoPro BM retains a whole process synthesis technology from precursors to cathode materials and secures competitiveness in quality and cost as it receives precursors from the Group. It focuses on the development of technology for high-nickel ultrahigh volume cathode materials and promotes the development of single crystal products with outstanding life span and safety as well as cost-effective products with active R&D.

Also, it is developing element technology that can be applied to various areas while minimizing quality errors with the development of mass production process technology for highquality products.









#### Technology Development

#### Development of highly safe High-Ni technologies

Securing unrivaled technologies with verified technologies of highvolume NCA/NCM materials and enhanced safety

Development of low-cost, high-voltage technologies Responding to the low-cost cathode material market with the developed cost-effective, safe materials (NMX & OLO)

Development technologies for Post LiB Encouraging development of technologies to commercialize the nextgeneration secondary cells, including an all-solid-state battery and non-Li ion cells

Verticalization of the value chain Securing the secondary cell market competitiveness and accelerating innovative technology development

\*NMX (Nickel, Manganese + Additive), OLO (Over-Lithiated layered Oxide)

the Sole Company in Korea Offering Environment-Friendly Total Solutions

A Caller

(03)

## **ECOPRO** HN

EcoPro HN MREEGONIN

16 ECOPRO OVERVIEW

EcoPro HN which was spun off from its parent company EcoPro in May 2021 is an environmental company offering eco-friendly total solutions for clients. It provided the following solutions: 'Chemical Filter Solution' to remove harmful gas; 'Air-Pollutant Reduction Solution' to eliminate volatile organic compounds (VOCs) in air that may cause fine dust; 'Greenhouse Gas Mitigation Solution' to treat perfluorinated compounds (PFCs) generated in semiconductor processing; and 'Water Treatment System Solution' and 'Eco-Friendly Material Solution' to treat waste and pure water.

EcoPro-

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EcoPro HN is expanding its business conforming to the ESG management principles to preserve healthy earth environment for the next-generation and sustainable growth.

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EcoPro HN

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Date of Establishment Date of Listing CEO Employee Status **Business** Area

May 3, 2021 May 28, 2021 Kim Jong-seop 309 persons Environmental business integrated with solutions for environment diagnosis, material design and maintenance



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#### **Clean Room Chemical Filter I**

#### Market Trend

- Installation area doubled owing to process precision and enhancement
- Constant demand for new filters
- New items that require quick replacements (for equipment, VOC control. etc.)

#### **Global Semiconductor Sales Forecast**

• Downturn in cumulative sales (USD 203 billion) for 4 years owing to the COVID-19 pandemic

#### Billions of Dollars and Revenue Growth



**Business Trend** 

#### Source : Semiconductor Forecast Database, Worldwide, 2020 Update

USD 423.1 billion

2030

Source : OMDIA, KIET

• Samsung Electronics: Increased new lines in Pyeongtaek and

• SK hynix: New installations in Icheon and Cheongju, Republic

System Semiconductor

• Mass-produced in a large variety, which is the key to the Fourth Industrial

- Large company (foundry) production is segmented, creating a stable

• As a relatively newcomer, we lack competitiveness in the system

➡ Its market size is more than twice of the memory semiconductor

• Mainly designed by SMEs (fabless semiconductor companies)

Revolution (AI, IoT, etc.) and industrial convergence

market focused on customized production

USD 269.5 billion USD 287.1 billion

4

2021

semiconductor area.

4

2020

of Korea and Wuxi, China, and planning to invest in Yongin

Hwaseong, Republic of Korea and Xian, China

Semiconductor Cluster (KRW 120 trillion)

#### **Clean Room Chemical Filter II**

### Semiconductor Market Trend

#### Memory Semiconductor

- Mass-produced in a small variety that needs advanced production technologies and equipment investment
- ➡ In most cases, larges companies are fully in charge from product design to production.
- Samsung Electronics and SK hynix are major companies in Korea that keeps the crown in the global memory semiconductor market, but the market is somewhat unstable because of fluctuations seen in the business condition.



#### Clean Room Chemical Filter III

- A range of chemical pollutants such as harmful substances (VOCs, HN3 and acid) in the clean room may cause a drop in yield and they are harmful to the human body.
- Depending on the type, it is installed on each clean room part to remove various harmful substances, and it may be designed to eliminate new harmful substances
- Its application may be expanded, for instance to a filter preventing errors generated upon analyses of harmful gas.

#### Technology-based Total Solution Business Model

- Offers a customized total solution ranging from material development to fabrication, assembly and installation (\*the only one in Korea)
- Highly efficient in eliminating harmful substances and demonstrates a longer life span when compared to those of other companies; holds over 60 different patents



USD 317.8 billion

2025

EFU: Equipment Filter / FFU : Fan Filter / OAC : Out Air Handling Filter / SENSOR : Noise Filter / ANALYZER : For analyzer non-drive end



#### **Fine Dust Reduction Solution I**

#### **Energy Saving System**

Energy-saving with the Microwave (MW) technology and offering an optimized solution suitable for environment-friendly management



The MW technology is applied to directly heat a given target. Unlike the method of heating air and delivering heat, it increases the temperature quickly, saving time and reducing energy consumption. (Energy efficiency of over 30% compared to the existing technology.)

#### Fine Dust Reduction Solution II

**Energy Saving System** 

## MW-V0Cs



• It treats and handles VOCs generated in shipyards, automobiles, semiconductor and paint manufacturing facilities.





Started with the system to eliminate VOCs, the technology expanded into microwave application. Its business area now includes the entire industry, including petrochemicals, secondary cells, electronics materials and pharmaceuticals.



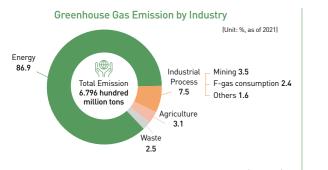
#### **Greenhouse Gas Mitigation Solution I**

#### A new paradigm called 'Paris Agreement'

The Paris Climate Change Accord states that temperature rise owing to global warming should be controlled so that the temperature rises no more than 2°C when compared to that before the industrialization and does not exceed 1.5°C. The countries that agree to the accord are reinforcing regulations to reduce greenhouse gas emission.



#### Greenhouse Gas Emission by Industry & Quantified Emission Limitation and Reduction Objectives (QELROs)





Source: Press Release from the Ministry of Environment (2022, 6, 28.)

#### **Greenhouse Gas Mitigation Solution II**

#### Offering the world-class technologies for greenhouse gas emission

Since 2009, we have commercialized the world's best large-volume equipment applied for greenhouse gas mitigation, and are expanding the business areas as we enter overseas and CER markets based on our business performance in the related field.

RCS (Regenerative Catalytic System) for PFC Treatment			Business & Production Information	
	Energy saving	Saves energy with catalytic reaction when compared with equipment for pyrolysis		Greenhouse gas mitigation SDM(Sustainable Development Mechanism)
	Energy Heat recovery efficiency 95% or above		Applicable Area	Semiconductor and display manufacturing (PFC removal) Chemical industries such as nitrogen plants (N <sub>2</sub> O removal)
	Excellent corrosion resistance	The material quality suitable for corrosive gas such as HF	Main Products	RCS POU Scrubber (Plasma & Catalysis) Catalyst (PFC, N <sub>2</sub> O, SF <sub>6</sub> , NF <sub>3</sub> , etc.)

#### **Environmental Catalysis**

Selective removal of various harmful gases which are the causes of environmental pollution

#### 1. Absorbent

Various absorbents applied to a wide range of areas ranging from We have catalysts for greenhouse gas mitigation and improvement industrial facilities to households, vehicles, clean filters and gas of atmospheric environment, offering optimized solutions to meet masks are used for physical/chemical absorption, which selectively our customers' requirements. removes harmful gases.

#### Product Information

#### ECOSORB IAC-130



It absorbs harmful gases from atmosphere, industrial site exhausts, laboratory hoods, etc.

#### ECOSORB IAC-900



It adsorbs various organic gases (VOCs) from the process of handling paint, the process of using glue, the semiconductor using organic solvents, the display process, and the laboratory experimenting with them.

#### ECOSORB IAC-100



It removes all kinds of odor-causing gases from public operating facilities and industrial sites such as food waste, water purification, sewage, and wastewater treatment plants.

#### ECOSORB IAC-139



It removes 22 types of offensive odor substances, including acidic, basic and aldehyde-containing gases, sulfur compound gas and volatile organic compound gas.

#### ECOSORB IAC-1390



It absorbs and removes various acidic and toxic gases from semiconductor process and waste gases.

#### 2. Catalyst

#### Product Information

#### PFC Decomposition Catalyst



Our catalyst is a specialized product that shows 99% removal efficiency at temperatures below 750°C with PFC catalyst that derives low-temperature oxidation.

#### VOCs Oxidation Catalyst



VOCs generated in various industries such as paint, adhesion, and coating processes are oxidized from low to high temperature to efficiently eliminate them.

#### CO Catalyst



It removes carbon monoxide (CO) generated at industrial sites, during semiconductor process and in daily lives at room temperature through catalytic oxidation reactions.

#### Composite Odor Catalyst



It decomposes complex odor gases such as high concentrations of sulfur compounds, aldehydes, lowgrade fatty acids, and ammonia at low and medium temperatures (80-400℃) in public treatment facilities and bio-gasification facilities, mitigating odor through catalytic oxidation.



It removes nitrogen oxides which are air pollutants at a broad temperature range (from low to high temperature) with high removal efficiency.



## **ECOPRO MATERIALS**



In 2017, EcoPro Materials was founded to secure a stable supply chain of precursors for EcoPro BM. It is the first company in Korea to mass produce precursors for high-volume, high-nickel cathode materials, retaining the highest production capabilities in the nation when it comes to precursors. Since 2021, EcoPro Materials has been refining and manufacturing nickel and cobalt metals which are ingredients for precursors, consolidating the identity of EcoPro that it is the company specializing in secondary cell materials.

We are still relying on China to procure secondary cell materials and components, but it is important to build a domestic supply chain as we are now facing desinicisation. In this situation, EcoPro Materials plays a critical role in strengthening competitiveness of the domestic secondary cell ecosystem. Currently, EcoPro Materials is capable of producing 50,000 tons of precursors a year at Pohang Campus and is planning to expand its production capacity to 200,000 tons a year by 2026 with ceaseless investment.

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Date of Establishment CEO Employee Status **Business Area** 

April 26, 2017 Kim Byong-hun 481 persons R&D and production of precursors for cathode materials



www.ecopromaterials.com 15, Yeongilmansandan-ro 75beon-gil, Heunghaeeup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea







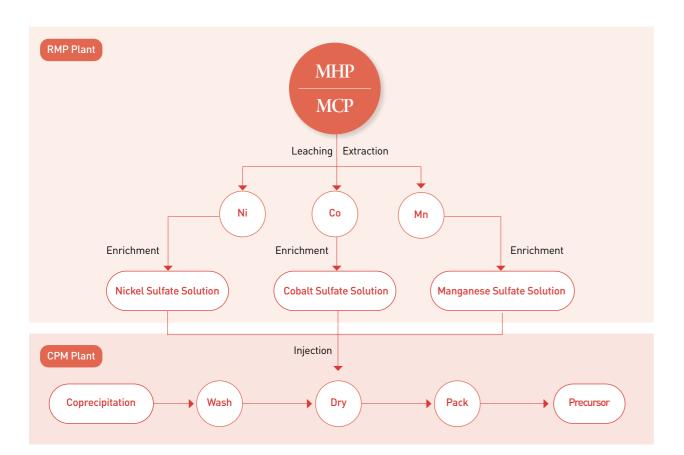
#### **Materials Process**

RMP (Raw Material nickel and cobalt as mixed hydroxide Precipitate) Plant

- MHP (Mixed Hydroxide Precipitate of nickel and cobalt), MCP (Metal Composite Precipitate)
- Secures the precursor price competitiveness by producing sulfuric acid solution for metal and using it as the ingredient of CPM.

#### CPM (Cathode Precursor Material) Plant

- Produces cost-competitive precursors by diversifying ingredients at RMP Plant
- Retains a technology to synthesize CSG (Core-Shell Gradient) precursors



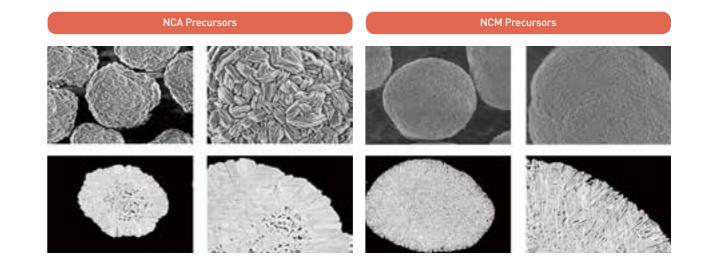
#### Precursor

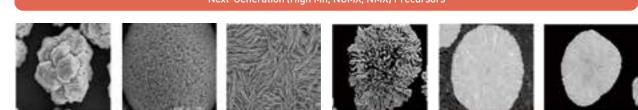
#### Precursor

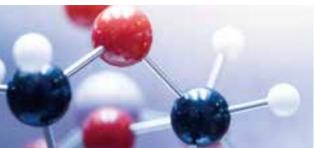
Precursor is a core material for cathode active material production which determines high-volume and long lifespan features.

We are developing precursors of the next-generation along with high-nickel NCA and NCM precursors.









#### Next-Generation (High Mn, NCMX, NMX) Precursors



**ECOPRO** EM

Ecopro EM

EcoPro EM is a joint venture established between EcoPro BM and Samsung SDI. It has built a mass production system for NCA series, which are highnickel cathode materials. As the leader of Korea's battery business for the next-generation, EcoPro EM produces core materials with fundamental and new growth technologies based on potential growth of lithium ion secondary cells applicable to electric vehicles (EV) and power tools (P/T). In October, 2021, CAM 6 (the sixth factory for cathode active materials) that is capable of producing 36,000 tons a year was built and high-nickel NCA products are mass-produced at CAM 6 as of 2023. Completed in 2022, CAM 7 (the seventh factory for cathode active materials) is capable of producing 54,000 tons a year, which is the largest cathode material producing company in Korea, and is striving to secure price competitiveness.

Financial Status 2022 Annual Report





Date of Establishment CEO Employee Status **Business** Area

February 17, 2020 Park Jong-hwan 396 persons Mass production of high-nickel cathode materials



www.ecopro.co.kr/sub01030206 110, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea



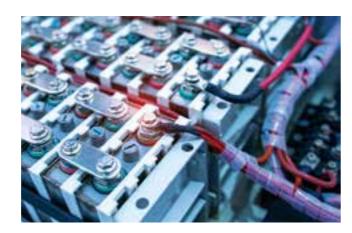




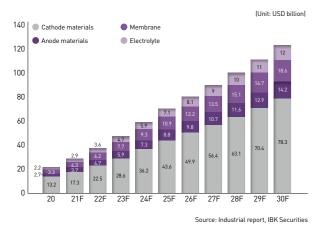
#### **Cathode Materials**

#### **Cathode Materials**

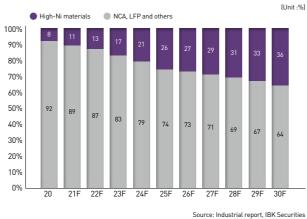
Thanks to the steady growth of power tool markets and drastic EV market expansion, we are witnessing a rapid increase in demand for high-energy and high-density cathode materials. Accordingly, the interest in and demand for high-nickel cathode materials are rapidly soaring.



#### Global Material Market (increase in the importance of cathode materials)



#### Prospect by Cathode Material Type (Increase in the share of high-nickel cathode materials)



#### NCA

#### NCA

As the only Ni-rich, high-end material in Korea, NCA retains the highest reversible capacity among the existing LiB cathode materials. We are capable of mass-producing NCAs through NCA modeling according to the customer's requirements. In addition to this, we have invested in single crystal production at CAM 7 to minimize particle cracks that may be generated when forming electrodes, which is apparently the limitation of the existing polycrystal cathode materials. We are preparing to manufacture quality products with improved charging/discharging efficiency and extended battery life.

#### Single Crystal

• As a material with maximized energy density, it does not break or damage during cell processing with no reaction to external stimuli.

#### Advantages

- Long life span
- Less gas and increased thermal stability
- Increase in density of mixture  $\rightarrow$  increase in volume

#### Polycrystal vs. Single Crystal Cathode Materials

Туре	Polycrystal
Volume	Low
Stability	Low (much gas emission)
Life Span	Short
Shape	

#### Disadvantages

- Rise in firing temperature resulting in increased processing expenses
- Increase in the degree of hardening
- More difficult to carry out the disintegration process

#### Single Crystal

High (About 30% higher when compared to Polycrystal)

#### High (little gas emission)

Long



a Company Specializing in Lithium Material Production

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## **ECOPRO INNOVATION**





Owing to the drastic growth of electric vehicle market, the market of lithium which is the core material for lithium batteries is expanding. However, we are still relying entirely on foreign imports.

EcoPro Innovation has developed technologies for producing and processing lithium compounds, the core materials for lithium batteries, and secured a value chain for the batteries.

EcoPro Innovation is responsible for crushing and drying of ultra-pure carbonate and lithium hydroxide that is currently used in EcoPro BM and other subsidiaries as well as manufacturing and supplying lithium nickel oxide, an electrode additive. It has completed the process technology to produce materials ranging from lowpurity lithium to battery-grade lithium hydroxide. Also, EcoPro Innovation has secured lithium resources, a key ingredient of the Fourth Industrial Revolution, and is working on to develop a technology to recycle waste lithium.

Financial Status 2022 Annual Report

S Corporate Asset KRW 589.6 billion



Date of Establishment CEO **Employee Status Business Area** 

July 21, 2005 Kim Yoon-tae 224 persons Lithium hydroxide conversion, lithium recycling and lithium crushing



www.ecopro.co.kr/sub01030204 74, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea 587-40 Gwahaksaneop 2-ro (Songdae-ri 311-1], Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 28116, Republic of Korea









#### **Business Area**

LiOH, Lithium Hydroxide	SLC, Specialized Li Chemicals
<ul> <li>Battery-Grade Lithium Hydroxide Production</li> <li>Producing lithium hydroxide from salt, minerals and recycled materials</li> <li>Mass production: Mid-October, 2021</li> <li>Production capacity: 13,000TPA</li> </ul>	<ul> <li>Specialized lithium chemicals applied with EcoPro Innovation's original technologies</li> <li>Lithium Lithium Lithium Hydroxide Carbonate Nickel Oxide</li> </ul>

### Specialized Carbonate Lithium (Li<sub>2</sub>CO<sub>3</sub>)

battery life



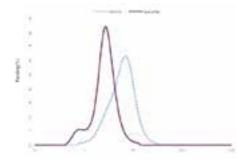
- Particle-stabilized additive • Complete control of particle size
- Thorough moisture management to improve

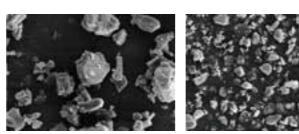
• (Magnetic) impurity control for safety

Application Additive for lithium-ion battery ☑ Cathode material electrode coating material

#### Specification

Product Moisture		Particle Size D50	Particle Size D90
General Li <sub>2</sub> CO <sub>3</sub>	< 5,000 ppm	5.83	11.24
Specialized Li <sub>2</sub> CO <sub>3</sub>	< 750 ppm	2.55	4.49





General Li<sub>2</sub>CO<sub>3</sub>



Specialized  $Li_2CO_3$ 

### Specialized Lithium Hydroxide (LiOH H<sub>2</sub>O)

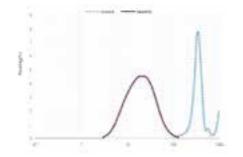


#### Optimized lithium hydroxide for cathode active materials

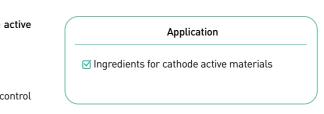
- Complete control of particle size
- Maximized solid state reaction
- Ideal (magnetic) impurity and moisture control for stability of cathode active materials

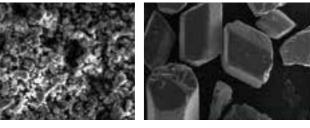
#### Specification

Product	Moisture	Particle Size D50	Particle Size D90
General LiOH	>99.5 %	350	270
Specialized LiOH	>99.8 %	18.2	43.8





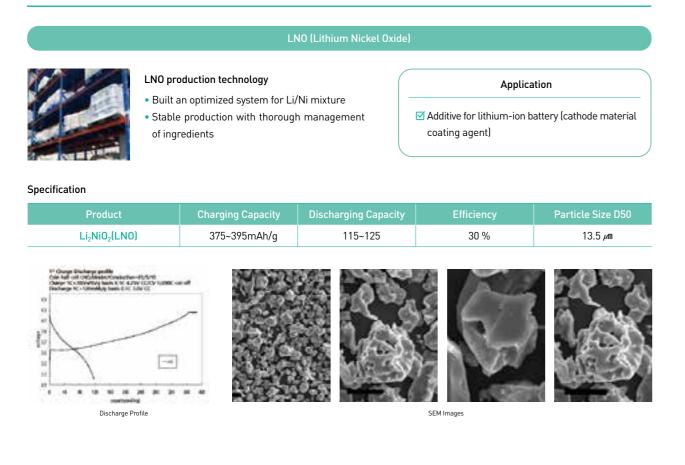




General LiOH

Specialized LiOH

### LNO (Lithium Nickel Oxide)



#### Lithium Hydroxide Production Facility (Pilot)



#### Completed in 2019

- Production capacity: 200ton LH/year
- High-purity lithium hydroxide: 99.8%
- High recovery ratio: 99%
- EcoPro BM completes cell testing of pilot products

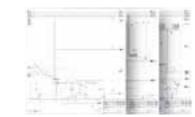
#### In-process test

- Secures data for LHM mass-production plant design
- High recovery ratio: ≥ 95%

#### Basic design

• Process equipment design and CAPEX/OPEX estimation







### Lithium Hydroxide Production Facility (Commercial)

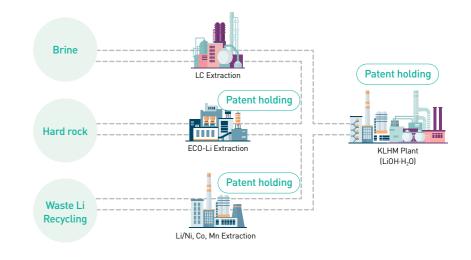
LHM Mass Pr



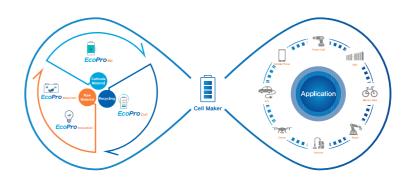
### **EcoPro Innovation Technology**

#### Spodumene-ECO-Li Extraction

- Acid use unnecessary (acid free)
- Less waste water generation
- Reduced energy cost



#### **Closed-Loop Recycling System**



Eco-friendly solution in response to the EV battery market growth
<ul> <li>Produces high-purity lithium hydroxide</li> </ul>
Purity 99%, battery-grade lithium hydroxide
<ul> <li>Applies ESG process - Recycling water used in the</li> </ul>
process, using environment-friendly materials, and low environmental impact
<ul> <li>Verifies the process through pilot operation - Possibility</li> </ul>
of expansion with the secured cost competitiveness

#### Competitive LiOH production process

- Various ingredients applicable Salt, ore (Spodumene), waste battery, etc.
- High-purity LiOH·H20 99.5%
- No waste generated

Recycling process applicable

- Built an ecosystem of cathode active materials for secondary cells
- Secured the most efficient closed-loop system around the world

#### a Battery Recycling Company

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## **ECOPRO** CNG



EcoPro CnG is a global battery recycling company that leads environmental conservation and natural resource circulation as it retrieves not only waste batteries, but also battery scrap and valuable metal. We extract and recover valuable metal such as lithium, nickel and cobalt which are core ingredients of cathode active materials for lithium-ion batteries from waste batteries and scrap to produce lithium compounds and composites of nickel/cobalt/ manganese oxide that are the ingredient of precursors.

Zao Pro cnG

Valuable metal we collected from recycling is supplied to EcoPro subsidiaries and partners through the Closed-Loop System built in Yeongilman Industrial Complex, Pohang for final cathode material production, which contributes to securing cost competitiveness of secondary battery cathode materials.

#### Financial Status 2022 Annual Report





Date of Establishment CEO **Employee Status Business Area** 

March 10, 2020 Park Seok-hoe 142 persons Waste battery recycling



www.ecopro.co.kr/sub01010506 3, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea









#### **BRP Manufacturing Process**

#### BRP process (Battery Recycling Plant)

• Dry process: Producing black powder with scrap or waster batteries generated in the secondary battery manufacturing process

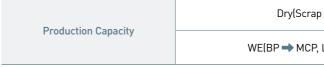
• Wet process: Producing MCP (Metal Composite Precipitate) and LS (Lithium Sulfate) with black powder produced in the dry process

#### High Value-Added Recycling Technology

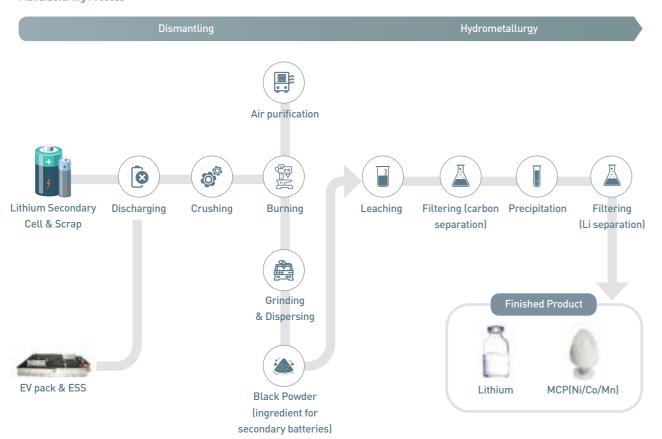
• Building a closed-loop recycling ecosystem

• Possible to recover metal from waste batteries

#### **Production Capacity**



#### Manufacturing Process



### Finished Product



- High recovery ratio of more than 95% (Li, Ni, Co and Mn)
- Possible to produce 16g/L of highly concentrated lithium solution

WE(BP → MCP, LSS) 12,000t/year (based on cathode active materials)



a Company Specializing in High-Purity Oxygen, Nitrogen and **Argon Production** 

(08)

## **ECOPRO** AP

### 

EcoPro AP, established to supply high-purity oxygen and nitrogen needed for production of high-nickel cathode active materials and precursors started its mass production in November, 2021. ASU (Air Separation Unit) Plant is the first in Korea that was built only with domestic capital and technologies that is in operation for mass production.

EcoPr

EcoPro

As of 2023, EcoPro AP has been supplying oxygen and nitrogen, and producing high-purity argon for our subsidiaries including EcoPro BM and EcoPro EM located in Eco Battery Pohang Campus.

#### Financial Status 2022 Annual Report

**THREE** 

NAMES OF TAXABLE PARTY.

STREET, STREET

XIS3





Date of Establishment CEO Employee Status **Business** Area Product

November 12, 2019 Huh Tae-kyung 26 persons Industrial gas production High-purity oxygen, nitrogen and argon



www.ecopro.co.kr/sub01030205 39, Yeongilmansandan-ro 37bec eup, Buk-gu, Pohang-si, Gye 39, Yeongilmansandan-ro 37beon-gil, Heunghaeeup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea









(09)

Financial Status 2022 Annual Report / Former Isquare Ventures



Ecologistics Date of Establishment April 1, 2021 CEO **Employee Status** 

**Business Area** 

Kang Sung-in 3 persons Logistics services

Founded in July 2020, Ecopro Partners is a venture capital firm playing a key part in creating a venture ecosystem of virtuous cycle. It invests in promising venture companies in the business field of environment, energy and other materials.

Ecopro Partners aims to vitalize the environment for startup businesses in Korea, improve the value chain of EcoPro Group and encourage new business.

EcoPro Partners

Date of Establishment July 20, 2020 CE0 **Employee Status Business Area** 

Lee Jae-hun 7 persons Promising venture company investment, value enhancement and networking within the environment, energy and other material industries

(Head Office) Chungbuk SW Convergence Cluster No. 405, 97, Gagni 1-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea (Branch) 12F Geumsung Building, 314, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea



www.ecopro-partners.com

a Company Offering Logistics Services **ECO** LOGISTICS

(10)

2nd Floor, 14, 2sandan 1-ro, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea



Financial Status 2022 Annual Report



Eco Logistics offers container transport services for EcoPro subsidiaries in relation to import/export of ingredients/materials and finished goods required for production, supports them with a range of vehicles for logistics, encourages optimization of logistics services (an immediate action taken in response to emergent situations), and provides transport vehicles for partners in Korea (including vehicles for harmful chemicals).

We will continuously provide our subsidiaries with improved logistics services in response to gradually improving corporate capabilities, changes we face in this era and industrial development. We will do our best so that we play an important role in development of the Group by offering logistics services for efficient operation.

## in Overseas Business **ECOPRO GLOBAL**

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a Company Specializing

**EcoPro** Global

Date of Establishment CEO **Employee Status Business Area** 

September 8, 2021 Kim Jang-woo 11 persons Support overseas businesses of the EcoPro Group subsidiaries

Financial Status 2022 Annual Report



Founded in September 2021 as the subsidiary of EcoPro BM, EcoPro Global is playing an important role as a control tower of the Group to support EcoPro BM and the subsidiaries to enter global markets. EcoPro Global aims to expand the domestic ecosystem of cathode active materials to Europe and North America with local NCA, NCM and recycling bases, to strengthen partnership with local clients and to achieve a quick and stable growth of the global battery material business.

### EcoPro, Venturing into the World







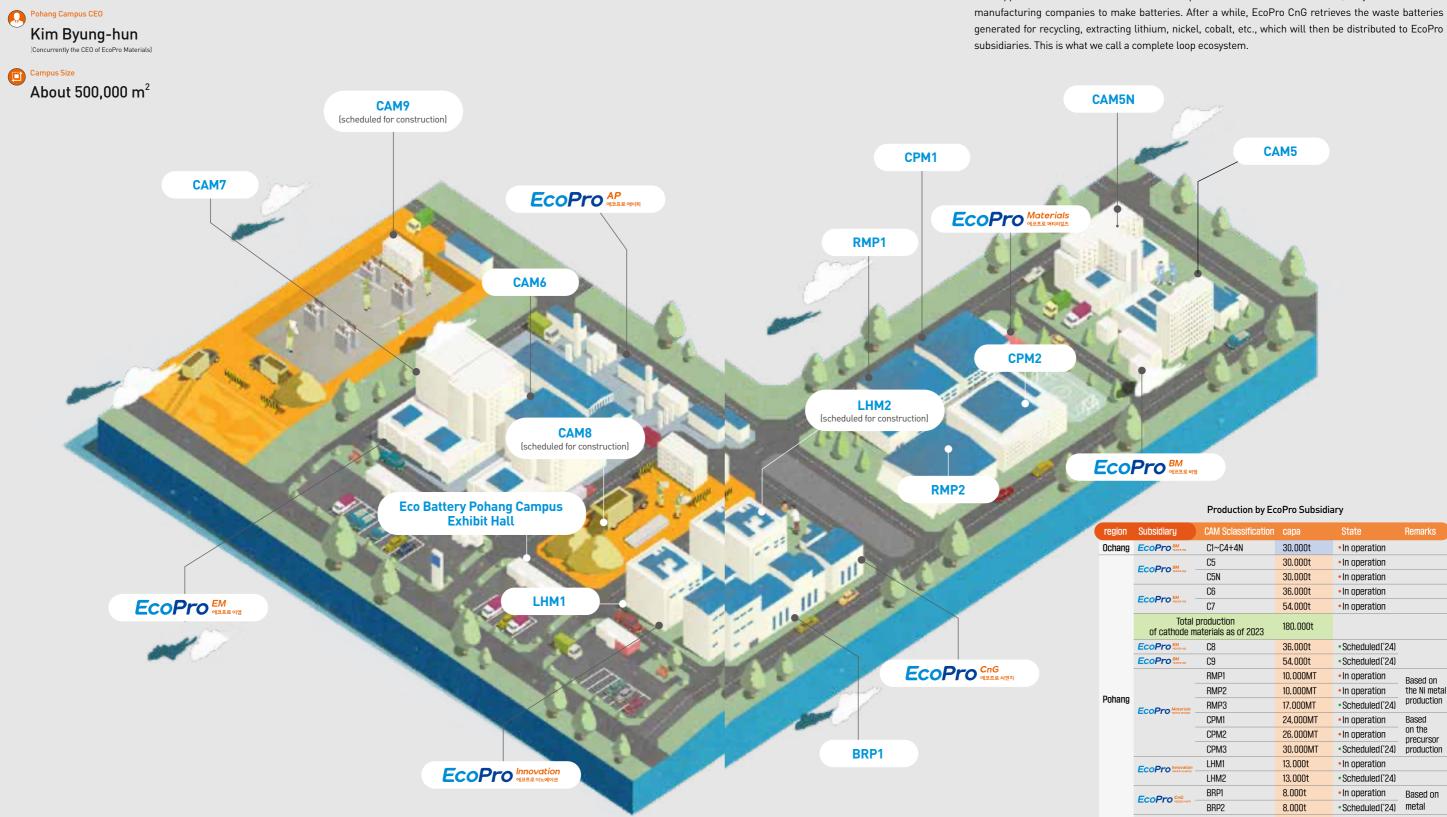




Eco Battery Pohang Campus BM(CAM5~7), EM, Mat, Inno, AP, CnG



## **ECO BATTERY POHANG CAMPUS**



46

EcoPro started EcoPro Materials in 2018 at the industrial complex in Yeongil Bay, Pohang and added EcoPro Innovation and EcoPro AP in October, 2022, finally creating a complete ecosystem for battery cathode materials and named it 'Eco Battery Pohang Campus.' It is the only value chain in Korea for cathode materials that EcoPro has built which is called 'Closed Loop Eco-System.' Lithium hydroxide (EcoPro Innovation), precursors (EcoPro Materials), high-purity oxygen and nitrogen (EcoPro AP) are supplied to EcoPro BM and EcoPro EM to produce cathode materials. Then, they are delivered to manufacturing companies to make batteries. After a while, EcoPro CnG retrieves the waste batteries

Subsidiary	CAM Sclassification	сара	State	Remarks
EcoPro BM	C1~C4+4N	30,000t	<ul> <li>In operation</li> </ul>	
EcoPro Man	C5	30,000t	<ul> <li>In operation</li> </ul>	
ECOPTO Canada -	C5N	30,000t	<ul> <li>In operation</li> </ul>	
EcoPro EM	C6	36,000t	<ul> <li>In operation</li> </ul>	
ECOPIO CELLE ON	C7	54,000t	<ul> <li>In operation</li> </ul>	
	production aterials as of 2023	180,000t		
EcoPro EM	C8	36,000t	<ul> <li>Scheduled ('24)</li> </ul>	
EcoPro BM	C9	54,000t	<ul> <li>Scheduled ('24)</li> </ul>	
EcoPro Materials -	RMP1	10,000MT	<ul> <li>In operation</li> </ul>	Based on the Ni metal production
	RMP2	10,000MT	<ul> <li>In operation</li> </ul>	
	RMP3	17,000MT	<ul> <li>Scheduled ('24)</li> </ul>	
	CPM1	24,000MT	<ul> <li>In operation</li> </ul>	Based
	CPM2	26,000MT	<ul> <li>In operation</li> </ul>	on the precursor
	CPM3	30,000MT	• Scheduled ('24)	production
EcoPro Innovation	LHM1	13,000t	<ul> <li>In operation</li> </ul>	
	LHM2	13,000t	<ul> <li>Scheduled ('24)</li> </ul>	
EcoPro Cng	BRP1	8,000t	<ul> <li>In operation</li> </ul>	Based on
	BRP2	8,000t	• Scheduled ('24)	metal
EcoPro AP	ASU Plant1	12,000Nm³/h	<ul> <li>In operation</li> </ul>	Based on
	ASU Plant2	12,000Nm³/h	<ul> <li>Scheduled ('24)</li> </ul>	oxygen

Social Contribution

### The Company Co-Existing with the Community through Sharing

EcoPro has been conducting various social contribution activities for rehabilitation centers, childcare centers and families who are being left out based on the corporate philosophy, 'Co-Existing with the Community through Sharing' since its establishment.

We are doing our utmost to fulfill not only corporate responsibilities, but also contribute to the regional economy development, including creating jobs and building a sports environment for the physically-challenged, that is to organize a sports team in 2019, the largest team for the physicallychallenged in Korea.



2022 About About 1,100 items 800 items Participating employees Participating Ň Participating emplovees 40persons 60persons

Campaign for Donations in Kind



Supporting the university clubs for making electric vehicles

Result of the Social Contribution Activities 2021 2022



Result of the Social Contribution Activities



Donating 1% of the year-end monthly

wage



Organized Onnuri Sports Team, the first sports team for the physically-challenged in Korea

Result of the Social Contribution Activities



2020 Participating children 150persons

'Eco From Earth,' outreach activities for environmental education



Result of the Social Contribution Activities

Local gift certificates KRW 1.5 hundred million

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Campaign to vitalize the local area affected by the COVID-19 pandemic



	Direction for social contribution activities	Status of social contribution activities
Children/ Teenagers	Fostering future talent	Organizing work experience programs, installing fine dust status display boards, donating books, supporting community childcare centers and holding drawing contests for children
Young adults	Support for dream realization	Implementing scholarship programs, supporting university clubs for building electric vehicles and organizing EcoPro Volunteers
Environment improvement	Actions against climate changes	Eco-walking, environmental cleanup and environmental education
o Physically/ Mentally- disabled	Raising public awareness and creating jobs	Operating a sports team for the physically-challenged
Community	Shared growth through active exchanges	Supporting the underprivileged with medical expenses, conducting activities to improve the residential environment, delivering side dishes and offering meals, making kimchi, providing and delivering coal briquettes, supporting nursing homes/welfare centers, conducting Mother

Box campaigns, etc.



Walking Campaign: Number of Steps Challenge



Book donation



Making Kimchi



'Mother Box' support service to cope with low birth rate



'Eco Bridge,' EcoPro Volunteers of University Students



Drawing contest for children at the local festival

**Result of the Social Contribution Activities** 



Result of the Social Contribution Activities

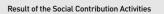


Result of the Social Contribution Activities



Result of the Social Contribution Activities







**Result of the Social Contribution Activities** 



#### EcoPro, Sharing Growth with the Community in 2022



Donation to restore damages caused by the typhoon  $\operatorname{EcoPro}$  donated KRW 10 billion to Pohang-si to aid recovery from the typhoon.



Received a plaque of appreciation from the Korea Paralympic Committee CEO Lee Dong-chae received a plaque of appreciation recognized for organizing Onnuri Sports Team and developing sports for the physically-challenged.



Selected as the company recognized for community contribution according to the Community Contribution Recognition System  $\operatorname{EcoPro}\nolimits$  was chosen as the company recognized for community contribution for 4 consecutive years, the first in Chungcheongbuk-do.



EcoPro, received an award for its social contribution activities EcoPro received Pohang Mayor's Award at the Pohang City Volunteer Competition.



Donated food boxes for the vulnerable social group in Cheongju-si

유사기 불풍 무원 🖽

Provided daily necessities for elderly people enduring



Delivered meals/lunch boxes for the vulnerable social group in Cheongju-si



Donated 2,400 traffic safety articles for elementary school students in Pohang-si



Sponsored Cheongju-si Cleaning Application, 'Time to . Throw Away'



Volunteering activities to paint murals in rural areas



Held Eco-Friendly Idea Contest for university students



Delivered cool mats for 100 low-income elderly households in Cheongju-si



Supported park creation by donating a pergola and 300 pine trees

Sharing & Growth



Supported installation of fine dust display boards as part of the safe environment promotion project for children

the hot weather



Volunteer activities of making masks to prevent COVID-19 infections



Volunteer activities of delivering coal briquette



Volunteer activities for the river project with love for earth and water



Celebrated the 3rd anniversary of EcoPro Onnuri Sports Team



Delivered Children's Day gifts



Volunteer activities of house repairs for local residents



EcoPro, participated in the community environmental cleanup activities



Held an agreement ceremony to promote cooperation in creating a park of sharing and growth



Donations and tree planting volunteer activities at the park



Delivered learning packages for creativity to support the community childcare centers

## Everyday Everywhere

Challenge, Trust and Innovation will create New Future.

#### ECOPRO (T. 043-240-7700)

587-40 Gwahaksaneop 2-ro (Songdae-ri 311-1), Ochangeup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 28116, Republic of Korea

#### ECOPRO BM

100 2 Sandan-ro (Songdae-ri 329), Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 28117, Republic of Korea

### 587-40 Gwahaksaneop 2-ro (Songdae-ri 311-1), Ochangeup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, 28116, Republic of Korea

ECOPRO CNG

Korea

ECOPRO EM

### EcoPro Group Brochure

100 2 Sandan-ro, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Kore

Photo: Eco Battery Pohang Campus

### Publication Date March 30, 2023 Publication Team EcoPro CSR Team

FCOPRO HN

I/Print Dae Tong Planning Co., Ltd. T. 02-2269-3613



#### ECOPRO MATERIALS

15, Yeongilmansandan-ro 75beon-gil, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of

110, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea

#### ECOPRO INNOVATION

74, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea

3, Yeongilmansandan-ro, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea

#### ECOPRO AP

39, Yeongilmansandan-ro 37beon-gil, Heunghae-eup, Buk-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea

#### ECOPRO PARTNERS

Chungbuk SW Convergence Cluster No. 405, 97, Gagni 1-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

#### ECO LOGISTICS

2nd Floor, 14, 2sandan 1-ro, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

ECOPRO GLOBAL