

POSCO Affiliates

※ Selected as representative 17 group companies among affiliates based on the Fair Trade Act

POSCO INTERNATIONAL

www.poscointl.com

Beyond Trade, Pursuing FUTURE BUSINESS

Business Area _ Trade, resource development, infrastructure development and operation

*in 2020



History

- 1967 Founded as DAEWOO INDUSTRY Co., Ltd.
- 2000 Spun off DAEWOO INTERNATIONAL Corporation from the DAEWOO Corporation
- 2010 Incorporated into POSCO Group, surpassed KRW 15 trillion in sales
- 2017 Consolidated POSCO DAEWOO (Merged with POSCO P&S)
- 2019 Renamed POSCO INTERNATIONAL

“Globally integrated corporation” that creates the new future business

POSCO INTERNATIONAL is the no. 1 general trading corporation in Korea, with a global marketing competence and 80 global networks worldwide. It is engaged in international trade in steel, automobile components, agricultural products, and investment business, building a value chain from resources development to the construction of power plants.

Milestones

- 1983 Passed USD 500 million monthly export mark for the first time in Korea
- 2004 Discovered Myanmar A-1 offshore gas field / Reported sales over KRW 5 trillion
- 2011 Launched the palm oil plantation business in Indonesia
- 2013 Started Commercial Production at the Myanmar Gas Field
- 2017 Launched Rice Processing Complex in Myanmar
Completed the construction of Combined Cycle Power Plants (CCPP) in Talimarjan, Uzbekistan / Passed KRW 20 trillion mark in sales
- 2019 Completed the construction of a grain terminal in Ukraine (capacity 2.5 million ton per year)
- 2020 Won the A+ rating at the Excellent ESG Company Awards, hosted by Korea Corporate Governance Service, for the second consecutive year

POSCO E&C

www.poscoenc.com

Smart Player in Steel Construction & Concession

Business Area _ Steelworks, environment, energy plants and new town, skyscraper, SOC development

*in 2020



History

- 1994 Founded as POSCO Development Co., Ltd.
- 2002 Renamed POSCO Engineering & Construction Co., Ltd.
Announced The # (The Sharp) apartment brand
- 2003 Songdo International City project launched
- 2010 Company relocated to Songdo International City
- 2013 Reached USD 10 billion in Latin America sales
- 2017 Merged with POSCO Engineering Co., Ltd.
- 2020 Ranked 5th in construction capabilities in Korea

Building a Better Future with Smart Construction

POSCO E&C is based on a global top-tier steelwork plant technology with an expertise in building steel / environmental / energy plants, and is now growing into a global engineering and construction company through SOC projects and new town developments, skyscraper construction, and all other areas of construction across the world.

Milestones

- 2006 Won contract for Ventanas coal-fired power plant in Chile
(the first Korean construction company to enter Latin American market)
- 2013 Completed Krakatau Integrated Steel Plant (Indonesia)
- 2016 Completed Krakow Waste-to-Energy Plant (Poland)
- 2017 Completed CSP Integrated Steel Plant (Brazil)
- 2019 Completed the Haeundae LCT The Sharp project (Korea)
Won contract for the Sinansan line double track construction /
(Korea) Seobu Inland Expressway projects
- 2020 Completed the Yeouido Parc 1 Project (Korea)
Completed the Nampula-Nametil road construction project (Mozambique)
Started the Sinbanpo 21st reconstruction project

POSCO CHEMICAL

www.poscochemical.com

Global Chemical & Energy Materials Leader

Business Area _ Energy materials (cathode and anode materials), Refractories (production, furnace lining, repairs), chemical (lime, Coke)

*in 2020



History

- 1963 Founded Samhwa Hwasung Co., Ltd.
- 1971 Founded Pohang Industrial Furnace Co., Ltd.
- 2001 Renamed POSREC Co., Ltd., listed on KOSDAQ
- 2010 Renamed POSCO Chemtech Co., Ltd.
- 2019 Renamed POSCO CHEMICAL

A global leading company in chemical and energy materials

POSCO CHEMICAL creates market-leading products and services in chemical and material business, steadily establishing itself as Korea's foremost refractory and furnace lining company. Based on these achievements, the company is now branching into leadership in energy material business, including anode and cathode material production.

Milestones

- 2008 Commenced leasing operation of POSCO Lime business
- 2010 Acquired the anode material business / Entered the coal chemical business
- 2015 First commercial production of needle cokes
- 2019 Merger with POSCO ESM, group energy material business consolidated
Completed the 1st stage of Sejong Anode Plant 2 project
(annual production system of 44,000 tons)
- 2020 Completed the 2nd stage of Gwangyang Cathode Plant project
(annual production system of 40,000 tons)
Started the construction of artificial graphite anode material plant
Established the P&O Chemical (subsidiary specializing in Hydrogen Peroxide)

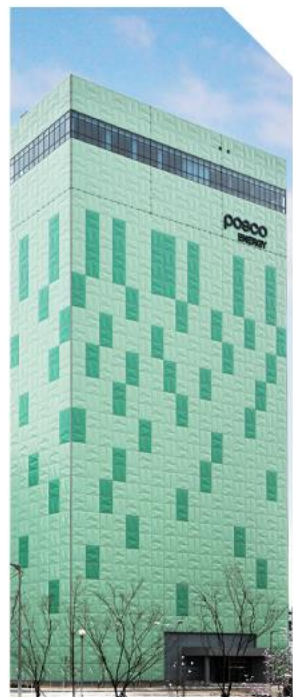
POSCO ENERGY

www.poscoenergy.com

Global Comprehensive Energy Company Focused on Gas & Power

Business Area _ Power generation, gas, new renewable energy, resource circulation

*in 2020



History

- 1969 Established Kyung-In Energy Development Co., Ltd.
- 2005 Renamed as POSCO POWER Co., Ltd.
- 2012 Renamed as POSCO ENERGY Co., Ltd.
- 2019 Launched new fuel cell corporation named "Korea Fuel Cell"
Started operations in Gwangyang LNG Terminal

Providing a cleaner energy for a brighter future

POSCO ENERGY has served as a provider of stable electric power to metropolitan areas for more than 50 years, becoming Korea's largest independent power producer through the operation of our off-gas combined cycle power plants as well as a coal-fired thermal power plant. We are further expanding into gas power businesses through the direct importation of LNG and smart solutions.

Milestones

- 1968 Became the first company to acquire private energy generation permit in Korea
- 2010 Completed Gwangyang Off-Gas Combined Cycle Power Plant
- 2011 Completed Units 5 and 6 at Incheon LNG Combined Cycle Power Plant
- 2013 Completed the construction of Busan Solid Refuse Fuel (SRF) Power Plant
- 2014 Completed the entire Shinan Photovoltaic Power Complex
Completed Tanchon Used Water Heat Energy Utilization Facility
- 2015 Completed Units 7,8 and 9 of Incheon LNG Combined Cycle Power Plant
- 2016 Recognized with presidential citation, "Government Award for Beloved Enterprise"
- 2019 Started operations in Gwangyang LNG Terminal

POSCO ICT

www.poscoict.com

Digital Transformation Leading Company

Business Area _ Smart factory, smart IT, EIC, industry convergence

*in 2020



History

- 1979 Established POSCON
- 1989 Established POSDATA
- 2010 Established POSCO ICT, a merged corporation of POSDATA and POSCON
- 2012 Awarded with grand prize at the 1st Korea Knowledge Award
- 2016 Developed Smart Factory platform “PosFrame”

Leading the Fourth Industrial Revolution with ICT

POSCO ICT leads in “smartization” efforts by applying premier technology such as IoT, big data, AI, and block chain to existing industries such as steel, construction, and energy. Its cooperation with POSCO on smart factory technologies resulted in the world's first successful attempt to integrate smart applications within the steel industry, which has formed the basis of the company’s entrance into the Smart Factory business.

Milestones

- 2013 Developed the world’s 1st BC-PC Integrated System for steelworks
- 2014 Established the Electronic Toll Collection System (Hi-Pass) for 16 highways nationwide
- 2017 Launched the Baggage Handling System (BHS) for Incheonn International Airport Terminal 2
- 2018 Commercialized AI-based interactive Smart Home system
- 2020 Cooperation agreement with Hyosung Group in the field of Smart Factory, supplied Smart Factory system for LS Nikko Copper
Selected for Hanjin Group’s Megahub Logistics Center project

SNNC

www.snnc.co.kr

The World's Best SNNC is a Global Leader in the Nickel Industry

Business Area _ Production and sales of ferronickel products and byproducts

*in 2020



History

- **2006** Established via POSCO-SMSP Joint Venture Agreement (JVA)
- **2008** Initiated the first tapping from the electric furnace No.1
- **2011** Signed the Investment Agreement on Construction of the 2nd Nickel Refining Facility
- **2014** Initiated the first tapping from the electric furnace No.2.
- **2015** Completed Ferronickel Plant No. 2

Lead the world's nickel industry with our technological excellence & knowledge!

SNNC is the proud owner of the world's largest electric furnace in single-unit production capacity and the emerging giant of global Fe-Ni manufacturing. As the first company in Korea to produce and manufacture Fe-Ni products, it is a contributor of the state's effort to secure strategic minerals.

Milestones

- 2008** Received Knowledge Economy Minister Commendation for the facilitation of free economic zone
- 2009** Reached normal production capacity only 11 months after completion
Received Prime Minister Award on "2009 Foreign Companies" Day
- 2014** Completion of Ferronickel Plant No. 2, increasing the ratio of domestic supply in nickel alloy
Received Strategy and Finance Minister Award on Taxpayer's Day
- 2019** Acquired Best Family Friendly Management Certification
Received Grand Prize in "POSCO Family Safety Awards" and "POSCO Family QSS Awards"

POSCO C&C

www.poscocnc.com

Steel Design Solution Global Top Company

Business Area _ Production of coated and colored steel

*in 2020



History

- 1988 Originally established as Pohang Coated Steel Co. Ltd.
- 2004 Completed No. 2 Plating CGL
- 2008 Renamed POSCO C&C
- 2018 Completed Premium CCL (No. 4)
- 2019 Completed PosART Factory

A distinguished steel design solution based on superlative coating technology

Originally formed as a coated steel manufacturer of galvanized and aluminized steel sheets in Pohang Steel Complex, POSCO C&C is one of the most well-regarded producers of zinc-coated, aluminum-coated, and colored steel products in the world.

Milestones

- 2002 Listed on stock exchange
- 2007 Reached a cumulative production of 10 million tons
- 2011 Awarded with the Export Tower Award for USD 400 million in export
- 2013 ALCOSTA product line certified by the Ministry of Trade, Industry and Energy as a Global Product of Excellence
- 2019 Developed fire-resistant colored steel
- 2020 POSCO antibacterial colored steel received Hohenstein Quality Label

POSCO M-TECH

www.poscomtech.com

Create New Value of Steel with Packaging and Materials

Business Area _ Steel product packaging, facility engineering, byproduct production

*in 2020



History

- 1973 Originally established as SAMJUNG Steel Company
- 2001 Renamed SAMJUNG P&A
- 2005 Officially joined POSCO Group as a subsidiary
- 2011 Renamed POSCO M-TECH Co., Ltd.

A happy company for workers, a dear partner for customers

Over the last 30 years, the company has advanced in all areas related to raw steel material supply and steel packaging for POSCO and overseas steel mills. Since then, it is expanding to material businesses as well. POSCO M-TECH creates a synergistic effect between steel industries and leads the resource recycling business of the group.

Milestones

- 1977 Completed the construction of aluminum plant (supplier of aluminum deoxidizer)
- 2007 The first company in Korean steelmaking to implement four-team double shift
Selected as “Company of Excellence in Labor Culture” by the Ministry of Labor
- 2009 Developed the first robotized strapping system in the world
(POSCO StrapMaster)
- 2016 Commencement of consignment operation for POSCO’s FeMn business

POSCO TERMINAL

www.poscoterminal.com

The Most Respected and Professional Logistics Company in North-East Asia
 Business Area _ CTS, loading, storage, unloading, and marine and inland transportation

*in 2020



History

- 1984 Started CTS business (POSCO)
- 2003 Established POSCO Terminal (joint venture between POSCO and Mitsui)
- 2005 Gwangyang CTS facility completed
- 2008 Expanded CTS business to Pohang
- 2018 Signed the 2nd joint venture contract

Delivering happiness for our customers

POSCO TERMINAL provides logistical services for delivering bulk cargo to customers via large vessels via Central Terminal System (CTS) bases in Gwangyang and Pohang, delivering coal and raw materials from international sites to Korea.

Milestones

- 2009 Awarded with the Export Tower Award for achieving USD 20 million in exports
- 2011 Awarded Grand Prize by Korea Financial Administration in Small Business Category
Acquired the ISO 14001 certification
- 2017 Reached 100 million ton of total sales volume /
Completed the construction of 4 Silos in Gwangyang
- 2018 Started the lease and operation of #7 berths from SNNC
- 2020 Acquired #7 berths from SNNC / Started the consignment operation of
CTS Loading Berth in Gwangyang

POSCO CAPITAL

www.poscocapital.com

We are the Best Financial Company

Business Area _ Venture/CVC

*in 2020



| History

- **1997** Originally established as POSTECH Technology Investment (Registered as a small business startup investment company)
- **2000** Launched Seoul Office (15th floor of West POSCO Center)
- **2004** Registered as a credit finance company in new technology financial business
- **2014** Renamed POSCO CAPITAL
- **2019** Awarded with New Technology Financial Business Excellent Investor citation

Finance which generates sustainable values

POSCO CAPITAL is a stable shareholder-based financial company focusing on new technology, composed of POSCO and POSTECH. It was founded to discover and foster promising new technology companies and venture companies to lead the future paradigm of innovation.

| Milestones

- 1999** Established 1st POSTECH Venture Fund Investment Association (KRW 9 billion)
- 2010** Established POSCO Family Strategy Fund (KRW 80 billion)
- 2015** Established Growth Ladder POSCO K-Growth Global Fund (KRW 66 billion)
- 2017** Established PCC Amberstone 1 Private Equity Fund (KRW 100 billion)
- 2019** Reached KRW 2.3 trillion in AUM, operating profit of KRW 47.7 billion

PNR

www.p-nr.com

Global Leading Company in Iron Waste Recycling

Business Area _ DRI/HBI/MP production and sales using by-products from iron manufacturing

*in 2020



History

- 2008 Established PNR Co. Ltd.
- 2012 Awarded with USD 10 million Export Tower award
- 2013 Recognized as Excellent Workplace for Risk Assessment
- 2015 Awarded with provincial governor’s citation for environment
- 2019 Recognized as a family-friendly enterprise

Global Leader for the recycling of wastes from iron manufacturing

PNR is a company growing into the leadership role in low-carbon green growth by recycling steelmaking byproducts into DRI, HBI, and MP products to be supplied to POSCO steelworks in Pohang and Gwangyang.

Milestones

- 2009 RHF plant completed in Pohang and Gwangyang
- 2011 Acquired the ISO 14001 certification (Environmental Management System)
- 2012 Acquired the ISO 9001 certification
- 2014 Awarded with the Excellence Award in POSCO Family Environmental Management Awards
- 2015 Acquired ILS certification and MP patents for RHF plants in Pohang and Gwangyang
- 2020 Pohang RHF plant awarded with Pohang mayor’s citation in Environmental Management

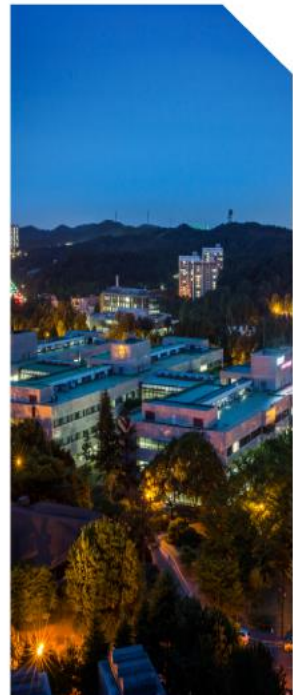
RIST (Research Institute of Industrial Science & Technology)

www.rist.re.kr

Future Technology Research Institute for Industrial Applications

Business Area _ R&D, analysis, evaluation

*in 2020



History

- **1987** Originally established as an industrial science and technological research center (fully funded by POSCO)
- **1995** Designated as the nation's first authority for internationally accredited test by KOLAS in the field of metals
- **1996** Renamed as Research Institute of Industrial Science & Technology (RIST)
- **1999** Selected as an operator of the Business Incubator Center (first case in private research sector) by the Small & Medium Business Administration
- **2007** Founded subsidiary RISTecBiz (1st company specializing in new technology startups)
- **2009** Declared vision of the world's top commercialization research institute
- **2017** Founded subsidiary RISTVENTURE (new technology startup)
- **2019** Established Particulate Matter Research Center
Established POSCO Group's Lithium-ion battery material research center

A research institute for innovative technologies, the leader of POSCO Group's growth, and the engine of national development

From environmental research in industrial utilization of carbon dioxide to slag recycling to renewable energy, smart grid, and other energy-related research, Research Institute of Industrial Science & Technology (RIST) is now concentrating its capabilities toward developing innovative technologies. It is also working on material research, such as lithium and Lithium-ion fuel cell materials.

Milestones

- 1990** Developed next-generation steel technologies, FINEX and Strip-Casting
- 1993** Developed variable nozzle-type air knife
- 2003** Developed Korea's first aseismatic reinforcing device
- 2008** Developed the world's first segment roll adjustment robot for casting plant & 5kW SOFC fuel cell stack production technology
- 2012** Developed Korea's first mass-production technology for high formability titanium sheet for plate heat exchanger (PHE)
- 2014** Applied the RIST's NFP to POSCO
- 2017** Commercialized the World's First Concentration Gradient NCM811 Cathode Material
- 2018** Sold subsidiary RISTecBiz to SIMPAC Holdings (KRW 16.2 billion)
- 2020** Implemented Ulleung-gun Sea Forest Establishment Project

POSCO RESEARCH INSTITUTE

www.posri.re.kr

Creative Think Leader in Steel and Beyond

Business Area _ Research in steel, industry, management, future growth, and corporate citizenship

*in 2020



History

- 1994 Established POSCO Research Institute
- 2012 Merged and acquired POMIC
- 2013 Established POSCO GROUP UNIVERSITY
- 2015 Separated POSCO GROUP UNIVERSITY's training innovation department
- 2015 Renamed as POSRI

POSRI delivers best research with its creative collective intelligence, contributing to the growth of POSCO Group and development of a society.

POSCO Research Institute (POSRI) is a research institute specialized in steel, business and other research areas, which conducts best research that leads the trend and future. With its capabilities for global-level research and consulting, POSRI delivers creative and practical research outcomes, contributing to the growth of POSCO Group and development of a society.

Milestones

- 2001 Founded POSRI management research journal
- 2006 Founded CHINDIA Journal
- 2007 Jointly hosted POSCO Asia Forum (with POSCO TJ Park Foundation)
- 2009 Ranked 8th out of 100 top think tanks in Korea
- 2012 Opened the POSCO Family information platform (GIH)
- 2016 Founded Asian Steel Watch journal

POSCO GROUP UNIVERSITY

<https://lp.posco.co.kr>

Fostering POSCO Group's Talent to Implement Corporate Citizenship

Business Area _ Establishing HRD strategy, talent promotion, field consulting, and safety training

*in 2020



History

- 1968 Installed the production training body
- 1969 Established the Steel Training Center
- 1974 Opened the job training facility
- 1993 Renamed to Talent Development Center
- 2010 Renamed to Future Creation Academy
- 2015 POSCO GROUP UNIVERSITY established as an incorporated entity Registered as vocational training and development center
- 2019 Registered as a lifelong education center

Promoting talents with a mindset of action, consideration, and creativity, capable of leading the future of POSCO Group and realizing the idea of corporate citizenship

POSCO GROUP UNIVERSITY was launched as a comprehensive human resources development organization that integrated all the educational functions of POSCO Group. It utilizes its HRD knowledge, accumulated from its beginnings as the group's Steel Training Center, to build group cohesion, leadership at all stages, and an organizational culture of trust.

Milestones

- 2004 Selected as a supervising organization for small and medium business consortium
- 2007 Awarded with the presidential citation for Job Training Development
- 2008 Selected as an organization of excellence in e-learning (for 6 consecutive years)
- 2015 Established an integrated talent promotion system for POSCO Group
- 2019 Established POSCO Group Corporate Citizenship projects, such as youth employment and startup support "Youth Dream Job (POSCO Youth Dream)" and cultural concert for community members
- 2021 Opened a new AI-based POSCO Group Learning Platform (LP) Expanded group affiliate and partner safety training

POSCO HUMANS

www.poscohumans.com

To realize self-supporting business environment

Business Area _ Office, IT, cleaning, and other supporting work

*in 2020



History

- 2007 Originally established as POSWITH
* A subsidiary-type standardized workplace for workers with disabilities
- 2009 Established Poseco Housing
* A social enterprise
- 2013 Launched POSCO HUMANS
* Merger between POSWITH and Poseco Housing
- 2021 Designated as a training organization for the improvement of public awareness on workers with disabilities in the workplace

Priority to the people, together with neighbors

This is the first corporate subsidiary in Korea established as a standard workplace for the employment of workers with disabilities, established. It offers employment for workers with various disabilities, from developmental to visual and hearing impairment, and promotes the competitiveness of its business areas from office work to cleaning, IT, and vehicle support.

Milestones

- 2009 Recognized with presidential citation for the promotion of vocational training for workers with disabilities
- 2012 Awarded with prime minister's citation for the promotion of vocational training for workers with disabilities
- 2013 Awarded with prime ministerial citation for excellence in gender equal employment
- 2014 Acquired family-friendly enterprise certification and awarded with ministerial citation for Gender Equality and Family
- 2016 Selected as a business of excellence for the employment of workers with disabilities *2nd consecutive year (October 2019)
- 2018 Awarded with presidential citation for job creation

POSCO RTECH

www.poscortech.com

Intellectual Property Total Solution Provider

Business Area _ Intellectual property services, technological information research, technological business consulting

*in 2020



History

- **2016** Established the patent business group (incubating group under POSCO GROUP UNIVERSITY)
Started handling patent services (Patent work for POSCO Group, patent training)
Started operating the patent consulting center and offering patent diagnosis for 13 group affiliates
- **2017** POSCO RTECH established as a corporation specializing in patents
- **2018** Started patent analysis and technology information research
- **2019** Started retention project for retired technical workers in POSCO
- **2020** Introduced R&D service Expanded technology information research business to encompass outside requests (introduction of technical advisor system)

A specialist for intellectual property total solution

As the intellectual property expert wing of POSCO Group, POSCO RTECH shares its expert insights with its customers through expert technological information research and analysis. It also maximizes the value of intellectual assets with intellectual property protection and patenting support services, positioning itself as a one-stop provider for intellectual asset management solutions.

Milestones

- 2016** Established the patent management system and reorganized policy and management structures
- 2017** Expanded the POSCO patent service, started patent training for POSCO affiliates
- 2018** Started preparatory survey activities for potential patent conflicts and patent issue consulting service for POSCO affiliates
- 2019** Opened “Again With POSCO” web page and started job matching services for retired POSCO workers
- 2020** Acquired Research and Development Service Company certification from the Ministry of Science and Technology Information and Communication
Strengthened business areas for technical information survey
Expanded group affiliate IP strategy support services & took part in government task for the domestic establishment of steel material component sector

Busan E&E

www.busanene.co.kr

Waste to Energy, Unlimited

Business Area _ Producing new renewable energy through waste resources

*in 2020



History

- 2009 Agreement signed between POSCO and Busan Metropolitan City
- 2010 Established Busan Environment & Energy (E&E)
- 2010 Started the construction of Busan Combined Heat and Power Plant
- 2013 Completed the Busan Combined Heat and Power Plant

Sustainable energy through green power generation technology

Busan Environment & Energy (Busan E&E) is Korea's largest combined heat and power plant that turns domestic waste, hitherto simply incinerated, as flammable solid fuel to generate electric power, heat, and alternative energy source for the community.

The company will continue to transform itself as the global no. 1 enterprise in utilization of waste products as energy source.

Milestones

- 2013 Started the commercial operation of Busan Combined Heat and Power Plant (900 ton, 24.8 MW)
- 2017 Started heat supply to Busan Waste Sludge Treatment Facility (95,904Gcal)
- 2020 Selected as a facility of excellence in waste treatment facility installation and operation assessment