Global Presence

For more than 60 years, Hanwha has grown steadily to become a leading global enterprise. Today, it has more than 85 affiliates in Korea alone and close to 380 locations around the world. As it continues its journey, Hanwha is expanding its capabilities and venturing toward new business opportunities.

The Americas

Since opening its first American office in 1982, Hanwha has rapidly expanded its presence in the Americas. It now has more than 35 affiliates located throughout Canada, Chile, Mexico, Peru, and the U.S.

Already the leading solar energy solutions provider in North America, Hanwha is building up its infrastructure holdings and expanding into the hydrogen-energy industry to become a recognizable regional supplier of green energy. It’s also a valued player in the North American...
Hanwha Q CELLS is a total energy solutions provider in solar cells and modules, energy storage, downstream project business, and energy retail with operations in Canada, Chile, and the U.S. The company is ranked No. 1 in the U.S. housing and commercial solar-module markets as of 2019. In Georgia, the company provided solar modules for a 102.5-MW solar farm that powers Facebook’s ninth data center. It also operates the largest solar-module plant in the Western Hemisphere as retail demand for renewable energy grows.

Hanwha Energy, a comprehensive-energy-solutions company, works with subsidiary 174 Power Global to operate and manage solar power plants and offer energy storage systems for residential, commercial, and industrial customers. The company expects to generate more than 10 GW of renewable power and operate more than 6 GWh of energy storage systems for customers by 2020, when all of its solar power-related projects in the Americas are completed. In 2019, 174 Power Global began operating Chariot Energy, a Texas-based energy retailer. It also operates OnForce Solar, a New York-based solar power developer of retail and commercial & industrial (C&I) projects.

Hanwha Energy and Hanwha General Chemical are early investors in Nikola Corporation, a hydrogen-truck design and manufacturing company. Through this investment, Hanwha Energy secured the right to power some of Nikola’s hydrogen-charging stations with electricity from its solar power plants in the U.S. The investment also gives Hanwha General Chemical the right to operate some charging locations.

Hanwha Advanced Materials manufactures materials for automotive applications at its facilities in Alabama, Michigan, North Carolina, and Virginia, as well as Mexico. The company is No. 1 in glass mat thermoplastics (GMT) in the world.

Hanwha Azdel is a subsidiary of Hanwha Advanced Materials, with a plant in Virginia that produces a wide variety of lightweight reinforced thermoplastic (LWRT) interior and exterior car parts for various automakers such as General Motors, Hyundai Motors, Toyota, and Volkswagen. These LWRT products help improve fuel economy for their customers, contributing to sustainable development. The company leads the world in LWRT manufacturing and sales.

Hanwha International, located in Teaneck, New Jersey, was the first Hanwha business established in the Americas. It played a significant role in Hanwha’s entry into the U.S. market. As Hanwha’s trading arm in North and South America, it facilitates the global movement of chemicals, steel, and machinery produced by other Hanwha affiliates.

Hanwha Aerospace USA develops and produces advanced aircraft engine parts, with four state-of-the-art facilities in Connecticut. In 2019, it began supplying components for GE Aviation’s most advanced engines that will power the Boeing 777X, which will have the capacity for 400 passengers, but reduce fuel consumption by as much as 12%.

Hanwha Techwin specializes in video-surveillance systems with advanced optics and next-generation capabilities, such as AI, deep learning, and business intelligence. With clients ranging from Bank of America to Target and Mexico City, the company’s products are designed to help protect people, property, and assets. The company is ranked third in network-camera manufacturing and sales in North America as of 2018.

Hanwha Energy is taking flight in the American aerospace industry, having made an important acquisition that allows it to better serve customers such as GE and Pratt & Whitney. Hanwha products are also becoming a mainstay in the American security-surveillance market, winning many awards from respected security institutions for the company’s cutting-edge capabilities. Furthermore, Hanwha is a leading industrial machinery and components manufacturer that offers products such as air and gas compressors and high-precision bearing systems.

automotive industry, with its lightweight components being in high demand as automakers strive to reduce vehicle weight and boost fuel economy.

Additionally, Hanwha is taking flight in the American aerospace industry, having made an important acquisition that allows it to better serve customers such as GE and Pratt & Whitney. Hanwha products are also becoming a mainstay in the American security-surveillance market, winning many awards from respected security institutions for the company’s cutting-edge capabilities. Furthermore, Hanwha is a leading industrial machinery and components manufacturer that offers products such as air and gas compressors and high-precision bearing systems.
Universal Bearings is a leading manufacturer of high-precision bearings — specializing in needle and loose-needle bearings — used mainly in automotive and industrial applications. Its manufacturing processes are accurate to within 2-3 microns, or smaller than a microscopic speck of dust. Currently, the company offers almost 1,000 different types of bearing products. It continues to add new products to its portfolio to become a complete-bearing manufacturer.

Hanwha Power Systems designs and manufactures turbo machinery, including industrial air compressors, fuel-gas compressors, and boil-off-gas compressors. The company’s R&D center in Houston, Texas, partners with organizations like the United States Department of Energy and the Southwest Research Institute to develop supercritical-carbon-dioxide (sCO2) engines that are much smaller and more efficient than traditional steam turbines.

Fast Facts about Hanwha in the Americas

- **Hanwha Q CELLS** is America’s No. 1 residential and commercial solar power provider
- **Hanwha Energy** will generate more than 10 GW of solar power in North America by 2020
- **Hanwha Advanced Materials** is ranked No. 1 in glass mat thermoplastics (GMT) and lightweight reinforced thermoplastic (LWRT) manufacturing and sales in the world
- **Hanwha Azdel** is the global No. 1 supplier of lightweight reinforced thermoplastics (LWRT), a material that helps lower fuel consumption and carbon emissions, used by automakers such as General Motors, Hyundai Motors, Toyota, and Volkswagen
- **Hanwha Aerospace USA**’s advanced engine parts will help the all-new Boeing 777X fly more fuel efficiently
- **Hanwha Techwin** is ranked third in network-camera manufacturing and sales in North America (as of 2018)

* Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions
Hanwha has over 30 affiliates spread across Europe, the Middle East, and Africa. They offer solar energy solutions that contribute to sustainable development, surveillance technologies, and advanced material applications, as well as infrastructure engineering and large-scale-construction capabilities.

Its solar-technology R&D hub in Germany develops some of the world’s most-advanced solar energy solutions. Hanwha also established the Europe Technical Center on the outskirts of Frankfurt, Germany, to showcase its high-precision products and technologies to potential European customers.

Hanwha places significant focus on researching next-generation technologies such as deep learning, AI, and business intelligence. Many of these advances are applied to Hanwha’s surveillance products, making it a go-to supplier for security solutions in EMEA. It is also in the final stages of constructing a brand-new city just outside Baghdad, Iraq, improving the lives of over a million people.

Hanwha Europe is Hanwha’s hub on the European continent. Based in Germany, Hanwha Europe paves the way for solar power products, chemical products, high-precision industrial machinery, automotive parts, and agricultural machinery to move in and out of Europe.

Hanwha Q CELLS is a total energy provider in solar cells and modules, energy storage, downstream project business, and energy retail with global R&D headquarters, manufacturing, and sales operations in the region. The company offers solar-plus-storage retail solutions through its Q.ENERGY or Q.HOME Cloud services. It is developing a 940-MWp solar portfolio in Spain that will generate enough clean electricity to meet the annual power needs of more than half a million households when completed in 2022. It has received EuPD Research’s Top Brand PV Europe seal for seven years running, and won the top prize in the solar category at the Life & Living Awards 2020 in Germany.
Hanwha Energy is helping expand solar power adoption across Europe. In Spain, the company is developing 1 GW of solar power-generation projects, including the construction of a 50-MW solar power plant in Seville. It is establishing a 120-MWh frequency-regulation energy-storage system in Ireland. The system will provide customers with a steadier flow of electricity as the country adopts more renewable-energy sources. In Turkey, the company operates a 32-MW solar power plant. Additionally, it is preparing to enter the European energy-retail market.

Hanwha Chemical is the first Korean company to enter the Middle Eastern petrochemical market. With Saudi Arabia’s Sahara International Petrochemical Company (SIPCHEM), it jointly operates such as International Polymers Company (IPC) and Gulf Advanced Insulation Company (GAIC). IPC specializes in the production of low-density polyethylene (LDPE) and ethyl vinyl acetate (EVA), while GAIC is the first Middle Eastern company to produce composite resins for electric wires.

Hanwha Advanced Materials is a leading manufacturer of materials for mobile phones, automobiles, photovoltaic energy systems, and other eco-friendly products. In Germany, the company offers a diverse portfolio of high-strength, lightweight parts for automobile structures and interiors, from bumpers to seatback frames for BMW and Audi, which help improve fuel economy of vehicles, contributing to sustainable development.

Hanwha Techwin specializes in video-surveillance systems with advanced optics and next-generation capabilities, such as AI, deep learning, and business intelligence. In 2020, the company introduced new ultra-high-definition 4K AI cameras equipped with deep learning video analytics that offer a high level of detection accuracy. The company also introduced a network-attached storage system embedded with 3G and LTE modems specialized for the Middle Eastern market.

Hanwha Precision Machinery provides smart factory solutions that drive the development of automation technologies and collaborative robots for the manufacturing industry. In 2019, the company opened Hanwha Europe Technical Center in Germany, offering state-of-the-art technologies, services, training programs, cycle-time computations, and production demonstrations.

Hanwha Power Systems provides turbo machinery via direct and aftermarket sales to oil & gas, petrochemical, and power-sector customers throughout the Middle East. The company is an approved vendor of air and gas compressors to Saudi Aramco and Abu Dhabi National Oil Company (ADNOC). It also became an approved service provider to ADNOC after setting up a compressor workshop to deliver dedicated aftermarket support.

Hanwha Engineering & Construction is a global engineering, procurement, and construction (EPC) contractor. Its diverse project portfolio includes housing, commercial buildings, industrial plants, and city development. In 2013, the company started work on the Bismayah New City project near Baghdad, Iraq. When completed, the brand-new city will cover 1,830 hectares, eight districts, and 59 street blocks that will include 834 apartment complexes with 100,080 residential units. The company also constructed Saudi Arabia’s Yanbu Phase 2 Expansion MED Seawater Desalination Plant, which produces 15 million gallons of fresh water per day.

Bismayah New City is a 700,080-unit residential housing project located 10 kilometers southeast of Baghdad, Iraq.
Fast Facts about Hanwha in EMEA

- **Hanwha Q CELLS** has won EuPD Research’s Top Brand PV Europe seal for seven consecutive years
- **Hanwha Advanced Materials**’ high-strength, lightweight parts for partners including BMW and Audi to help lower fuel consumption and carbon emissions, thus helping protect the environment
- **Hanwha Techwin**’s 4K AI surveillance cameras use deep learning and AI that put them at the forefront of the Fourth Industrial Revolution
- **Hanwha Precision Machinery**’s new Europe Technical Center opened in 2019, offering next-level technology and services for smart factories
- **Hanwha Engineering & Construction** is building Bismayah New City, the most ambitious mega-city project in Iraq’s modern history

*Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions*
Throughout the vast Asia-Pacific region, Hanwha offers both highly localized services and a brimming portfolio. Its chemical refineries and petrochemical processing plants in the region produce raw materials used in industrial, commercial, and household goods around the world. It also develops and manufactures high-tech products such as solar power solutions, aircraft engines, video-surveillance solutions, and collaborative robotics for manufacturing applications.

Hanwha is one of the largest foreign life-insurance providers in China and Vietnam. It also provides securities services in Vietnam and asset management services in China and Singapore. As a fintech pioneer, Hanwha backs start-ups that disrupt how financial services are delivered.

In the leisure sector, Hanwha operates several vacation destinations where people can enjoy their holidays, including resorts and golf courses in Saipan and Nagasaki, Japan.

**Hanwha Chemical** is a considerable presence in the Asian petrochemical industry. With subsidiaries in China, India, Malaysia, and Thailand, it is one of the world’s largest manufacturers and suppliers of petrochemical products, including synthetic resins such as caustic soda, polyvinyl chloride (PVC), and polyethylene (PE). The company places great emphasis on developing new products and manufacturing techniques to best address the shifting needs of the global petrochemical market. It is also very focused on commercializing products that are more sustainable and safer for the environment.

**Hanwha Advanced Materials** develops and manufactures lightweight composites, films, sheets, and thermoplastics for use in the automotive and electronics industries. It also maintains a plant that produces materials used in high-performance solar modules. In China, the company manufactures lightweight composites at plants in Beijing, Chongqing, and Shanghai for global automakers like General Motors, Hyundai Motors, Toyota, and Volkswagen. These composites are also used to meet the needs of China’s growing electric vehicle market.

**Hanwha Total Petrochemical** specializes in the sustainable development, production, and sales of polymers, base chemicals, and energy products. In Asia, the company has business operations in China, Japan, and Singapore. In China, it is a market leader for many synthetic resin products, coatings, and photovoltaic sheets. The company is the global market leader in encapsulants for solar batteries. Hanwha Total Petrochemical recognizes that safety, health, environment, and quality are the key factors for social good as well as its own prosperity and growth. It has achieved numerous certifications in line with its commitment — from KOSHA 180001 to ISO 4001 to ECO YHES.

**Hanwha Q CELLS**, a total energy solutions provider in solar cells and modules, energy storage, downstream energy projects, and energy retail, is a market leader with operations in China, Japan, Korea, and Vietnam. Since being acquired by Hanwha Q CELLS, the company’s manufacturing plant in Qidong, China, has almost quadrupled its production capacity from 1.3 GW to 5 GW annually. In Vietnam, Hanwha donated two solar powered boats to the “Clean Up Mekong” campaign. Powered and propelled by the company’s Q.PEAK solar modules, the boats collect up to 500 kg of waste daily in the Mekong River without emitting any greenhouse gases or other pollutants.
Hanwha Q CELLS Japan is an umbrella organization that provides customers with solar power solutions, chemical products, surveillance solutions, and trade services.

Hanwha Energy is expanding its presence in the Asian and Oceanic energy-retail markets by pursuing commercial and industrial power-generation projects and signing new power purchase agreements. In Australia, India, Japan, and Vietnam, it operates solar power plants that supply local consumers with clean, renewable electricity. In 2020, Hanwha Energy advanced its position in the Australian market by establishing Nectr, an energy retailer that operates solar farms and works to decentralize electricity generation. Overall, the company is constructing additional solar power plants in Australia, Japan, and Malaysia to make solar power more widely available to consumers in the region.

Hanwha Aerospace develops and manufactures a range of aircraft components and gas turbine engine solutions. In 2017, the company built a 100,000-square-meter factory in Vietnam to produce parts at competitive prices for GE Aviation, Pratt & Whitney, and Rolls-Royce. The company looks to increase its engine part sales for civil aircraft to lead the aircraft parts processing industry by 2025.

Hanwha Techwin specializes in video-surveillance systems with next-generation capabilities, such as AI, deep learning, and business intelligence. In 2017, the company built a state-of-the-art factory in Bac Ninh province in Vietnam to produce CCTV security products, including network cameras and recording devices. The facility supports Hanwha Techwin's growing customer demand in North America, Europe, and the Middle East where its technology helps protect people, property, and assets. In China, the company operates two subsidiaries. Hanwha Techwin Tianjin is China's No. 1 photographic and optical equipment supplier while Hanwha Techwin Shanghai sells high-precision industrial production equipment, such as chip mounters, to electronics companies.

Hanwha Corporation is a global manufacturing and trading company that has three divisions: Explosives and Defense, Trade, and Machinery. In China, the company's machinery division operates a manufacturing plant that produces machine tools and powertrains to meet increasing demand from Chinese customers. Where demand for industrial explosives is on the rise, the company's mining business is thriving. As of 2020, Hanwha has three industrial explosives manufacturing facilities in Australia alone. They have the combined capacity to produce up to 150,000 tons annually. In Indonesia, Hanwha has a production facility capable of producing 23,000 tons of industrial explosives annually as of 2019.

Hanwha Precision Machinery is a smart factory solutions company driving the development of automation technologies. In 2019, the company's Robotics Division started selling cobots (collaborative robots) through partner Wipro Infrastructure Engineering's industrial network to meet rising demand for automation in India.

Hanwha Power Systems designs and manufactures turbo machinery for customers around the world. Its product catalog includes industrial air compressors, fuel-gas compressors for power plants, and boil-off-gas compressors for liquefied-natural-gas terminals and plants. The company also develops technologies like turbo-expander generators, supercritical-carbon-dioxide (sCO2) engines, and oxy-fuel-gas turbines that will make power generation much more efficient in the future.

Hanwha Life is a leading insurance company that offers innovative products and services to meet a wide range of customers' needs. It is meeting increased demand for insurance coverage in China, Indonesia, and Vietnam as standards of living rise in Southeast Asia, using big data to understand customers' needs and offer localized policies. The company is also one of China's largest foreign insurance providers and received the "Best Value for Investment Insurance Product Award" at the prestigious China Innovation Insurance Awards in 2019.

In Vietnam, it has grown nearly 15 times larger since its founding 10 years ago, from only 450 planners in 2009 to nearly 15,000 financial planners as of 2020. In 2015, Hanwha Life constructed and donated public health centers to provide healthcare services to residents in a remote, rural region in Vietnam and donated life insurance policies as part of the company's “Love Life” service campaign.
Hanwha Investment & Securities launched Pinetree Securities in Vietnam in 2019 to help customers take advantage of digital investment opportunities in the local market. The company also has an affiliate in Singapore. Hanwha’s financial businesses are investing in fintech companies in Southeast Asia that help low-income people get access to funds. In 2020, Hanwha Asset Management’s Singapore-based affiliate facilitated a USD 5 million endowment in iSTOX, a Singapore-based capital markets platform. Hanwha Investment & Securities also staked USD 10 million in Bangkok-based Lightnet, which provides easier and safer remittance services in Southeast Asia.

Hanwha Hotels and Resorts, one of Asia’s premier leisure and service providers, has some of the most popular golf courses, resorts, and aquariums in the region, including Japan and Saipan. In 2019, Hanwha Saipan World Resort renovated and reopened Wave Jungle, Saipan’s largest waterpark.

Fast Facts about Hanwha in Asia Pacific

- **Hanwha Total Petrochemical** is the global leader in solar battery encapsulants
- **Hanwha Q CELLS** is a market leader in Japan and South Korea and has an extensive regional network across the region from Australia to India
- **Hanwha Aerospace** built 100,000-square-meter smart factory in Vietnam, producing a range of aircraft components for top aviation firms globally
- **Hanwha Techwin**’s state-of-the-art factory in Vietnam produces high-tech CCTV security systems to meet rising global demand
- **Hanwha Robotics** is supplying India’s growing manufacturing sector with automation cobots
- **Hanwha Life Vietnam** has grown nearly 15 times larger since its founding 10 years ago
- **Hanwha Investment & Securities** led USD 31.2 million investment in Lightnet, a Bangkok-based fintech company offering global remittance service using blockchain technology

*Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions*
Global Presence

United States

Prospects abound in the U.S., where Hanwha first established its presence in 1982. Hanwha’s American businesses are major players in the manufacture, sale, and support of a wide variety of products. These include solar power solutions, aircraft engines, automotive parts, industrial equipment, security systems, and petrochemicals. Because of this, Hanwha is making a push to further expand its American operations, focusing on disruptive high-tech and sustainable enterprises as well as finance and start-up incubation.

Hanwha Q CELLS is a total energy solutions provider in solar cells and modules, energy storage, downstream project business and energy retail. The company is the U.S.’s No. 1 provider of residential and commercial solar power solutions in 2019. In 2015, Q CELLS signed a supply agreement to provide U.S.-based NextEra Energy with 1.5 GW of modules. In Georgia, the company supplied solar modules to the 102.5-MW solar farm that powers Facebook’s ninth data center and operates the largest solar module plant in the Western Hemisphere as retail demand for renewable energy grows.

Hanwha Energy is a comprehensive energy solutions company. Through its subsidiary 174 Power Global, the company is involved in all aspects of the North American solar energy market — from power financing to power plant operations. It provides clean solar power to thousands of households through 1 GW of Power Purchase Agreements with utility providers in various states. By the end of 2020, the company will generate 10 GW of renewable energy and operate more than 6 GWh of energy storage systems for customers in North America. In 2019, 174 Power Global acquired Chariot Energy, a Texas-based energy retailer. It also acquired OnForce Solar, a New York-based solar power developer of retail and commercial & industrial (C&I) projects.

Hanwha Energy and Hanwha General Chemical are early investors in Nikola Corporation, a hydrogen-truck design and manufacturing company. The investment earned Hanwha Energy the right to supply some of Nikola’s hydrogen-charging stations with power from its solar power plants in the U.S. Hanwha General Chemical, meanwhile, has the right to operate some hydrogen-charging locations.

Hanwha Advanced Materials and Hanwha Azdel develop and produce a wide range of reinforced thermoplastics interior and exterior parts for automakers. The former is No. 1 in glass mat thermoplastics (GMT), while the latter is No. 1 in lightweight reinforced thermoplastic (LWRT) manufacturing and sales in the world. When used in automotive manufacturing, these materials help produce stronger and safer automobiles. They also help reduce vehicle weights, leading to lower fuel consumption and carbon emissions, thus helping protect the environment.

Hanwha International is a trading company that facilitates the import of chemicals, steel, and machinery produced by other Hanwha affiliates into North and South America. Located in Teaneck, New Jersey, it is also the first Hanwha business to have been established in the Americas and played a crucial role in Hanwha’s entry into the U.S. market.
Hanwha Systems develops smart technologies in radar systems, satellite communications, and information infrastructure. In 2019, the company invested USD 25 million in Overair, an aerospace startup, with the aim of bringing the Butterfly, a cutting-edge electric air taxi to market by 2025.

Hanwha Techwin provides a wide selection for residential, commercial, and industrial surveillance applications. The company’s ultra-high-definition cameras, cloud-based recording systems, and analytical software are widely deployed. They have also won numerous awards from American security-trade organizations, including Platinum in the HD-video-surveillance-camera category at the 2019 Govies Government Security Awards presented by Security Today. The company is ranked third in network-camera manufacturing and sales in North America as of 2018.

Universal Bearings is a leading manufacturer of high-precision bearings that specializes in needle and loose-needle bearings used mainly in automotive and industrial applications. Its manufacturing processes are accurate to within 2-3 microns, or smaller than a microscopic speck of dust. The company currently offers almost 1,000 different types of bearing products and continuously works to expand its portfolio to become a complete-bearing manufacturer.

Hanwha Precision Machinery and Hanwha Robotics offer smart factory solutions for manufacturing customers, with automated systems like Computer Numerical Control (CNC) machines and collaborative robots that autonomously handle repetitive tasks that require precision.

Hanwha Power Systems manufactures and sells air compressors, power-generation systems, and gas turbines to industrial customers. Its R&D center in Houston, Texas, develops new products in partnership with organizations like the Southwest Research Institute. It also collaborates with the United States Department of Energy to develop a supercritical-carbon-dioxide (sCO2) engine that generates electricity more efficiently than a traditional steam turbine.

Hanwha Aerospace develops and produces advanced aircraft engine parts and acquired EDAC Technologies to create Hanwha Aerospace USA in 2019. With four state-of-the-art facilities in the state of Connecticut, the company specializes in the development and production of aircraft engine components, such as engine cowlings and integrally bladed rotors. Its location also allows Hanwha Aerospace to meet with clients like GE Aviation and Pratt & Whitney more often and better understand their needs.

Hanwha Life’s DREAMPLUS San Francisco Center serves as a vital springboard for American start-ups looking to expand into the Asian market. Companies accepted into the accelerator program receive access to workspaces and the chance to participate in networking events and pitch opportunities.

Hanwha Life’s DREAMPLUS incubator in San Francisco for U.S.-based start-ups looking to enter the Asian market

**Fast Facts about Hanwha in the U.S.**
- Hanwha Q CELLS is America’s No. 1 residential and commercial solar power provider
- Hanwha Energy will generate more than 10 GW of solar power in North America by 2020
- Hanwha Advanced Materials’ high-strength, lightweight parts for cars help lower fuel consumption and carbon emissions, thus helping protect the environment
- Hanwha Aadel is No. 1 in manufacturing and sales of lightweight reinforced thermoplastics (LWRT) in the world
- Hanwha Aerospace USA’s advanced engine parts will help the all-new Boeing 777X fly high
- Hanwha Systems has invested in an aerospace startup with the aim of bringing electric air taxis to market by 2025
- Hanwha Techwin America is North America’s No. 3 in network-camera manufacturing and sales (as of 2018)
- Hanwha Precision Machinery and Hanwha Robotics’ smart factory solutions are advancing automation in America
- Hanwha Life’s DREAMPLUS incubator serves as a vital springboard for American start-ups with offices in California’s Silicon Valley

*Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions

**Major Affiliates**
- Hanwha Corporation
- Hanwha International
- Universal Bearings
- Hanwha Aerospace
- Hanwha Machinery
- Hanwha Techwin
- Hanwha Power Systems
- Hanwha Q CELLS
- Hanwha Advanced Materials
- Hanwha Aadel
- Hanwha General Chemical
- Hanwha Life
- Hanwha Asset Management
Global Presence

China

China occupies an important position in Hanwha’s global operations. Hanwha chemical refineries and petrochemical plants produce raw materials exported around the world. Other plants produce solar power products and lightweight composite materials. Hanwha also manufactures industrial machinery, video-surveillance systems, and high-precision chip mounters. Beyond manufacturing, Hanwha is one of China’s largest foreign insurance providers, offering a variety of products and services to meet the wide-ranging needs of its customers.

Hanwha Chemical first entered the Chinese market in 2003, when it opened a regional headquarters in Shanghai. It also has regional offices in Beijing and Guangzhou. It is a total solutions chemical company with streamlined production systems for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA). Hanwha opened a PVC manufacturing facility in Ningbo, Zhejiang Province, in 2011. Improvements to the plant’s equipment and workflow have allowed it to expand its annual production capacity to 500,000 tons of ethylene dichloride (EDC), 400,000 tons of vinyl chloride monomer (VCM), and 400,000 tons of polyvinyl chloride to meet growing demand for a range of consumer products.

Hanwha Total Petrochemical specializes in the sustainable development, production, and sales of polymers, base chemicals, and energy products. The company established two business operations in China in 2008 and 2009, with offices in Beijing, Hong Kong, Shanghai, and Shenzhen, and a plant in Dongguan. It is a market leader for many synthetic resin products, coatings, and photovoltaic sheets. It also is China’s No. 1 bottle cap material supplier. With a reputation for outstanding quality and spotless safety record, the company’s China operations continues to leverage its technological prowess in innovative product development, contributing to the company’s global tally of 900 patents.

Hanwha Advanced Materials manufactures materials for various products, including automotive components at its plants in Beijing, Chongqing, and Shanghai. These manufacturing subsidiaries specialize in the production of lightweight composite materials for global automakers like General Motors, Hyundai Motors, Toyota, and Volkswagen. These plants are working hard to meet the needs of China’s growing electric vehicle market.

Hanwha Q CELLS, a total energy solutions provider in solar cells and modules, energy storage, downstream project business and energy retail, produces solar power products at its facility in Qidong, Jiangsu Province. Since it was acquired in 2010, the facility has almost quadrupled its production capacity from 1.3 GW to 5 GW annually, helping the company maintain its position as the world’s leading solar power solutions provider.
Hanwha Life is a leading life-insurance company that provides customers with high-quality services through constant product development. In 2012, the company entered the Chinese insurance market by forming Sino-Korea Life Insurance in partnership with ZHEJIANG ORIENT FINANCIAL HOLDINGS GROUP CO., LTD. Sino-Korea Life Insurance is establishing itself as a premium insurance company that covers every aspect of customers’ lives through smart asset management and health-related insurance products. Its services – covering general insurance, pensions, health insurance, accident insurance, and more – are targeted to meet customer needs precisely and provide security to both individuals and families. In 2019, the company’s “Fu Duo Duo” insurance package – which combines pension and health insurance – received the “Best Value for Investment Insurance Product Award” at the 14th annual China Insurance Innovation Awards.

Hanwha Techwin has two Chinese subsidiaries. Hanwha Techwin Tianjin is China’s No. 1 foreign photographic and optical equipment supplier. It manufactures and sells a broad range of video-surveillance solutions including cameras, video-management systems, and monitors. Hanwha Techwin Shanghai specializes in the sale of high-precision industrial production equipment, such as chip mounters, to customers in the electronics industry.

Hanwha Corporation which specializes in industrial machinery, set up its first Chinese manufacturing plant in Zhangjiagang, Jiangsu Province, in 2014. The plant was 100% funded by Hanwha to produce machine tools and powertrains to meet increasing demand from the Chinese market.

Hanwha Power Systems provides direct sales services and aftermarket support for turbo-machinery customers. In China, the company supplies gas and air compressors to local steel manufacturers, air-separation plants, and chemical refineries.

Hanwha also conducts social impact activities throughout China. Hanwha Happy Sunshine donates solar power systems to schools, communities, and social projects to help them achieve energy independence through sustainable photovoltaics. Hanwha Solar Forest’s reforestation project in Ningxia region achieved a global milestone when it became the first-ever reforestation project to power a seedling nursery 100% via solar power. The United Nations Convention to Combat Desertification (UNCCD) cited this as a best practice and urged other reforestation projects to follow its example.

Fast Facts about Hanwha in China

- **Hanwha Chemical** produces 1.3 million tons of petrochemical products per year
- **Hanwha Total Petrochemical** is a market leader for synthetic resin products, coatings, and photovoltaic sheets
- **Hanwha Advanced Materials** is producing battery cases for 66,000 all-electric vehicle E-Lavida every year, since August of 2018
- **Hanwha Q CELLS**’s facility in Qidong has almost quadrupled its production capacity since 2010
- **Hanwha Techwin** is the No. 1 foreign photographic and optical equipment supplier in China
- **Hanwha Corporation** plant in Zhangjiagang produces machine tools and powertrains to meet increasing demand
- **Sino-Korea Life Insurance Co., Ltd** (Hanwha Life) won its fourth consecutive Social Responsibility Brand Award in 2019

* Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions

The UNCCD commended Hanwha’s donation of a solar power plant to this seedling nursery in Ningxia, China, which marked the first time ever that a reforestation project was powered solely by solar energy.

Hanwha Corporation
- Hanwha Corporation
- Hanwha Techwin
- Hanwha Power Systems
- Hanwha Chemical
- Hanwha Q CELLS
- Hanwha Advanced Materials
- Hanwha Total Petrochemical
- Hanwha Life
- Hanwha Asset Management
Vietnam

With its large workforce and business-friendly environment, Vietnam is a linchpin in Hanwha’s global operations. It made significant investments and continuously expanded to become one of Vietnam’s largest insurance providers. It also operates in the Vietnamese asset management and securities industries. The country is a manufacturing center for Hanwha, with purpose-built facilities that produce state-of-the-art aircraft engine components and cutting-edge video-surveillance solutions. Furthermore, Hanwha is helping Vietnam become less reliant on fossil fuels through solar power and liquefied-natural-gas (LNG) power.

Hanwha Life is a leading insurance company that offers innovative products and services to meet a wide range of customers’ needs, debuted in the Vietnamese insurance market in 2009. It was the first Korean company to set up a wholly owned subsidiary locally without a Vietnamese partner. Within a decade, Hanwha Life Vietnam’s business has grown over 15-fold. It is now Vietnam’s fourth-largest insurer, with more than 13,500 financial planners and 108 locations across major cities such as Ho Chi Minh City, Hanoi, Da Nang, and Can Tho. In recognition, Hanwha Life Vietnam has received seven consecutive Golden Dragon Awards for Best Products and Services from the Vietnam Economic Times.

Hanwha Asset Management, a financial services company, made a 2018 investment in Vingroup JSC, Vietnam’s largest conglomerate. Together, they are pursuing opportunities in fintech, automobile component materials, solar power system installation, and security. In 2019, Hanwha Investment & Securities launched Pinetree Securities, a securities brokerage that is now working to expand throughout Southeast Asia and move into investment banking. It actively partners with fintech firms and start-ups, helping customers take advantage of digital investment opportunities.

Hanwha Aerospace, which develops and produces advanced aircraft engine parts, opened an aircraft-engine-component plant near Hanoi to meet growing demand from companies such as GE Aviation, Pratt & Whitney, and Rolls-Royce. The 100,000-square-meter facility leverages the company’s technology and experience to produce high-quality aircraft engine components in large volumes.

Hanwha Techwin is a surveillance technology company with next-generation capabilities, such as AI, deep learning, and business intelligence. It invested in a state-of-the-art manufacturing facility in Bac Ninh Province to produce cutting-edge video-surveillance solutions. The facility supports the company’s growing sales in North America, Europe, and the Middle East. It also represents a significant logistics breakthrough in the region. By collaborating with the Vietnamese government, Hanwha Techwin secured an extensive supply chain to make sure the plant
Hanwha Energy is an energy retailer that provides customers with downstream-electricity-generation services. In Vietnam, the company is introducing energy sources that have less of an environmental and economic cost than hydroelectric, coal, and nuclear-power plants. This includes a 100-MW solar power plant in Thanh Hoa Province. Additionally, in 2019, Hanwha Energy began supervising the development of liquefied-natural-gas (LNG) infrastructure in southern Vietnam. The construction of LNG-power plants and terminals for LNG imports will help make up for electricity-generation shortages in the region.

Hanwha Power Systems provides Vietnamese customers with aftermarket support for industrial air compressors, including fuel-gas compressors for power plants, and boil-off-gas compressors for liquefied-natural-gas terminals and plants.

Hanwha is also engaged in numerous social impact activities in Vietnam. As of 2018, Hanwha Life Vietnam has donated nearly 45,000 health insurance cards to the underprivileged, including many children and elderly people, enabling them to receive treatment at government hospitals. Additionally, Hanwha has constructed free health clinics in poorer areas to ensure that people don’t have to travel long distances to receive adequate healthcare. For these efforts, the company was presented with a Certificate of Merit by the Ho Chi Minh City People’s Committee and the Sponsoring Association for Poor Patients.

Hanwha has also launched “Clean Up Mekong” campaign to address the pressing issue of serious pollution on the Mekong River. The campaign raises public pollution awareness and scoops floating waste off the river’s surface with solar powered boats equipped with Hanwha Q CELLS’ Q.PEAK DUO solar modules. It received one gold award and five bronze awards at the New York Festivals 2020 Advertising Awards.

A solar powered boat donated to Vietnam as part of the “Clean Up Mekong” campaign

Fast Facts about Hanwha in Vietnam

► **Hanwha Life** in Vietnam has grown nearly 15 times larger since its founding 10 years ago

► **Hanwha Investment & Securities** launched Pinetree Securities Corporation in 2019 to help customers take advantage of fintech opportunities

► **Hanwha Aerospace** ’s factory in Vietnam is supplying advanced aircraft engine parts to top-flight aviation firms, including GE Aviation, Pratt & Whitney, and Rolls-Royce

► **Hanwha Techwin** ’s factory in Bac Ninh Province produces advanced surveillance systems to meet growing global demand for state-of-the-art security

► **Hanwha** donated two solar-powered boats to clean up pollution in the Mekong River, which won awards at the New York Festivals 2020 Advertising Awards

* Hanwha Chemical, Hanwha Q CELLS, and Hanwha Advanced Materials are divisions of Hanwha Solutions