“We engage and listen to our customers to create the solutions they trust us to build.”

Seung-Yoon Kim
The world has already moved beyond the Fourth Industrial Revolution. It is now heading toward the next industrial revolution. So are we.

At Hanwha, we believe in building trust and expressing loyalty. Our customers trust us because we’ve earned it over time. In turn, we express our loyalty through contributions to society. Trust and loyalty are in the DNA of every Hanwha employee, motivating us to build for the good of all, amid constant changes and despite them. As a company, our never-ending goal is to improve the lives of everyone we touch. We seek to raise the standards of living and improve the quality of life. We know this is easily said but difficult to attain. And yet, if we persevere, continue to innovate, and build for a better tomorrow, the future is ours to imagine.

Let us not forget how we’ve come so far because it is with this same determination, we must move forward. Despite the rising competition in the Fourth Industrial era, we must continue to innovate and maintain stable growth, just as we have in the past three years. We’ve surpassed the global economic growth rate by 20 percent by recording 4.4 percent CAGR in sales and 5.0 percent CAGR in total assets. We achieved our vision of Quality Growth 2020 ahead of expectations and have become one of the world’s top-tier companies in key business sectors by expanding our portfolios of high-value-added products and by making substantial changes in management. We’re achieving greater sustainable growth and strengthening our competitive advantages in our core businesses: chemical, aerospace, mechatronics, solar energy and financial services. We’re making a difference.
Embracing innovations and pursuing opportunities to build a better future

With our chemical business, we’re leveraging our vertical integration. We’re refining and transforming raw materials and basic chemicals into synthetic fuel and advanced materials. We’re winning awards along the way but, more importantly, we’re executing our strategy to use both upstream and downstream production processes to diversify our product portfolios with high-value-added products. We continue to expand production capacity with a stable financial structure. In 2020, we will complete our large-scale expansion project, valued at USD 1.3 billion, and expect to sharpen our competitive edge in producing high-value-added resin products while also increasing production capacity for ethylene, the petrochemical industry’s base chemical.

In aerospace, we have proven our capabilities by securing large-scale supply contracts with advanced solutions that meet the needs of global customers. In 2019, we signed a supply agreement for USD 1.7 billion worth of aircraft engine parts with Pratt & Whitney, the global aircraft engine manufacturer. Mass production is set for 2022. As a trusted partner and with our world-class technology and quality recognized in the global aircraft industry, we are able to participate in the joint international development project for high-value-added aircraft engines. We are also upgrading our production technology and facilities, anticipating profitability in the long run. In December 2018, Hanwha Aerospace established a production base in Vietnam that will lead our global aircraft engine business with world-class competitiveness and production capacity.

In mechatronics, we’re supporting manufacturing innovations in the Fourth Industrial era by developing logistics automation systems, collaborative robots, and Smart Factory solutions. In 2018, we entered the global market with contracts to supply collaborative robots to six European companies.

Our vertically integrated solar energy business leads the global market, bolstered by our cutting-edge technology and world-class production capacity. We’ve maintained the No. 1 market share in the new market for advanced renewable energy in Germany, the UK, South Korea, and Japan. We completed a 1.7GW capacity module plant in Georgia, USA. Commercial production in the US is only the beginning. Our intent is to build a worldwide production network that links South Korea, Malaysia, China, and the US to lead the eco-friendly energy market of the world.
In financial services, Hanwha continues to innovate and address the needs of customers, amidst challenges of an evolving market. We’ve achieved financial stability and strength by developing a customer-centric system and leveraging it to help our clients reach their financial goals. Using advanced digital technology, we expanded Fintech- and Insurtech-based business models and digital asset management services. We’re investing in digital platforms to strengthen customer service and future financial services. By collaborating with Internet-only banks and Fintech startups, we will utilize AI, Big Data, and blockchain technologies to synergize financial businesses and advance the financial industry. We’re doing a lot but more importantly, they’re meaningful and all aligned to our global growth strategy.

Since entering the Vietnamese life insurance market in 2009, we’ve leveraged our nationwide sales network and have grown CAGR 58.7 percent in insurance premiums over the past ten years. We will continue to build on our solid reputation to execute our localization strategy and expand our market dominance in the rapidly growing Southeast Asia insurance market.

Our services & leisure affiliates provide differentiated services that cater to evolving leisure lifestyles and residential living. Opened in 2018, our premium marine resort offers visitors unique experiences with high-end activities like watersports and pampers them in an entire building dedicated to providing a VIP experience. We’ve created a new concept in residence services by offering hotel services and amenities for long term and permanent residencies. Our offerings are designed to address changing trends and the demand for hotel-like services and conveniences for extended stays. We plan to introduce Total Hospitality, a new urban complex service & leisure business model that meets the needs for senior living. Total Hospitality includes medical services online and offline, hotel-style conveniences, and financial planning and consulting.

And as a conscientious corporate citizen, Hanwha continues to meet our ethical, legal, and economical responsibilities in our business practices. We remain committed to our business philosophy that as a business we have a responsibility to do good. That’s why we are increasing our social contributions and making efforts to resolve common issues in our society. For example, our reforestation programs have built entire forests in parts of China. We also sponsor social events and activities to promote culture, the arts, sports, and eco-friendly energy.

At Hanwha, we’ve remained steadfast to the UN’s Sustainable Development Goals to work together with others to solve global environmental and social issues. Since 2013, we have supported the Towards a Greener Davos initiative by donating solar modules to the City of Davos at the World Economic Forum Congress Center. Our Happy Sunshine initiative has brightened lives across East Asia with solar panels and systems donations to 254 community development projects. And our Hanwha Solar Forest campaign continues to preserve the environment by planting thousands of trees. To date, we have planted 500,000 trees in seven locations across South Korea, Mongolia, and China.

But with all the ideas and opportunities, we need people to plan and execute initiatives. That’s why we’re hiring the best talent and fostering creativity. We’re not only building partnerships with large companies but with small and medium-sized enterprises because we want to succeed and achieve, together. Our commitment to maintain strict compliance management and the highest standards are creating an ethical corporate culture on the inside and set an example in fair competition and transparency for others to follow on the outside.

We continue to face a world filled with uncertainty where advancements in digital technology are being accelerated by emerging technologies and changing infrastructure. Still, we will continue to rise to the challenges. Our response will be to innovate and do what others have not by taking the road less traveled, never losing sight of why or for whom it’s all for our customers.

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At Hanwha, we partner with our customers. We listen first and only then create solutions. And it is from the understanding of our customers with which we create the products and services that are changing how the world works, lives, and plays.
WE SEEK NEW TECHNOLOGIES WITH WHICH YOU CAN FIND NEW APPLICATIONS.
Hanwha researchers are leaders in their fields and passionate about innovating and exploring new ways to produce petrochemicals and advanced materials that our customers can leverage to push their own limits of what is possible in automotive engineering, solar energy, nanotechnology, and other fields. For example, our breakthrough process for producing the synthetic resin EVA is allowing companies to manufacture solar cells with higher purity, transparency, and efficiency at lower costs.

In the automotive industry, our revolutionary lightweight composite materials are prized for their durability and flexibility – comparable to steel in strength but with up to 25 percent less mass. This means cars can weigh less but perform better. These and other innovations provide greater value for our customers and attract partnership opportunities for Hanwha worldwide.
PETROCHEMICAL
A Leader
In South Korea
Hanwha continues to be a leading producer in South Korea’s petrochemical sector with total sales of USD 18.1 billion.

ETHYLENE
Petrochemical Powerhouse
Hanwha has an ethylene production capacity of over 3.6 million tons and is rapidly becoming a major player in this important market.
EVA

Global Leader

Hanwha has built a world-class ethylene vinyl acetate (EVA) production plant with an annual capacity of 715,000 tons. By adopting new processes and investing in advanced facilities, we are developing high-value products that are helping to further increase our market share.

PTA

Proven PTA Technology

With a purified terephthalic acid (PTA) production capacity of more than two million tons per year, Hanwha leads the domestic PTA market. As we continue to export our process technology, we are increasingly recognized around the world for technological prowess.

W&C COMPOUND

World-Class Innovation

After developing the W&C compound, an innovative polyethylene synthetic resin, for the South Korean market, Hanwha has had a direct effect, feed the South Korean manufacturers from their dependence on imported resins for power transformers and distribution cables.
AUTOMOTIVE THERMOPLASTICS

70% Global Market Share

Hanwha’s StrongLite and SuperLite products now account for 70 percent of the global market in GMT (glass fiber mat thermoplastic) and LWRT (low weight reinforced thermoplastic) technologies.

ELECTRIC VEHICLE BATTERY SOLUTION

Advanced Eco-Friendly Solution

Hanwha’s new battery housing for eco-friendly electric vehicles is technologically advanced as it uses lightweight composite materials. This product is expected to lead in the electric vehicle battery housing market and set a new bar for other electric battery housing manufacturers. With cutting-edge products, we are leading this market and becoming a major supplier to global automakers.
QUESTIONS

WE HAVE THE ANSWERS TO THE QUESTIONS YOU HAVE FOR THE FUTURE.

ANSWERS
From here on earth for the skies above, Hanwha is developing world-class products in aerospace and mechatronics to help corporations and governments meet their future needs in manufacturing, commerce, security, and travel. And we continue to pursue technology partnerships with other leading companies and develop solutions that satisfy customers around the globe.
Over the past five years, Hanwha Aerospace has secured aerospace contracts worth nearly USD 13 billion by partnering with global aviation engine companies such as Pratt & Whitney, GE, and Rolls-Royce. We also signed an agreement with United Technologies International Corp-Asia Pte Ltd. (Pratt & Whitney subsidiary) to acquire a 30 percent equity interest in P&W NGPF Manufacturing Company Singapore Pte. Ltd. The plan is to manufacture hybrid metallic fan blade parts and high-pressure turbine disks for engines.
Innovative Security Solutions

Hanwha Techwin has accumulated over 30 years’ worth of core technologies in optics design, image processing, and manufacturing. We’ve built on these technologies with continuous technology development to grow rapidly and become South Korea’s No. 1 video security solutions provider. And by leveraging our expertise and experience, we’re on a trajectory to develop the next-generation technologies in deep learning, AI, and business intelligence analytics. It’s not only the natural next progression for our company but also, it is a way for us to increase our presence in the global security market.

Machinery
Expertise Leads to Growth

With more than 50 years of experience in global mechatronics, Hanwha continues to develop innovative technologies for this industry. Our customers use our technology to improve productivity and efficiency.

Electronics
Defense Electronics Innovation

By leveraging our strategic alliances and building unique technologies in command, control, communication, computer, and intelligence (C4I), Hanwha Systems is bringing innovative solutions to global markets.
WE INVEST IN THE POWER OF TOMORROW SO YOU CAN MEET THE ENERGY DEMANDS OF TODAY.
With superior quality solar products and services that have incorporated world-class technology, Hanwha has rapidly become one of the most trusted names in the global solar industry. We are at the forefront of innovation in the solar energy sector, with sustainable products and solutions custom-designed to address the global energy challenges of today and tomorrow.

**Solar Energy**

Hanwha has built an integrated solar value chain that begins with the production of cells and modules to downstream businesses, including system solutions, EPC operations, and more. We are actively promoting our solar energy products in Japan, Europe, and other markets.
Hanwha Solutions’ proprietary Q.ANTUM solar cells significantly reduce energy consumption by utilizing PERC (passivated emitter rear contact) architecture. In 2015, the company achieved a record-breaking 19.5 percent efficiency rating with its multicrystalline solar module, the first module of its kind. In 2019, DNV GL, the world’s largest classification society, rated our key products like the Q.ANTUM a “Top Performer” 4 years in a row.

By the end of 2018, Hanwha Solutions had succeeded in mass-producing 15GW of Q.ANTUM solar cells. Our high-end technology is recognized around the world and has won the Top Brand PV Seal 2020 from EuPD Research 7 consecutive years in Europe and 5 consecutive years in Australia. And in 2016, EuPD Research ranked Hanwha Solutions as the top module manufacturer in the US.

Hanwha has state-of-the-art solar energy R&D centers in Germany, South Korea, China, and Malaysia. Its marketing and sales operations are in more than 40 countries throughout Europe, Asia, and North America.
In 2015, Hanwha Solutions signed what was at the time the largest single contract in the solar industry. The agreement was with the US company, NextEra Energy Resources, to provide more than 1.5GW of solar modules. Hanwha Solutions is the market share leader among all global manufacturers in Japan and the US. We have achieved the largest market share in South Korea, Germany, and the UK. We’re leading the charge in green growth and sustainable development to reduce poverty, create jobs, and advance the synergy between the environment and economy for generations to come.
WE INNOVATE FINANCIAL PRODUCTS SO YOU CAN SECURE A PEACE OF MIND.
Hanwha offers a complete financial service platform with insurance, securities, asset management and banking products. We create value for individuals and institutional customers by continuously adapting to today’s rapidly changing financial landscapes and providing financial solutions that give customers the freedom to pursue their dreams.

FINANCE

Hanwha Life
Hanwha General Insurance

Hanwha Investment & Securities

Hanwha Asset Management

Hanwha Savings Bank

Total Financial Solutions

Value-Added Services for Individuals and Institutions

Historically, Hanwha has remained solid and stable while offering comprehensive financial solutions, including insurance, banking, securities, and asset management services.

Securities
Asset management, brokerage services, underwriting, investment banking

Asset Management
Mutual funds, ETFs, derivatives, real estate, M&A, PE

Insuranc
Life, non-life insurance, General insurance

Banking Products
Deposits, commercial and personal loans

Stocks, bonds, ETFs, derivatives, real estate, MMFs, PEFs

Life, non-life insurance

Hanwha Life
Hanwha General Insurance
A New Milestone

Seventy years after being established as South Korea’s first life insurance company, Hanwha Life has reached a new milestone with USD 89.4 billion (KRW 100 trillion) in total assets. In 2018, we grew and achieved new heights to lead the industry with USD 102 billion in total assets. We’ve maintained a sound financial structure since 2010, when we were first recognized as a major domestic insurer in the securities market. Hanwha Life is achieving industry-leading value in asset management, on-site sales competitiveness, and product development capabilities.
Hanwha is leveraging Big Data strategically and applying the latest financial technologies to create sustainable growth in new markets, including online banking, insurance, and lending with mid-range interest rates.
SALES NETWORK

Global Expansion

Hanwha Life continues to advance in the global market with successful subsidiaries in Vietnam, China, and Indonesia. Our next goal is to become the leading insurance company in each of these countries.
IMAGINE

WE IMAGINE DISTINCTIVE EXPERIENCES TO HELP YOU REALIZE YOUR DREAMS.

REALIZE
From first-class shopping experiences to luxury hotels and resort stays, Hanwha is dedicated to helping our customers enjoy richer and more fulfilling lives. We continue to expand our services and leisure businesses to bring dream-like experiences to life for people around the world.

WIDE-RANGING PREMIUM EXPERIENCES

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SERVICES & LEISURE

Bringing Joy to Life
Hanwha’s growing network of unique resorts, hotels, and retail establishments has established the company as a respected leader in the leisure and lifestyle industry.

Hanwha Galleria
Hanwha Galleria Timeworld
Hanwha Elysian
Hanwha Hotels & Resorts

COMMERCIAL DEVELOPMENT, PROPERTY MANAGEMENT

COMMERCIAL REAL ESTATE SERVICE

RESORTS, HOTELS, LEISURE, FOOD SERVICES

Hanwha Station Development

REAL ESTATE SERVICE
RETAIL

Premium Contents Producer

The Galleria is Korea’s first and foremost premium department store chain. These stores represent Hanwha’s commitment to providing differentiated customer experiences by incorporating timely lifestyle consumer trends into its offerings.

As a premium provider in retail, we develop luxury brands, food and beverages, VIP services, and new platforms for both offline and online stores.
HOTELS

One of A Kind

THE PLAZA is South Korea’s most luxurious boutique hotel and considered one of the finest hotels in Asia. This 5-star hotel is centrally located in the heart of Seoul, amidst a myriad of tourist attractions and a bustling nightlife.

THE PLAZA boasts 400 rooms and over 20,000 square feet of event space. It’s impressive in size but it is in its refined design, impeccable service, and premium accommodations that we take pride.

THE PLAZA is the first hotel in Korea to join the Autograph Collection, Marriott International’s premium portfolio of distinctive hotels. We are introducing exclusive services that combine the advantages of a local hotel brand with the benefits of a premier-chain hotel brand.

AQUARIUMS

Leader in Maritime Culture

Hanwha’s affinity for marine life shows in our chain of award-winning aquariums, including the eco-friendly Aqua Planet located in the South Korean cities of Jeju, Yeosu, Incheon, and Seoul. Aqua Planet Jeju features a diverse and world-class marine aquarium. Aqua Planet Incheon features an aquarium and a sea-bird center.

Aqua Planet Yeosu showcases Korea’s only 360-degree dome aquarium. Our expertise in marine-life and aquarium architecture is renowned and sought out internationally.

RESORTS

Luxury At Its Best

Launched in 2018, Hanwha Hotels & Resorts’ Geoje Belvedere is an upscale beachfront resort complex that offers its guests a holistic experience – where wellness and wellbeing are taken to a whole new level. Located between a lush coastal mountain range and an idyllic sea, the Belvedere is the ultimate destination where nature meets luxury. There are 425 rooms, each with breathtaking views overlooking the ocean. Guests can luxuriate in amenities from fine dining and nature immersion programs to aquatic activities including yachting. The Belvedere’s single purpose is to help guests connect to nature so you can unwind, rejuvenate, and enjoy life as it was meant to be.

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WE ENVISION POSSIBILITIES SO YOU CAN ACHIEVE YOUR GOALS.
Hanwha partners with customers to understand their needs and goals. Our deep level of engagement enables us to truly envision before we build and exceed customer expectations after we do. From spectacular performance venues to cutting-edge manufacturing facilities to affordable housing that brings families and communities together, Hanwha is helping to enrich the lives of millions worldwide.
Hanwha’s Bismayah New City Project is the unprecedented effort to build an entire city covering nearly 60 city blocks and including over 800 apartment complexes. The Bismayah New City Project is the largest construction project in the history of the Middle East by a South Korean company. And recently, another contract worth USD 2.1 billion to build the social infrastructure for Bismayah city has been secured, pushing the total value of the project to more than USD 10 billion.
Turnkey Solutions

Hanwha Engineering & Construction continues to solidify its market presence in the Middle East and North Africa with industrial, power, and petrochemical plant projects, including the construction of the Saudi-owned Ma’aden petrochemical plant, which will have an annual production capacity of 1.5 million gallons of fertilizer.

Integrated Energy Development

Hanwha Engineering & Construction is expanding its technologies and capabilities. One example is the Saudi Yanbu II power generation and desalination plant. It produces 15 million gallons of water a day.
Our vision is to touch the lives of every individual in every country in which we operate. We want to elevate the quality of life with our innovations and solutions. And to achieve our vision, we’ve set goals to help us lead in all markets our businesses compete in. Anticipating change, innovating, and investing in future technologies and infrastructure are at the forefront of our agenda for each of our businesses. At the same time, we remain steadfast in our commitment to help our customers grow with us with the products we build for them. After all, our commitment is to our customers, employees, and to the world in which we live.

Hanwha’s Vision

At Hanwha, we operate with the spirit of trust and loyalty above all else. They are reflected in our core values and serve to guide us in how we do business and why we innovate.

Our Core Values
- We believe in challenging the status quo in the pursuit of excellence through change and innovation.
- We are dedicated to our company, customers, and one another to achieve a greater goal.
- We believe in acting with integrity in everything we do, as individuals and employees.
After our founding in 1952, Hanwha has grown into a Fortune Global 500 company. Our business expertise and synergies in manufacturing & construction, finance, and services & leisure have made us the 7th largest business enterprise in South Korea. And by quickly anticipating and responding to changing market conditions, we’ve led the industry with world-class capabilities. Our focus, well-executed strategies, and our aggressive investments have helped us to successfully overcome the toughest challenges in key industries in chemical, aerospace & mechatronics, solar energy, and finance. We’re now building the foundation for sustainable development and a brighter future for all.
Milestones

**Foundation of a Business**  
1952–1963

RESTORING A NATION’S ECONOMY

After the Korean War, Hanwha played a critical role in reconstructing our devastated nation. In 1952, Korea Explosives Co. (now Hanwha Corporation) produced industrial explosives desperately needed for the reconstruction of our country’s infrastructure. The company succeeded in producing nitroglycerin in 1959 and became one of the first three companies in Asia to produce industrial explosives. Since then, much has changed and Hanwha today has expanded its business enterprise globally. One thing, however, remains the same: our mission that a business should contribute to its society, and we do.

MODERNIZATION OF A NATION

As the nation’s economy grew, so did Hanwha. Our success came from aggressive and strategic investments in key industries that could accelerate the modernization of our nation. In the mid-1960s, we established the Korea Housing Industrial Co. (now Hanwha Solutions) and entered the petrochemical business. After launching Kyung-In Energy in 1965, we established Hankook Plastic in 1971 (now Hanwha Corporation’ Machinery). We sharpened our competitiveness in the machinery business by acquiring Sinhan Bearing Industrial. And in 1972, we continued to advance South Korea’s industrialization by constructing Kyung-In Energy’s refinery and power plant.

**Business Expansions**  
1964–1980

STRATEGIC DIVERSIFICATION

When Yuk Keun Yoon Kim became Hanwha’s second chairman, the company’s Second Foundation had effectively begun. And in the aftermath of the global oil shock in the 70’s, one of Mr. Kim’s key decisions was to diversify into the petrochemicals business by acquiring Hanpyung Chemicals and Dow Chemicals Korea. He quickly turned the fledgling business into a global powerhouse (now called Hanwha Solutions) in the global chemical market. Under Mr. Kim’s leadership, we’ve also diversified into finance and services & leisure. In 1995, we acquired the Junga Group (now Hanwha Hotels & Resorts) to become Korea’s leading leisure company. In 1998, we also acquired Hanyang Dole (now Hanwha Galleria) and expanded into the retail industry.

**The Second Foundation**  
1981–1995

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**Milestones**

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1965 Korea Housing Industrial Co. (now Hanwha Solutions) is founded
1976 Sungdo Securities (now Hanwha Investment & Securities) is founded
1990 Hanyang Dole Center is built
1994 Hanwha R&D Center is established

1992

1995

1996

1998

2002

2007

2012

2015

Building Momentum 1996–2006

EMERGING AS A GLOBAL LEADER 2007–Present

During the 1997 Asian financial crisis that either crippled or nearly paralyzed most companies in South Korea, Hanwha took bold actions, innovating and restructuring. We succeeded by selling profitable affiliates, made employee job security our priority, and moved forward with faith in our spirit of trust and loyalty. We sought new opportunities and began acquisitions. One of them was Korea Life Insurance in 2002, a business that we have since grown steadily to make it the second largest life insurance carrier in South Korea, and Japan. Our progress and successes reflect our efforts and focus to strengthen our global competitiveness and adopt preemptive technologies.

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As the 21st century began, Hanwha entered an accelerated global expansion by diversifying businesses and building a robust network of overseas operations. Hanwha Solutions acquired US-based ADC Technologies and established a production subsidiary in the Czech Republic in 2007 to increase its standing as a global automation component maker. In 2008, Hanwha Solutions began constructing a 1GW plant in Yangzhou, China. In 2011, Hanwha Engineering & Construction won an EPC 1.6 GW solar contract to construct an entire city in India. We also expanded our business into the retail industry.

Recently, the company entered the financial services sector to find more opportunities that could lead to greater financial security for more people worldwide. Daewoo Power Holdings and Q CELLS were acquired in 2010 and 2012, respectively, paving the way for Hanwha Solutions to join the ranks of the world’s top solar producers. Our solar energy solutions business became the market leader in the US, Germany, the UK, South Korea, and Japan. Outcry by green groups and success stories reflect our efforts and focus to strengthen our global competitiveness and adopt preemptive technologies.

汉能LifeInvestment to expand globally began with its takeover of A12 Solar in 2006 that led to another acquisition—an Indonesian wind turbine company in 2008. Recently, the company entered the fintech sector to find more opportunities that could lead to greater financial security for more people worldwide. Daewoo Power Holdings and Q CELLS were acquired in 2010 and 2012, respectively, paving the way for Hanwha Solutions to join the ranks of the world’s top solar producers. Our solar energy solutions business became the market leader in the US, Germany, the UK, South Korea, and Japan. Outcry by green groups and success stories reflect our efforts and focus to strengthen our global competitiveness and adopt preemptive technologies.

**Accelerating Global Business**

2007–Present

One of them was Korea Life Insurance in 2002, a business that we have since grown steadily to make it the second largest life insurance carrier in South Korea, and Japan. Our progress and successes reflect our efforts and focus to strengthen our global competitiveness and adopt preemptive technologies.
Financial Highlights

* The financial data in the Financial Highlights show the simple aggregate of sales, total assets, total liabilities, and total stockholder equity among Hanwha Group’s major affiliates at home and abroad. (Source: Hanwha Group)

- Figures for sales and total assets of individual affiliate companies published on page 75 and subsequent pages of this brochure are data officially announced by the Financial Supervisory Service.
- This outlook data was generated prior to completing the internal financial statements, accounting reviews, and an external audit report and, therefore, is subject to change upon settlement of accounts and accounting audit results. The outlook data also include information on forecasts that may be affected by risks, market conditions, uncertainties, or changes in circumstances. In addition, the actual results may differ from the published or suggested content herein, and may change without prior notice due to shifts in market conditions and change in strategies. This data was generated for reference purposes only. Hanwha Group has no obligation to set or change expectations and forecasts for the future contained herein. The data contained herein should not be used for investment purposes. Hanwha Group does not provide any guarantee for the data and its contents, and has no liability or responsibility for the outcome of investments made based on this data.

* Sales are converted into US dollars at the average exchange rate of USD 1 = KRW 1,130.84 in 2017, and KRW 1,100.30 in 2018.
* Assets, liabilities, and shareholder equity amounts are converted into US dollars at the December 31 closing exchange rate of USD 1 = KRW 1,071.40 in 2017, and KRW 1,118.10 in 2018.
* The 2019 expectancy data was converted based on Hanwha Group’s internal exchange rate of USD 1 = KRW 1,133.
Hanwha BUSINESSES
Manufacturing & Construction

Hanwha Corporation
Hanwha Aerospace
Hanwha Defense
Hanwha Systems
Hanwha Techwin
Hanwha Precision Machinery
Hanwha Power Systems
Hanwha Solutions
Hanwha General Chemical
Hanwha TOTAL, Petrochemical
YEDOUM NOC
Hanwha Energy
Hanwha Engineering & Construction
Hanwha City Development
Hanwha Corporation provides solar, wind, and smart energy solutions, one of the world’s largest photovoltaic manufacturers, recognized for its high-quality, high-efficiency solar cells and modules.

Hanwha Corporation, the parent company of the Hanwha Group, is a global manufacturing and trading company that has directly contributed to the growth of South Korea’s economy. There are 3 divisions under the Hanwha Corporation: Explosives/Defense, Trade, and Machinery.

Hanwha Corporation was founded in 1966. We have built a global network of more than 27 overseas corporations and offices. Our network allows us to work in synergy in the world markets for the Hanwha Group.

Today, Hanwha Corporation continues to apply its extensive experience and exploitive technology to expand into new businesses, including defense and machinery.

In 1952, Hanwha became the first domestic manufacturer of dynamite in South Korea. After having successfully developed safer, high-quality industrial explosives and the process products, we have been able to supply the South Korean government with the crucial means to rebuild its cities and infrastructure.

Hanwha Corporation provides solar, wind, and smart energy solutions, one of the world’s largest photovoltaic manufacturers, recognized for its high-quality, high-efficiency solar cells and modules.
In 1977, Hanwha Aerospace began by building businesses in the aircraft engine and film camera industry. Since then, we’ve aggressively invested in research to develop our technologies in optics, video, and military aircraft engines. We’ve then expanded into aircraft components and commercial engine parts business. To evolve as we have, we’ve had to successfully develop top-tier and original application technologies that gave us the competitive edge needed for our businesses around the globe. And as our technologies advanced, so did our expertise and our ability to not only meet the changing market demands but also anticipate them.

As South Korea’s only manufacturer of gas turbine engines for the last 40 years, we have been in a fortunate position to capitalize on all the opportunities to develop our technologies. We now provide a range of aircraft components and gas turbine engine solutions that our nation needs and those that are also desired by markets all over the world. In 2013, we began a partnership with US-based Pratt & Whitney to enter the aero-engine business. In the same year, our aerospace maintenance business also signed a memorandum of understanding with GE. In 2016, we became a trusted partner in the global aircraft industry when we entered a contract with the United States Pratt & Whitney to operate a joint venture with Singaporean manufacturing company. Our partnership with Pratt & Whitney is a Risk and Reward Sharing Partnership (RSP) to co-build the next-generation aircraft engine. This partnership represents our putting the weight of other leading aircraft-engine manufacturers of the world. In 2017, we established a production base in Vietnam to improve our cost competitiveness and increase production capacity. In 2019, we acquired EDAC Technologies, the US aircraft engine component manufacturer, and leveraged its product portfolio and leveraging high-end processing technology.

We’re in an industry that sees changes great and fast but despite them, we’ve continuously achieved great successes and we remain committed to becoming the top global partner in aviation engine parts. Our strategy is simple: We anticipate the evolving market demands and address them through continuous development of technology with a focus on quality.

Hanwha Aerospace
www.hanwha-aerospace.com

EXPERTISE
Gas turbine engines, component manufacturers, aircraft components

2018 Total Sales
$4,047 million

2018 Total Assets
$6,615 million

Hanwha Aerospace total sales and total assets are based on consolidated financial statements.
Hanwha Systems

**EXPERTISE**

System: Aerospace systems, surveillance, and reconnaissance systems, C4I (ISR) systems, naval systems, land systems, defense ICT

ICT: Integrated IT business services

**2018 Total Sales**

In USD millions

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>1,026</td>
</tr>
<tr>
<td>2017</td>
<td>1,701</td>
</tr>
</tbody>
</table>

Converging defense ICT and information infrastructure is part of Hanwha Systems’ deep efforts to bring the Fourth Industrial Revolution to the public and private sectors, including the military.

Hanwha Systems is a global leader in developing cutting-edge technologies to build world-class sensor, electro-optics, missile seekers, and cutting-edge technologies to build world-class sensor and IT integration infrastructure for the United States and China.

- In 2018, we launched our new ICT division after having developed world-class IT solutions and services over the years for a variety of industries, including manufacturing, defense, construction, financial services, retail, and education.
- Developing new radars to our portfolio like the FFX Batch 8 multi-function radar
- Developing new radars to our portfolio like the L-sam multi-function radar and M-sam multi-function radar
- Developing new radars to our portfolio like the FF-8 Batch 8 multi-function radar
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- Developing new radars to our portfolio like the L-sam multi-function radar

**2019 Total Sales**

In USD millions

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>467</td>
</tr>
<tr>
<td>2018</td>
<td>455</td>
</tr>
</tbody>
</table>

Hanwha Techwin

**EXPERTISE**

Video surveillance solution

**2018 Total Sales**

In USD millions

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
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</tr>
<tr>
<td>2017</td>
<td>1,701</td>
</tr>
</tbody>
</table>

Hanwha Techwin video surveillance solutions are based on consolidated financial statements.

Hanwha Techwin has taken its 30 years of technological prowess to build a renowned global security company.

Established in 1977, Hanwha Techwin, an advanced optical design, manufacturing, and image processing technology, has acquired a global leader in video surveillance. We're heavily investing in R&D to innovate and meet the ever-changing market needs. So, in doing, we've been gaining recognition as a global top-tier company by applying our experience and subject matter expertise to our product development. We've been able to create a complete line of video surveillance from cameras and recorders to integrated management software. Our products are designed to meet every application, including urban surveillance, retail, transportation, and banking.

We manufacture over 2.7 million video surveillance systems in South Korea, China, and Vietnam. We maintain the largest share of surveillance devices in South Korea, China, and Vietnam. We're heavily investing in R&D and manufacturing in producing advanced systems for surveillance, reconnaissance, control, communications, computer, and intelligence. Our technological excellence is at the heart of our enhanced combat systems and integrated solutions for sensors and arms.

Our strategy is to lead the future defense industry by improving our technical capabilities and building strong relationships with key partners who are leading the trend in IoT (IoT) and Artificial Intelligence (AI). Our seven customer support centers across the nation provide product support for our swarm operations. Hanwha Systems, with its integrated logistics support, has timely customer support, guaranteed.

Hanwha Systems ICT division has a high level of experience in systems integration and management. From having developed world-class IT solutions and services over the years for a variety of industries, including manufacturing, defense, construction, financial services, retail, and education, we are now building custom systems with expertise that differentiates us and makes us more competitive in these industries.

Our ICT division operates a Cloud-based Big Data center that provides data analysis. And combined with our smart technologies powered by IoT and Big Data technologies, we’re developing capabilities to improve productivity, predictability, quality, and processes for our companies and our clients. We’re constantly expanding our product lines to meet the needs of our customers.

Hanwha Techwin’s flagship Wisenet brand represents our technological excellence in video surveillance systems. Hanwha Techwin offers a wide range of products from economically affordable to premium grade solutions that can be customized.

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Hanwha Precision Machinery
www.hanwhaprecisionmachinery.com

Hanwha Precision Machinery is a Smart Factory total solutions company driving the development of the next-generation products in the manufacturing industry. We are leveraging our subject-matter expertise built over the years and continuously innovating to provide a comprehensive portfolio of products to deliver meaningful customer value.

After developing the first chip mounter in 1985, Hanwha Precision Machinery has become a worldwide leader in Smart Factory solutions provider, offering Surface Mount Technology (SMT) mounters, semiconductor equipment, inspection and assembly automation equipment, machine tools, collaborative robots, industrial automation equipment, and integrated software solutions.

After launching in 2013, our flagship DECAN series has continuously evolved. It is now a high-speed mounter that is arguably the world’s only modular conveyor system whose key components can be replaced. The DECAN Series is our best-selling product line with best-in-class performance. In addition, our newly developed high-speed mounter HM120 boasts world-class productivity and is recognized by global customers for its modular head and various production modules.

Hanwha Precision Machinery’s T-Solution is a comprehensive SMT production line solution designed for Smart Factories. It connects all assets in a production line and allows Big Data analysis to provide seamless operations, better quality control, and the ability to operate remotely. T-Solution, recently launched, embodies the principles of Industry 4.0 in terms of interoperability, connectivity, and autonomy. It yields higher production efficiencies, greater installation accuracies, zero defects, and lower maintenance costs.

We’ve been in the machinery business for over 50 years and, in that time, continuously built up our expertise and improved our technology. Our success can be seen in our machine tools, collaborative robots, and operational productivity, which give our customers a competitive advantage in the market by producing parts with short lead times and tune type cycles.

Our machine tools are custom built to meet customer feature requirements and production lines—they’re allowed to capture the largest market share in CNC automatic lathe in South Korea.

Leveraging our unmanned automation technology and experience, we launched South Korea’s first collaborative robot in April 2017. Robots that can perform basic tasks and supplementary work enable us to maximize efficiencies in many industries, including automotive, electronics, food, and medicine.

Our solutions that include the SMT mounters, machine tools, and collaborative robots, are just some of our products that represent our commitment to innovation and our ability to overcome the toughest of challenges. We do this to develop customer-oriented solutions that deliver greater efficiency, versatility, and value. We do this because ultimately, as partners, when our customers succeed, we succeed.

Hanwha Power Systems
www.hanwhapowersystems.com

Hanwha Power Systems is the global energy equipment company in South Korea with independent production, distribution, and testing capabilities. The quality and the advanced technology of our products have earned trust among our customers around the world.

Hanwha Power Systemslaunched in 1997 on the strengths of reliable technology and deep experience in gas turbine engines. Since then, we’ve become a global powerhouse and have delivered more than 5,500 units of air and gas compressors worldwide. Using advanced technology, we developed high-value-added product lines. Our products include industrial compressors, fuel gas compressors for power plants, and boil-off gas compressors for LNG terminals and plants.

We are the only energy equipment company in South Korea capable of independently designing, producing, and testing large-capacity high-pressure steam; South Korea’s first multistage high-efficiency compressors; we provide engines that share lead time and in-house developed core components that give our customers a competitive advantage. In 2014, we won the contract to supply the world’s first marine Vapor Recovery Unit (SRU) to the country’s largest power company. In 2017, we also won the contract to provide compressors for Floating Storage Regasification Units (FSRU) and LNG carriers that give us the opportunity to demonstrate our outstanding technology.

Hanwha Power Systems’ is building long-term partnerships by constantly expanding its sales, customer service, and R&D networks globally. We currently have eight international sales offices that provide sales and customer service, in addition to production facilities in Korea and China. Our US Houston R&D center alliances are creating partnerships on a global scale, like with Southwest Research Institute (SWRI) to build CO2 engines. At the same time, we are focusing on building closer relationships with key customers in the oil & gas industry. We obtained vendor approval for API617 and API672 from Saudi Aramco in 2016 and have been working on securing vendor approval for our products from major clients in the Middle East and Asia.

Our next goal is to become a global top-tier power and energy solutions supplier. To this end, we’re working to strengthen our product portfolio in the compressor business and expand into turbine-related businesses that can support petroleum gas and power generation customers. In strategic cooperation with Baker Hughes, a GE company (BHGE), we’re selling BHGE’s package products, including gas turbines, steam turbines, and reciprocating and barrel compressors. In 2016, we signed an official service contract with BHGE to service the South Korean market on a wide range of products, including gas turbines and steam turbines.

We are currently working to fulfill our contract with the US Department of Energy (DOE) to develop CO2 engines. This project is expected to help us become a game changer by creating new markets in the distributed power generation, effectively supplanting the steam turbine market. Along with our turbo expander generator (TEG), currently being developed as a power generation system using waste heat, we expect our partnerships and innovative developments to propel us to leadership in the eco-friendly solutions power generation market.

In each project, our compressor is a state-of-the-art turbomachinery that features the capabilities of both a compressor and an expander that doesn’t use redundant components, such as a base frame, gearbox, or on-site systems. Hanwha Power Systems’ T-Solution or an oil system. Our compressor is a state-of-the-art turbomachinery that features the capabilities of both a compressor and an expander that doesn’t use redundant components, such as a base frame, gearbox, or on-site systems.
Hanwha Solutions
www.hanwhasolutions.com

EXPERTISE
Chemical: PVC, CA, polyolefin, TDI
Q CELLS: Solar cells & modules, system solutions, downstream energy, retail
Advanced Materials: Automotive materials, electronics materials, solar materials

2018 Total Sales
In USD millions
Hanwha Chemical
3,634
Hanwha Q CELLS
2,964
Hanwha Advanced Materials
1,261

2018 Total Assets
In USD millions
Hanwha Chemical
6,995
Hanwha Q CELLS
3,887
Hanwha Advanced Materials
2,039

Sales and total assets are based on each company’s financial statements before the
merger (Hanwha Chemical, Hanwha Q CELLS, Hanwha Advanced Materials).

Hanwha Solutions was formed in 2020 by the merger of Hanwha Chemical, Hanwha Q CELLS and Hanwha Advanced Materials. We aim to create new synergies and sustainable growth by resolving environmental and social issues faced by customers and society. We are headquartered in Seoul, South Korea, and have more than 70 locations worldwide. We are committed to enriching the future and building sustainable growth.

Established in 1965, Hanwha Chemical is a total solutions chemical company with streamlined production systems for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA). And as South Korea’s leading petrochemical company, we dominate the domestic chemical industry with high-quality PVC, CA, and linear low-density polyethylene (LLDPE) that we offer at competitive prices.

In 2012, we successfully commercialized high-density ethylene vinyl acetate (EVA) for the first time in South Korea. Just four years later, we localized the production of chlorinated polyethylene (CPE)/chlorine (CVC), enhancing the quality of our PVC.

We observed the New Technology Certification from the Korean Agency for Technology and Standards and, in 2017, we built a production line that could produce up to 30,000 tons of CVC annually. We also expanded our specialty product lines. In 2019, we entered the high-quality adhesive market by building a plant dedicated to producing up to 30,000 tons of dry adhesives. EXPOL hydrogenated petroleum resins, with annual demand and beginning commercial production. We partnered with the Institute of Chemical Process at Seoul National University and the Korea Advanced Institute of Science and Technology (KAIST) to establish the research center. It is a significant step forward to enhance quality and accelerate the pace of innovation.

We continue to improve production efficiency and cost competitiveness while meeting the growing demand for our products around the world. Our PVC plant, completed in 2011 in Incheon City, located in Cheo’s Jeju province, is the largest plant in South Korea. At present, 36,000 tons of PVC annually. Today, with continuous improvements in the production process, the plant is producing 95,000 tons of PVC each year in Pang Pu, Thailand. We built an alkyl soluble resin plant with an annual capacity of 17,000 tons. This facility serves as an important base of infrastructure and working to become a global leader. Our high-quality and low-cost PVC and CA have been widely exported to Africa, the Middle East, the Caspian Sea region, and the US.

In our upstream solar businesses, we continue our investments in the infrastructure and working to become a global leader. One of our factories alone can produce annually up to 15,000 tons of polyvinylidene fluoride (PVDF) advanced technologies that produce materials such as ECO-DEHCH, an eco-friendly paint. They represent our commitment to a better environment for a better tomorrow.

Q CELLS Division is a total solutions provider worldwide. Our business scope ranges from the manufacturing of cells and modules to downstream solar solutions, for residential, commercial, and industrial buildings, as well as for large solar power plants.

Since our entry into the solar energy business in 2010, the Hanwha Group has transformed Q CELLS Division into the world’s leading producer of solar cells and modules. Our current production network spans across China, Malaysia, South Korea, and the US. Bolstered by strong revenue and driven to stay ahead of the growing worldwide demand, we turned continued to invest in R&D and manufacturing innovations. Our Malaysia plant alone was able to produce more than 12GW of Q CELLS cells annually in 2019. With its first in the industry in Q2 2016, we penetrated the GC market and began to accelerate to expand into the country by building a 7GW capacity module plant in the US State of Georgia. For two consecutive years, we were Call’s top global

Q CELLS Division has won the Intersolar Award in the Photovoltaics Award in the Photovoltaics Industry Award 2015 in Hamburg, Germany. For two consecutive years, Q CELLS Division has won the Intersolar Award in the Photovoltaics Industry Award 2015 in Hamburg, Germany. For two consecutive years, we were called “the new standard for residential and commercial rooftops.”

Our QANTUM technology is based on PERC cell technology, providing n-type wafers, allowing for higher efficiency and cost competitiveness. In 2019, we entered the rooftop solar power equipment market in Japan and Europe and large-scale power plant markets in the US, Thailand, China, and Latin America. In the same year, we secured a series of large solar projects across Europe in the UK, France, and other countries in 2013, we partnered with US-based Clear Energy to provide a 1GW of modules, accelerating our entry into some of the world’s largest solar markets. We also captured the biggest market share across Germany, the UK, South Korea, and Japan.

Based on its strategies and policies optimized to global energy market, Q CELLS Division is securing its global leadership in the solar industry through long-term growth and expertise.

Hanwha Chemical

Hanwha Q CELLS

Hanwha Advanced Materials

Chemical Division

Ningbo PVC plant in Zhejiang China, completed in 2017, enabling us to target Chinese PVC market with outstanding quality and value.
Founded in 1965, Advanced Materials Division has developed a unique line of products for the global automotive industry. We have also expanded our operations to include bio-based products and other materials that meet the needs of our customers around the world. We are now expanding our operations and technologies to meet the needs of our customers around the world. We are now expanding our operations and technologies to meet the needs of our customers around the world. We are now expanding our operations and technologies to meet the needs of our customers around the world.

Since entering the automotive materials business in 1986, we have launched a diverse portfolio of products for automobile structures and interiors. We now leverage original equipment manufacturer (OEM) designs to build high-strength, super-lightweight materials and parts. Among the materials we produce are StrongLite – Glass Fiber Mat-reinforced Thermoplastic (GMT) and SuperLite – Light-Weight Reinforced Thermoplastic (LWRT). They’ve captured the highest market shares globally, in their respective categories.

We are a major supplier to global automakers, including Honda, Kia, BMW, Daimler, Volkswagen, GAC, Ford, and Toyota. As a global supplier, we have manufacturing factories in Alabama and Virginia in the United States; Beijing, Shanghai, and Chongqing in China; the Czech Republic and Germany in Europe; and in Korea where the largest number of cars are produced for North America. By relying on our ten production sites around the world, we can anticipate the needs of global automakers for parts standardization and global sourcing.

Currently, we’re tracking a global move toward lightweight automotive parts. We anticipate that it’s why we strengthened our investments in R&D years ago so that we could lead the changing industry. Our R&D Center maintains our research and development more globally competitive and helps us lead the worldwide trends toward lighter parts. Our research focuses on thermoplastics, thermosetting composite materials, and on designing and developing new materials. We also develop new materials and manufacturing processes, offering improved functionality and innovative hybrids that enable the latest technologies in the market.

Keeping pace with the rapidly expanding electric vehicle market, we are exploring sales opportunities for battery housing in electric vehicles. We are also developing future mobility markets, such as eco-friendly automotive personal air vehicles (PAVs), and aerospace.

We offer products built with in-house technologies we’ve been refining for sheet manufacturing for the last 30 years. In 2015, we succeeded in developing and mass producing EVA sheets and back sheets used in automotive modules. We operate a plant for BOSF/EVA sheets and 2,500 back sheets in Korea and we’re expanding the business to Europe, the US, and Northeast Asia.

We are especially competitive in the high-functional film market. Currently, we produce components for Flexible Printed Circuit Boards (FPCB), such as Coverlay film (insulation film), 3-layer Flexible Copper Clad Laminate (FCCCL), and bonding sheet (adhesive sheet). We are expanding sales and responding to the PVC market by successfully developing ion resistant materials for microcircuits, such as low dielectric materials and OLED displays. Most recently, we have been developing new products to enter the markets for automotive electronics and electronic battery sensors for electric vehicles.

Hanwha General Chemical

**EXPERTISE**

FPC, PV Business

**2018 Total Sales**

1,727 in USD millions

**2018 Total Assets**

3,133 in USD millions

Hanwha General Chemical was the first company in South Korea to localized production of purified terephthalic acid (PTA). We’re maintaining our No. 1 domestic market share while exporting our process technology to enter new businesses.

Hanwha General Chemical was established in 1974 before being acquired by the Hanwha Group in 2015. It was the first company in South Korea to localize production of purified terephthalic acid (PTA), a primary component in many types of polyester. PTA is used in clothing, industrial fibers, film, and paint. The applications for PTA are expanding dramatically.

Today, our annual PTA production of two million tons, makes us No. 1 in both production capacity and market share in South Korea. Our experience and technology are recognized worldwide. We have leveraged many years of our expertise and applied our PTA processing technology – technology that we’ve proven since 2010 in the Middle East.

And on acquiring the Hanwha Group, we have become more globally competitive by creating synergies with chemical affiliates and diversifying our markets through innovative management and sales practices.

In June 2017, we established Hanwha Sider Power to serve as a growth engine for our PV business and to advance our mid- to long-term growth beyond our single PTA business. Today, Hanwha Sider Power is working hard to promote and invest in solar energy business both domestically and internationally. At the same time, to be more globally competitive, we’re working to improve our PTA-related technologies and develop related businesses in the value chain we have built over the last 40 years.

PTA is the primary raw material for polyester and is widely used in PET resin, bottles, films, paint, and industrial materials.
Hanwha Total Petrochemical
www.hanwha-total.com

EXPERTISE

Ethyene, propylene, BO, EG, SM, PP, PEVA, PP, gasoline, diesel, jet fuel, LPG, solvent

 Since its founding in 1988, Hanwha Total Petrochemical has led the growth of the petrochemical business in South Korea through technological innovations. By executing its market expansion strategy successfully. In 2003, Hanwha Total Petrochemical set out to build a foundation to become a global chemical and energy company. The company executed this plan by forming joint venture with the Total affiliate, Hanwha Total Petrochemical has exhibited solid financial performances. Our business is diversified through the five business units in the Daesan Petrochemical Complex, the company is able to produce a wide range of products from those needed for energy, such as gasoline, diesel, jet fuel, and liquefied petroleum gas, to polymers used in feedstock materials, such as polyethylene and propylene.

We are a petrochemical company in South Korea that operates a naphtha cracking center (a core facility in our petrochemical plant), a condensate fractionation unit (a refining facility), and an aromatics plant, all in one single complex. This complex represents a successfully organized vertical system – from sourcing to producing to distributing the final products. The efficiency we’ve achieved with this system allows us to diversify our business portfolio and pursue stable growth. In 2010 after registering our refining business with the South Korean Ministry of Trade, Industry & Energy (MOTIE), we began as full-fledged energy businesses. In 2014, we made the biggest investment since establishing the business by building an additional aromatics plant, a condensate fractionation unit, and an ethylene- vinyl acetate (EVA) plant. With the additional production facilities, we now produce 1.40 million tons of ethylene, 2 million tons of propylene, and 1.06 million tons of styrene monomer annually.

Our Hanwha Total Petrochemical also produces base chemicals like styrene monomer, paraxylene, and ethylene glycol. With 18 plant units in the Daesan Petrochemical Complex, the company is able to produce a wide range of products from those needed for energy, such as gasoline, diesel, jet fuel, and liquefied petroleum gas, to polymers that are used in feedstock materials, such as polyethylene and propylene. We are the only company in South Korea that operates a naphtha cracking center (a core facility in our petrochemical plant), a condensate fractionation unit (a refining facility), and an aromatics plant, all in one single complex. This complex represents a successfully organized vertical system – from sourcing to producing to distributing the final products. The efficiency we’ve achieved with this system allows us to diversify our business portfolio and pursue stable growth. In 2010 after registering our refining business with the South Korean Ministry of Trade, Industry & Energy (MOTIE), we began as full-fledged energy businesses. In 2014, we made the biggest investment since establishing the business by building an additional aromatics plant, a condensate fractionation unit, and an ethylene- vinyl acetate (EVA) plant. With the additional production facilities, we now produce 1.40 million tons of ethylene, 2 million tons of propylene, and 1.06 million tons of styrene monomer annually.

We have the No. 1 market shares in the EVA used in solar cells, PVC used in bottle caps, the EVA used in inversion coating flow mark few polypropylene (PP) and polyethylene (PE)-vinyl acetate (PVA) blends used in automotive and packaging applications. These products have been recognized as World Class Products by MOTIE. We attribute our success not only to the vertical system we employ and our product diversifications but also to the vast and global network of the Hanwha Group.

YECHUN NCC
www.yncc.co.kr

EXPERTISE

Petrochemical feedstock production

10,188 2018 Total Sales in USD millions

5,321 2018 Total Assets in USD millions

1,874 2018 Sales Volume

YECHUN NCC produces high-purity petrochemical base materials. We are enhancing customer value with our advanced production facilities, cutting-edge technology, and domain expertise.

YECHUN NCC operates the world’s leading naphtha cracking facility in the Yeosu National Industrial Complex. The facility was built in 1999 and is located on the southern tip of the Korean Peninsula. YECHUN NCC represents a fifty-fifty joint venture between Hanwha and Daelim, two South Korean conglomerates that are naphtha cracking industry leaders. The facility annually produces 1.95 million tons of ethylene, 1.11 million tons of propane, and 5.50 million tons of various petrochemical base materials, including benzene, toluene, xylene, styrene monomer, and butadiene.

With fully automated and optimized processes, we diversify our petrochemical feedstocks, this state-of-the-art facility has been recognized as World Class Products by MOTIE. We attribute our improvements and growth annually.

Supported by steady flow of investments, product specialization, facility expansion, and business focus, we are one of the top Naphtha Cracking Center (NCC) companies in the world backed by world’s largest operations. Through continuing to expand our footprint, we are focused on improving our capabilities, our expansion will take us across the globe.
Hanwha Energy
Hanwha Energy Corporation

EXPERTISE
General construction, civil engineering, water treatment.

Hanwha

Construction

www.hwenc.com

EXPERTISE
General energy, solar energy, C&I, system solution

Hanwha Energy

Hanwha Engineering & Construction

Hanwha Energy Engineering & Construction

www.hwenc.com

Hanwha Engineering & Construction is recognized for its ability to successfully complete large-scale and complex projects in the global market, such as building an entire city, constructing chemical plants in the Middle East and North Africa, and completing various real estate projects in the Americas.

Hanwha Energy Engineering & Construction has quickly become a global player by leveraging its extensive experience in construction projects and applying new technologies and subject matter expertise across industrial, chemical, and power plants, oil and engineering works, commercial buildings, and more. We have been recognized as a global contractor in Engineering News-Record for our sheer development scale and global design of an entirely new city.

In 2014, we demonstrated our technological prowess by successfully building the world’s largest domed arena in the Philippines, a bridgehead for our Southeast Asian market entry. We also began building power and petrochemical plants in the Middle East and North Africa, and developing large real estate projects in North America.

In South Korea, Hanwha Engineering & Construction has been responsible for the nation’s largest urban development projects that have exceeded the construction of homes for more than 70,000 households at 95 sites. We led the industry by pioneering advances in large-scale construction, including Daejeon Techno Valley, South Korea’s first development project and effort to build an entire city.

Bermamyt city will be the world’s largest urban construction that includes infrastructure facilities to support 100,000 households and 500 firms. The Bermamyt New City is the first overseas project of its readiness in South Korea, and is expected to be lauded for its sheer development scale and global design of an entirely new city.

In the US, we signed more than 1GW PPA for energy storage, and another is a 31.5MW solar power plant in Saemangeum, South Korea. In December 2017, we built a 19MWh solar energy connected Energy Storage System (ESS) in Goseong, South Korea.

In addition, we are expanding our energy system solutions with our smart energy business model. In December 2017, we built a 19MWh solar energy connected Energy Storage System (ESS) in Goseong, South Korea. We are using ESS to take advantage of the discount on the retail electricity rate and achieve peak savings at factories and buildings in South Korea. Going forward, we plan to implement our energy solutions for distributed energy sources, such as ESS and microgrids in other countries, including Japan, the US, and in Europe.

To build sustainable growth, we are diversifying our energy business and building businesses overseas in solar power generation, C&I business, system solutions, and more. In Japan, we’ve begun operating several solar power plants with a combined capacity of 15MW. One of the plants is a 24.5MW solar power plant located in Osaka and another is a 21.5MW solar power plant in Kyushu, one of largest of its kind in Japan. We also operate a 31.7MW solar power plant among others in Turkey. In India, we run a 90MW plant. The solar power plants currently under construction in Japan are approximately 95MW. Plans to expand further are already underway.

In the US, we signed more than 1GW PPA through our local subsidiary across several locations, including Texas and Nevada. Commercial operations are expected to begin soon.

To efficiently operate and systematically maintain renewable assets, we’ve established an O&M business that uses our Hanwha Energy Integrated System (HEIS) as its base. Our O&M service helps to ensure stable profits for our customer’s assets through improved performance, maximum productivity, and efficiency. As a result, our O&M business has grown to become the No.1 renewable O&M provider in South Korea and is now one of the main pillars of our renewable energy business.

In South Korea, we operate cogeneration plants that provide a stable supply of high-quality electricity and ultra-high-pressure steam to companies in national industrial complexes. In 2007, Hanwha Energy, an integrated energy solutions company, was established to develop forward-looking energy solutions for distributed energy sources.

Established in 2007, Hanwha Energy is a comprehensive energy solutions company. We operate cogeneration plants that provide a stable supply of high-quality electricity and ultra-high-pressure steam to companies in national industrial complexes in South Korea. By providing readily available power, our plants improve the competitive advantage of our off-takers. Our energy solutions consistently comply with South Korean government requirements for energy efficiency and greenhouse gas emissions reduction. Our relentless pursuit to improve our technology gives us the means to continuously improve our existing solutions and at the same time, seek new ones.

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Hanwha City Development is the technology hub of South Korea and home of the most technologically advanced companies and research facilities. Hanwha City Development is considered an exemplary model of how a high-tech industrial complex should be built and is credited with revitalizing the local economy.

Hanwha City Development exemplifies the kind of business that is needed in the Fourth Industrial Revolution—it is able to use its experience and know-how to develop high-tech complexes and at the same time, operate in a way to generate the trust and loyalty of its local communities.

Hanwha City Development has been recognized as the leading private developer of high-tech industrial complexes since it was established in 2001. Starting with success in Daedeok Techno Valley, additional projects followed, such as the Asan Techno Valley project (2,984,000m², 300 enterprises, 8,000 households), the Seosan Techno Valley project (1,994,000m², 200 enterprises, 6,000 households), and the Gimhae Techno Valley project (1,643,000m², 200 enterprises), and the Gyeonggi Hwaseong Bio Valley project (1,496,000m², 200 enterprises). Each completed project stood out as an achievement and garnered high praise. The projects are considered exemplary development models and not surprisingly they have been benchmarked by several local governments.

Encouraged by these achievements, we’ve made further investments for the future, breaking ground on the Yongin Techno Valley project in 2015. There is high anticipation Yongin Techno Valley will be an industrial complex that will be home to many R&D centers, companies and startups in IT, fusion technology, and in other areas of technology. When completed in 2020, the industrial complex is expected to play an important role as the center of the industrial belt, south of Seoul.

We’re also building for the future of our local economies. The Siheung Recycling Industrial Complex will help revitalize the local economy by improving industrial environments, attracting businesses, and creating local jobs.

Hanwha Life
Hanwha General Insurance
Hanwha Investment & Securities
Hanwha Asset Management
Hanwha Savings Bank
Hanwha Life
www.hwlife.com

EXPERTISE
Life insurance, mortgage and personal loans, trust, fund, retirement pension

2018 Total Sales
$13,864

2018 Total Assets
$102,229

Hanwha Life continues to expand in asset quality stability, sales, and product development. And we're moving forward, aspiring to our advanced capabilities so we can lead in the financial markets of the future worldwide.

Established in 1946, Hanwha Life is not only the life insurance company that also is the first and oldest in South Korea. Early on, we played a pivotal role in developing the industry and the country's economic growth. In 2018, while expanding, we made sure to remain structurally sound, reporting total assets of USD 102.2 billion. At the end of 2018, we achieved a 2.12 percent risk-based capital (RBC) ratio, demonstrating the soundness of our asset quality. Our strong ratings from domestic and international agencies attest to our financial health. We have received a number of awards from South Korea's top rating agencies for the past two decades. We also earned global credit ratings of A1 from Moody's and A+ from Fitch rating agencies in 2018.

Hanwha Life is committed to adding innovative products and services that meet a wide range of customer needs. By upgrading our customer product, and channel (CPC) strategy, we provide customized products and services that add to our LIFEPLUS brand.

We also innovate by aligning our offerings to customer life stages. Using Big Data to analyze customer needs, behaviors, and interests, we strategically apply this knowledge to better serve customers. To this end, we've trained our customer service professionals on all issues to deliver improved care.

Our efforts have been rewarded with the Grand Prize – the Korea Service Award from the Korea Standards Association in the life insurance sector for eight consecutive years through 2017. We were also inducted into the Hall of Fame. The Quality Index survey, managed by Korea Management Asset Consulting, gave us top ranking for nine straight years for customer service and eight years for all categories. Since our first certification in 2007, the Korea Fair Trade Commission has awarded Hanwha Life with six consecutive Certifications for Excellence in Consumer-Centered Management (CEM).

To increase sales and profitability, we are focusing on value-based sales, and expanding product features, and expanding protection and saleable insurance products. We are also diversifying our investment assets and applying risk management to aggressively and preemptively respond to changes in the financial market. In 2018, we continued to sharpen our competitiveness in the market by using multi-channels to provide diversified products and services and by enhancing communications across headquarter, sales, and customers. However, in anticipation of changes in the market, when applying our digital capabilities, product development, digital technology, and our government-oriented data support.

In the international market, we lead the industry. Our Korean subsidiary was founded in 2006, the first of its kind by a South Korean company. With an effective location strategy, a strong nationwide sales network, we turned a profit in 2015, a first for a South Korean insurer in Vietnam. Our Chinese subsidiary, Sino-Korea Life Insurance, is expanding to sales territory by entering new markets. In Indonesia, our subsidiary is building a digital-environment structure with a long-term perspective. Moving forward, we are setting the foundation to provide digital financial services in major Asian hubs while pursuing insurance products and digital financial businesses in Southeast Asia.

In 2018, Hanwha Life continues to secure profitable structure that support value based sales and company profit expansion. We plan to expand our global business and secure growth engines in French and Big Data. We push innovation and, with each success, we're inspired to drive forward as a world-class life insurance company.

Hanwha Life
www.hwlife.com

EXPERTISE
Long-term insurance, automobile insurance, general insurance, mortgages, personal loans

2018 Total Sales
$6,746

2018 Total Assets
$14,514

Hanwha General Insurance is a major insurer with USD 14.6 billion in total assets. We are internationally recognized for our financial stability and steadily growing using diversified asset management strategies and increasing customer value.

Established in 1946, Hanwha General Insurance is the first South Korean insurance company founded solely by domestic capital. Throughout history, we've played a pivotal role in developing South Korea's general insurance industry. Today, we make a major insurer with total assets of nearly USD 14.6 billion. We use advanced services to enhance customer value and offer a comprehensive product portfolio ranging from long-term insurance to auto and general insurance.

We created a Consumer Protection Charter, improved service quality, and minimized customer inconvenience to provide an overall superior customer experience. Management (CCM).

Our company is on an upward trajectory to build a risk-based management structure, improve long-term insurance ratio, advance the compensation process, and increase high yield, higher-value-added contracts. We are pursuing healthy financial growth by seeking stable, diverse, and innovative investments at home and abroad.

Hanwha General Insurance has implemented a set of customer-centered business processes and has organized its management to deliver customer value-oriented solutions. Our solid financial structure allows us to invest in research to develop the products and services with the customer's best interests in mind.

As a result, in 2018 we were favorably scored globally, receiving ratings for our financial stability and growth potential. S&P gave us a rating of A, while Moody’s and Fitch gave us an A+ and A2 respectively. More recently in August 2018, A.M. Best, the international insurance industry rating organization, upgraded our rating from A- to A because of our financial strength and potential growth.

Hanwha General
Insurance
www.hgInsurance.com

汉武ière, ahip, which stands for the life insurance industry in South Korea, has been the first online life insurance sales channel in South Korea. Our service series yet another channel through which we will expand our life insurance business.
Hanwha Investment & Securities is a trusted financial investment partner dedicated to providing sources for stable and diversified income even amidst a rapidly changing financial environment in an era of digital transformation.

Established in 1988, Hanwha Investment & Securities provides comprehensive asset management services including brokerage and acquisition of stocks, bonds, and derivatives, as well as sales and asset management services for various financial products. With our differentiated systems and high-quality talents, we have successfully established ourselves as a reliable asset management partner. Our financial products and customer-oriented services are offered domestically and overseas.

In the ever-changing capital market, we’re committed to responsible and diversified income even amidst a rapidly changing digital financial environment. We developed unique ways to ensure simpler and more intuitive features of our mobile trading system and continue to upgrade even the intuitive features of our mobile trading system and continue to upgrade others based on customer feedback.

Hanwha Investment & Securities continues to grow its digital financial platform so it can provide differentiated products and services that are expected by digital transformations and trends. In July 2017, we established the Data Analytics Lab, the first big data analysis company in the South Korea financial investment industry. The lab conducts research projects on various topics including Big Data analysis and offers general consulting and applications consulting. In April 2019, as part of our efforts to expand our global operations and at the same time secure a new growth engine, we acquired HFT Securities of Vietnam's online stock brokerage company. The acquisition of HFT Securities in Hanwha Investment & Securities is one step to enter Vietnam, potentially high-growth market and establish a digital financial platform to offer competitive products and services.

Our business motto is “To grow together” with our clients, shareholders, and employees with sustainable products that yield stable profitability. As a trusted and financially stable company with expertise in a range of industries, we are confident we can build a better future for our customers.

The foundation of our principle is customer satisfaction, protecting investments, and growth. At Hanwha Investment & Securities, we believe in responsible management and service innovations to ensure we can be a reliable financial partner.

Hanwha Asset Management is one of the top three asset management companies in South Korea. With our comprehensive operation systems, innovative solutions, and customer-focused management philosophy, we’re rapidly becoming an investment company of choice in Asia.

Founded in 1998, Hanwha Asset Management has grown into a comprehensive asset management company offering a full range of financial instruments, including stocks, bonds, MMFs, fund of funds, social overhead capital, derivatives, real estate, ETFs, and PEFs in both domestic and overseas capital markets. At the end of 2018, we were among South Korea’s top three asset management companies with USD 80.20 billion in assets under management (AUM). We have people with unparalleled expertise who operate highly organized systems across all areas including product development, research, development, and risk management.

All of our products and services cater to the needs of our customers because we strictly adhere to our principle and management philosophy to place our customers first before anything else.

Hanwha’s expertise and industry-leading innovations have been recognized with numerous industry awards in South Korea, including the Best Fund Seller Award in ETFs as the 2019 Maekyung Securities Awards by Maeil Business News Korea, the Top Prize in international bonds at the 2019 Korea Fund Awards by Kyungkioni, the Grand Prize in global funds at the 2019 Maekyung News Korea; the Grand Prize in ETF at the 2019 Maekyung News Korea; the Top Prize in international bonds at the 2019 Korea Fund Awards by Money Today news media; the Grand Prize in global funds at the 2017 Herald Fund Awards by Korea Media News media; the Grand Prize in global funds at the 2017 Korea Fund Awards by Seoul Economic Daily news media; the Grand Prize in global funds at the 2017 Asia Financial Product in the First Half in 2017 by South Korea’s Economic Review magazine; and the Grand Prize in global funds at the 2017 Korea Fund Awards by Maeil Business News media; the Grand Prize in global funds at the 2017 Korea Fund Awards by Seoul Economic Daily news media; the Grand Prize in global funds at the 2017 Herald Fund Awards by Korea Media News media; the Grand Prize in global funds at the 2017 China Fund Awards by the Asian Fund Awards; and the Grand Prize in global funds at the 2017 Asia Financial Product in the First Half by the Asian Fund Awards.
Hanwha Savings Bank is a stable financial institution that has earned its customers’ trust over the years with its top-quality sales teams, financial products, and disciplined management.

EXPERTISE
Deposits, commercial and personal loans

2018 Total Sales
In USD millions
45

2018 Total Assets
In USD millions
853

Today, we are a sound savings bank whose continued growth is backed by the confidence of our customers. We constantly strive to benefit both our clients and the society by developing products that serve their interests. Our risk management system enables us to perform faithfully by providing individual and business clients with top-quality financial products and services.

Hanwha Savings Bank is a financially sound blue-chip savings bank. We faithfully fulfill our role as a microfinance institution by supporting small and medium-sized companies with great potential, developing new products, and providing convenient services.

Founded in 1997, Hanwha Savings Bank joined the Hanwha Group in 2008 and has since grown into one of the most stable savings banks in the industry. Even in unfavorable business climates, we’ve been able to safely pursue external growth with our experienced sales teams and a highly disciplined management team. We also found success by extending the fundamental roles of microfinance institutions and supporting small and medium-sized companies with great potential.

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Services & Leisure

Hanwha Hotels & Resorts
Hanwha Galleria
Hanwha Galleria Timeworld
Hanwha Estate
Hanwha Station Development
Hanwha Hotels & Resorts is becoming South Korea’s premier leisure and service provider of resorts, hotels, and food service.

Our Resort Division began operations in 1997 as the developer of South Korea’s first resort condominium project. We own South Korea’s best condominium chains that include the Sapporo World Resort in Japan and the Ocean Plaza Golf Club & Resorts in Japan that combined, boast over 1,200 guest rooms across 13 properties. In Japan and South Korea, we own and operate 13 premier golf courses totaling 126 holes. We partner with Resort Condominiums International (RCI), a worldwide membership network, to operate hotels and resorts in China and South Korea.

We also operate Sokcho Seowon, Gyeongsangbuk-do’s oldest historic site, culture center, hotel, and multi-use building in Gyeonggi-do, along with a convention center, hotel, and multi-use building in the luxury complex.

Our vision is to be the No. 1 premium content producer. To this end, Hanwha Galleria will offer unparalleled values that no other retailer can provide. We’ve already begun by enhancing our merchandising with better lifestyle services and offering more services dedicated to VIP customers.

Our department store division is stocking the best high-end brands and Galleria Only brands and making them available in exclusive stores and environments. Our customers have come to expect and demand from us more than ever, and going forward, we’ll look more toward the rapidly changing landscape.

Our goal is to deliver the highest-quality service in the industry. Doing digital is one path we’re taking; the other is continuing our investment in our current business with renovations and new store openings. The way we pursue our vision, will continue our consistent growth streak.

Hanwha Hotels & Resorts
www.hanwha.co.kr

EXPERTISE
Resorts, hotels, leisure, food services

2018 Total Sales

In USD millions

2018 Total Assets

In USD millions

1,134
2,196

1,670
324

Seosan, Korea combines the beautiful natural scenery of the East Sea with Seosan, Korea, where guests can appreciate the soothing and relaxing atmosphere. Guests can also enjoy leisure facilities such as Sokcho Seowon, Sokcho Cheonje, Film Lot, and Paris IC Seosan.

In 2018, our Hotel Division took over the Sea World in Okinawa, Japan, adding an elaborate aquarium. Hanwha Hotels & Resorts is combining the beautiful natural and passionate scenery of the East Sea with the high peaks of Seorak. The new resort, Pororo Sea World, will offer unparalleled values that no other retailer can provide. We’ve already begun by enhancing our merchandising with better lifestyle services and offering more services dedicated to VIP customers.

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Hanwha Galleria
www.hanwha-galleria.co.kr

EXPERTISE
Retail, luxury

2018 Total Sales

In USD millions

2018 Total Assets

In USD millions

324
1,670

Sokcho Seowon combines the beautiful natural scenery of the East Sea with Sokcho, Korea, where guests can appreciate the soothing and relaxing atmosphere. Guests can also enjoy leisure facilities such as Sokcho Seowon, Sokcho Cheonje, Film Lot, and Paris IC Sokcho.

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Hanwha Galleria Timeworld
www.hanwha.co.kr

Hanwha Galleria Timeworld
is the largest high-end department store in central province of South Korea. Our unique luxury brands, gourmet restaurants, and differentiated leisure facilities cater to seekers of premium lifestyle experiences and consumers of all ages.

Hanwha Galleria Timeworld is a subsidiary of Hanwha Galleria, primarily oversees department stores in the city of Daejeon.

Hanwha Galleria Timeworld is itself also the largest high-end department store in central province of South Korea. It is located in the metropolitan area of Daejeon city, where public institutions, financial companies, and large apartment complexes are concentrated. Hanwha Galleria Timeworld specializes in luxury fashion brands from around the world. We’ve subdivided expansive areas within the building for homeware, décor shopping, experiencing culture, entertainment, and a range of international gourmet restaurants to satisfy the interests and tastes of everyone young and old. In 2019, we expect to secure our status as the top department store in the central province of South Korea by launching additional luxury brands and renovating our group of restaurants. Timeworld East will focus on affordable fashion brands for newcastle fashionistas while Timeworld West will be renegotiated to offer exclusive signature products targeting mainsteam customers. We will also improve the exterior of our building with a differentiated design that will make it a Daejeon city landmark. Hanwha Galleria Timeworld is building on its local reputation to become a major department store recognized nationwide.

Hanwha Galleria Timeworld in the central part of South Korea, providing premium lifestyle experiences with the widest selection of exclusive luxury brands and exceptional gourmet services.

Hanwha Estate
www.hanwhaeast.com

Hanwha Estate has extensive experience in managing more than 100 diverse facilities and properties around the nation. We offer differentiated solutions by maximizing customer asset value and providing advanced energy-efficient and eco-friendly models.

Hanwha Estate is a comprehensive real estate services firm offering real estate consulting, asset and facility operation management, construction, security solutions, and energy-efficient projects designed to increase the value of client assets.

Our real estate consultations are designed to provide meaningful insights through the employment of isolated solutions. Our consultation begins with a thorough market analysis and innovative perspectives appropriate to customer and property characteristics. In asset and facility management services, we assign highly skilled and experienced professionals to the project to provide ongoing administrative and technical support. Harnessing our full spectrum of facility management experience, we provide high-quality services that fulfill customer needs.

Since our founding in 1988, we have continually expanded business and enhanced our competitiveness. Building on our deep operational expertise, we have provided real estate management services for more than 100 Hanwha affiliate buildings and client assets, including office buildings, data centers, resorts, complex facilities, and research centers. Our asset management experience has sharpened our skills in property management and deepened our expertise in facilities, machinery, equipment, disaster prevention, security, and construction. Our comprehensive technical services include completed construction site inspections, safety audits, functional checks of firefighting facilities, and physical inspections.

In the construction and security businesses, Hanwha Estate guarantees excellent construction quality and safety by rigorously following basic principles across process, safety, construction, and quality control. We also check energy flow throughout each building and provide eco-friendly models for energy efficiency. Our converged services add up to one-stop solutions for all customer needs.

We have also taken advantage of our nationwide network and trial business portfolio to steadily increase our stake in real estate management. Building on that portfolio, we expect to become an innovator in real estate services as we reinvent and enhance the value of commercial space by creating synergies from our diverse businesses.

EXPERTISE

Retail, fashion

2018 Total Sales
In USD millions
302

2018 Total Assets
In USD millions
404

In USD millions
2018 Total Assets
91

In USD millions
2018 Total Sales
35

Hanwha Galleria Timeworld is in the largest department store in the central part of South Korea, providing premium lifestyle experiences with the widest selection of exclusive luxury brands and exceptional gourmet services.
Located in the northeastern part of Seoul, Cheongnyangni Station is a nine-story complex with more than 177,793 square meters of space, including three underground levels. With a department store, an outlet mall, a theater, and restaurants, it is driving economic growth for the community around it.

Hanwha Station Development is a premier developer and manager of commercial complexes whose core competencies are in developing and operating advanced railway stations.

Hanwha Station Development is a premier developer and manager of railway stations. Since our founding in 1987, we have pioneered the retail and leisure culture by combining commercial complexes with railway stations. We developed building complexes in the centrally located Seoul Station and the Cheongnyangni Station—logistics hubs in the northeastern part of Seoul. By leveraging our expertise and capabilities in business assessment, concept development, project financing, lease marketing, construction management, and facility operation, we are fast becoming an industry-leading developer and manager of commercial complexes.
Corporate Social Responsibility
As a world-class solar energy business enterprise, our mission is to achieve sustainable growth; our guide is our social responsibility. This is why we’re educating children through eco-friendly programs, and inviting people to join the energy revolution through activities that contribute to climate change and help the environment. From installing entire solar power generation systems to making communities energy self-sufficient to building solar forests to light deserts, we’re not only using solar energy, we’re making a difference.

Hanwha is driving the use of sustainable energy in communities with expertise gained from vertical integration of our solar businesses. Our brand mission program is Happy Sunshine, a project where we donated a total of 1,776 KW solar power generation systems to 246 welfare centers in South Korea to help them save on utility bills. We also operated Hanwha Hope Project where we donated solar power generation systems to elementary schools in underserved areas in China.

Hanwha solar modules donated to the World Economic Forum Congress Center in Davos

Hanwha has created extraordinary social contribution program. We’re committed not only to our customers and employees but also to the people who live in the communities where we do business. Going back is part of our culture and we do this through professional organizations, and Hanwha support. We engage in activities that help keep dreams alive and enthusiasm going. By combining our professional talents with our desire to do good, we’re turning ideas into practical solutions to improve lives and the world in which we live.
Supporting Young Leaders of the Future
Hanwha believes that fostering talents will ultimately contribute to society. Since our founding, we have expanded our programs that develop leaders of the future, such as establishing the prestigious private school, the Bugil Foundation. In 2011, we began sponsoring the Hanwha Science Challenge, a high school science competition aimed at discovering outstanding students in science. Since 2015, we have also hosted the Hanwha-KAIST Science Outreach Program, a science education program to middle school students in the Daejeon area. Our employees provide various cultural and arts education to children through our Hanwha Arts Plus program. From 2009 to 2017, we have provided programs that offered 6,000 classes in art, music, and dance to more than 10,000 disadvantaged children. And since 2015, we have sponsored review art education, such as social design and photography classes, for middle school students in 30 regions around the country. Launched in 2014, our DaejeonPlus program offers online and offline classes for young entrepreneurs seeking to start a business or find employment and participating in environmental cleanup campaigns. Every October to celebrate Hanwha’s founding, all affiliate companies participate in volunteer services for the disadvantaged.

Hanwha KAST Science Outreach Program, Convergence Science Camp
Hanwha partnered with KAIST to jointly host a science camp to nurture future scientists.

Caring Employee Volunteers
Hanwha actively engages in social contributions with the help of its employees. One of our flagship programs is an enterprise-wide program that hands-on activities designed and taught by the employees themselves in whichever industry and area that they are formally trained. Our other programs include giving assistance to people on welfare and participating in environmental cleanup campaigns. Every October to celebrate Hanwha’s founding, all affiliate companies participate in volunteer services for the disadvantaged.

Hanwha Arts Plus Calendar
Since 2009, Hanwha has annually produced and donated 50,000 braille calendars for the visually challenged. These braille calendar donations are the largest of its kind and represent our ongoing commitment to help everyone read and use the calendars for all seasons, holidays, and cycles of life.

Hanwha Solutions, the first solar energy solutions provider to receive the Product Carbon Footprint Certification (ISO 14067)
Hanwha SolarOne became the first solar energy solutions provider to receive the Product Carbon Footprint Certification (ISO 14067).

Protecting the Environment and Addressing Climate Change
In 1991, through the ECO-2000 campaign, Hanwha became the first South Korean company to implement environmental management. We announced our Environmental Safety and Health Policy in 2000 and have since implemented sustainable management practices for environment, safety, health, energy, and greenhouse gas. We also created a master plan to set performance index targets for 2020 for environmental performance and safety. The plan included the reduction of greenhouse gases, increasing energy productivity, and improving OTR (Lost Time Injury Rates).

Responding to Climate Change
Since 2013, Hanwha has provided free classes on climate change to the general public to increase awareness of climate change and help us to use cleaner energy. In addition, starting in 2016, we began collaborating with the government and environmental NGOs to operate a solar startup academy that offers professional education programs for the solar energy business. We will attract about 80 people in every session.

Establishing a Culture of Safety
Hanwha works to gain community trust by promoting safety and creating safe workplaces. It’s part of our corporate culture. Along with regular safety leadership training for executives and team leaders, we developed a diagnostic tool to monitor each employee’s safety awareness. This system identifies and improves an employee’s safety performance and then encourages changes in behavior that align with our better and safer work culture. We also actively work to prevent accidents by requiring everyone to follow a strict set of rules and safety policies and to observe industry leading indicators for occupational safety.

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WINNING PARTNERSHIPS

Hanwha believes our partners are also part of our family. For small and medium-sized business partners, we help create self-reliant environments and encourage good management over them. We support our partners to build a foundation for the growth and independence.

Building an eco-friendly energy self-sufficient project on South Korea’s Jukdo Island
In collaboration with Chungcheongnam-do, Hanwha transformed Jukdo Island into an energy self-sufficient island.

Commitment to Mutual Growth
Since 2009, Hanwha has fostered collaborative partnerships with over 1,500 small and medium-sized enterprises. We’ve helped them grow their businesses by strengthening their core competencies, supporting their financial needs, and guiding them to engage in fair trade practices. In 2011, we promoted mutual growth by seeking collaboratively with our partners instead of competing against them. Since then, we have created an annual co-prosperity fund of USD 178 million and earmarked a private equity fund of USD 178 million and transformed Jukdo Island to become an energy self-sufficient island.

Building Winning Partnerships
Leveraging our spirit of “trust and loyalty,” Hanwha stays connected with our suppliers. We work frequently with partner companies and have put into practice our belief in “Going Further Together” by engaging in joint businesses, sharing technology, exchanging know-how, and providing exemptions from performance guarantees. We are expanding industry-specific programs to help our partners become more competitive as they expand their domestic and international sales networks. We are also supporting their innovations, equipment purchasing, and assisting them in executing best practices for safety, process, environment and quality control.

Inovigating the Regional Economy
Hanwha helps suppliers in rural areas to sell their products at our retail department stores. For example, when we find hidden high-value-added agro-food products that at the same time increase the local economy, we stock them in our local retail stores. Also, using our micro-grid business, solar energy-linked ESS (Energy Storage System) technology, we transformed Jukdo Island in Chungcheongnam-do into an energy self-sufficient island, reducing energy costs and helping tourism.

Promoting Work-Life Balance
Hanwha pursues a future-oriented organizational culture that continuously innovates while overcoming challenges. To this end, we recruit talented people from all over the world and sponsor programs that help employees grow into global talents. Young Hanwha is a program that fosters the efforts helping us to move forward and build on the passion that is part of our legacy and foundation.

HUMAN RESOURCES

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Agreements on fair trade and mutual growth
Co-prosperity fund
Private equity fund for mutual growth
Ongoing meetings with partner companies
Energy self-sufficiency project on South Korea’s Jukdo Island

Sharing Values
Hanwha strives to hire creative individuals who are driven to innovate. We seek people who pursue excellence and will be loyal to our customers, colleagues, and company values. We seek people who will work hard to achieve their goals and understand the importance of supporting a greater cause. We develop global talent with professionalism and by providing a range of training programs for specific jobs and positions. We seek people who pursue excellence and will be loyal to our customers, colleagues, and company values.

Global talent program
Overseas training programs
Programs for core talent
Work-life balance policies
One-month sabbaticals
Flexible work shifts and work overload
Job placements

Cultivating Global Leaders
Hanwha continues to invest in talent. Our global talent program nurtures employees with potential and interests in global business. In our regional specialist program, we send associate and junior managers all over the world to become local experts by experiencing the business and culture of those countries. We also operate a special program to select and develop executive talent to lead Hanwha’s future. In our commitment to develop Hanwha’s future global leaders, we sponsor select employees to attend courses of an MBA or EMBA from the world’s best programs or to earn a master’s or doctoral degree in STEM (Science, Technology, Engineering, and Math).

Growing Hanwha with global talent
Together, Hanwha’s worldwide talent is building Young Hanwha.

Promoting Work-Life Balance
Hanwha’s company-wide work-life balance policies are designed to improve an employee’s quality of life. Our efforts have received broad recognition. We’re listed as one of Korea’s 100 best places to work in a family-friendly and gender-equality company. When we commemorated our 64th anniversary in 2016, we announced the Young Hanwha program and introduced corporate culture initiatives like getting a one-month sabbatical when promoted, flexible work shifts, and support for career development. These initiatives are all contributing to the foundation that will ultimately help Hanwha become a global top-tier company.

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Global Network

We have maintained trusted partnerships that have lasted more than 60 years. Together we have collaborated, invested, and built across markets in almost every continent. Together, we have grown Hanwha has 95 plants in South Korea alone and 317 networks around the world as of end of 2018.

As we continue improving quality and innovating to exceed customer expectations, Hanwha will continue to grow beyond today’s interconnected global business environment. This is Hanwha Group.