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

SUNG TAE 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.

In solar energy, our vertically integrated 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.
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.

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.

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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.

Working in Synergy to Enhance Competitiveness

From refining basic chemicals to producing synthetic fuel and advanced materials, Hanwha’s integrated portfolio impacts a wide range of industries, including automotive, electronics, and solar energy. By aligning the company’s R&D, in-house supply chain, and manufacturing facilities toward a common vision, Hanwha is better able to pursue continuous innovation and new growth areas while controlling costs.

CHEMICALS & MATERIALS

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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 36 million tons and is rapidly becoming a major player in this important market.
Global Leader

Hanwha has built a world-class ethylene vinyl acetate (EVA) production plant with an annual capacity of 710,000 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.

World-Class Innovation

After developing the W&C compound, an innovative polyethylene synthetic resin, for the South Korean market, Hanwha has had a significant impact on the South Korean manufacturers from their dependence on imported resins for power transmission and distribution cables.

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 expand our process technology, we are increasingly recognized around the world for our technological prowess.
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.
WE HAVE THE ANSWERS TO THE QUESTIONS YOU HAVE FOR THE FUTURE.
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.

**AEROSPACE & MECHATRONICS**

**Leading in Innovation and Expertise**

We are the only company in South Korea with advanced aircraft engine technology. Through our innovations and industrial expertise, Hanwha is becoming a global force in the aerospace and mechatronics industries with outstanding technologies for radars, optronics, avionics, and unmanned control systems.

**AEROSPACE**
- Aircraft engines
- Aircraft components
- Aerospace sensors
- Aerospace components
- Aerospace systems

**MECHATRONICS**
- Value surveillance solutions
- Intelligent video analysis solution
- Industrial equipment
- Industrial air and gas compressor
- Industrial automation systems
- Collaborative robots
- Gas turbine package
- Power generation system

**EXPLOSIVES**
- Commercial explosives
- Mining services

**Hanwha**
- Hanwha Aerospace
- Hanwha Technologies
- Hanwha Precision Machinery
- Hanwha Power Systems
- Hanwha Corporation

**TOTAL SOLUTIONS PROVIDER IN AEROSPACE & MECHATRONICS**

Video surveillance solutions
- Video surveillance equipment
- Integrated management solution
- Intelligent video analysis solution

Industrial equipment
- Chip mounters, screen printers, semiconductor flip chip mounters, total solutions of SMT production
- Collaborative robots

Industrial air and gas compressor
- Gas turbine package
- Power generation system

Factory and warehouse automation
- Engine/Transmission assembly line
- Tool cup and mold manufacturing equipment
- Heat treatment furnace
- Wood pellet production line for biomass power plant
- Sodium battery production equipment
- Module packing system

**Hanwha Corporation**

**Hanwha Aerospace**

**Hanwha Precision Machinery**

**Hanwha Power Systems**

**Hanwha Technologies**
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.
SECURITY

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. Not only is this 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, communications, computation, 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.

Accelerating Energy Sustainability
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.
Technology Leader

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 modules, 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.

Solar cells & modules

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.
INNOVATE

SECURE

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.

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.

FINANCE

Hanwha Investment & Securities

Securities
Asset management, brokerage services, trading, investment banking

Hanwha Savings Bank

Banking Products
Deposits, commercial and personal loans

Hanwha Life
Hanwha General Insurance

Insurance
Life, non-life insurance
General insurance

Hanwha Asset Management

Asset Management
Stocks, bonds, ETFs, derivatives, real estate

Hanwha Asset Management

Total Financial Solutions

BANKING PRODUCTS
Deposits, commercial and personal loans

TOTAL FINANCIAL SOLUTIONS

INVESTMENTS
Asset management, brokerage services, trading, investment banking

FINANCE
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.
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.
WE IMAGINE DISTINCTIVE EXPERIENCES TO HELP YOU REALIZE YOUR DREAMS.
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.

**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 Hotels & Resorts**

**Hanwha Galleria**

**Hanwha Galleria Timeworld**

**Hanwha Bistrel**

**Hanwha Station Development**

**COMMERICAL DEVELOPMENT, PROPERTY MANAGEMENT**

**COMPREHENSIVE REAL ESTATE SERVICE**

**RETAIL & FASHION**

**WIDE-RANGING PREMIUM EXPERIENCES**

**SERVICES**

**& LEISURE**
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.

Hanwha Galleria Luxury Hall
**THE PLAZA**

South Korea’s most luxurious boutique hotel and considered one of the preeminent 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.

**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, Il-san, and Seoul. Aqua Planet Jeju features a diverse and world-class marine aquarium. Aqua Planet Ilsan features an aquarium and a zoo combined. 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.**

**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. Nestled between a lush coastal mountain top and an idyllic sea, the Belvedere is the ultimate destination where nature meets luxury. There are 470 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.**
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 Engineering & Construction is at the forefront of the global construction business. By building on our deep expertise, our business can successfully expand across chemical and power plants, civil engineering works, commercial buildings, and more. Hanwha City Development, a leading private developer of high-tech industrial complexes, is also gaining reputation as an experienced real estate developer with end-to-end solutions.

CONSTRUCTION

Imaginations to Possibilities
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PLANTS
- Petrochemical & refinery plants
- Power plants
- Environmental & industrial plants
- Renewable energy

HOUSING
- Apartments
- Luxury condominiums
- Residential & commercial complexes

BUILDING WORKS
- Business facilities
- Commercial facilities
- Institutional facilities
- Leisure & medical facilities
- ID
- Cultural & sports facilities
- Stations & terminals

CIVIL WORKS
- Expressways
- Roads & bridges
- Tunnels & ports
- Water & sewage facilities

CITY DEVELOPMENT
- Development of high-tech industrial complexes
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.
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.

One example is the Saudi Yanbu II power generation and desalination plant. It produces 15 million gallons of water a day.

Hanwha Engineering & Construction is expanding its technologies and capabilities. One example is the Suwon Convention Center to life.
Hanwha’s Vision

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.

Our Spirit & Core Values

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.

Hanwha’s Vision

QUALITY GROWTH 2020

CHEMICALS & MATERIALS
A top 5 leader globally

AEROSPACE & MECHATRONICS
Global leader in aerospace engine and mechatronics solutions

SOLAR ENERGY
Global market leader in solar energy

FINANCE
Top financial group in South Korea

SERVICES & LEISURE
Top provider of premium leisure experiences and services in South Korea
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

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 1953 and became only the second country in Asia to produce industrial explosives. Since then, much has changed and Hanwha today has expanded to business enterprise globally. One thing, however, remains the same: our mission that a business should contribute to its society, and we do.

Business Expansions
1964–1980

Hanwha 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.

The Second Foundation
1981–1995

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 secured liquidity by selling profitable affiliates, making 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 1982, a business that we have since grown steadily to make it the second-largest life insurance carrier in South Korea with assets of USD 102 billion in 2018. We emerged from the financial crisis without a single labor dispute and were heralded as a role model for other South Korean corporations to follow.

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Modernization of a Nation
1952–1963

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 1969, we established Hankook Precision in 1971 (now Hanwha Corporation’ Machinery). We sharpened our competitiveness in the machinery business by acquiring Shinhan Bearing Industrial. And in 1972, we continued to advance South Korea’s industrialization by constructing Kyung-In Energy’s refinery and power plant.

Strategic Diversification
1964–1980

When Eun Kyung Kim became Hanwha’s second chairman, the company. 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 petrochemical business by acquiring Hanwha 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 1985, we acquired the Junga Group (now Hanwha Hotels & Resorts) to become Korea’s leading leisure company. In 1989, we also acquired Hanyang Stores (now Hanwha Galleria) and expanded into the retail industry.

Milestones

1952 Korea Explosives Co. (now Hanwha Corp.) is founded
1965 Korea Housing Industrial (now Hanwha Solutions) is founded
1976 Sungdong Securities (now Hanwha Investment & Securities) is founded
1986 Hanyang Stores (now Hanwha Galleria) is acquired
1994 Hanwha R&D Center is built

Building Momentum
1996–2006

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Restructuring for the New Century
1998–2006

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Emerging as a Global Leader
2007–Present

As the 21st century began, Hanwha accelerated global expansion by diversifying businesses and building a robust network of overseas operations. Hanwha Solutions acquired US-based AESC, an established automotive supplier in the Czech Republic in 2007 to increase its standing as a global automotive component maker. In 2008, Hanwha Solutions’ began constructing a PC plant in Nantong, China. In 2011, Hanwha Engineering & Construction won a USD 10 billion contract to construct an entire city in Iraq. It was the largest overseas contract ever awarded to a Korean company.

Hanwha Life Insurance expanded globally began its listing on the New York Stock Exchange in 2009 that led to another acquisition – an Indonesian insurance company in 2011. Recently, the company entered the fintech sector to find new opportunities that could lead to greater financial security for more people worldwide. In 2012, Hanwha Solutions acquired Germany-based Q.CELLS, one of the world’s top solar cell producers. Our solar energy solutions business became the market leader in the G. Germany, the UK, South Korea, and Japan. Our successes reflect our efforts and focus to strengthen our global competitiveness and adopt preemptive technologies.

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Financial Highlights

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Sales (In USD Millions)</th>
<th>Total Assets (In USD Millions)</th>
<th>Total Liabilities (In USD Millions)</th>
<th>Total Stockholders Equity (In USD Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>56,910</td>
<td>176,628</td>
<td>142,110</td>
<td>36,659</td>
</tr>
<tr>
<td>2018</td>
<td>61,963</td>
<td>179,131</td>
<td>142,671</td>
<td>34,717</td>
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<tr>
<td>2019</td>
<td>63,471</td>
<td>185,683</td>
<td>147,796</td>
<td>36,659</td>
</tr>
</tbody>
</table>

* 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 71 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 are therefore 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 here, 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. This data contained herein must 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.
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
Yeosu Hub
Hanwha Energy
Hanwha Engineering & Construction
Hanwha City Development
Hanwha Corporation
www.hanwha.co.kr

EXPERTISE
Explosives: Industrial explosives products, raw explosives materials, explosives applications, construction materials, paper, automation facilities, project organization, bioresources, energy
Machinery: Solar, factory & warehouse automation, petrochemical, steel machinery, defense sales, construction materials, paper, automation facilities, project organization, bioresources, energy
Trading: Petroleum, petrochemicals, steel machinery, defense sales, construction materials, paper, automation facilities, project organization, bioresources, energy

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 1953 as Korea Explosives company, quickly becoming the leader in explosives and, in effect, creating the industry itself in South Korea. The company has since been acquired by the South Korean military and is now Hanwha Defense, a leading defense electronics and manufacturing company.

In 1959, Hanwha had been 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 important products needed to rebuild its cities and infrastructure.

We entered the defense industry in 1974 and our Explosives & Defense Division quickly became instrumental in the development of South Korea’s military defense. We provided the South Korean military with precision-guided munitions and advanced ammunition. In 1992, we became the leader in explosives and defense electronics such as radar and combat systems. By 2018, we were very competitive as a manufacturer of navigation systems and lasers – the core technology of the future weapon system. These are our new growth engines.

Today, Hanwha’s Explosives & Defense Division continues to apply its extensive experience and explosives technology to expand into raw explosives materials, explosives manufacturing, and explosives applications.

Our work to bring the level of the South Korean defense industry to the Fourth Industrial Revolution has been recognized by the South Korean government. For our work in the forming of the Korean 5-axis system by combining the Korean Air and Missile Defense (KAMD), the Korean Anti-Terrorism and Military Reform (KAMR), the Korea Marine Punishment and Reform (KMPR), the South Korean government regarded us as not only reliable but also as a trusted global partner in providing innovative defense solutions. Not to stay satisfied by achievements, we continue to develop our core business competencies and strengthen our internal capabilities.

Our Trade Division is an international trading company that has played a leading role in globalizing Hanwha Group. After it was founded in 1966, we have built a global network of more than 27 overseas subsidiaries and offices. Our network allows us to work in synergy in world markets for the Hanwha Group.

We’re set to lead company globally and, confident we can because along with the advanced operating systems, we have the people and sales to do so. Established in 1953, our Machinery Division is today leveraging its deep experience and cutting-edge technology to lead the machinery equipment industry worldwide. We produce high-value-added machinery equipment with a focus on heat treatment, factory automation, and precision processing.

Our Machinery Division is leading the logistics automation industry using advanced factory and warehouse automation technology that we’ve been honing for the last 45 years. Our automation business is stronger than ever. We successfully completed the world’s first system to automate the entire process in tire production. We are also innovating and making great strides in production logistics by building Smart Factories that combine highly automated assets with Industry 4.0 technologies.

And with our technology and ability to build quality, we’ve been able to successfully segued into producing high-quality solar cells and modules in our world-class manufacturing facilities. We’re already recognized in solar power equipment manufacturing markets all over the globe. With continuous R&D and innovations, Hanwha Corporation’s Machinery will not only be a global leader in machinery equipment but a total engineering solutions provider.

Hanwha Corporation
www.hanwha.co.kr

2018 Total Sales
4,748
2018 Total Assets
6,957

Hanwha Corporation provides solar module solutions, one of the world’s largest photovoltaic manufacturers, recognized for high-quality, high-efficiency solar cells and modules.
Hanwha Aerospace is the only aircraft engine producer in South Korea and trusted in the global market for our original application technologies. In 1993, 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 even 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’ve been in a fortunate position to capitalize on all the opportunities to build a powerful business in aerospace.

We now provide a range of aircraft components and gas turbine engine solutions that can meet our nation’s needs and those that are also desired by markets all over the world. In 2015, we began a partnership with Pratt & Whitney to operate a joint venture with Singaporean manufacturing company. Our partnership with Pratt & Whitney is a Risk and Revenue Sharing Partnership (RSP) to co-build the next-generation aircraft engine. This partnership represents our putting the ranks 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, to further expand our product portfolio and leverage 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 ever-changing markets and address them through continuous development of technology with a focus on quality.

Hanwha Aerospace
www.hanwhaerospace.com

EXPERTISE
Gas turbine engines, engine components, aircraft components

2018 Total Sales
4,047

2018 Total Assets
6,615

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

World class quality and continuous R&D have propelled Hanwha Aerospace to become a global aviation products supplier for fighter jets and UAVs.

Hanwha Defense
www.hanwha-defense.co.kr

EXPERTISE
Armored vehicles, armored defense systems, unmanned ground systems

2018 Total Sales
703

2018 Total Assets
1,201

2018 Total Sales
635

2018 Total Assets
708

Hanwha Defense Systems merged with Hanwha Defense Systems to become Hanwha Defense. This merger secures our highest capability in small arms of army systems, armored vehicles, air defense systems, and unmanned ground systems. By strengthening our product competitiveness with the combined benefit of the technology, experience, and outstanding talents of both companies, we are firmly established as a sustainable global defense company.

In artillery systems, we’re developing artillery solutions for modern warfare based on our experience and technology in the defense industry. We have applied our experience producing more than a thousand K55 self-propelled howitzers to build a powerful business in aerospace. We now provide a range of howitzer models that use the K200 or K21, a world-class ifv. We provide a lineup of an armored and guided missile solutions that are optimal for a range of operations to combat mid- and low-altitude aerial threats. Our Gun and Missile Air Defense System (BMADS) is used in air defense operations. The BMADS has boosted the anti-air defense capabilities of the South Korean armed forces. Because of its excellent maneuver capabilities, the BMADS can be highly effective in various air defense operations, such as in an armored infantry. The CHUNMUN is South Korea’s first surface-to-air guided system, an effective weapon system against low altitude aerial threats on core assets. We also produce more than 40 other land-based weapon systems and naval launchers, as well as other related products.

In unmanned ground systems, we are aggressively driving the effort to bring our fourth Industrial Revolution to the defense industry with innovative and cutting-edge solutions for future battlefields. Our products include the Tactical Unmanned Ground Vehicle, a remote-controlled weapon station, and a lithium battery subsystem for submarines.

We have become a trusted partner in global markets by successfully incorporating advanced technology without compromising reliability or quality. We have exported the OB20 to Malaysia in 1993, marking our first success in large-scale overseas exports by a South Korean defense company. We are also exporting our K8 self-propelled howitzer and K10 ammunition resupply vehicle overseas. In addition, we developed the BHO Gun and Missile Air Defense System and the Tigon (a wheeled armored vehicle), which assures our technological competitiveness for export businesses to engage in overseas.

Hanwha Defense is South Korea’s leading defense company. Through hard work and strong R&D investments, we are also becoming a leader in the global defense industry and gaining recognition for delivering reliability and quality in the same solution.

Leveraging our industry experience and expertise, Hanwha Defense is becoming a leading defense company with cutting-edge convergence solutions.

Hanwha Defense Systems
In artillery systems, armored vehicles, and defense systems, unmanned ground systems

2018 Total Sales
1,141

2018 Total Sales
903

2018 Total Sales
800

Hanwha Defense Systems and Hanwha Defense are the only aircraft engine producer in South Korea trusted in the global market for our original application technologies.

World class quality and continuous R&D have propelled Hanwha Aerospace to become a global aviation products supplier for fighter jets and UAVs.

Hanwha Aerospace
www.hanwhaerospace.com

EXPERTISE
Gas turbine engines, engine components, aircraft components

2018 Total Sales
4,047

2018 Total Assets
6,615

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

World class quality and continuous R&D have propelled Hanwha Aerospace to become a global aviation products supplier for fighter jets and UAVs.
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 leading global total solutions company providing differentiated smart technologies in defense electronics and information infrastructure. In August 2018, we launched our new ICT division after merging with Hanwha S&C. Our ICT division represents our advanced defense IT and system integration capabilities that make us more market competitive. Our ICT & system integration capabilities combined with our product portfolio differentiate us, position us to lead in defense electronics, and allow us to naturally expand into areas of public infrastructure and private security.

Since its founding in 1978, the Hanwha Systems division has significantly advanced the defense capabilities of South Korea’s military. The knowledge we’ve gained from working with the South Korean military and the 40+ years developing systems used globally are being used to develop advanced systems for surveillance, reconnaissance, control, communications, computer, and intelligence (C4I) naval and land.

We are using our state-of-the-art aerospace technology to develop South Korea’s first synthetic aperture radar (SAR) for military reconnaissance satellites and an actively electronically scanned array (AESA) radar for the next-generation South Korean fighter KF-X. We are also developing core avionic electronics for fixed wing, rotary wing, and unattended systems.

Our surveillance and reconnaissance systems that we developed for South Korea’s national defense include the thermal observation device (TOD), electro-optic tracking system (EOTS), infrared detection tracking equipment and multifunctional observation scopes. Hanwha Systems is using cutting-edge technology to make significant improvements to its radars like the S-war multi-function radar and S-war multi-function radar. At the same time, we’re developing new radars to our portfolio like the FX-B Batch 8 multi-function radar.

Hanwha Systems’ C4I businesses rely completely on our original technologies to develop products that can operate in future combat environments. We produce next-generation tactical information communication networks (TICN) using these technologies and next-generation satellite communications systems. We are South Korea’s largest supplier for naval combat management systems. Our proprietary technology is at the heart of their enhanced combat systems and integrated solutions for sensors and armaments.

Our strategy is to lead the future defense industry by improving our technical capabilities and building strong relationships with key partners who are leading in the Internet of Things (IoT) and Artificial Intelligence (AI).

Our seven customer support centers across the nation provide product support for weapon systems operations. Hanwha Systems’ optimal integrated logistics support (ILS) with timely customer support, guaranteed.

Hanwha Systems’ ICT division has accrued deep level experience in systems integration and management from having developed world-class I&C solutions and services over the years for a variety of industries, including manufacturing, defense, construction, financial services, retail, service, and education. We’re now building customised 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 analytics. And combined with our smart factories 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 even helping our partners transform into Data-driven companies.

We’re on a path to an unparalleled transformation, leading both possibilities and opportunities with digital innovations and in disruptive technologies that combine AI, IoT, and Big Data. We’re building internal blockchain platforms and forging technology partnerships with leading companies like Element AI in anticipation of the Fourth Industrial Revolution.

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 made it a global leader in video surveillance. While heavily investing in R&D to innovate and meet the ever-changing market needs in so 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 become able to create a complete wire-free tamperproof surveillance system 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 devices in South Korea, China, and America. We maintain the largest distribution of the South Korean video surveillance market. However, 75 percent of our total sales comes from overseas markets.

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 automated.
Hanwha Precision Machinery
www.hanwhaprecisionmachinery.com

EXPERTISE
Chip mounters, screen printers, machine tools, collaborative robots

2018 Total Sales
514 million USD

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. Our Smart Factory solutions provider, offering Surface Mount Technology (SMT) mounters, semiconductor equipment, insertion 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 commands an advantage in the market by producing high-quality products at a competitive price. It is a state-of-the-art turbomachine that offers superior performance and efficiency.

Our high-speed chip mounter HM520 is a world-class productivity and is recognized by global customers for its modular head and various production models.

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 our expertise and improved our technology. Our success can be seen in our machine tools, collaborative robots, and collaborative robots, as just a part of the products that represent our commitment to innovation and our ability to overcome the toughest of challenges. We do this because ultimately, as partners, when our customers succeed, we succeed.

Hanwha Power Systems
www.hanwhapowersystems.com

EXPERTISE
Industrial air and gas compressor, gas turbines, power generation systems

2018 Total Sales
155 million USD

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

Hanwha Power Systems launched 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've developed high-value-added product lines.

Our products include industrial air 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 turbines. Our expertise in turbo expander technology provides, we provide partnerships with world-leading and in-house developed core components.

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In strategic cooperation with Baker Hughes, a GE company (BHGE), we’re selling BHGE’s package products, including gas turbines, steam turbines, and recuperating and expander cycles. In 2015, 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 sCO2 engines. This project is expected to help us become a game changer by creating new markets in the distributed power generation, effectively supplementing 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 integration with the TEG system to drive innovation.

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 recuperating and expander cycles. In 2015, 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.

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In strategic cooperation with Baker Hughes, a GE company (BHGE), we’re selling BHGE’s package products, including gas turbines, steam turbines, and recuperating and expander cycles. In 2015, 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.

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Hanwha Solutions was founded 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 nation’s chemical market for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA). And as South Korea’s leading petrochemical company, we dominate the nation’s chemical market for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA). We are a total solutions chemical company with streamlined production systems for polyethylene (PE), polyvinyl chloride (PVC), and chlor-alkali (CA).

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 polyvinyl chloride (CPVC), enhancing the quality of our PVC.

We obtained the New-Tech 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 PVC annually. We also expanded our specialty product lines. In 2019, we entered the high-quality adhesives market by building a plant dedicated to producing up to 35,000 tons of diisopropylene PAN (DPDI) hydroxyl-terminated polyisobutylene resin annually and beginning commercial production. Hanwha Chemical partnered with the Institute of Chemical Process at Seoul National University and the Korea Advanced Institute of Science and Technology (KAIST) to establish joint research centers. It was 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 PVC products around the world. Our PVC plant, completed in 2017 in Anqing city, is located in China’s Anhui province, has an annual capacity of 150,000 tons of PVC. Today, with continuous improvements in the production process, the plant is producing 100,000 tons of PVC, each year in Pinghu, China. We also built an alkyl sulfonate resin plant with an annual capacity of 17,000 tons. This facility serves as an important base of operations as we enter other markets in Southeast Asia.

Hanwha Q CELLS is the fourth South Korean petrochemical company to tap into new business opportunities in the field. We signed joint venture contracts with International Polymeric Compounds, a prominent petrochemical company in Saudi Arabia, and Gulf Advanced Cable Insulation Company in Thailand. In 2005, we achieved cost reductions and economies of scale at our joint venture with International Polymeric Compounds. We began to produce LLDPE and LLDPE with Gulf Advanced Cable Insulation, we are producing wire and cable compounds. In 2016, we strategically acquired a company to manage the synergy in production processing of CA and vinyl chloride monomer (VCM) while enhancing our production with its own with-toluene-disocyanate (TDI) for new materials for polyurethane products.

In our upstream solar businesses, we continuously improve our investments in infrastructure and working to become a global leader. One of our facilities alone can annually produce up to 10,000 tons of silicone for air purification. We invested in advanced technologies that produce more high-quality products, such as ECO-DEHAC, an eco-friendly premium plasticizer. They represent our commitment to a better environment for a better tomorrow.

Q CELLS Division is a total energy solutions provider worldwide. Our business scope ranges from the midstream of cells and modules to downstream solar solutions for residential, commercial, and industrial buildings, as well as 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 networks span across China, Malaysia, South Korea, and the US. Bolstered by strong revenue and driven to stay ahead of the growing worldwide demand, various strategies continued to invest in R&D and manufacturing innovations. Our Malaysia plant alone was able to produce more than 12GW of Q CELLS solar cells annually in 2018. First of its kind in the industry. In 2015, we penetrated the US market and began our acceleration to expand into the country by building a 7GW capacity module plant in the US state of Georgia.

Our Q ANUM technology is based on PERC cell technology, providing more efficient electricity for multi-polytype module cells. The multicrystalline Q ANUM module, Q.PEAK, won the Module Manufacturing Innovation award at Solar Industry Awards 2015 in Hamburg, Germany. For the second consecutive year, Q CELLS Division has won the Intersolar Award in the Photovoltaics category. Winning the highly prestigious solar energy conference and exhibition in Europe. In June 2018, our Q.PEAK DUO-G5 solar modules also won in the Photovoltaics category, earning high praise for its 120 half-cell, or busbar monocrystalline module that the Intersolar jury panel called "the new standard for residential and commercial rooftops." Q CELLS Division was selected as one of the best PV manufacturers by local installers, receiving the Top Brand PV Seal 2020 from Solarzirkel Research for the seventh time in a row in Germany and for the fifth time in Australia. Our technology infrastructure enables differentiated technology innovations. Our R&D Headquarters is located in Thalheim, Germany, and our R&D network covers China, Malaysia, and South Korea. In addition, we have 12 R&D centers and 111 engineers. We have been able to offer higher quality products at competitive prices. In 2014, we entered the rooftop solar power equipment market in Japan and Europe and large-scale solar power plants in the US, Thailand, Chile, and Latin America. In the same year, we secured a series of large scale solar projects across Europe – in the UK, France, and other countries. In 2015, we partnered with US-based energy. To provide 1.5GW of modules, accelerating our entry into 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.

By employing our cutting-edge technology and economies of scale, Q CELLS Division has been able to take advantage of the growing demand for solar power around the world. We have been able to offer higher quality products at competitive prices. In 2014, we entered the rooftop solar power equipment market in Japan and Europe and large-scale solar power plants in the US, Thailand, Chile, and Latin America. In the same year, we secured a series of large scale solar projects across Europe – in the UK, France, and other countries. In 2015, we partnered with US-based energy. To provide 1.5GW of modules, accelerating our entry into 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.

The outstanding quality control capabilities of Anti-LID, Anti-LeTID, and Tra.Q demonstrate how Q CELLS Division’s global R&D can successfully leverage a variety of solar technologies.
Founded in 1965, Advanced Materials Division has developed as innovative line of cementious-concrete products and technologies that meet the needs of our customers around the world. We have also developed local production plants and R&D centers in South Korea, the US, Europe, and China. Our global sales continue to rise.

Since entering the automotive materials business in 1998, we have launched a diverse portfolio of products for automobile structures and interiors. We now leverage original technologies 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 share globally, in their respective categories.

We are a major supplier to global automakers, including Hyundai, Kia, BMW, Daimler, Volkswagen, GAC, Ford, and Toyota. As a global supplier, we have manufacturing factories in Kalama and Luling 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 anticipated this, and it’s why we strengthened our investments in 1995 years ago so that we could lead in the changing industry. Our R&D Center makes our research and development more globally competitive and helps us lead the worldwide trends toward lighter parts.

Our research focuses on thermosets, thermoset composites, and on developing and developing new applications. We also develop new materials and manufacturing methods, 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 housing in the advanced energy business both domestically and internationally. At the same time, to be more globally competitive, we are working to improve our PTA-related technologies and develop related businesses in the value chain we have built over the last 40 years.

In June 2017, we established Hanwha Solar 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 Solar Power is working hard to promote solar energy business both domestically and internationally. 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 been refining for sheet manufacturing for the last 30 years. In 1998, we succeeded in developing and mass-producing EVA sheets and back sheets used in photovoltaic modules.

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We operate a plant for 8GW EVA sheets and 2.5GW back sheets in Korea and were expanding the business to Europe, the US, and Southeast 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 SC market by successfully developing ion resistant materials for microcircuit patterns, 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.

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Hanwha Total Petrochemical
www.hanwha-total.com

EXPERTISE
Ethylene, propylene, HD, EG, SM, PX, PE, EVA, PP, gasoline, diesel, jet fuel, LPG, solvent

Hanwha Total Petrochemical was incorporated into Hanwha Group in 2015. Since then, we have not only generated stable business results but also earned the rank of South Korea’s World Class Products 4 years in a row. We continue to strengthen our market dominance because of our quality and innovations.

Since its founding in 1988, Hanwha Total Petrochemical has led the growth of the petrochemical business in South Korea through technological innovations and 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 a joint venture with the Total affiliate, Hanwha Total Petrochemical has exhibited solid financial performances.

The product portfolio of Hanwha Total Petrochemical includes basic chemicals, such as ethylene, propylene, and butadiene. Hanwha Total Petrochemical also produces base chemicals like styrene monomer, paraxylene, and ethylene glycol. With 18 plants units in the Daesan Petrochemical Complex, the company is also 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 petrochemical plant), a condenser 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 a full-fledged energy business. In 2014, we made the biggest investment since establishing the business by building an additional aromatics plant, a condenser fractionation unit, and an ethylene-ethylene oxide (EO) plant. With the additional production facilities, we now produce 1.40 million tons of ethylene, 2.0 million tons of paraxylene, and 1.06 million tons of styrene monomer annually.

We have the No. 1 market shares in the EVA used in solar cells. NPEC, used in bottle caps, the EVA used in extrusion coatings, flow mark free polypropylene (FMF PP), and high isotactic polypropylene (HIPP) used in electronic applications. These products have been recognized as World Class Products by MOTIE. We attribute our improvements and growth 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

2018 Total Sales
5,321

2018 Total Assets
1,874

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 dominates 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. The NCC represents a fully-fledged petrochemical complex between Hanwha and Daelim, two South Korean conglomerates that own naphtha-cracking facilities. The NCC annually produces 1.95 million tons of ethylene, 1.11 million tons of propylene, and 5.50 million tons of various petrochemical base materials, including benzene, toluene, xylene, styrene monomer, and butadiene.

With fully automated and optimized process to diversify our production portfolio feedstocks, this state-of-the-art facility of Hanwha Total Petrochemical excels as a competitive edge to produce high-quality downstream petrochemical products.

Although our production facilities are already technologically advanced with large-scale production capacities, we continue to make improvements. We attribute our improvements and growth each year to loyal customers, the use of a sophisticated management system, and a sound financial structure. Additionally, our professional and highly skilled employees effectively combine industry expertise with cutting-edge technology, helping us to maintain our leadership position in the petrochemical industry.

Supported by steady flow of investments, product specialization, facility expansion, and business focus, we are one of the top naphtha-cracking complex (NCC) companies in the world backed by steady stream of investments and continuing to expand our footprint. We aim to become a world-class petrochemical company, and we continue to make efforts to expand our capacities, our expansion will take us across the globe.
Hanwha Energy

Hanwha Energy is a comprehensive energy solutions company that specializes in cogeneration plants. It uses these power plants to provide a stable supply of high-quality electricity and ultra-high-pressure steam to companies in national industrial complexes in South Korea. Its operations range from an entire city to industrial complexes in South Korea. It is a global player by leveraging its extensive technological prowess and experience in construction projects.

Hanwha Energy has been recognized as a top global contractor in Engineering News (ENR), the bible of the construction industry. It is also referred to as the “bible of the construction industry.”

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

Hanwha Energy & Construction

This state-of-the-art cogeneration plant provides a stable supply of high-quality electricity and ultra-high-pressure steam to companies in the Yeosu and Gyeongnam national industrial complexes in Korea.

The Bismayah New City is a USD 7.1 billion project, the largest urban development in Iraq’s modern history. It is a Hanwha Engineering & Construction flagship project.

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 & Construction has quickly become a global player by leveraging its extensive experience in construction projects and by applying new technologies and building better smarter and more sustainable urban communities. It is recognized as a top global contractor in Engineering News (ENR) and is expected to be lauded as the “bible of the construction industry.”

By providing readily available power, we are able to develop forward-looking energy solutions for distributed energy sources. We established an O&M business that maintains renewable assets, we've begun operating several solar power plants in the Middle East and North Africa, and we are looking at energy solutions for distributed energy sources, such as ESS and microgrids in other countries, including Japan, the US, and in Europe.

Hanwha Energy & Construction

Hanwha Energy & Construction has grown to become the No. 1 renewable O&M provider in South Korea and has quickly become our leading business. Our O&M business has grown to become the No. 1 renewable O&M provider in South Korea and is a comprehensive energy solutions business. 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.

To efficiently operate and systematically maintain renewable assets, we've also established an O&M business that uses our Hanwha Energy Integrated System (HEIS) as its base. Our O&M services help 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 a comprehensive energy solutions business. To build sustainable growth, we are diversifying our energy business and building businesses overseas in solar power generation, O&M business, system solutions, and more. In Japan, we're beginning to operate our solar power plants, with a combined capacity of 190MW. 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 21.5MW solar power plant located in Seoul, South Korea, and are planning to expand further into the US, other countries, including Japan, the US, and in Europe.

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Daedeok Techno Valley is the technology hub of South Korea and home of the most technologically advanced companies and research facilities. Daedeok Techno Valley 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 Ansan Techno Valley project (1,994,000m², 300 enterprises, 6,000 households), the Seosan Techno Valley project (1,643,000m², 200 enterprises, 6,000 households), the Gimhae Techno Valley project (1,643,000m², 200 enterprises), and the Gyeonggi Hwaseong Bio Valley project (1,450,000m², 200 enterprises). Each completed project stood tall 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 City Development
www.hcd21.co.kr

EXPERTISE
Real estate development, including multifunctional industrial complexes

2018 Total Sales
in USD millions
147

2018 Total Assets
in USD millions
288

Hanwha City Development
Hanwha Life
Hanwha General Insurance
Hanwha Investment & Securities
Hanwha Asset Management
Hanwha Savings Bank

Finance
Hanwha Life
www.hanwhalife.com

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

2018 Total Sales
13,864
102,229

13,864 USD million
102,229 USD million

Hanwha Life outperforms in asset quality stability, sales, and product development. And while moving forward, digitizing our advanced capabilities can be realized in the financial markets of the future worldwide. Established in 1946, Hanwha Life is not only a life insurance company that also in the first and oldest in South Korea. Today, 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 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 stability. We have received A+ ratings from South Korea’s top-ranking agencies for the past two years. We also earned global credit ratings of A1 from Moody’s and A from Fitch rating agencies in 2018.

Hanwha Life.com is the official co-brand name, representing a group of Hanwha financial affiliates. It offers financial, health, and cultural centers to deliver improved care. In South Korea. Onsure serves as yet another channel through which we will expand our life insurance business.

Hanwha Life.com continues to secure profitable structures that support value-based sales and primary profit expansion. We plan to expand our global business and secure growth engines in France and Big Data. We put innovation and, with each success, we’re inspired to drive forward as a world-class life insurance company.

Hanwha General Insurance
www.hanwhalife.com

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

2018 Total Sales
6,746
14,514

6,746 USD million
14,514 USD million

Hanwha General Insurance is a major insurer with USD 14.5 billion in total assets. We are internationally recognized for our financial stability and steady growth using diversified asset management strategies and increasing customer value.

Established in 1946, Hanwha General Insurance is the first South Korean insurance company formed by domestic capital. Throughout its history, we’ve set a pivotal role in developing South Korea’s general insurance industry. Today, we are a major insurer with total assets of nearly USD 14.5 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. For a South Korean insurer in Vietnam. Our Vietnamese subsidiary, Sino-Korea Life Insurance, is expanding its sales territory by entering new markets. In Indonesia, our subsidiary is building global network from branch structures with a long-term perspective. Moving forward, we are setting the foundation to provide digital financial services in major Asian hubs while pursuing innovation in products and digital financial businesses in Southeast Asia.

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

Hanwha General Insurance has implemented a set of customer-centered business processes and 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 interest at heart.

As a result, in 2018 we were favorably secured a major insurer with USD 14.5 billion in total assets. We are internationally recognized for our financial stability and steady growth using diversified asset management strategies and increasing customer value.

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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 1962, Hanwha Investment & Securities provides comprehensive asset management services, including brokerage 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 grounded by our company policy to listen to our employees, our customers, and to continuously encourage innovations within the organization. We differentiate our services by putting customers first and building customer trust. We have established a stable and diversified income structure with our business portfolio in investment banking, securities brokerage, and institutional investors. To be able to readily respond to the rapidly changing digital environment, we developed unique ways to ensure simple and more convenient investment experiences for our clients. Our way-to-use applications, STEPSS displays essential information that is beneficial to starting and experienced investors. We have improved even the intuitive features of our mobile trading system and continue to upgrade others based on customer feedback. Hanwha Investment & Securities continues to provide a digital financial platform so it can provide differentiated products and services that are responsive to 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’ Vietnam’s online stock brokerage company. The acquisition of HFT Securities in Hanwha Investment & Securities’ first step to enter Vietnam’s 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.

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. Foundation in 1988, 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 PEs 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 trillion in assets under management (AUM). We have people with unparalleled expertise who operate highly organized systems across all areas including product development, research, sales, compliance, 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 ETF at the 2019 Managing Securities Awards by Asset Business Korea, the Top Prize in international bonds at the 2019 Korea Fund Awards by IFG Jinan, the Grand Prize in global funds at the 2019 Korea Fund Awards by Money Today news media; the Grand Prize in global funds at the 2019 HFT Global Awards by Korea Media News media; the Grand Prize in global funds at the 2017 Korea Fund Awards by Money Today news media; the Grand Prize in global funds at the 2017 Korea Fund Awards by the International Seoul Economic Daily news media; Top Prize in international bonds at the 2017 Asia Fund Awards by Seoul Economic Review magazine; and the Grand Prize in global funds at the 2017 Asian Fund Awards for Hanwha’s expertise in asset management.

Hanwha Asset Management is accelerating its strategic overseas expansion to become a leading asset management company in Asia. Our Singapore subsidiary manages equity and alternative investments in the pan-Asian market. We acquired a New York-based subsidiary to handle our assets in the US and other countries. We have also established a Chinese subsidiary to the needs of our customers because we strictly adhere to our principle and management philosophy to place our customers first before anything else.

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Hanwha Savings Bank
www.hanwhasbank.com

EXPERTISE
Deposits, commercial and personal loans

2018 Total Sales
In USD millions
45

2018 Total Assets
In USD millions
853

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.

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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Hanwha Hotels & Resorts
Hanwha Galleria
Hanwha Galleria Timeworld
Hanwha Estate
Hanwha Station Development

Services & Leisure
We currently operate Seorak Waterpia, Pororo Plaza, and resorts in China and Southeast Asia. We also operate Seorak Pinehills, Porto Asia Villas in Gyeongju, Neo Therapy Center, Royal Saddle Equitation Society, and Jade Garden in Chuncheon—all renowned attractions and the envy of other companies in the industry. In addition, we operate $3 Square on the first floor, offering high-quality services and attractions, including $5 Art and an elaborate aquarium.

Our expertise and technologies used in the construction of $3 Square, the first aquarium in South Korea, we also built the breathtaking Aquarium Bell. The Aquarium Bell is South Korea’s largest network of aquariums located across 4 cities (Seorak, Buan, and Jeon), and in partnership with Geoje city government, we recently created a new tourist destination, the Hanwha Hotels & Resorts Geoje Beholders. The marine resort with 410 rooms and a private marina opened in 2018 to earn reviews.

Our Hotel Division has developed THE PLAZA into a world-class 410-room luxury boutique hotel. Located in the heart of Seoul, THE PLAZA offers impeccable service and experience accentuated by its unique modern design. In 2016, the hotel became the first in South Korea to join the Autograph Collection, a luxury portfolio owned by Marriott International. Our exceptional customer service and upscale accommodations have been recognized by the hotel industry. THE PLAZA was selected as one of the Top 25 Hotels for Luxury and Service by the TripAdviser 2019 Travellers’ Choice Awards. It also ranked No. 2 of the nine Best Luxury Hotels in Korea by Global Traveler, the Luxury Hall East offers high-end luxury brands while the other side of the building, the Luxury Hall West, showcases global fashion trends, fine dining, and premium services.

Hanwha Galleria
www.hanwha-galleria.co.kr

EXPERTISE

Resorts, hotels, leisure, food services

2018 Total Sales
In USD millions

3,134

2018 Total Assets
In USD millions

2,196

Hanwha Hotels & Resorts is becoming South Korea’s premier leisure and service provider of resorts, hotels, and food services.

Our Resort Division began operations in 1979 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 11 properties. In Japan and South Korea, we own and operate 21 resort golf courses totaling 126 holes. We partner with Resort Condominiums International (RCI), a worldwide membership network, to operate hotels and resorts in China and Southeast Asia.

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

Our department store division is stacking the best high-end brands and Galleries. Only brands and making them available in exclusive stores and environments, our customers have come to expect. And going forward, we’ll look to more sustainable business models for the rapidly changing landscape.

Our goal is to deliver the highest-quality services in the industry. Galleries is one path we’re taking: the other is continuing our investment in our current departments with renovations and new store openings. The way, as we pursue our vision, will continually our consistent growth streak.

Seosan Sorano combines the beautiful natural scenery of the East Sea with the high peaks of Seorak Sorano combines the beautiful natural scenery of the East Sea with the high peaks of Seorak and provides high-quality services, including food service contracts, dining business services, and food material supplies. The food culture division uses a unique but highly efficient food service operating system and has provided tailoring and orange of customization services for more than 30 years. We currently provide premier nationwide food services of 170,000 meals to 150 businesses a day. Our food culture division also runs concept restaurants including the Chinese Bistro Tion and Swan Dance. Our dining business unit features commissioned services in multi-use complex facilities, as well as THE PLAZA’s elegant wedding and banquet service. And with a food and lab certified by the Food Sanitary Inspection Instruction, a rigorous sanitation management system, we are an industry leader in food material supply.

Geoje Belvedere. The marine resort with 410 rooms and a private marina opened in 2018 to rave reviews.

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Hanwha Galleria Timeworld is the largest high-end department store in the central part 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, 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. Daejeon city, where public institutions, financial companies, and large apartment complexes are concentrated.

Hanwha Galleria Timeworld is building on its local reputation to become a major department store recognized nationwide with the widest selection of exclusive luxury brands and world-renowned gourmet restaurants, and differentiated leisure facilities. Hanwha Galleria Timeworld is the premier high-end shopping destination in Daejeon, one of the largest cities in Korea.

We've subdivided expansive areas within the building for home living & décor shopping, experiencing culture, entertainment, and a roster of international gourmet restaurants to satisfy the tastes and senses 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 Daejon will focus on affordable fashion brands for next-generation consumers while Timeworld East will be reimagined to offer exclusive signature products targeting more mainstream 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 continues to enhance the exterior of our building with a differentiated design that will make it a Daejeon city landmark. Hanwha Galleria Timeworld specializes in luxury fashion brands from around the world and in the first of its kind in this region to feature brands such as Louis Vuitton, Gucci, and Prada. We're renowned as the premier high-end shopping destination in Daejeon, one of the largest cities in Korea.

Hanwha Galleria Timeworld is the largest high-end 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.

Hanwha Galleria Timeworld
www.hanwhagalleria.co.kr

EXPERTISE
Retail, fashion

2018 Total Sales
In USD millions
302

2018 Total Assets
In USD millions
404

Hanwha Estate
www.hanwhaestate.com

EXPERTISE
Comprehensive real estate services

2018 Total Sales
In USD millions
91

2018 Total Assets
In USD millions
35

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 yield maximum benefits through the employment of optimized solutions. Our consultation begins with a thorough market analysis and innovative solutions designed to increase the value of client assets.

Our real estate services are designed to yield maximum benefits through the employment of optimized 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, airports, complexes, factories, and research centers.

Our asset management experience has sharpened our skills in property management and deepened our expertise in facilities, machinery, equipment, disaster prevention, and security. Our comprehensive technical services include completed construction site inspections, safety audits, functional checks of firefighting facilities, and physical inspections. In the construction and security business, 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 real 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 renovate and enhance the value of commercial space by creating synergies from our diverse businesses.

Hanwha Estate is an ever-evolving real estate services provider. We create new cultures and environments by timely adjustments in how we work. We also pursue innovation through communications and collaboration. Our goal is to increase the value of customer real estate assets.
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 its experience in developing and operating advanced railway stations.

Hanwha Station Development is our nation’s 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 private 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 guiding principle is our social responsibility. This is why we educate children through eco-friendly programs, and inviting people to join the energy revolution through activities that counteract climate change and help the environment.

Hanwha is Happy Sunshine, a project where we donated a total of 1,779 KW solar power generation systems to welfare centers. In June 2019, to commemorate World Environment Day, Hanwha launched the Clean Up Mekong campaign to help address one of the world’s ongoing environmental issues: water waste. We donated solar powered boats that could remove wastes from the Mekong River below the river’s dam, a massive water resource in the Pacific Ocean. We also developed a digital media campaign to publicly raise environmental awareness and educate the Vietnamese people on the use of eco-friendly energy and their responsibility to prevent climate change.

Happy Sunshine Campaign
Hanwha has been driving the use of sustainable energy in communities with expertise gained from vertical integration of our solar businesses. Our 찾기 program in Happy Sunshine, a project where we donated a total of 1,779 KW solar power generation systems to 244 welfare centers in South Korea to help them save on utility bills. We also opened Hanwha Hope Project where we donated solar power generation systems to elementary schools in underserved areas in China.

Hanwha Solar Forest
Since 2011, the Hanwha Solar Forest campaign has planted 508,000 trees across seven locations in Korea, Mongolia, and China. Our three forests in China and one in Inner Mongolia used the seedlings grown by solar energy facilities and donated by Hanwha. Hanwha Solar Forest is the first demonstration of how solar energy can be used to prevent desertification. The UNCCD has praised it as a best practice, urging others to follow.

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Hanwha’s solar modules donated to the World Economic Forum Congress Center in Davos
Having installed a total of 446 solar modules on a 1,000 square-meter roof on the World Economic Forum Congress Center, we will be able to reduce 20 tons of CO2 emissions per year.

Economic Forum in Davos
Hanwha is one of the first to have set up solar power generation systems to make communities energy self-sufficient to building solar forests to fight deforestation. We’re not only using solar energy, we’re making a difference.

Since 2011, the Hanwha Happy Sunshine Campaign has planted 500,000 trees to help communities save on utility bills, and we’re making a difference.

— Orchestra Festival with Hanwha
— Hanwha Pop and Classic
— Hanwha Classic
— Seoul International Fireworks Festival with Hanwha
— Hanwha One Step Closer to Your Dream
— Hanwha Eagles
— Team Hanwha Q CELLS

Hanwha supports a range of arts and cultural events. Since 2000, we have sponsored the Orchestra Festival, the largest event of its kind in South Korea. Our annual “Hanwha Pop and Classic” has been held in South Korea since 2004, and the “Hanwha Classic” has performed classical music since 2015 in recognition of popularizing classical music and promoting the Korean culture and arts. Hanwha was awarded the Grand Piano of the Presidential Award at the Mexico Conference & Awards hosted by the Korea-Mexico Association in 2008, and the Achievement Award at the SKA Awards by Seoul Arts Center.

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Social Responsibility

Talent Development and Employee Volunteers

Since the Hanwha Corporate Responsibility Center was founded in 2002 to commemorate the company’s 100th anniversary, Hanwha has called upon each affiliate company to participate by sending volunteer teams for various social activities. We also make great efforts to identify employees with potential and to nurture the talents of our future leaders.

Hanwha KAST Science Outreach Program, Convergence Science Camp

Hanwha partnered with KAST to jointly host a science camp to nurture future scientists.

Supporting Young Leaders of the Future

Hanwha believes that fostering talents will ultimately contribute to society. Since our foundation, 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-KAST 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 3,000 classes in art, music, and dance to more than 5,000 disadvantaged children. And since 2015, we have supported the arts education, such as social design and photography classes, for middle school students in 30 regions around the country. Launched in 2014, our DreamPlus program offers online and offline classes for young entrepreneurs seeking to start a business or find a job in promising new areas, such as Fin-tech and Internet of Things. Our programs include giving assistance to people on welfare and participating in environmental cleanup campaigns. Every October, Hanwha partners with the Social Responsibility Center to celebrate Hanwha’s founding, all employees participate in volunteering services for the disadvantaged.

Hanwha’s bi-product Calendar

Since 2005, 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.

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Employee Volunteers

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

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Hanwha Arts Plus

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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 working 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 advised on fair trade and agreements on 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 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, exchanging technology, sharing information, 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, price, and quality control.

Innovating the Regional Economy

Hanwha helps suppliers in rural areas to sell their products in our retail department stores. For example, when we find hidden high-value-added agri-fishery 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.

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 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.

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 and growth.

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 as a family-friendly and gender-equality company. When we commemorated our 64th anniversary in 2019, we announced the “Young Hanwha” program and introduced corporate culture initiatives (like getting a one-month sabatical 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.
This is the global business environment. To grow beyond have grown, invested, and built across markets in Together, we have collaborated, that have lasted more than 60 years. Network Global expectations, and innovating to exceed customer around the world (as of end of 2018).


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 76 affiliates. In South Korea alone 311 networks reached the world (as of end 2018). And 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.