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

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

At [Company Name], 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 [Company Name] employee, motivating us to build for the good of all, amid constant changes and despite them. As a company, our never-ending goal is to improve the lives of everyone we touch. We seek to raise the standards of living and improve the quality of life. We know this is easily said but difficult to attain. And yet, if we persevere, continue to innovate, and build for a better tomorrow, the future is ours to imagine.

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

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

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

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

Our vertically integrated solar energy business leads the global market, bolstered by our cutting-edge technology and world-class production capacity. We’ve maintained the No. 1 market share in the new market for advanced renewable energy in Germany, the UK, South Korea, and Japan. We completed a 1.7GW capacity module plant in Georgia, USA. Commercial production in the US is only the beginning. Our intent is to build a worldwide production network that links South Korea, Malaysia, China, and the US to lead the eco-friendly energy market of the world.
At Hana, 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 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, Hana 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, Hana 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.

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

In the automotive industry, our revolutionary lightweight composite materials are prized for their durability and flexibility – comparable to steel in strength but with up to 25 percent less mass. This means cars can weigh less but perform better. These and other innovations provide greater value for our customers and attract partnership opportunities for Hanwha, worldwide.
PETROCHEMICAL

A Leader In South Korea

Holborn continues to be a leading producer in South Korea’s petrochemical sector with total sales of USD 18.1 billion.

ETHYLENE

Petrochemical Powerhouse

Holborn has an ethylene production capacity of over 3.6 million tons and is rapidly becoming a major player in this important market.
**EVA**

Global Leader

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

**W&C Compound**

World-Class Innovation

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

**PTA**

Proven PTA Technology

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

70% Global Market Share

Horitsu’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

Horitsu’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 the market and becoming a major supplier to global automakers.
QUESTIONS

ANSWERS

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 systems

**HANOHWA MECHATRONICS**
- Video surveillance solutions
- Integrated management solution
- Intelligent video analysis solution
- Collaborative robots

**HANOHWA PRECISION MACHINERY**
- Industrial equipment
- Chip mounters, screen printers, semiconductor flip chip tools, total solutions of SMT production

**HANOHWA POWER SYSTEMS**
- Industrial air and gas compressors
- Gas turbine package
- Power generation system

**HANOHWA CORP.**
- Factory and warehouse automation
- Engine/transmission assembly line
- Total solution for module manufacturing equipment, heat treatment furnace
- Wood pellet production line for biomass power plant, secondary battery production equipment, module packing system

**EXPLODES**
- Commercial explosives
- Mining services

**TOTAL SOLUTIONS PROVIDER IN AEROSPACE & MECHATRONICS**
Over the past five years, XYZ Company 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. It’s not only the natural next progression for our company but also it is a way for us to increase our presence in the global security market.

MACHINERY

Expertise Leads to Growth

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

ELECTRONICS

Defense Electronics Innovation

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

Hansuh Q CELLS’S 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 19.3 percent efficiency rating with its multicrystalline solar module, the first module of its kind. In 2019, DNV GL, the world’s largest classification society, rated our key products like the Q.ANTUM as “Top Performer” 4 years in a row.

By the end of 2018, Hansuh Q CELLS 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 2019 from EuPD Research 6 consecutive years in Europe and 4 consecutive years in Australia. And in 2016, EuPD Research ranked Hansuh Q CELLS as the top module manufacturer in the US.

SOLAR RESEARCH & SALES

40+ Countries

Hansuh 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 Q CELLS 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 Q CELLS 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.
A New Milestone

Seventy years after being established as South Korea’s first life insurance company, Hyundai 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. Hyundai Life is achieving industry-leading value in asset management, on-site sales competitiveness, and product development capabilities.
FinTech

Securing Future Growth

FinTech is leveraging Big Data strategically and applying the latest financial technologies to create sustainable growth in new markets, including online banking, insurance, and lending with mid-range interest rates.
SALES NETWORK

Global Expansion

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

RESORTS, HOTELS, LEISURE, FOOD SERVICES

Hanwha Hotels & Resorts

COMMERICAL DEVELOPMENT, PROPERTY MANAGEMENT

Hanwha Station Development

COMMERCIAL VENTURES, REAL ESTATE SERVICE

Hanwha E-Business

REAL ESTATE SERVICE

Hanwha Galleria

Hanwha Galleria TimesSquare

Hanwha Galleria TimesSquare 10

HEALTH & BEAUTY

HEALTH & BEAUTY
The Galleria is Korea’s first and foremost premium department store chain. These stores represent Lotte’s commitment to providing differentiated customer experiences by incorporating timely lifestyle consumer trends into its offerings. As a premium provider in retail, we develop luxury brands, food and beverages, VIP services, and new platforms for both offline and online stores.
HOTELS

One of A Kind

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

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

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

AQUARIUMS

Leader in Maritime Culture

Hanshin’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, Dae, and Seoul.

Aqua Planet Jeju features a diverse and world-class marine aquarium. Aqua Planet Hae 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.

RESORTS

Luxury At Its Best

Launched in 2018, Hanshin 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 mountaintop and an idyllic sea, the Belvedere is the ultimate destination where nature meets luxury. There are 250 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.
Hanshin 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, Hanshin is helping to enrich the lives of millions worldwide.

Imaginations to Possibilities
Hanshin 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. Hanshin 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.
Iraq Projects

Building A City

Iraqi-Gulf Development's Bismayah New City Project is the unprecedented effort to build an entire city covering nearly 60 city blocks and including over 800 apartment complexes. The Bismayah New City Project is the largest construction project in the history of the Middle East by a South Korean company. And recently, another contract worth USD 2.1 billion to build the social infrastructure for Bismayah city has been secured, pushing the total value of the project to more than USD 10 billion.
Turnkey Solutions

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

Integrated Energy Development

Hamwah Engineering & Construction is expanding its technologies and capabilities. One example is the Saudi Yanbu II power generation and desalination plant. It produces 15 million gallons of water a day.

SEAWATER DESALINATION PLANT

Multiple Innovative Projects

Hamwah Engineering & Construction is partnering with another entity to build a hospitality infrastructure, a hotel, a department store, and an aquarium. And Hamwah’s engineering and construction expertise is bringing the visually stunning 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.
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.
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 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.

**Milestones**

**1952 – 1963**

- **Founding of a Business**
  - 1952: Korea Explosives Co. (now Hanwha Corp.) is founded.

**1964 – 1980**

- **Business Expansions**
  - 1964: Korea Hwasung Industrial Co. (now Hanwha Chemical) is founded.
  - 1965: Korea Hwasung Industrial Co. (now Hanwha Chemical and Hanwha Advanced Materials) is founded.
  - 1976: Sungdo Securities (now Hanwha Investment & Securities) is founded.
  - 1994: Hanwha F&D Center is built.

**1981 – 1995**

- **The Second Foundation**
  - 1981: Hanwha Galleria is acquired.

**1996 – 2006**

- **Building Momentum**
  - 2002: Hanwha acquires Korea Life Insurance (now Hanwha Life).
  - 2012: Hanwha acquires Germany-based Q CELLS and launches Hanwha Q CELLS.

**2007 – Present**

- **Emerging as a Global Leader**
  - 2007: Hanwha acquires Germany-based Q CELLS to join hundreds of the world’s top solar cell producers. Hanwha Q CELLS became the market leader in the U.S., Germany, the UK, South Korea, and Japan. Our strategies and successes reflect our global competitiveness and adopt preemptive technologies.
  - 2015: Hanwha General Chemical Hanwha Technology companies are launched.

**Reshaping a Nation’s Economy**

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 Explosives Co. (now Hanwha Chemical and Hanwha Advanced Materials) and entered the petrochemicals business. After launching Kyung-In Energy in 1960, we established Hankook Precision in 1971 (now Hanwha Corporation/Machinery). We sharpened our competitiveness in the machinery business by acquiring Shihezi Bearing (industrial) and in 1972, we continued to advance South Korea’s industrialization by constructing Sung in Energy’s refinery and power plant.

**Modernization of a Nation**

When Synguk Youn Kim became Hanwha’s second chairman, the company’s Second Foundation had effectively begun. And in the aftermath of the global oil shock in the 70’s, one of Mr. Kim’s key decisions was to diversify into the petrochemicals business by acquiring Hanwha Chemicals and Dow Chemicals Korea. He quickly turned the failing business into a global powerhouse (now called Hanwha Chemical) in the global chemical market. Under Mr. Kim’s leadership, we’ve also diversified into finance and services & buildings in 1985, we acquired the Junga Group (now Hanwha Hotels & Resorts) to become Korea’s leading leisure company. In 1986, we also acquired Hanwha Galleria and expanded into the retail industry.

**Strategic Diversification**

During the 1997 Asian Financial crisis that either crippled or nearly paralyzed most companies in South Korea, Hanwha took bold actions, innovating and retooling. We secured liquidity by selling profitable affiliates, made employee job security our priority, and moved forward with faith in our spirit of trust and loyalty. We sought new opportunities and began acquisitions. One of them was Korea Life Insurance in 2002, a business that we have since grown steadily to make it the second largest life insurance carrier in South Korea 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.

**Restructuring for the New Century**

As the 21st century began, Hanwha accelerated global expansion by developing businesses and building a robust network of overseas operations. Hanwha Advanced Materials acquired Q CELLS Inc. and established a production subsidiary in the Czech Republic in 2007 to increase its standing as a global automotive component maker. In 2009, Hanwha Chemical began constructing an PVC plant in Ningsbo, China. In 2012, Hanwha Engineering & Construction won a USD 10 billion contract to construct an entire city in Iraq that was the largest overseas contract ever awarded to a Korean company.

**Accelerating Global Business**

When Mr. Kim took bold actions, innovating and retooling. We secured liquidity by selling profitable affiliates, made employee job security our priority, and moved forward with faith in our spirit of trust and loyalty. We sought new opportunities and began acquisitions. One of them was Korea Life Insurance in 2002, a business that we have since grown steadily to make it the second largest life insurance carrier in South Korea 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.
### 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>
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</thead>
<tbody>
<tr>
<td>2017</td>
<td>56,910</td>
<td>176,828</td>
<td>142,110</td>
<td>34,717</td>
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<tr>
<td>2018</td>
<td>61,963</td>
<td>179,131</td>
<td>142,671</td>
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<td>2019</td>
<td>63,471</td>
<td>185,683</td>
<td>147,796</td>
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</table>

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

* 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 1,121.40 in 2017, and KRW 1,118.10 in 2018.

* The 2019 expectancy data was converted based on Hynix Group’s internal exchange rate of USD 1 = KRW 1,133.
Manufacturing & Construction

Manuha Corporation
Manuha Aerospace
Manuha Defense
Manuha Systems
Manuha Technix
Manuha Precision Machinery
Manuha Power Systems
Manuha Chemical
Manuha General Chemical
Manuha TOTAL Petrochemical
YEOMUN NO:2
Manuha Advanced Materials
Manuha O CELLS
Manuha Energy
Manuha Engineering & Construction
Manuha City Development
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 business areas under the Hanwha Corporation: Explosives/Defense, Trade, and Machinery.

Hanwha Corporation was founded in 1952 as Korea Explosives company, and, in effect, creating the industry itself in South Korea. The company has since grown into a global manufacturing and trading company operating in four business areas—explosives, defense, trading, and machinery.

In 1959, Hanwha had become 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 high-quality products that are crucial means 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, advanced ammunition, navigation systems, lasers, and underwater surveillance equipment. Since entering the mining services market in 2014, we have continued our efforts to develop safer, high-quality industrial explosives products. Since then, we have been able to accelerate our market expansion. That same year, we completed our full vertical integration of nitric acid-ammonium nitrate-industrial explosives by acquiring granular ammonium nitrate production lines to produce electronic detonators. These detonator products enabled us to expand further into other major markets across the globe and continue our innovations and development of high-value-added technologies. Through large mergers and acquisitions, we have further increased our business footprint to include high-powered guns, engines for aircraft and ships, and the aerospace business. We have also invested in defense electronics, such as radar and combat systems. By 2018, we became very competitive in a market that manufacturers of navigation systems and lasers—the core technologies of the future weapons systems. 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. We work together with leading companies across industries in the advanced operating systems, lasers, and underwater surveillance equipment.

Our work to bring the level of the South Korean defense industry to the Fourth Industrial Revolution era has been recognized by the South Korean government. For our work in the forming the Korean 3-axis system by combining the Korea Air and Missile Defense (KAMD), Kill Chain and Korea Massive Punishment and Retaliation (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 satisfy 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 1959. We have built a global network of more than 72 overseas corporations and offices. Our network allows us to work in synergy in world markets for the Hanwha Group. We’re deepening our network within the countries we operate in, both in setting the groundwork to generate stable profits from businesses in petrochemicals, steel machinery, and merchandising. We’re also looking into discovering and fostering new business models, including machinery, exports, food resources, and energy projects.

Well set to lead company globally and confidently, we can achieve the advanced operating systems, we have the people and talent to do so. Established in 1953, our Machinery Division is today leveraging its deep experience, craftsmanship 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 across the globe. With continuous R&D and innovations, Hanwha Corporation’s Machinery Division will not only be a global leader in machinery equipment but a total engineering solutions provider.
Hanwha Aerospace is the only aircraft engine producer in South Korea and trusted in the global market for its original application technologies.

In 1977, Hanwha Aerospace began by building businesses in the aircraft engine and film camera industry. Soon after, we aggressively invested in research to develop our technologies in optics, video, and military aircraft engines. We’ve then expanded into aircraft components and commercial engine parts business. To evolve as we have, we’ve had to successfully develop top-tier and original application technologies that give us the competitive edge needed for our businesses around the globe. And as our technologies advanced, so did our expert staff who are able 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 wide range of aircraft components and gas turbine engine solutions that our nation needs and those that are also desired by markets all over the world. In 2015, we began a partnership with UTC, a company in the United States. In the same year, our aerospace maintenance business also signed a memorandum of understanding with GE. In 2016, we became a trusted partner in the global aircraft industry when we entered into a contract with the United States Pratt & Whitney to operate a joint venture with Singaporean manufacturing company. Our partnership with Pratt & Whitney is a Risk and Revenue Sharing Partnership (RSP) to co-build the next-generation aircraft engine. This partnership represents our questing 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 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 where change is great and fast but despite them, we’re 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.hanwha-aerospace.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.

Hanwha Defense is expanding its global business as a total defense solutions provider with highly competitive offerings in air systems, armored vehicles, air defense systems, and unmanned ground systems.

In January 2019, Hanwha Land Systems merged with Hanwha Defense Systems to become Hanwha Defense. This merger secures our highest capability in small area air systems, armored vehicles, air defense systems, and unmanned ground systems. By strengthening our product competitiveness with the combined benefits of the technology, experience, and outstanding talents of both companies, we are firmly established as a sustainable global defense company.

In air systems, we’re developing air defense solutions for modern warfare based on our experience and technology in the defense industry. We have applied our experience in producing more than a thousand K5 self-propelled howitzers. With a powerful business in aerospace, we’ve been in a fortunate position to capitalize on all the opportunities to build a powerful business in aerospace. We now provide a wide range of aircraft components and gas turbine engine solutions that our nation needs and those that are also desired by markets all over the world. In 2015, we began a partnership with UTC, a company in the United States. In the same year, our aerospace maintenance business also signed a memorandum of understanding with GE. In 2016, we became a trusted partner in the global aircraft industry when we entered into a contract with the United States Pratt & Whitney to operate a joint venture with Singaporean manufacturing company. Our partnership with Pratt & Whitney is a Risk and Revenue Sharing Partnership (RSP) to co-build the next-generation aircraft engine. This partnership represents our questing 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 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.

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Hanwha Defense
www.hanwha-defense.com

EXPERTISE
Airborne systems, armored vehicles, air defense systems, unmanned ground systems

2018 Total Sales
703

2018 Total Assets
635

Excluding a global aviation products supplier for fighter jets and airliners.

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

Our technology in producing more than a thousand K5 self-propelled howitzers. With a powerful business in aerospace, we’ve been in a fortunate position to capitalize on all the opportunities to build a powerful business in aerospace. We now provide a wide range of aircraft components and gas turbine engine solutions that our nation needs and those that are also desired by markets all over the world. In 2015, we began a partnership with UTC, a company in the United States. In the same year, our aerospace maintenance business also signed a memorandum of understanding with GE. In 2016, we became a trusted partner in the global aircraft industry when we entered into a contract with the United States Pratt & Whitney to operate a joint venture with Singaporean manufacturing company. Our partnership with Pratt & Whitney is a Risk and Revenue Sharing Partnership (RSP) to co-build the next-generation aircraft engine. This partnership represents our questing 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 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.

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Hanwha Defense
www.hanwha-defense.com

EXPERTISE
Airborne systems, armored vehicles, air defense systems, unmanned ground systems

2018 Total Sales
1,201

2018 Total Assets
708

Sale of total assets are based on each company’s financial statements and those of Hanwha Land Systems, and Hanwha Defense Systems.

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

In unmanned ground systems, we are aggressively driving the effort to bring forth Industrial Revolution to the defense industry with innovative and cutting-edge solution for future battlefield. Our products include the Tactical Unmanned Ground Vehicle, a remote-controlled weapon station, and lithium battery system 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 K200 to Malaysia in 1993, marking our first success in large-scale overseas exports by a South Korean defense company. We are also exporting our K10 self-propelled howitzer and K1O ammunition resupply vehicle overseas. In addition, we developed the BPHO Gun and Missile Air Defense System and the Tiger K3 wheeled armored vehicle, which secure our technological competences for export opportunities and engagement in overseas. In unmanned ground systems, we are aggressively driving the effort to bring forth Industrial Revolution to the defense industry with innovative and cutting-edge solution for future battlefield. Our products include the Tactical Unmanned Ground Vehicle, a remote-controlled weapon station, and lithium battery system 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 K200 to Malaysia in 1993, marking our first success in large-scale overseas exports by a South Korean defense company. We are also exporting our K10 self-propelled howitzer and K1O ammunition resupply vehicle overseas. In addition, we developed the BPHO Gun and Missile Air Defense System and the Tiger K3 wheeled armored vehicle, which secure our technological competences for export opportunities and engagement in overseas.
Hanwha Systems

EXPERTISE
Systems: Aerospace systems, surveillance, and reconnaissance systems, C4ISR systems, naval systems, land systems, defense ICT
ICT: Integrated IT business services

2018 Total Sales
1,026 In USD millions

2018 Total Assets
1,701 In USD millions

www.hanwhasystems.com

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

Established in 1987, Hanwha Techwin advanced optical design, manufacturing, and image processing technology, have made it a global leader in video surveillance. We’re 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 been able to create a complete line of security solutions 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 the Americas. We have the largest share of the South Korean video surveillance market. However, 70 percent of our total sales come from our overseas markets.

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

Hanwha Techwin
www.hanwhatechwin.com

EXPERTISE
Video surveillance solution

2018 Total Sales
467 In USD millions

2018 Total Assets
455 In USD millions

www.hanwhatechwin.com

The tactical communication systems.
+
radars, electro-optics, missile seekers, and cutting-edge technologies to build world-class
+
that enables our clients to derive better
+
out a state-of-the-art integration infrastructure
+
for military reconnaissance satellites and an active electronically scanned array
(+ASEA) for the next-generation
+
the thermal observation device (TOO),
+
and multifunctional observation scopes.
+
using cutting-edge technology to make significant improvements to its radars like the 1.5-
+
function radar and S-1100 multifunction radar. At the same time, we’re developing new radars to our portfolio
+
like the FFX Batch 8 multifunction radar
+
we’re building internal blockchain
technologies that combine AI, IoT, and Big
+
for the public infrastructure.
+
was a result of technological prowess
+
management software. Our products
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designed to meet every application,
+
keeps our customers at the forefront of the Fourth Industrial Revolution.
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we’re leading the trend of making
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smart factories powered by IoT and Big
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using cutting-edge technologies to develop
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and information infrastructure is part of Hanwha Group’s deep efforts to bring the Fourth Industrial Revolution to
to the public and private sectors, including the military.
+
Hanwha Systems is a leading global
total solutions company providing
+
focused on the naval and land
+
we’re using our state-of-the-art
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for military reconnaissance satellites and
+
active electronically scanned array
(+AESA) radar for the next-generation
+
are South Korean Navy’s sole supplier for
+
the Internet of Things (IoT) and
+relationships with key partners who are
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retail, service, and education. We’re
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education and training, and the Internet
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and multifunctional observation scopes.
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(+AESA) radar for the next-generation
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are South Korean Navy’s sole supplier for
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the Internet of Things (IoT) and
+relationships with key partners who are
+
retail, service, and education. We’re
Hanwha Precision Machinery
www.hanwhaprecisionmachinery.com

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

2018 Total Sales
USD millions
234

2018 Total Assets
USD millions
217

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 Smart Factory solutions provider, offering Surface Mount Technology (SMT) mounters, semiconductor wafer stage, inspection and assembly automation equipment, machine tools, collaborative robots, industrial automation equipment, and integrated software solutions.

After launching in 2013, our flagship T-Solution, recently launched, embodies the principles of Industry 4.0 in terms of interoperability, connectivity, and autonomy. It yields higher production efficiencies, greater installation accuracies, zero defects, and lower maintenance costs.

We've been in the machinery business for over 50 years and, in that time, continuously built up our expertise and improved our technology. Our success can be seen in our machine tools that command a technical advantage in the market by producing higher-quality parts at lower costs.

Our solutions that include the SMT mounters, machine tools, and collaborative robots, are just some of our products that represent our commitment to innovation and our ability to overcome the toughest of challenges. We do this to maximize efficiencies in basic tasks and supplementary work in house, while expanding its sales, customer service, and R&D networks worldwide. Our current product portfolio includes industrial air compressors, air expander units, and low-pressure gas compressors. In addition to high-end products for LNG terminals and boil-off gas recovery, our products have earned trust among major clients in the Middle East and Asia.

Our next goal is to become a global top-tier power and energy solutions supplier. To this end, we're working to strengthen our product portfolio in the compressor business and expand into turbine-related businesses that can support petroleum gas and power generation customers. In strategic cooperation with Baker Hughes, a GE company (BHGE), we're selling BHGE's product packages, including gas turbines, steam turbines, and reciprocating and barrel compressors.

In 2016, we signed an official service center contract with BHGE to service the South Korean market on a wide range of products, including gas turbines, steam turbines, and reciprocating and barrel compressors.

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

Hanwha Power Systems
www.hanwhapowersystems.com

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

2018 Total Sales
USD millions
155

2018 Total Assets
USD millions
198

Hanwha Power Systems is the global energy equipment company in South Korea with independent design, production, and testing 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 developed high-value-added product lines. Our product lines include industrial air compressors, oil-free compressors, oil-free pumps, and oil-less 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 gas turbine engines. At the same time, we're focusing on building closer relationships with key customers in the oil & gas industry. We obtained vendor approval for A901T and AV912C from Southwest Research Institute (SwRI) to build Gibbs engines. At the same time, we are expanding our customer base and securing various major clients in the Middle East and Asia.

In the petrochemical process, our compressor is a state-of-the-art turbocompressor that features the capabilities of both a compressor and an expander that doesn't use redundant components, such as a shaft frame, gearless, or oil-inlet systems. Hanwha Power Systems' turbocompressor represents the company's leading expertise in turbo compressor and turbo expander technology.
Hanwha Chemical, the undisputed leader in South Korea’s petrochemical industry, is becoming a global chemical company with high value-added products, cost competitiveness, and strategic investments. Established in 1965, Hanwha Chemical is a total solutions chemical company with streamlined production systems for polyethylene (PE), polyvinyl chloride (PVC), and chlorinated (C6A). And as South Korea’s leading petrochemical company, we dominate the nation’s chemical industry with high-quality PVC, CA, and linear low-density polyethylene (LLDPE) that we offer at competitive prices. In 2012, we successfully commercialized high-density ethylene vinyl acetate (EVA) for the first time in South Korea. Just four years later, we localized the production of chlorinated polyvinyl chloride (CPVC), enhancing the quality of our PVC. We obtained the First Technology Certification from the Korean Agency for Technology and Standards, and in 2017, we built a production line that could produce up to 10,000 tons of CPVC annually. We’re now working to build a dedicated plant to produce dicyclopentadiene (DCPD), hydrogenated petroleum resins, scheduled for commercial production in 2019, and entering the high-quality adhesives market. We partnered with the Institute of Chemical Process at Sejong 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 our products around the world. Our PVC plant, completed in 2011 in Hangyu city, located in Chonbuk province, was built to produce up to 95,000 tons of PVC annually. Today, with continuous improvements in the production process, the plant is producing 100,000 tons of PVC each year. In Bang Phli, Thailand, we built an alkali soluble 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 Chemical was the first South Korean petrochemical company to tap into new business opportunities in the Middle East. We signed joint venture contracts with international polymer companies, a private petrochemical company in Saudi Arabia, and Gulf Advanced Cable Insulation Company. In 2009, we achieved cost reductions and economies of scale at our joint venture with International Polymers, began to produce EVA and LLDPE. With Gulf Advanced Cable Insulation, we are producing wire and cable compounds. In 2016, we strategically acquired a company to maximize the synergy in production processes of CA and vinyl chloride monomer (VCM), while enhancing our production efficiency with tie-down die (TDD), a new material for polyvinyl products.

In our upstream solar businesses, we’re continuing our investments in infrastructure and working to become a global leader. One of our far-flung sites can annually produce up to 11,000 tons of polypropylene. Our facilities employ advanced technologies that produce environmentally-friendly products, such as ECO-DEHCH, an eco-friendly intermediate, and our solar facilities have been recognized as an example of sustainable, energy-efficient facilities. We have leveraged many years of our expertise and applied our PTA processing technology—technology that we’ve proven since 2010 in the Middle East and Southeast Asia. And expanding the Hanwha Group, we’ve become more globally competitive by creating synergies with chemical affiliates and developing our markets through innovative management and sales practices.

In June 2017, we established Hanwha S idol Pla ure 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 S idol Pla ure is working hard to promote and invest in solar energy businesses both domestically and internationally. At the same time, to be more globally competitive, we’re working to improve our PTA-related technologies and develop related businesses in the value chain we have built over the last 40 years.

Hanwha General Chemical was the first company in South Korea to localize production of purified terephthalic acid (PTA). Hanwha Chemical is the undisputed leader in South Korea to localize production of purified terephthalic acid (PTA). We’re maintaining our No. 1 domestic market share while exporting our process technology to enter new businesses. Hanwha General Chemical was established in 1974 before being acquired by the Hanwha Group in 2015. It was the first company in South Korea to localize production of purified terephthalic acid (PTA), a primary component in many types of polyester PET, a used in clothing, industrial fibers, film, and paint. The applications for PTA are expanding dramatically.

Today, our annual PTA production of two million tons, makes us No. 1 in both production capacity and market share in South Korea. Our experience and technology are recognized worldwide. We have leveraged many years of our expertise and applied our PTA processing technology—technology that we’ve proven since 2010 in the Middle East and Southeast Asia. And expanding the Hanwha Group, we’ve become more globally competitive by creating synergies with chemical affiliates and developing our markets through innovative management and sales practices.

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Hanwha Total Petrochemical

**EXPERTISE**

- Ethylene, propylene, BD, EG, SM, PX, PE, EVA, PP, gasoline, diesel, jet fuel, LPG, solvent

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**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 for 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 Group, a major French company in the global chemical and energy sector. In 2014, we made the biggest investment since establishing the business.

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 plant units in the Daesan Petrochemical Complex, the company is able to produce a wide range of products from those needed for energy, such as gasoline, diesel, jet fuel, and liquefied petroleum gas, to polymers that are used in feedstock materials, such as polyethylene and propylene.

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

We have the No. 1 market share in the EVA used in solar cells. ROPC (used in bottle caps), the EVA used in injection-cooling flow masks for polypropylene (PP) and polyethylene (PE) used in automotive composite materials, and high resistive polypropylene (HP-PP) used in electronic applications. These products have been recognized as World Class Products by MOTIE. We attribute our success not only to the vertical system we employ and our product diversifications but also to the vast and global network of the Hanwha Group.

**EXPERTISE**

Petrochemical feedstock production

**2018 Total Sales in billions**

5,321

**2018 Total Assets in billions**

1,874

**Hanwha Total Petrochemical** is the leading producer of ethylene, propylene, and other petrochemical feedstocks. This state-of-the-art facility gives us a competitive edge in petrochemicals.

As a leader in naphtha-cracking production, product specialization, facility expansions, and business focus, we are one of the top naphtha-cracking Center (NCC) companies in the world backed by a steady stream of investments and continuing to expand our footprint. We are, however, focused and set on continuing to make improvements to our capabilities. As we continue to improve our capabilities, our expansion will take us across the globe.

**Hanwha Total Petrochemical** is the leading producer of ethylene, propylene, and other petrochemical products, and the global leader in terms of market share.

**Hanwha Total Petrochemical** is the leader in naphtha-cracking production, product specialization, facility expansions, and business focus. This state-of-the-art facility gives us a competitive edge in petrochemicals.

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 sound financial structure. Additionally, our professional and highly skilled employees effectively combine industry expertise with cutting-edge technology, helping us make our workforce a key differentiator.

Supported by steady flow of investments, product specialization, facility expansions, and business focus, we are one of the top naphtha-cracking Center (NCC) companies in the world backed by a steady stream of investments and continuing to expand our footprint. We are, however, focused and set on continuing to improve our capabilities. As we continue to improve our capabilities, our expansion will take us across the globe.
Hanwha Advanced Materials is expanding its footprint in the global market by producing lightweight composite materials and thermoretractable components, highly efficient advanced films for solar energy, and high-performance coating films for mobile phones and displays.

In November 2018, Hanwha Advanced Materials has established a cutting-edge advanced materials company, Hanwha Q CELLS, a solar energy solutions provider.

Hanwha Advanced Materials is the world’s largest market share for StriElox (SRT) and Superflex (SFR) – materials proven to reduce the weight of vehicles.

Hanwha Q CELLS is securing its global leadership through long-term growth and expertise.
Hanwha Energy & 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 and efforts to build large-scale petrochemical plants in the Middle East and North Africa.

Hanwha Energy & Construction is a comprehensive energy solutions company. It operates cogeneration plants that provide a stable supply of high-quality electricity and ultra-high-pressure steam to companies in national electricity and ultra-high-pressure steam to companies in national industrial complexes in Korea.

Hanwha E&Co., the world’s largest energy solution provider, is making significant efforts to further expand its business in global markets, including new business development and diversifying its energy business.

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

Hanwha Energy & Construction has quickly become a global player by leveraging its extensive experience in construction projects and by applying its new technologies and subject matter expertise across industrial, chemical, and power plants, oil engineering works, commercial buildings, and more. It has been recognized as a top global contractor in Engineering News-Record’s top 400 with EPC projects and is now among the top four EPC leaders.

In South Korea, Hanwha Engineering & Construction has been responsible for the nation’s largest urban development projects and is steadily building large-scale projects both in South Korea and around the world.

Hanwha Energy & Construction is a comprehensive energy solutions company. It operates cogeneration plants that provide a stable supply of high-quality electricity and ultra-high-pressure steam to companies in national electricity and ultra-high-pressure steam to companies in national industrial complexes in Korea.

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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 as an exemplary model of how a high-tech industrial complex should be built and is credited with revitalizing the local economy.

Daedeok 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.

Daedeok 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 (1,940,000㎡, 300 enterprises, 8,000 households), the Seosan Techno Valley project (1,940,000㎡, 200 enterprises, 6,000 households), the Gimhae Techno Valley project (1,643,000㎡, 200 enterprises), and the Gyeonggi Hwaseong Bio Valley project (1,490,000㎡, 300 enterprises).

Each completed project stood out as an achievement and garnered high praise. The projects are considered exemplary development models and not surprisingly, they have been benchmarked by several local governments.

Encouraged by these achievements, we've made further investments for the future, breaking ground on the Yongin Techno Valley project in 2015. This 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 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
410.0 billion

2018 Total Assets
698.0 billion

Finance

Hanwha Life
Hanwha General Insurance
Hanwha Investment & Securities
Hanwha Asset Management
Hanwha Savings Bank
Hanwha Life operates in asset quality, stability, sales, and product development. And while moving forward, it is the firm’s financial, health, and cultural insurance business. Established in 1946, Hanwha Life is not only leading the life insurance company that also in the first and the oldest in South Korea today, we played a critical role in developing the industry and the country’s economy. Growth in 2019, while expanding, we made sure to remain structurally sound, reporting total revenue, and USD 1.384 billion. In the end of 2018, we achieved a 2.72 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. We have received high ratings from Moodys and Fitch for our credit ratings agencies in 2018. We also earned global ratings of A1 from Moodys and A+ from Fitch for our credit ratings agencies in 2018. Hanwha Life is committed to adding innovative products and services that meet a wide range of customer needs. By upgrading our customer product, and channel (CPC) strategy, we provide customized products and services that solidify our LIFEPLUS brand. We also innovate by aligning our offering to customer life stages. Using Big Data to analyze customer needs, behaviors, and interests, we systematically apply this knowledge to better satisfy customers. To this end, we’ve trained our customer service professionals on all centers to deliver improved care. Our efforts have been rewarded with the Grand Prize – the Korea Service Award from the Korea Standards Association in the life insurance sector for eight consecutive years through 2017. We were also included into the Hall of Fame. The Quality Index survey, managed by Korea Management Asset Consulting, gave us top ranking for nine straight years for customer service and eight years for all centers. Since our first certification in 2007, the Korea Fair Trade Commission has awarded Hanwha Life with the Innovative Certification for Excellence in Consumer-Centered Management (ICEM). To increase sales and profitability, we are focusing on value-based sales, expanding product features, and expanding protection and value insurance sales. We are also diversifying our investment assets and applying risk management to aggressively and preemptively respond to changes in the financial market. In 2018, we continued to sharpen our competitiveness in the market by using multiple channels to provide diversified products and services by enhancing communications across headquarter, sales, and customers. However, in anticipation of changes to the market, when applying our digital capabilities, product development, digital technology, and our governance-oriented data support.

In the international market, we lead the industry. Our Vietnam subsidiary was founded in 2005, the first of its kind by a South Korean company. With an effective localization strategy and a strong nationwide sales network, we turned a profit in 2017. For a South Korean insurer in Vietnam, our insurance subsidiary, Hanwha Life Insurance, is expanding its sales territory by entering new markets. In Indonesia, our subsidiary is building a platform for people with a long-term perspective. Moving forward, we are setting the foundation to provide digital financial services in major Asian hubs while we pursue our insurance products and digital financial businesses in South East Asia. In 2018, Hanwha Life continues to secure profitable structure that support value-based sales and primary profit expansion. We plan to expand our global business and value growth engines in Vietnam and Big Data. We push for innovation, and with each success, we’re inspired to drive forward as a world-class life insurance company.

Hanwha Life is the official co-brand name representing a group of Hanwha financial affiliates. To further strengthen our brand and culture, we offer a variety of benefits to help our customers make better financial decisions that lead to better life and experience.

Life Plan

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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.

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 as the 2019 MoneyToday Securities Awards by Money Today news media; the Grand Prize in global funds at the 2017 Herald AM Funds Awards by KG Zeroin; the Grand Prize in global funds at the 2017 Herald AM Funds Awards by Korea Media News media; the Grand Prize in global funds at the 2017 Korea Securities Awards by Seoul Economic Daily news media; Top Financial Product in the First Half in 2017 by South Korea’s Economic Review magazine; and the Grand Prize in global funds at the 2017 Korea Securities Awards by Money Today news media; the Grand Prize in global funds at the 2017 Korea Securities Awards by Seoul Economic Daily news media; Top Financial Product in the First Half in 2017 by South Korea’s Economic Review magazine; and the Grand Prize in global funds at the 2017 Korea Securities Awards by Seoul Economic Daily news media; Top Financial Product in the First Half in 2017 by South Korea’s Economic Review magazine; and the Grand Prize in global funds at the 2017 Korea Securities Awards by Seoul Economic Daily news media; Top Financial Product in the First Half in 2017 by South Korea’s Economic Review magazine; and the Grand Prize in global funds at the 2017 Korea Securities Awards.

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 as a wholly foreign-owned enterprise (WFOE) so we could better execute our global strategy and expand our business footprint overseas.

Hanwha Asset Management is widely recognized for its innovative solutions and a disciplined approach to asset management. With its successful Asset Management Strategy and long-term plan to become the best asset management company in Asia.
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.

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.

**Expertise**

- Deposits, commercial and personal loans

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**2018 Total Sales**

45

**2018 Total Assets**

853

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

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Services & Leisure
Hanwha Hotels & Resorts in 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 Resorts in Japan and the Ocean Plaza Golf Club & Resorts in Japan that combined, boast over 1,280 guest rooms across 13 properties. In Japan and South Korea, we own and operate over 40 premier golf courses totaling 126 holes. We partner with Resort Condominiums International (RCI), a worldwide membership network, to operate hotels and resorts in Asia and Southeast Asia.

We also operate Sevenstones, a luxury shopping center in the heart of Seoul, along with the VR Building and an elaborate aquarium. As a subsidiary of Hanwha, we have fostered a strong reputation in the travel and leisure industry. In addition, we operate $3 Square on the Han River, which offers high-quality food services and attractions, including $5 Art and an elaborate aquarium.

Our exceptional customer service and experience accented by boutique hotel. Located in the heart of the city, 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 Best Service by the Tripadvisor 2019 Traveler’s Choice Awards. It also ranked No. 2 of the new best Luxury Hotels in the World by Travel Leisure magazine.

The International Hotel Awards have selected THE PLAZA as its 2018 Best Luxury Hotel and Best City Hotel, the first of its kind in South Korea.

Convenience, accessible THE PLAZA’s seven outstanding cuisines in the landmark 53 building, along with a panoramic view of Seoul. Food is prepared with fresh seasonal ingredients for top award-winning chefs.

Hanwha Hotels & Resorts’ Food Culture Division is becoming a global food services company providing a portfolio of services, including food service contracts, dining business services, and food material supplies.

The food culture division uses a unique and highly effective food service operating system and has provided catering and a range of institutional services for more than 30 years. We currently provide premier nationwide food services to 170,000 meals to 350 businesses a day. Our food culture division also runs concept restaurants including, the Chinese Bistro T-won and Lochmor, along with the VR Building and an elaborate aquarium.

In 2020, the Gwanggyo store will set new department store standards by featuring the Galleria Luxury Hall’s luxury brands, global brand direct sourcing, and the world’s best luxury brands. The Luxury Hall is slated to become the flagship landmark in Gyeonggi-do, along with a convention center, hotel, and multi-use building in the luxury complex.

Our vision is to be the No. 1 premium content producer. To this end, Hanwha Galleria will offer unrivaled values that no other retailer can provide.

We’re already at the forefront of the movement to deliver a new generation of luxury malls that cater to the upscale and refined shopping experience.

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Hanwha Galleria Timeworld is the largest high-end department store in the central province of South Korea. Its 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 specializes in luxury fashion brands from around the world and was the first of its kind in the region to feature brands such as Louis Vuitton, Gucci, and Prada. We're renowned for offering signature products lines 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 is building on its local reputation to become a major department store recognized nationwide with the widest selection of exclusive luxury brands and exceptional gourmet services.

Hanwha Estate is an ever-evolving real estate services provider. We create new cultures and environments by tangible adjustments in how we work. We also pursue innovation through communications and collaboration. Our goal always 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

104 105

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 the experience in developing and operating advanced railway stations.

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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 operations, we are fast becoming an industry-leading developer and manager of commercial complexes.

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Corporate Social Responsibility
As a world-class solar energy business enterprise, our mission is to achieve sustainable growth; our guide is our social responsibility. This is why we’re educating children through eco-friendly programs, and inviting people to join the energy revolution through activities that counteract climate change and help the environment. From installing entire solar power generation systems to making communities energy self-sufficient to building solar forests to fight deforestation, we’re not only using solar energy, we’re making a difference.

Happy Sunshine Campaign

Happy Sunshine is driving the use of sustainable energy to communities with expertise gained from vertical integration of our solar businesses. Our first donation project is Happy Sunshine, a project where we donated a total of 1,779 kW solar power generation systems to 214 welfare centers in South Korea to help them save on utility bills. We also operated Hurunyu Earth Day Campaign Project where we donated solar power generation systems to elementary schools in underserved areas in China.

Hurunyu Solar Forest

Since 2011, the Hurunyu Solar Forest campaign has planted 50,000 trees across seven locations in Korea, Mongolia, and China. Our three forests in China are one in Xihoumen used the seedlings grown by solar energy facilities and donated by Hurunyu, another in Hunchun 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.

Solar Panels Donated to Davos

The World Economic Forum, held annually in Davos, Switzerland, draws attention to pressing issues facing the world, such as environmental sustainability. In support, since 2013, we have donated photovoltaic modules to the City of Davos. The solar modules donated by Hurunyu Q CELLS have a capacity of 340 kW. This amount of energy is enough to reduce 20 tons of CO₂ emissions per year.

Hurunyu Clean Up Mekong Campaign

In June 2019, to commemorate World Environment Day, Hurunyu 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 before the river water empties into 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.

Social Responsibility

Eco-Friendly Solar Energy

At Hurunyu, we’re committed not only to our customers and employees but also to the people who live in the communities where we do business. Going back is part of our culture and we do this through professional organizations, and cultural support. We engage in activities that help spread our desire and enthusiasm among their people. By combining our professional talents with our desire to do good, we’re turning ideas into practical solutions to improve lives and the world in which we live.

Social Responsibility

Culture, Arts, and Sports

Since 2004, Hurunyu has annually held the Seoul International Fireworks Festival to put on spectacular fireworks shows with themes around optimism and dreams.

Seoul International Fireworks Festival

Since 2013, Hurunyu has sponsored the Orchestra Festival Classic, the nation’s top golf tournament. In 2013, we founded the Hurunyu Q CELLS to help marvelize professional baseball as a national favorite pastime. We also established Team Hurunyu Q CELLS in 2011 to promote golf in South Korea and hosted the annual Hurunyu Classic, the nation’s top golf tournament.

Operating and Assisting Sports Teams in South Korea

Through sports Hurunyu has created positive energy and communication among sponsors to sport fans and followers. In 1986, we founded the Hurunyu Q CELLS to help marvelize professional baseball as a national favorite pastime. We also established Team Hurunyu Q CELLS in 2011 to promote golf in South Korea and hosted the annual Hurunyu Classic, the nation’s top golf tournament.
Since the Henan’9 social responsibility center was founded in 2002 to commemorate the company’s 100th anniversary, Henan’9 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.

Supporting Young Leaders of the Future

Henan’9 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 Bugil Foundation, a private school, the Bugil Foundation. In 2011, we began sponsoring the Bugil Foundation, our first foundation, in order to support the education and development of students in the Daejeon area. Our employees have supported creative arts education, such as in art, music, and dance to more than 3,000 disadvantaged children. And since 2013, we have provided outside art education, such as in art, dance, and photography classes, for middle school students in Singapore, 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 French and internet creation. DreamPlus also offers guidance to young people on how to operate a business and enter markets overseas.

Caring Employee Volunteers

Henan’9 actively engages in social contributions with the help of its employees. One of our flagship programs is an enterprise-wide program that offers hands-on activities designed and taught by the employees themselves in whichever industry and area that they are formally trained in. Our other programs include giving assistance to people on welfare and participating in environmental cleanup campaigns. Every October to celebrate Henan’9’s founding, all affiliates participate in volunteer services for the disadvantaged.

Henan’9 Braille Calendar

Since 2000, Henan’9 has annually produced and donated 50,000 braille calendars for visually challenged people. 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, solar or lunar.

Environmenal and Safety Responsibility

Henan’9 supports a sustainable future by proactively responding to a changing global energy paradigm and by building a corporate culture that embraces environmental protection and safety. We are expanding new and renewable energy businesses centered on solar energy, and we strive to reduce environmental impact with low-carbon energy sources in all areas of our businesses.

Reducing GHG (Greenhouse Gas) Emissions

In 1991, through the ECO-2000 campaign, Henan’9 became the first South Korean company to implement environmental management. We announced our Environmental Safety and Health Policy in 2000 and have since implemented sustainable management practices for environment safety, health, energy, and greenhouse gas. We also created a master plan to set performance index targets for 2020 for environmental performance and safety. The plan included the reduction of greenhouse gases, increasing energy productivity, and improving OHS (Occupational Health and Safety).

Protecting the Environment and Addressing Climate Change

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Response to Climate Change

Since 2013, Henan’9 has provided free classes on solar panels to the general public to increase awareness of climate change and to promote clean energy systems. In addition, starting in 2016, we began collaborating with the government and environmental NGOs to operate a solar academy that offers professional education programs for the solar energy business, which, in future, will help create jobs. We hold these education workshops four times a year and they attract about 80 people in every session.

Establishing a Culture of Safety

Henan’9 works to gain community trust by promoting safety and creating safe workplaces. It’s part of our corporate culture. Along with regular safety leadership training for executives and team leaders, we developed a diagnostic tool to monitor each employee’s safety awareness. The system identifies and improves an employee’s development areas and then encourages changes in behavior that align with safer and safer work culture. We also actively work to prevent accidents by requiring everyone to follow a strict set of rules and safety policies and to observe industry leading indicators for occupational safety.

Reduced 1.19 million tons of water, reduced more than 170,000 tons of CO2 Equivalent in energy, reduced USD 30 million worth of energy costs, reduced more than 70,000 TOE (Ton of Oil Equivalent) in energy, reduced 1.19 million tons of water, reduced more than 170,000 tons of CO2 Equivalent in energy, reduced USD 30 million worth of energy costs, reduced more than 70,000 TOE (Ton of Oil Equivalent) in energy, reduced 1.19 million tons of water, reduced more than 170,000 tons of CO2 Equivalent in energy.
WINNING PARTNERSHIPS

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

Building 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, process, environment and quality control.

Innovating the Regional Economy
Hanwha helps suppliers in rural areas to sell their products at our retail department stores. For example, when we find hidden high-value-added goji berry 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.

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 put into practice specific programs to help our partners become more competitive as they expand their domestic and international sales networks. We are also supporting their innovations, equipment purchasing, and assisting them in executing best practices for safety, process, environment and quality control.

Promoting regional economic growth by transforming Jukdo Island in Chungcheongnam-do into an energy self-sufficient island.

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

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

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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 into a global powerhouse with over 90,000 people, in South Korea alone and 351 networks in 100+ countries.

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.