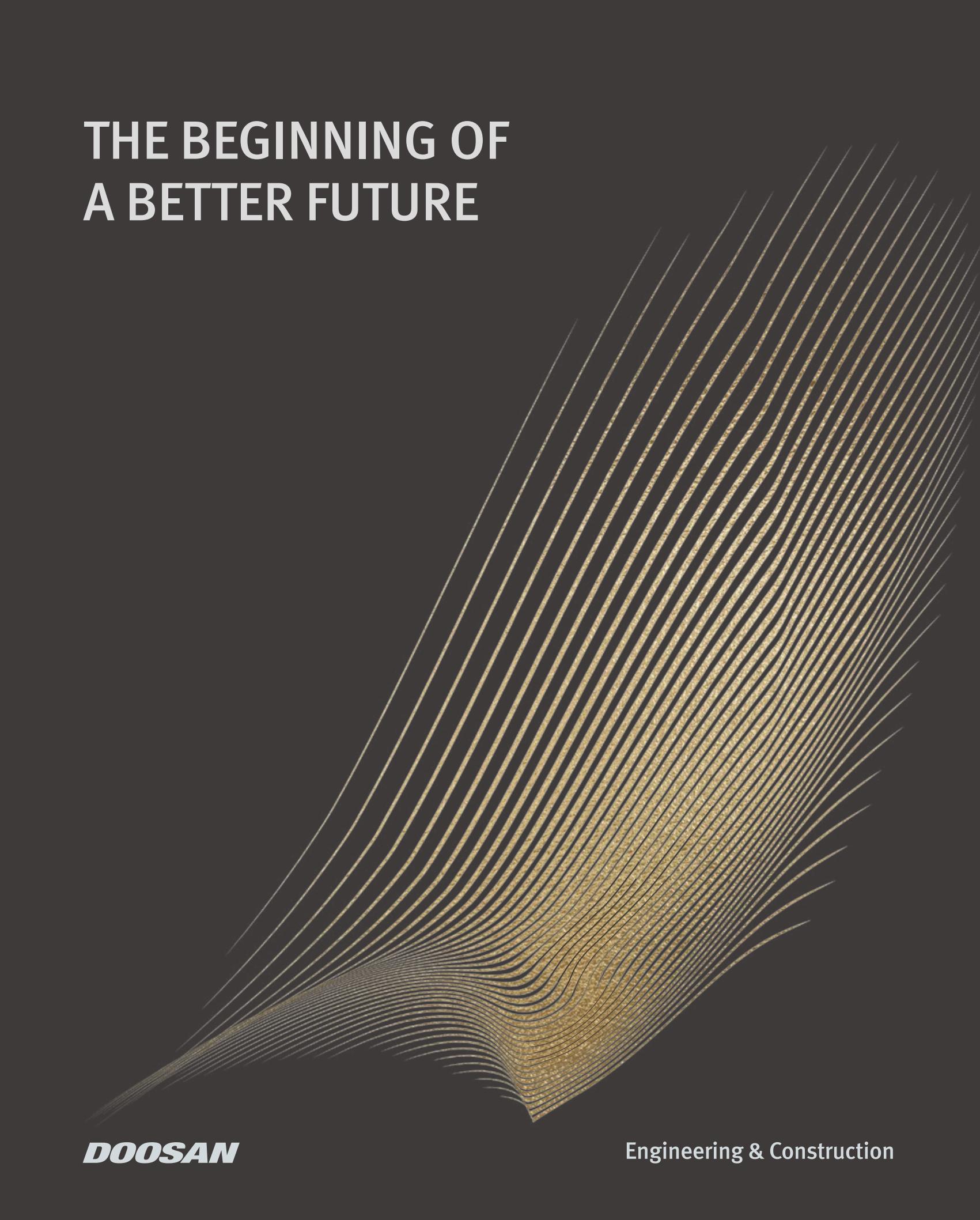


# THE BEGINNING OF A BETTER FUTURE



**DOOSAN**

Engineering & Construction

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[www.doosanenc.com](http://www.doosanenc.com)

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# Doosan Engineering & Construction

**Building a better tomorrow today,  
the origin of a better world.**

Doosan Engineering & Construction pays keen attention to people working and living in spaces we create. We ensure all spaces we create are safer and more pleasant for all, and constantly change and innovate to create new value of spaces.

## CEO MESSAGE



We will leverage our passion for technology, quality and customer satisfaction in order to grow into a company that creates a better place to live and work. 

Since its foundation in 1960, Doosan Engineering & Construction has been developing its capabilities by promoting numerous projects that will become monuments in the construction history of Korea. As a result, based on the brand power of 'Doosan We've', which leads the housing culture, we are demonstrating outstanding competitiveness in redevelopment, reconstruction, and development projects, we are raising our status by introducing ultra-high buildings in major cities including Seoul metropolitan area. In particular, 'Haeundae Doosan We've the Zenith (80 floors/300 m)' and 'Daegu Doosan We've the Zenith (54 floors/200 m)', which are synonyms of high-rise residential buildings, and 'Gimhae Centum Doosan We've the Zenith', which boasts a mega-sized residential complex with 3,435 households have established itself as a regional landmark.

Doosan Engineering & Construction, which also excelled in the civil engineering business, participated in the Shinbundang Line railway project, the first privately proposed railway in Korea, and carried out route planning, construction, and operation all at once, recording the longest extension construction performance in Korea in the high-speed rail sector, we greatly contributed to infrastructure construction and national economic development. In addition, we applied the cutting-edge shield method, which has a higher effect in terms of safety and environment, to Section 230 of Busan Subway Line 2 and Section 909 of Seoul Subway Line 9, demonstrating outstanding technology.

Recently, the Safety and Health Management Office was established to implement 'safety and health' more strongly, which has emerged as a social issue and the top priority in corporate activities, and we are dedicated to safety and quality construction by establishing a systematic organization centered on the Chief Safety Officer (CSO).

As such, Doosan Engineering & Construction was able to quickly respond to changes and become an industry leader, due to its customer-oriented management throughout the company. As a company that always practices customer satisfaction, we have been constantly striving to provide the best technology, quality, and the best service.

In the future, we will continue to challenge ourselves as a sustainable 100-year-old company by mobilizing all our members' capabilities and passion consistently. In addition, we will do our best to become a company that grows together with society, puts customers first, and fulfills its social responsibilities by thoroughly observing transparent management as a management principle.

Finally, we would like to express our deepest gratitude to all those who have given warm encouragement and support for the development of Doosan Engineering & Construction, we will even try harder to become a trusted company that always meets customer expectations and realizes the best value.

Chairman and CEO, Doosan E&C  
Kwon Kyoung Hoon

A handwritten signature in black ink that reads "Kwon Kyoung Hoon".

# Our Company

Doosan E&C has been growing with the development of the construction industry in Korea since our founding in 1960. Drawing on the extensive expertise and advanced knowhow we have accumulated over the years, and remarkable achievements in the housing, architecture, and infrastructure areas, we are growing into the nation's top construction company.



## Housing Professional, Creating a New Housing Culture

Doosan E&C's flagship brand "We've" continues to grow on the support of customers. We are building up our presence in the housing redevelopment and reconstruction as well as other urban renewal areas on the strength of the brand power of We've. We have successfully completed ultra-large, mixed-use luxury buildings in major cities such as Busan and Daegu. In particular, the "Haeundae Doosan We've the Zenith", a 80 floors, 300 m high-rise mixed-use building in Busan, has set new standards in the high-rise buildings, reaffirming the technological prowess of Doosan E&C.



## Business Areas

<b>Housing</b>	Apartments, mixed-use buildings, dual-purpose buildings
<b>Architecture</b>	Office buildings, commercial buildings, public buildings, medical facilities, educational facilities, religious facilities, hotels and leisure facilities, remodeling, electrical works, etc.
<b>Infrastructure</b>	Roads, bridges, railways, subways, tunnels, ports, reclamation, housing site development, water supply and sewerage, environmental & energy projects, etc.



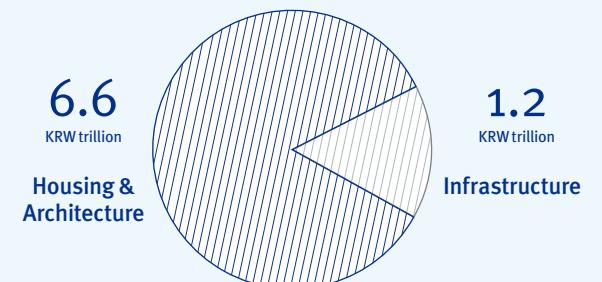
## Value Creator, Giving Space New Value

Doosan E&C creates spaces superior in practicality and sensitivity in diverse fields of architecture, ranging from office and commercial buildings to medical and other research facilities, public buildings, educational and religious facilities, and hotels and other leisure facilities, by drawing on the advanced technologies and construction expertise we have long accumulated. One leading example is the "Bundang Doosan Tower", completed in December 2020. This 119.97 m cutting-edge and eco-friendly building with seven floors underground and 27 floors above ground, is a work of art in construction technology, featuring Korea's largest sky bridge weighing 1,500 tons constructed using the state-of-the-art lift up method.



## Financial Highlights

<b>Sales</b>	KRW 1.4 trillion
<b>Backlog</b>	KRW 7.8 trillion



\* As of December 31, 2021

# Our Responsibility

At Doosan E&C, sustainable management is our growth strategy, based which we strive to grow in ways that are economically, socially, and environmentally beneficial. In particular, we are implementing corporate social responsibility, based on our people-centered corporate philosophy, thereby building a better future.



## Health and Safety Management

Doosan E&C has always made health and safety its top priority. Our human-centered safety culture means that we are committed to making continuous improvements in protecting the lives and safety of all our employees and customers, and it also ensures that we focus on incident prevention and safety technology. In support of this safety culture, we have set up a Health and Safety Management Office which now has responsibility for creating a systematic safety organization, led by the Chief Safety Officer (CSO). This reflects our intensive efforts to establish an autonomous safety culture, eliminate all unsafe practices, and make our safety measures more proactive.

In addition, we have implemented a number of key accident prevention measures for all of our employees to follow. These include complete adherence to all obligations regarding health and safety; proactive compliance with all health and safety laws and other regulations; continued promotion of our employees' voluntary participation in safety measures; working with our partner companies on health and safety activities; and the operation of a modern and effective health and safety management system.



## Green Management

Doosan E&C has built an ISO 14001-compliant environmental management system aimed at minimizing environmental issues that are unavoidable at construction sites, including waste, noise, vibration, and dust. We have also established a response strategy for climate change as a way to better manage greenhouse gas emissions and energy consumption in all our business sites. We are also firmly committed to creating a pleasant living environment in the planning and implementation of all our construction projects.



## Customer Satisfaction Management

Doosan E&C has been making continuous efforts to secure innovative products and advanced technologies as a way to offer value that meets customer expectations. In addition, we seek to provide products and services with outstanding quality, greater convenience, and higher level of safety by staying ahead and thinking from the customer perspective.



- Making continuous improvements to the health and safety management system (KOSHA 18001, ISO 45001)
- Strengthening training at the Safety Innovation School
- Securing execution capability in risk assessments and operating a direct monitoring system
- Operating the “Health and Safety Inspection Day” program with the direct involvement of top management
- Establishing the health and safety IT system (Mobile, PC)
- Building a smart safety management system

- Activities to manage and reduce GHG emissions and energy consumption
  - GHG emissions (Unit: tCO<sub>2</sub>-eq)
    - 2020: 13,696.44
    - 2021: 10,178.79
- Stabilizing the GHG inventory IT system
- Operating the chemicals inventory system and preventing chemical accidents
- Identifying and sharing outstanding environmental cases

- Operating the customer satisfaction quality management system
- Quality assurance activities that move the hearts of customers
- Operating the preemptive response quality manager council
- Nurturing quality control talent and offering training on quality-related cases
- Improving the construction quality monitoring and management system



### Corporate Social Responsibility

Doosan E&C leverages our business skills to contribute to the sustainable development of local communities. We have established our Corporate Social Responsibility (CSR) mission of “enhancing quality of life for communities and building our corporate value through strategic social contribution activities” based on which we carry out CSR activities that benefit from participation by all our stakeholders, including employees.



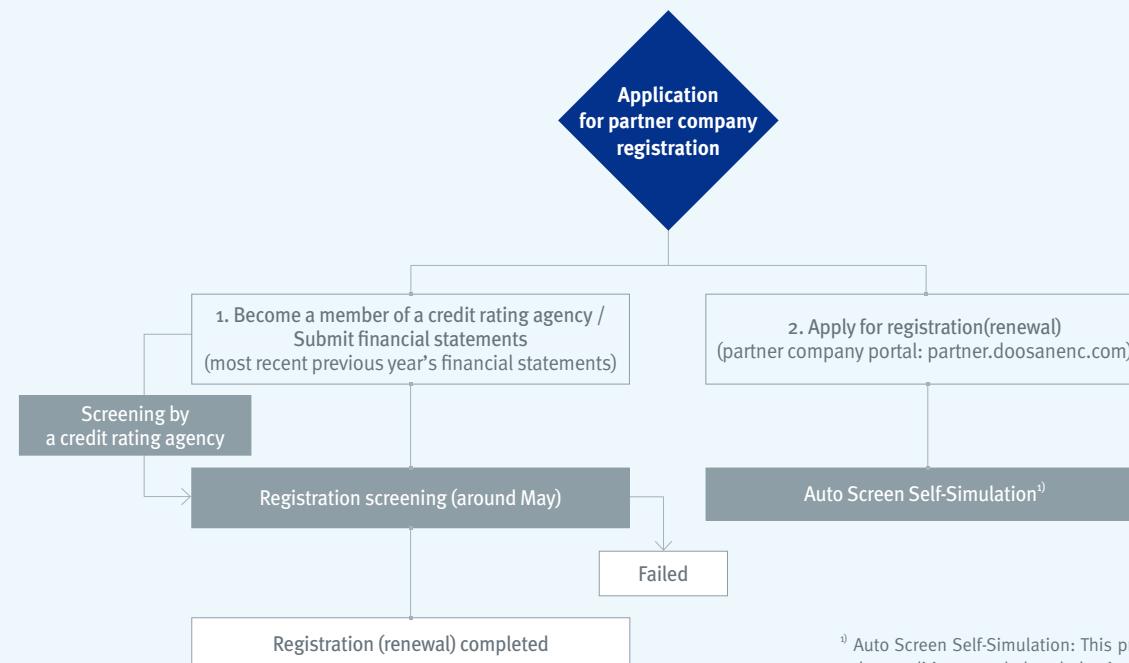
### Win-Win Management

Doosan E&C has adopted a win-win philosophy of “joint participation in a virtuous cycle alongside our partner companies”, and is building win-win management systems. We are fully committed to fair trade, including moving away from the previous purchase and subcontract contracting structure, while also further solidifying our relationships with partner companies by providing them with training programs and supporting their technological development.

#### 1. Fair selection and evaluation of partner companies

We select and manage registered companies based on our “partner company selection/operation guidelines” once a year. We nominate outstanding partner companies every year based on performance evaluation results, and provide them with such benefits as private contract.

##### Partner company registration process

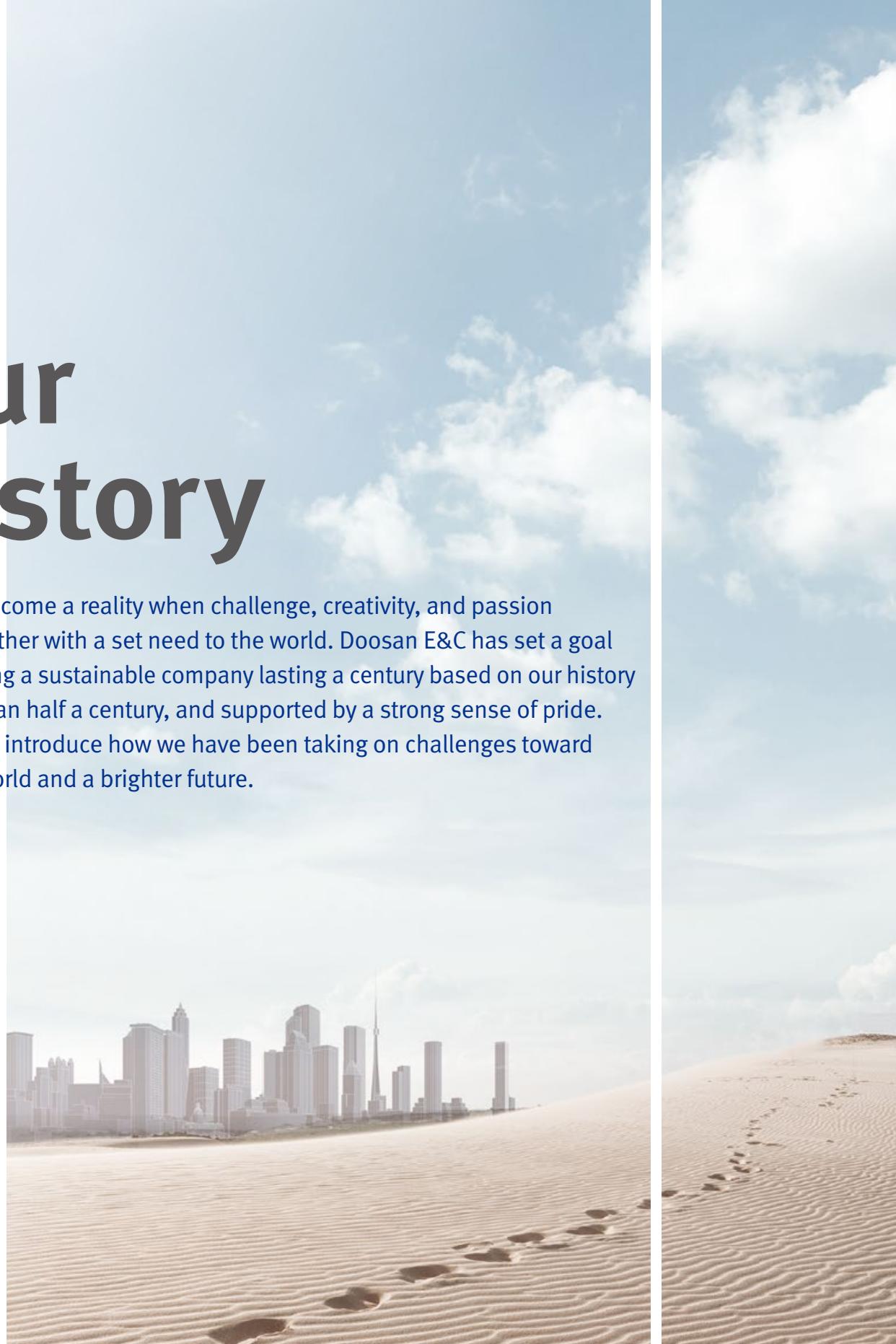


#### 2. Activities to support partner companies

Area	Support program	Target (size)	Main content	2021 performance
Training	Competency training for working-level employees at partner companies	Around 180 companies	Outsourced training by a professional organization on the Framework Act on the Construction Industry, subcontracting, etc.	159 companies
Technology	Support for technology development	Applicants	Joint application agreement on construction, environment, and new technologies, and partial support for development costs	5 cases
Healthcare	Health checkup	Outstanding partner companies	Support for the cost of Health checkups at Chung-Ang University Hospital	9 cases

# Our History

Dreams become a reality when challenge, creativity, and passion come together with a set need to the world. Doosan E&C has set a goal of becoming a sustainable company lasting a century based on our history of more than half a century, and supported by a strong sense of pride. Let us now introduce how we have been taking on challenges toward a better world and a brighter future.



## STRONG FOUNDATION

1960-1990s



- Jul. 1960 Doosan Engineering & Construction founded
- Mar. 1961 Obtained the construction business license (License #1488)
- Sep. 1978 Launched the El Shams Hotel Construction Project in Egypt (the first Korean company to enter the Egyptian market)
- Feb. 1983 Won the contract bid for the largest overseas project to construct the King Khalid International Airport in Saudi Arabia and its supporting facilities (PF-16)
- Nov. 1987 Completed the construction of the National Assembly Library
- Dec. 1987 Completed the construction of Jungbu Expressway Sector 3 (first expressway construction)
- Feb. 1993 Changed the company name from Dongsan Construction to Doosan Engineering & Construction
- Oct. 1993 Completed the Public Water Reclamation Project at Masan Port
- Dec. 1996 Completed the construction of Seohaean Expressway Sector 4 (Ansan-Anjung)
- Jun. 1998 Completed the construction of Bundang Korea Telecom Building
- Dec. 1998 Completed the construction of Doosan Tower in Dongdaemun
- Jul. 1999 High-quality glossy architectural concrete approved as New Excellent Technology Certification (first in Korea)

## GROWTH MOMENTUM

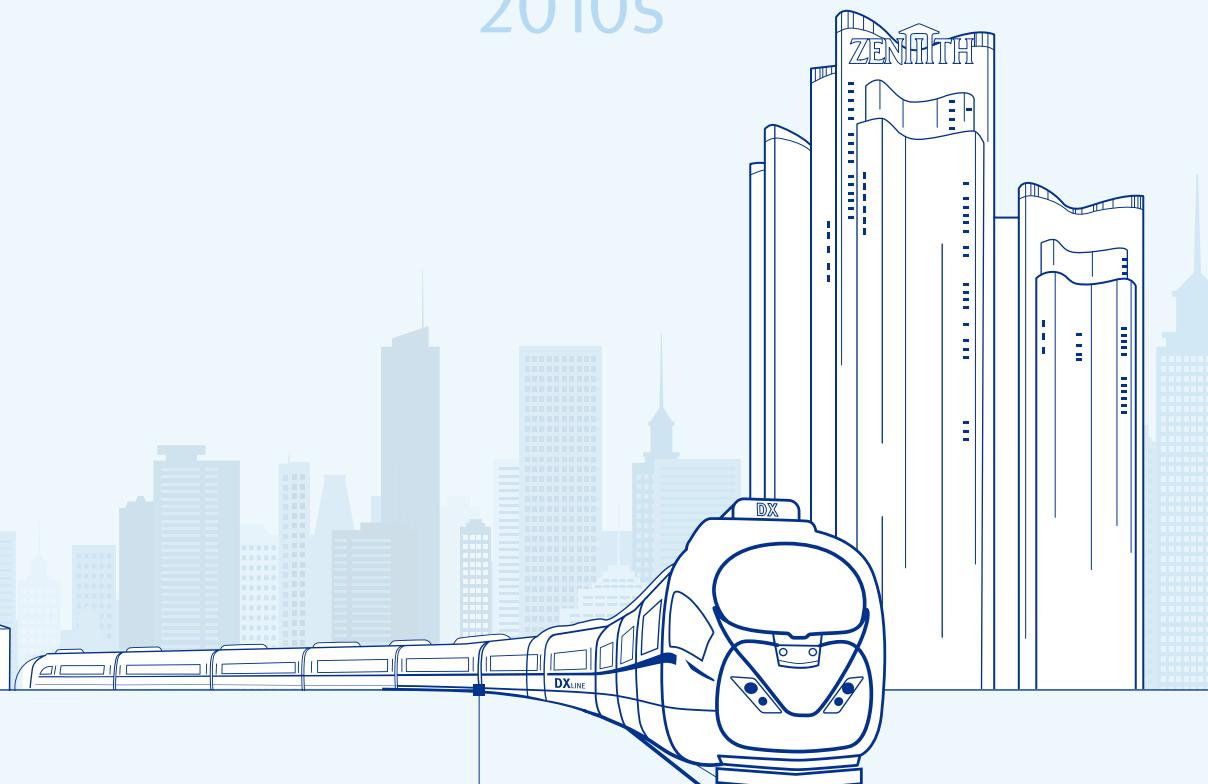
2000s



- Feb. 2001 Launched Doosan We've, a leading housing brand in Korea
- Aug. 2002 Opened Sector 230 of the Busan Subway System (first application of the large diameter shield method in Korea)
- Mar. 2004 Completed the construction of road-bed facilities of Sector 1-1 of the Gyeongbu High-speed Railway (origination of KTX High-speed Railway)
- May 2004 Merged with Korea Industrial Development Company
- Jul. 2004 Opened Sector 4 of the Daejeon Riverside Expressway (Korea's first private investment project built using foreign capital)
- Apr. 2005 Spalling failure prevention and fire resistance improvement method for concrete column approved as New Excellent Technology Certification (first in Korea)
- Dec. 2005 Opened the Wando-Sinjido Landing Bridge (840 m long span bridge over the sea)

## UP TO CHALLENGES

2010s

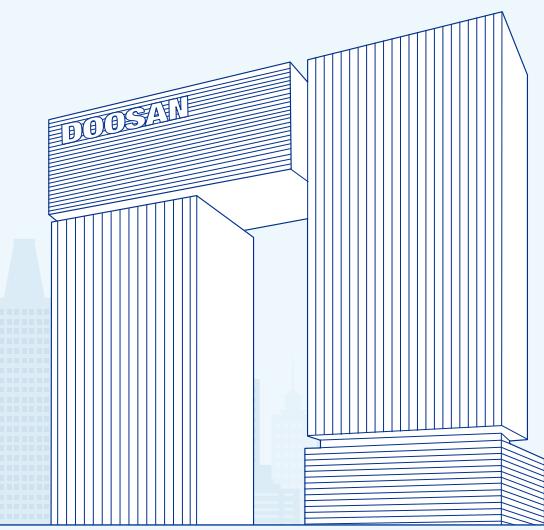


- Jun. 2006 Opened Sector 6 of the Seoul Ring Expressway
- Sep. 2006 Completed the construction of the 345 kV of T/L between Yangyang and Donghae (length of line: 88.5 km, No. of transmission towers: 252)
- Dec. 2007 Received the industry's first Certificate of Safety and Health Management System (KOSHA 18001 and OHSAS 18001)
- Jul. 2008 Dongtan New City Purun Maeul Doosan We've receives the Presidential Award at the 12th Good Apartment Awards
- Aug. 2009 Opened Sector 909 of the Seoul Metro Line 9 (largest in Korea using large diameter shield TBM method)
- Aug. 2009 Completed the construction of KORAIL New Headquarters Building
- Dec. 2009 Completed the construction of Daegu Doosan We've the Zenith (the first ultra-large mixed-use building in Daegu)

- Oct. 2011 Opened the Shinbundang Line from Gangnam Station to Jeongja Station (Korea's first public private partnership subway line project)
- Nov. 2011 Completed the construction of Haeundae Doosan We've the Zenith (80 floors, 300 m high-rise mixed-use building)
- Jan. 2013 Completed the construction of Seosuwon-Uiwang Highway
- Aug. 2014 Opened the Sector 1-3 of Honam High-speed Railway
- Jun. 2015 Completed the construction of Chongju Doosan We've Gwelcity 2
- Feb. 2016 Opened the extended sector of Shinbundang Line from Jeongja to Gwanggyo (Korea's first public private partnership subway line project)
- Jul. 2016 Opened the Sector 5 of Gangnam Beltway (ultra-large-scale private investment project)
- Sep. 2017 Designated a worker safety management system based on worker location and environmental information during tunnel construction as a new technology
- Oct. 2017 Completed the construction of Dongdaegu Station Elevated Bridge
- Mar. 2018 Opened the Sector 5 of Gyeonggi Gangwon High-speed Railway
- Feb. 2019 Completed the construction of Gimhae Centum Doosan We've the Zenith

## TOWARD 100-YEAR MILESTONE

2020-



- May 2020 60th anniversary of founding
- Dec. 2020 Completed the construction of Bundang Doosan Tower
- Feb. 2021 Held a groundbreaking ceremony for the Bitgoeul Eco Fuel Cell Power Plant (first application and commercialization of the LPG-LNG dual model)
- Jun. 2021 Completed the construction of Incheon Fuel Cell Power Plant
- Dec. 2021 Designated a new functional blast furnace slag cement (Dooment) as a new engineering method
- Dec. 2021 Signed a contract for the Housing Redevelopment Project at Uam District 2 in Busan (5 floors underground, 35 floors above ground, 29 buildings, 3,018 households)
- May 2022 Opened Section 3-1 of the Shinbundang Line (Gangnam Station - Sinsa Station) (Korea's first public-private partnership subway line project)

# Business Portfolio

Doosan E&C adds new value to housing, architecture, infrastructure, and other related areas by leveraging its technological prowess from a unique perspective. We also set new standards in creating spaces from Intelligent Building System (IBS) with cutting-edge technologies to architecture featuring creative design as well as infrastructure that has changed the landscape of Korea.

01

## HOUSING

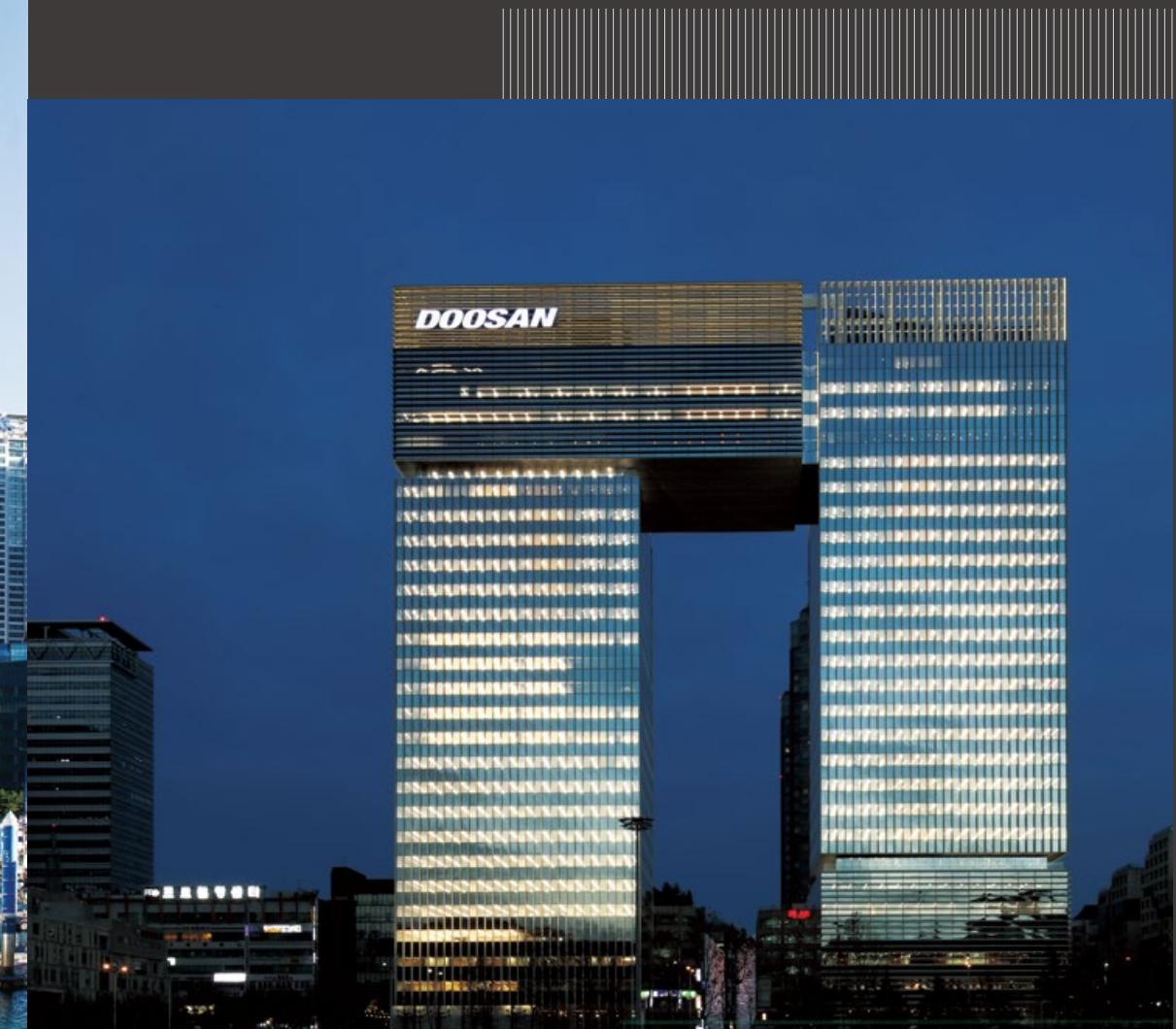
- Housing Development
- Urban Renewal Projects



02

## ARCHITECTURE

- Office & Commercial Buildings, Plants, Logistics Facilities
- Medical & Research Facilities
- Public Buildings, Educational Facilities
- Hotels, Religious, Cultural Facilities
- Renovation, Electrical Work Projects



03



## INFRASTRUCTURE

- Railways, Subways, Tunnels
- Roads, Expressways
- Bridges, Environment & Energy

# 01

## HOUSING

Doosan E&C is starting a new chapter in high-class residential culture based on its philosophy of enriching the quality of life through creation of residential spaces where people can enjoy their daily lives to the maximum degree of convenience and pleasure.

### Haeundae Doosan We've the Zenith

Located in the beachside Haeundae area of Busan City, this high-rise 300 m residential building is Doosan E&C's flagship project, and embodies our advanced technologies and concept of sustainable living in harmony with nature.

# Building real value



01.

# HOUSING gnibJiuB Jseor 9uJsv

Doosan E&C is starting a new chapter in high-class residential culture based on its philosophy of enriching the quality of life through creation of residential spaces where people can enjoy their daily lives to the maximum degree of convenience and pleasure.

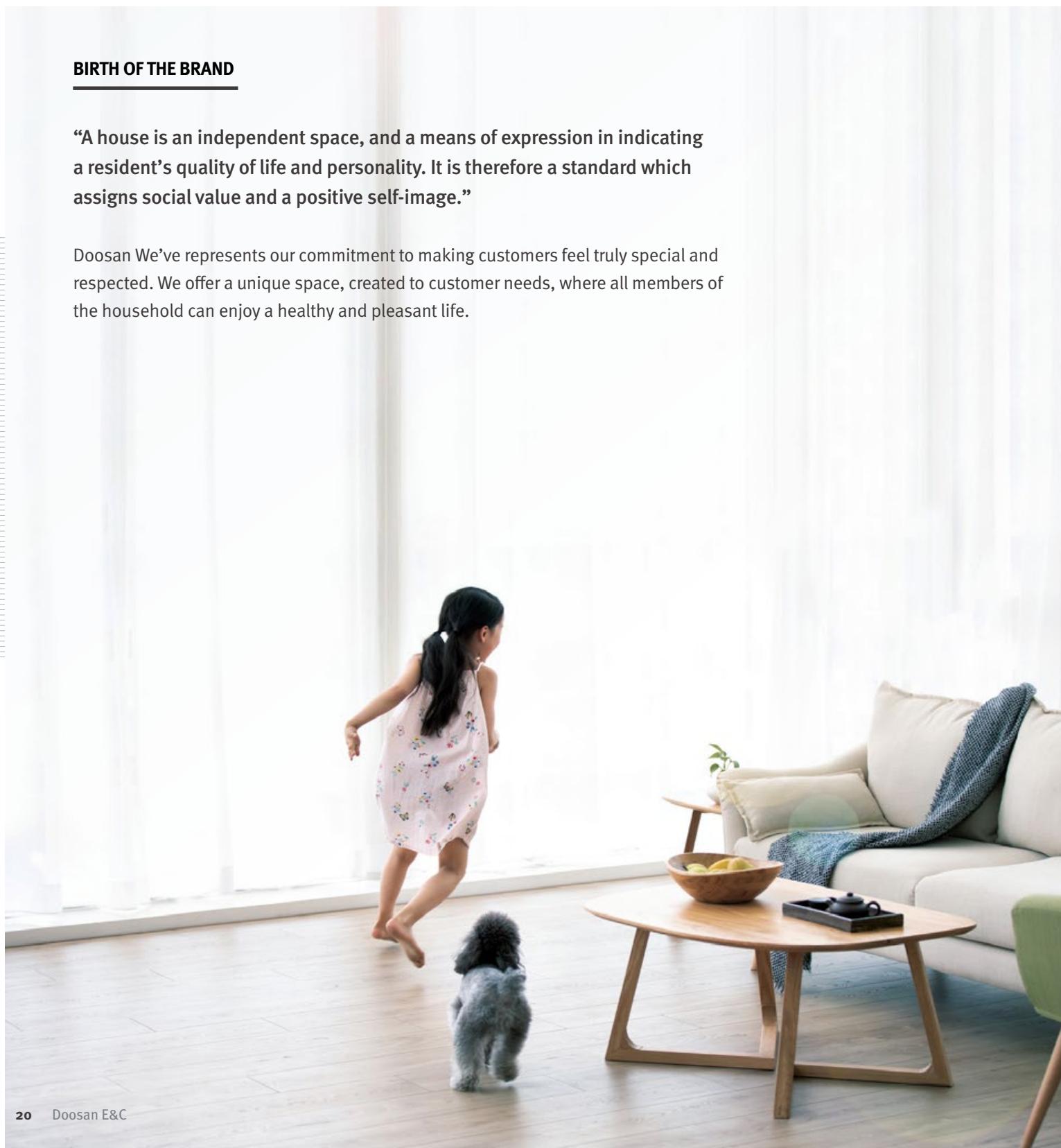
## Haeundae Doosan We've the Zenith

Located in the beachside Haeundae area of Busan City, this high-rise 300 m residential building is Doosan E&C's flagship project, and embodies our advanced technologies and concept of space living in harmony with nature.



# Like no other

We create a distinctive residential culture with the unique spatial perspective of We've.

**BIRTH OF THE BRAND**

"A house is an independent space, and a means of expression in indicating a resident's quality of life and personality. It is therefore a standard which assigns social value and a positive self-image."

Doosan We've represents our commitment to making customers feel truly special and respected. We offer a unique space, created to customer needs, where all members of the household can enjoy a healthy and pleasant life.

**BRAND IDENTITY****Value Offering**

Provide a global housing culture based on a highly-tuned sense of aesthetics and detailed practicality

**High Quality**

Create a high-class residential space which utilizes the best design and technologies

**User Centric**

Enhance customers' lives by providing a comfortable and happy space for their daily lives

**BRAND TYPES**

Launched in 2001, "Doosan We've" has become synonymous with a residential space complete with what people would need today to nurture the love for their lives. The brand symbolizes a space with all the needs for convenience in daily life, a space functional to every inch of it – in short, a space where anyone would want to live in.



"We've the Zenith" is Doosan E&C's brand for mixed-use buildings, representing a first-class housing culture. Its brand identity includes an icon symbolizing a Renaissance structure, conjuring up images of a high-class housing culture most people aspire to.



"Centium" is a dual-purpose building brand of Doosan E&C, with "Centi-" standing for the century and "um" for grand structures, together projecting the image of a residential space that will be a standard for a century and beyond.



Doosan We've Website

## High-rise residential buildings that represent the “Zenith” brand

### Haeundae Doosan We've the Zenith

(Dec. 2007-Nov. 2011)

#### Construction Outline

- 33, Marine city 2-ro, Haeundae-gu, Busan
- 3 buildings, 1,788 households
- De Stefano & Partners (architectural design), SWA Group (landscaping), Thornton-Tomasetti (structural design)

#### Features

- 80 floors, 300 m
- High-rise residential building

#### Safety

- Set up a refuse area at every three floors for the first time in Korea
- Applied the spalling failure prevention method that prevents rupture of concrete in the event of a fire
- Applied a lateral load resisting structural system that can withstand a strong earthquake of magnitude 7.0 on the Richter Scale and strong winds of 40 m per second at 300 m high
- Installed a structural health monitoring (SHM) system that monitors the impact of wind and earthquake on the building in real time

#### Design

- A curved exterior that is in the form of waves
- Received many design awards, including the Winner of Red Dot Design Award, for the first time among residential buildings, and Grand Prize of Good Design Award



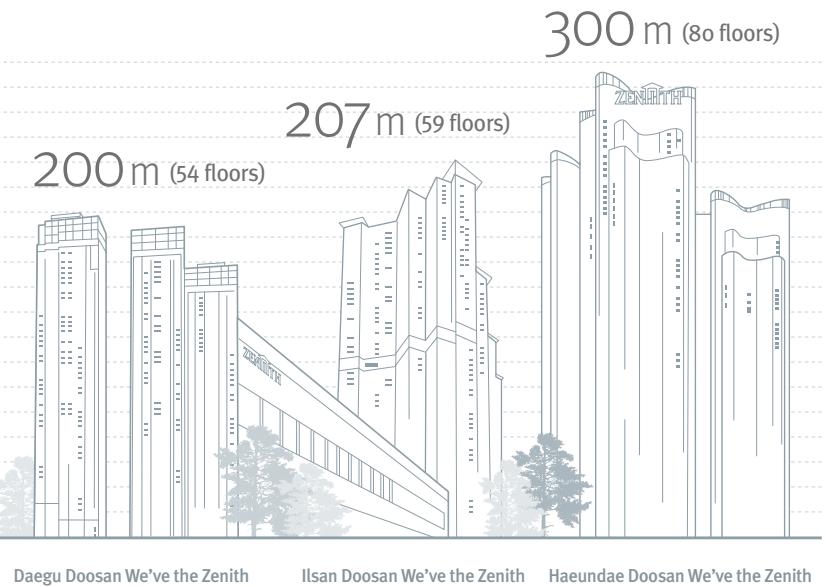


**Daegu Doosan We've the Zenith**  
(Dec. 2005-Dec. 2009)

- 2435, Dalgubeol-daero, Suseong-gu, Daegu
- 9 buildings, 1,494 households
- 54 floors, 200 m
- Received many awards, including the industry's first Presidential Award of the 8th Korea Safety Awards and the Residential Culture Grand Prize



Doosan E&C is setting the bar high for high-rise buildings by leveraging outstanding technological prowess



**Ilsan Doosan We've the Zenith**  
(Oct. 2009-Apr. 2013)

- Ilsanseo-gu, Goyang-si, Gyeonggi-do
- 8 buildings, 2,700 households
- 59 floors, 207 m

## KEY PROJECTS

### Housing Development



**Gimhae Centum Doosan We've the Zenith**  
(Apr. 2016-Nov.2018)

- 3 floors underground, 25-30 floors above ground, 32 buildings, 3,435 households
- Largest residential complex in South Gyeongsang Province based on single household size



**Dongtan New City Purun Maeul Doosan We've**  
(Mar. 2005-Dec. 2007)

- 3 floors underground, 15-35 floors above ground, 11 buildings, 915 households
- Received the Presidential Award at the 12th Good Apartment Awards



**Yongin Shindongbaek Doosan We've the Zenith**  
(May 2018-Jun. 2021)

- 3 floors underground, 32 floors above ground, 10 buildings, 1,187 households

**Cheonan Administrative Town Doosan We've**  
(Nov. 2016-May 2018)

- 1 floor underground, 26 floors above ground, 15 buildings, 1,105 households

**Namyangju Doosan We've Tresium**  
(Jul. 2017-Sep. 2020)

- 2 floors underground, 35 floors above ground, 13 buildings, 1,620 households
- Doosan E&C's first large-scale regional housing cooperative project

**Cheongju Doosan We've Gwell City 2**  
(Mar. 2012-Jun. 2015)

- 3 floors underground, 45 floors above ground, 8 buildings, 1,956 households

# Urban Renewal Projects

Redevelopment



**1**  
**Siheung Daeya Station Doosan We've the Park**  
(Feb. 2018-May 2020)

- 3 floors underground, 24 floors above ground, 15 buildings, 1,382 households



**2**  
**Pyeongchon Doosan We've Riverview**  
(Nov. 2018-Nov. 2021)

- 2 floors underground, 37 floors above ground, 8 buildings, 855 households



**3**  
**Beomil Doosan We've the Zenith Harbor City**  
(Planned for May 2019-May 2023)

- 5 floors underground, 49 floors above ground, 7 buildings, 2,385 households

**4**  
**Gwangmyeong Arc Foret Xi We've**  
(May 2018-Apr. 2021)

- 3 floors underground, 29 floors above ground, 19 buildings, 2,104 households

**5**  
**Gwangju Gyerim Doosan We've the Park**  
(Oct. 2018-Apr. 2021)

- 2 floors underground, 24 floors above ground, 10 buildings, 908 households

# Urban Renewal Projects

Rebuilding



1

**Haeundae Hillstate We've**  
(Jan. 2010-Nov.2013)

- 2 floors underground, 53 floors above ground, 21 buildings, 2,369 households
- Received the Minister of the Interior and Safety Award at the 2012 Korea Safety Awards



2

**Gajwa Doosan We've Tresium**  
(Nov. 2015-Mar. 2018)

- 2 floors underground, 27 floors above ground, 16 buildings, 1,757 households



3

**Shinmaetan We've Hanulche**  
(Jul. 2005-May 2008)

- 2 floors underground, 18-30 floors above ground, 35 buildings, 3,391 households



4

**Deokso Doosan We've**  
(Dec. 1999-Nov. 2002)

- 2 floors underground, 25 floors above ground, 25 buildings, 1,253 households
- Received many awards, including the Grand Prize at the 7th Good Apartment Awards



5

**Jamsil ParkRio**  
(May 2005-Aug. 2008)

- 2 floors underground, 26-36 floors above ground, 11 buildings, 1,060 households

## MAJOR PROJECT ACHIEVEMENTS

Complex Name	Households	Region	Complex Name	Households	Region
<b>Contracted Projects _ Total No. of households: 16,097</b>					
Eunpyeong New Town Woomulgol Doosan We've	1,803	Seoul	DMC Doosan We've the First	1,059	Seoul metropolitan area
Gangdong Riverst Zone 4	1,239	Seoul	Giheung Park View	915	Seoul metropolitan area
Magok Suyeong Mountain Park	1,147	Seoul	Goyang Pung-dong Jugong Apartment	888	Seoul metropolitan area
Misa Riverside City Zone 14	1,632	Seoul metropolitan area	Chuncheon Yanggu Apartment	518	Gangwon-do
Incheon Samsan Jugong Apartment	1,622	Seoul metropolitan area	Daegok Station Greenville	1,170	Gyeongsang-do
Ansan Gojan Apartment	1,616	Seoul metropolitan area	Busan Jeonggwan Zone Happy Housing	856	Gyeongsang-do
Osan Segyo Apartment	1,060	Seoul metropolitan area	Daegu Innovation City LH Zone 4	572	Gyeongsang-do
<b>Housing Development _ Total No. of households: 64,271</b>					
Gasan-dong Doosan Apartment	1,495	Seoul	Pohang Jangseong Doosan We've the Zenith	1,713	Gyeongsang-do
Myeonmok-dong Doosan Apartment	1,105	Seoul	Daegu Suseong Doosan We've the Zenith	1,494	Gyeongsang-do
Majang-dong Doosan Apartment	1,017	Seoul	Doosan We've the Zenith Yangsan	1,368	Gyeongsang-do
Sinnae-dong Doosan Apartment	622	Seoul	Busan Myeongji Doosan We've Poseidon	1,256	Gyeongsang-do
Nonhyeon-dong Doosan Apartment	548	Seoul	Haeundae Doosan Apartment (2 & 3)	1,206	Gyeongsang-do
Changshin-dong Doosan Apartment	529	Seoul	Daegu Paldal Doosan We've	1,108	Gyeongsang-do
Gwanghwamun Doosan We've Pavilion	448	Seoul	Jinju Geumsan Doosan We've	970	Gyeongsang-do
Sangam Doosan We've Centium	325	Seoul	Gimhae Juchon Doosan We've the Zenith	851	Gyeongsang-do
Songpa Doosan We've	267	Seoul	Geoje Doosan We've the Park	824	Gyeongsang-do
Ilsan Doosan We've the Zenith	2,700	Seoul metropolitan area	Ulsan Beonyeong-ro Doosan We've	761	Gyeongsang-do
Shinyeongtong Doosan We've	2,692	Seoul metropolitan area	Gyeongju Jinhyeon Doosan We've	730	Gyeongsang-do
Namyangju Doosan We've Tresium	1,620	Seoul metropolitan area	Busan Beomil-dong Doosan We've Poseidon II	658	Gyeongsang-do
Bundang Doosan We've Pavilion	1,519	Seoul metropolitan area	West Ulasn Doosan We've	451	Gyeongsang-do
Yongin Shindongbaek Doosan We've the Zenith	1,187	Seoul metropolitan area	Geoje Sinhyeon Doosan We've	406	Gyeongsang-do
Bandal Maeul Doosan We've (Shin Dongtan Doosan We've)	1,042	Seoul metropolitan area	Uljin Eupnam Apartment Housing	393	Gyeongsang-do
Incheon Hyosung Doosan Apartment	957	Seoul metropolitan area	Haeundae Dongbaek Doosan We've the Zenith	383	Gyeongsang-do
Dongtan Purun Maeul Doosan We've (Dongtan New City Doosan We've)	915	Seoul metropolitan area	Gimhae Samgye Doosan We've	378	Gyeongsang-do
Bucheon Jung-dong Doosan We've the State	864	Seoul metropolitan area	Busan Guseo Station Doosan We've Poseidon	370	Gyeongsang-do
Namyangju Onam Doosan We've 1 & 2	812	Seoul metropolitan area	Haeundae Jung-dong Doosan We've	358	Gyeongsang-do
Ilsan Pung-dong Doosan We've	730	Seoul metropolitan area	Ulsan Munsu-ro Doosan We've the Zenith	355	Gyeongsang-do
Hwaseong Byeongjeom Doosan Apartment	694	Seoul metropolitan area	New Central Doosan We've the Zenith	316	Gyeongsang-do
Doosan We've Gwangju Central Park	693	Seoul metropolitan area	Daegu Sincheon Doosan We've	294	Gyeongsang-do
Haengsin Doosan Apartment	688	Seoul metropolitan area	Ulsan Sinjeong Doosan We've the Zenith	278	Gyeongsang-do
Bundang Geumgok Doosan We've	656	Seoul metropolitan area	Busan Jeonggwan Doosan We've the Terrace	272	Gyeongsang-do
Suwon Yeongtong Doosan Apartment	614	Seoul metropolitan area	Haeundae Doosan We've Poseidon	255	Gyeongsang-do
Suji Sanghyeon Doosan We've	556	Seoul metropolitan area	Gwangju Cheomdan Doosan Apartment (1 & 2)	898	Jeolla-do
Doosan We've Hosu Maeul	450	Seoul metropolitan area	Jeonju Seogok Doosan Apartment	535	Jeolla-do
Pangyo Alpharium Zone 1	417	Seoul metropolitan area	ShinYoung Gwell City 1	2,164	Chungcheong-do
Bundang Doosan We've Zenith Tower	157	Seoul metropolitan area	Cheongju Doosan We've Gwell City 2	1,956	Chungcheong-do

Complex Name	Households	Region	Complex Name	Households	Region
<b>Redevelopment _ Total No. of households: 45,095</b>					
Samcheok Central Doosan We've	736	Gangwon-do	Osong Doosan We've Centium	1,515	Chungcheong-do
Chuncheon Doosan We've	677	Gangwon-do	Administrative Town Doosan We've the Park	1,105	Chungcheong-do
Gimhae Yulha the Sky City Zenith & Prau	3,764	Gyeongsang-do	Daejeon Galma Dong San Apartment	700	Chungcheong-do
Gimhae Centum Doosan We've the Zenith	3,435	Gyeongsang-do	Administrative Town Central Doosan We've	655	Chungcheong-do
Haeundae Doosan We've the Zenith	1,788	Gyeongsang-do	Cheongju Sajik Doosan We've the Zenith	576	Chungcheong-do
<b>Rebuilding _ Total No. of households: 25,537</b>					
Mokdong Central iPark We've	3,045	Seoul	Uiyeongbu Station Central Xi & We've Castle	2,473	Seoul metropolitan area
Dapsimni Raemian We've	2,652	Seoul	Gwangmyeong Arc Foret Xi We've	2,104	Seoul metropolitan area
Wolgok Doosan We've	2,197	Seoul	Bucheon Doosan We've Tresium (Zone 1 & 2)	1,633	Seoul metropolitan area
Bongcheon-dong Doosan We've	2,001	Seoul	Daeya Station Doosan We've the Park	1,382	Seoul metropolitan area
Mia Doosan We've the Tresium	1,370	Seoul	Doosan We've the Zenith Central Yeoui	1,115	Seoul metropolitan area
Guro Doosan Apartment	1,285	Seoul	Gwangmyeong Cheolsan Doosan We've	900	Seoul metropolitan area
Geumho Doosan Apartment	1,267	Seoul	Pyeongchon Doosan We've Riverview	855	Seoul metropolitan area
Dapsimni Doosan Apartment	739	Seoul	Bupyeong Doosan We've the Park	799	Seoul metropolitan area
Guro Doosan We've	660	Seoul	Goyang Daegok Station Doosan We've	691	Seoul metropolitan area
Dapsimni Doosan We've	516	Seoul	Anyang Art Park Doosan We've	558	Seoul metropolitan area
Haengdang-dong Doosan We've	465	Seoul	Geumnam-ro Jungheung S-Class & Doosan We've the Zenith	2,240	Jeolla-do
Gireum New Town Doosan We've	449	Seoul	Gwangju Gyerim Doosan We've the Park	908	Jeolla-do
Yongdu Doosan We've	433	Seoul	Gwangju Gyerim Doosan We've 1	658	Jeolla-do
Sinjeong New Town Doosan We've	357	Seoul	Gwangju Gyerim Pureungil Doosan We've	648	Jeolla-do
Nokcheon Doosan We've	326	Seoul	Beomil Doosan We've the Zenith Harbor City	2,385	Gyeongsang-do
Bukhansan Doosan We've 1	497	Seoul	Doosan We've the Zenith Central Saha	1,643	Gyeongsang-do
Yeongdeungpo Doosan We've	271	Seoul	Changwon Doosan We've the Central	663	Gyeongsang-do
Eunpyeong Sinsa Doosan We've 2	139	Seoul	Haeundae Centum Doosan We've	581	Gyeongsang-do
Bucheon Illumistate	3,724	Seoul metropolitan area	Busan Beomil New Town Doosan We've	466	Gyeongsang-do
<b>Rebuilding _ Total No. of households: 25,537</b>					
Seokgwan-dong Doosan Apartment	1,998	Seoul	Shinmaetaen We've Hanulche	3,391	Seoul metropolitan area
Jamsil ParkRIO	1,060	Seoul	Incheon Gajwa Doosan We've Tresium	1,757	Seoul metropolitan area
Bugahyeon-dong Doosan We've	956	Seoul	Namyangju Deokso Doosan We've	1,253	Seoul metropolitan area
Anyang Seoksu Doosan We've	742	Seoul	Gwangmyeong Haan Doosan We've Tresium	1,248	Seoul metropolitan area
Seoul Gongneung-dong Rebuilding Project	579	Seoul	Suwon Hwaseo We've Hanulche	807	Seoul metropolitan area
Gaebong-dong Doosan Apartment	561	Seoul	Banwol Station Doosan We've the Central	725	Seoul metropolitan area
Bukhansan Doosan We've 2	296	Seoul	Ansan Choji Doosan We've Tresium	695	Seoul metropolitan area
Sadang Namseong Doosan We've Tresium	451	Seoul	Gachon University Station Doosan We've	503	Seoul metropolitan area
Nonhyeon-dong Hanshin Yangwoo Doosan We've	266	Seoul	Doosan We've Hosu Maeul	446	Seoul metropolitan area
Eunpyeong Sinsan Doosan We've 1	178	Seoul	Haeundae HILLSTATE Doosan We've (AID)	2,369	Gyeongsang-do
Shin Geumho Doosan We've	169	Seoul	Changwon Myeonggok Doosan We've	1,522	Gyeongsang-do
Seongsu-dong Doosan We've	157	Seoul	Ulsan Mugeo We've Xi	922	Gyeongsang-do
Seocho-dong Doosan We've (1 & 2)	125	Seoul	Daegu Seongdang Doosan We've	690	Gyeongsang-do
Jeungsan-dong Doosan We've	122	Seoul	Jeonju Inhu We've OULLIM	1,549	Jeolla-do

# 02

## ARCHITECTURE

Doosan E&C creates better spaces by combining creative thinking, state-of-the-art technologies, and refined discernment, leading an architectural culture of uncommon style and changing urban skylines and regional landscapes for the better.

### Bundang Doosan Tower

Located in Seongnam-si, Gyeonggi-do, Bundang Doosan Tower is an eco-friendly building which stands out for its beautiful design. It is a cornerstone project for Doosan E&C's architecture business, and embodies the forward-looking corporate philosophy of Doosan Group.

# Creating new space



# 02. ARCHITECTURE doosan

Doosan E&C creates better spaces by combining creative thinking, state-of-the-art technologies, and refined discernment, leading an architectural culture of uncommon style and changing urban skylines and regional landscapes for the better.



**Bundang Doosan Tower**

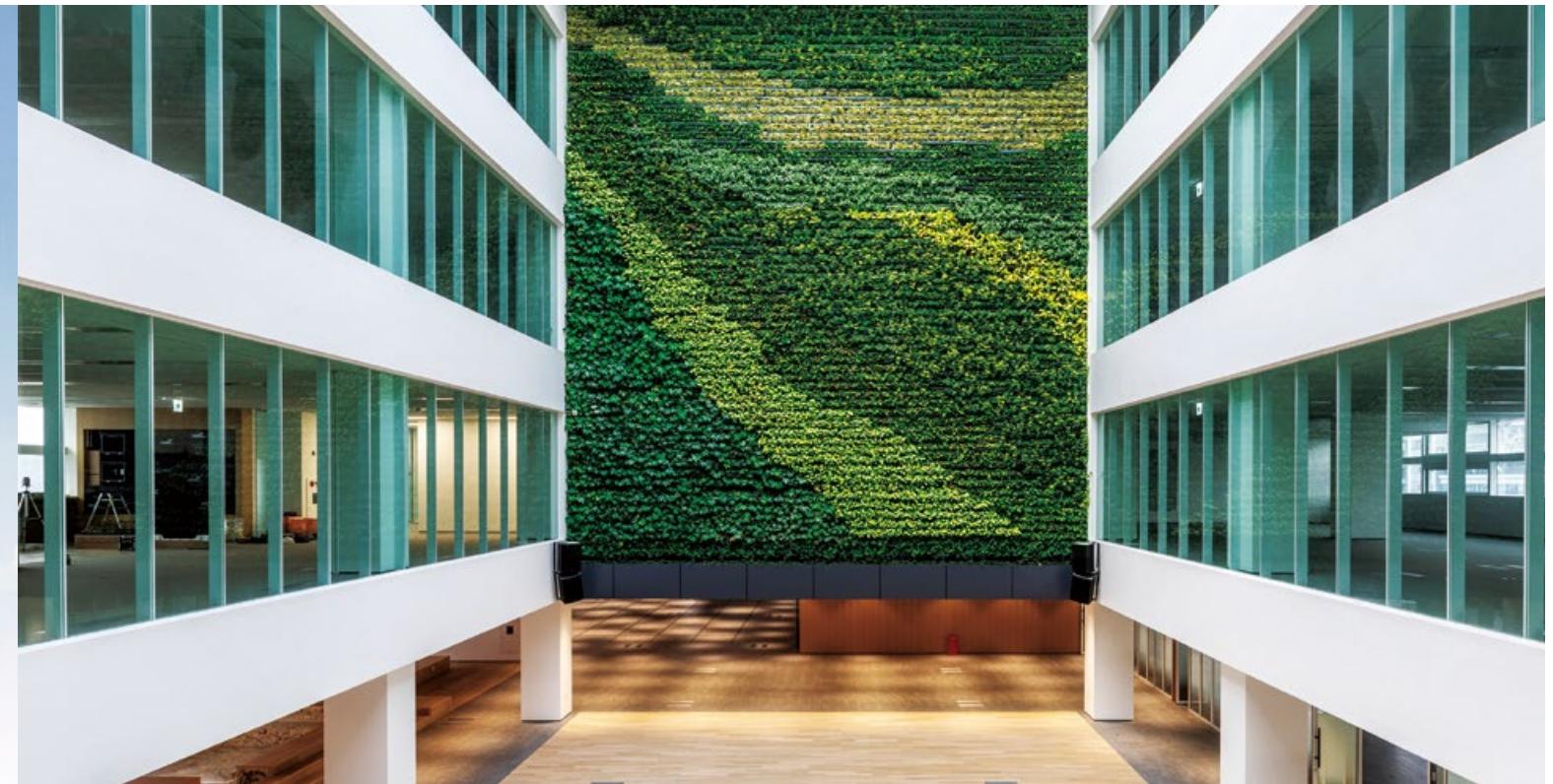
Located in Seongnam-si, Gyeonggi-do, Bundang Doosan Tower is an eco-friendly building which stands out for its beautiful design. It is a cornerstone project for Doosan E&C's architecture business, and embodies the forward-looking corporate philosophy of Doosan Group.

# New urban landscape

We build a new landmark through advanced technology and unique sensitivity.



36 Doosan E&C



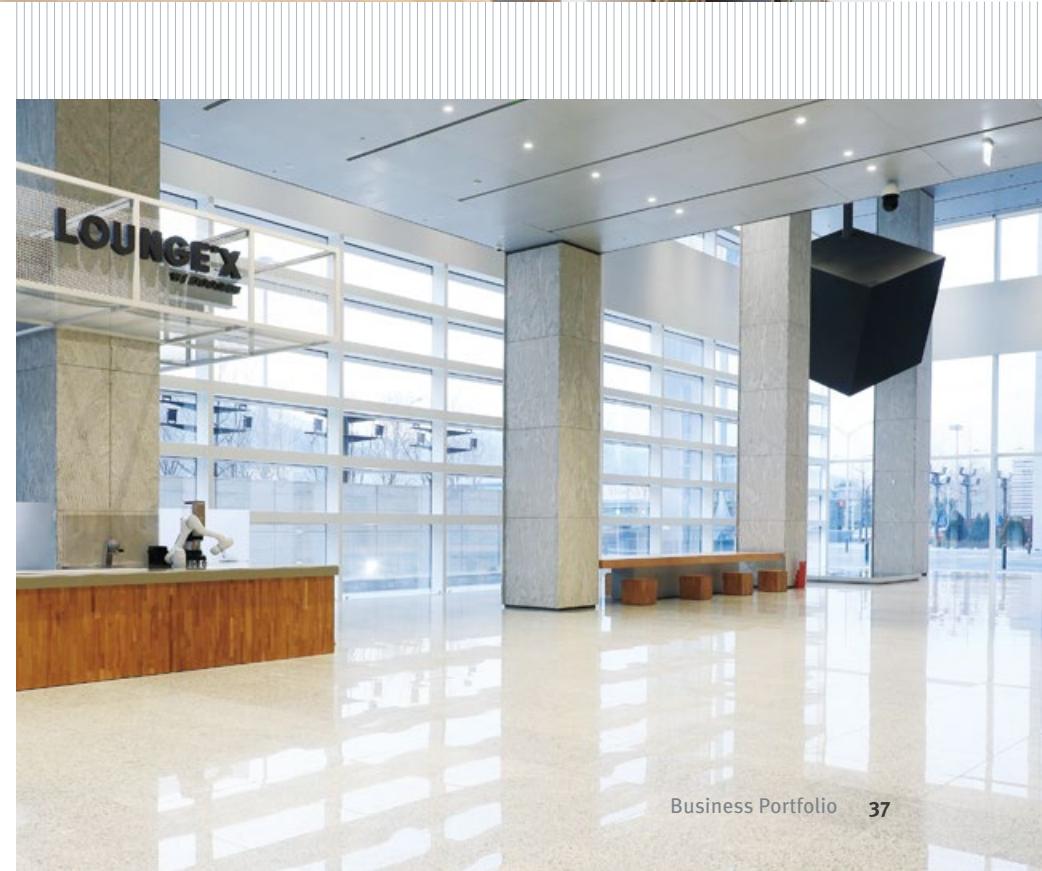
## Bundang Doosan Tower (Jun. 2017-Dec. 2020)

### Construction Outline

- 155, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do
- 7 floors underground, 27 floors above ground, maximum height of 119.97 m
- Total floor area of 128,550.56 m<sup>2</sup> (38,886.54 pyeong)
- Building area of 5,003.14 m<sup>2</sup> (1,513.45 pyeong)

### Features

- Applied a lift up method that requires advanced technological prowess to a 1,500-ton sky bridge, the largest in Korea
- Added eco-friendly elements to the design and construction by reflecting the corporate characteristic of expediting eco-friendly energy projects



Business Portfolio 37

## KEY PROJECTS

### Office & Commercial Buildings, Plants, Logistics Facilities



1

**Dongdaemun Doosan Tower**  
(Jan. 1996-Dec. 1998)

- 7 floors underground, 34 floors above ground, total floor area of 122,414 m<sup>2</sup>
- Landmark that represents the Dongdaemun commercial area
- Received the Main Prize at the 1999 Korean Architecture Awards

**Bundang Korea Telecom Building**  
(Apr. 1993-Jun. 1998)

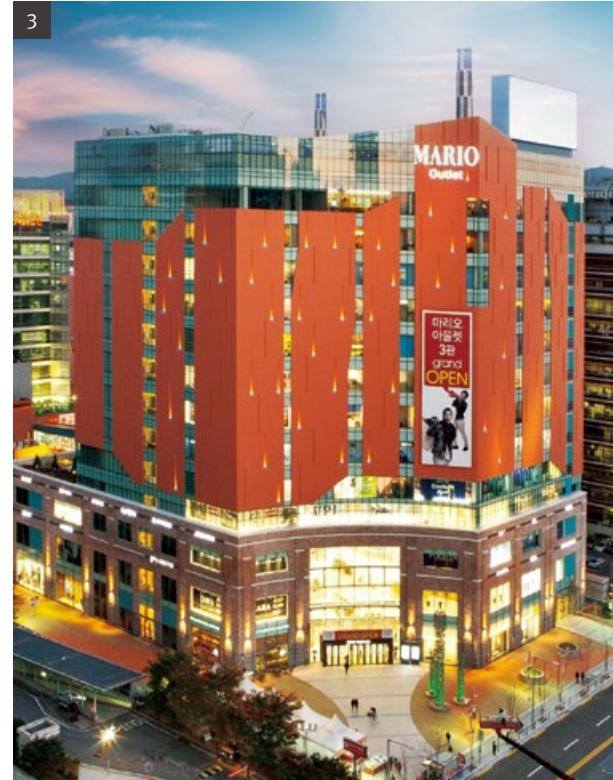
- 5 floors underground, 21 floors above ground, total floor area of 122,556 m<sup>2</sup>
- Mammoth-grade cutting-edge IBS building



2

**Mario Outlet**  
(Apr. 2011-Sep. 2012)

- 4 floors underground, 13 floors above ground, total floor area of 59,970 m<sup>2</sup>



**Ochang Glass Substrate Production Plant**  
(Nov. 2005-Dec. 2006)

- 1 floor underground, 4 floors above ground, total floor area of 44,591 m<sup>2</sup>
- SFRC method and Air Cushing system applied



4



5

**Copper Foil Plant in Hungary**  
(Dec. 2018-May 2020)

- 10 buildings in total, including the production building (2 floors above ground) and office building
- Total floor area of 30,715 m<sup>2</sup>  
Site area of 143,714 m<sup>2</sup>



6

**National Agricultural Cooperative Federation Pyeongtaek Logistics Center**  
(Jun. 2007-Dec. 2008)

- 1 floor underground, 3 floors above ground, total floor area of 58,174 m<sup>2</sup>



7

**Vietnam Post Da Nang Center** (Apr. 2021)

- "Vietnam Post Da Nang Center" where Doosan Logistics Solutions has established an automation system
- Generating synergy generation by building a collaboration system with Doosan Logistics Solutions, which provides a total logistics automation solution

## Medical & Research Facilities



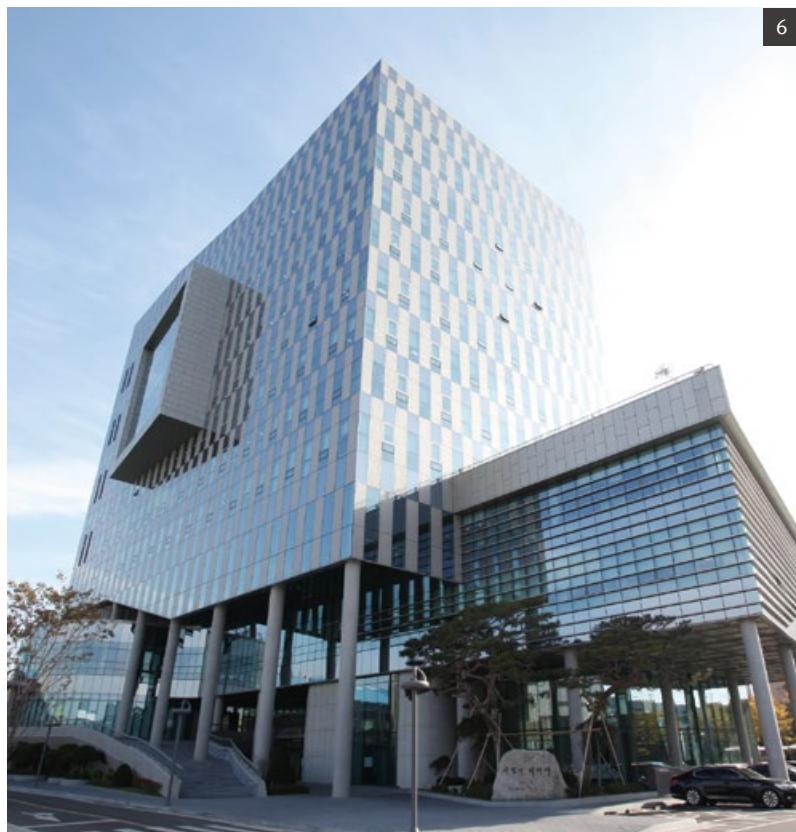
**Yongin Dongbaek Severance Hospital**  
(May 2017-Jan. 2020)

- 4 floors underground, 13 floors above ground, total floor area of 111,633 m<sup>2</sup>, 755 beds



**Gwangmyeong Medical Complex Cluster**  
(Aug. 2018-Jan. 2022)

- 8 floors underground, 14 floors above ground, total floor area of 96,949 m<sup>2</sup>, 692 beds



**Changwon Fatima Hospital**  
(Apr. 2019-May 2021)

- 2 floors underground, 4 floors above ground, expansion (total floor area of 27,460.49 m<sup>2</sup>), remodeling (total floor area of 15,987.98 m<sup>2</sup>)

**Seoul National University Hospital**  
**Cutting-Edge Outpatient Treatment Center**  
(Apr. 2016-Nov. 2018)

- 6 floors underground, 1 floor above ground, total floor area of 48,628 m<sup>2</sup>

**Chung-Ang University Hospital (Annex)**  
(Aug. 2009-Mar. 2011)

- 1 floor underground, 10 floors above ground, total floor area of 18,691 m<sup>2</sup>, 321 beds

**Doosan Infracore Global R&D Center**  
(Apr. 2012-Feb. 2014)

- 2 floors underground, 12 floors above ground, total floor area of 26,115.45 m<sup>2</sup>

## Public Buildings, Educational Facilities



1

**Korea Hydro & Nuclear Power Building**  
(Dec. 2013-Dec. 2015)

- 1 floor underground, 12 floors above ground, total floor area of 72,597 m<sup>2</sup>
- Large-scale atypical building

2

**National Assembly Library**  
(Feb. 1984-Nov. 1987)

- 1 floor underground, 5 floors above ground, total floor area of 26,608 m<sup>2</sup>, height of 157 m
- Received the 1991 Seoul City Architecture Award



5

**KORAIL New Headquarters Building**  
(Dec. 2006-Aug. 2009)

- Twin building of 4 floors underground and 28 floors above ground
- Total floor area of 111,366 m<sup>2</sup>, height of 136.6 m
- Landmark building in Daejeon

4

**Suwon Supreme Prosecutor's Office**  
(Nov. 2016-May 2019)

- 1 office building (2 floors underground, 20 floors above ground, total floor area of 67,437 m<sup>2</sup>), 1 lodging building for single persons, 1 daycare center building

5

**Chung-Ang University Centennial Memorial Hall and BNE Hall**  
(Sep. 2013-Jun. 2016)

- 6 floors underground, 12 floors above ground, total floor area of 73,900 m<sup>2</sup>

## Hotels, Religious, Cultural Facilities



**1**  
**Korean Culture Theme Park Building Project**  
(Oct. 2013-May 2021)

- 2 floors underground, 2 floors above ground, 95 buildings (82 traditional Korean houses – 66 with clay roof tiles and 16 with roof made of rice straws – and 13 RCs), total floor area of 20,606.17 m<sup>2</sup>

**2**  
**Ritz Carlton Hotel**  
(Nov. 1990-Feb. 1995)

- 7 floors underground, 17 floors above ground, total floor area of 61,453 m<sup>2</sup>
- Received the Grand Prize at the 1st Korea Remodeling Award

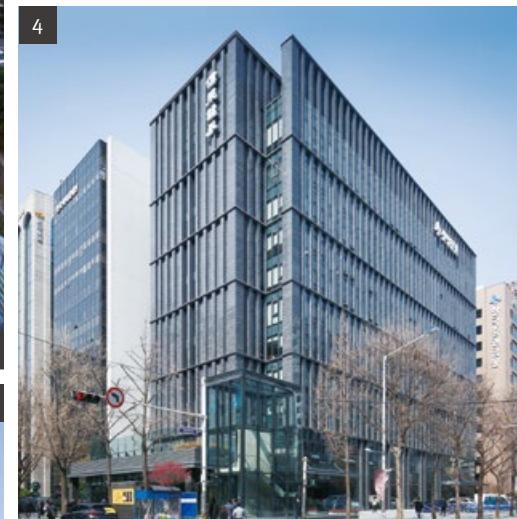
**3**  
**Yonsei Central Baptist Church**  
(Aug. 2003-May 2005)

- 3 floors underground, 3 floors above ground, total floor area of 39,272 m<sup>2</sup>
- Large-scale church building that accommodates 12,000 people

**4**  
**Icheon Bears Park**  
(Oct. 2012-Jul. 2014)

- Club house (1 floor underground, 4 floors above ground) and indoor practice ground: Total floor area of 3,066 m<sup>2</sup>
- Main stadium: Total floor area of 2,971 m<sup>2</sup>
- Received the Excellence Award at the Building Information Modeling (BIM) Award 2014

## Renovation, Electrical Work Projects



**1**  
**Hana Bank Samseong-dong Annex**  
(Apr. 2016-Apr. 2017)

- 4 floors underground, 10 floors above ground, total floor area of 16,288 m<sup>2</sup>
- Received the Grand Prize at the 12th Korea Ecological Environment Architecture Award

**2**  
**345 kV Bukgyeongnam 2nd Intersection T/L**  
(Nov. 2011-Aug. 2016)

- Length of line: 22.398 km
- No. of transmission towers: 57 units
- Height of towers: 197 m



**3**  
**Daegyo Tower** (May 2012-Jun. 2013)

- 5 floors underground, 19 floors above ground, total floor area of 46,427 m<sup>2</sup>
- Vertical and horizontal extension construction, damper method applied
- Received the Grand Prize at the 3rd Korea Remodeling Architecture Competition

**4**  
**Shinyoung Securities** (Feb. 2017-Mar. 2018)

- 4 floors underground, 12 floors above ground, total floor area of 27,291 m<sup>2</sup>
- Received the Grand Prize at the 8th Korea Remodeling Architecture Competition

**5**  
**Ichon Doosan We've Tresium** (Jul. 2007-Sep. 2008)

- 1 floor underground, 13 floors above ground, 1 building, 84 households

## MAJOR PROJECT ACHIEVEMENTS

Project Name	Project Name
<b>Office Buildings</b>	
Korea Telecom Seoul Information Center	Korea Hydro & Nuclear Power Building
Korea Telecom Gwangju Information Center	Bongnae District 1
Korea Telecom Bundang Information Center	Nam Seoul Dual Purpose Building
KT Gunpo Branch	Daemyung Yeoksam Venture Center
CCMM Building	Salvation Army Korea Missionary Work the 100th Anniversary Building
Gangnam Bearstel	G-Valley G-Square
Nonhyeon-dong Doosan Building	Aju Pipe Engineering Building
Yeongang Building	Ryan Tower
Bundang Doosan Tower	
<b>Commercial Buildings</b>	
Dongdaemun Doosan Tower	Gaepo 2 Underground Subway Station (Suseo-Seolleung)
LOTTE Shopping Center & Plaza	Daegu M-World Auto Sales Center
Sambo Sales Support Facilities	Dongdaemun aPM Building
Costco Wholesale Daegu	Apgujeong Square
<b>Plants, Logistics Facilities</b>	
Ochang Glass Substrate Production Plant	Doosan Infracore Gunsan Plant
Changwon Seongju Plant (1-1 Phase)	IT Building of Pan-Pacific Seoul Plant
Doosan Fuel Cell Iksan Plant	Engine Research Building of Doosan Infracore Incheon Plant
Advanced Excavator Plant in Incheon	Engine Production Building of Doosan Infracore Incheon Plant
Daewoong Pharm. GMP-certified Plant in Hyangnam	National Agricultural Cooperative Federation Pyeongtaek Logistics Center
Feed Mill of Bucheon Korea Federation of Livestock Cooperatives	Daejeon Parcel Delivery Terminal
Copper Foil Plant in Hungary	
<b>Medical &amp; Research Facilities</b>	
Jubail Hospital in Saudi Arabia	Expansion and Remodeling of Changwon Fatima Hospital
Seoul National University Hospital Cutting-Edge Outpatient Treatment Center	New Building of CHA Bundang Medical Center
Yongin Dongbaek Severance Hospital	Chung-Ang University Hospital Annex
Gwangmyeong Medical Complex Cluster	Samchully Technology Research Institute
Korea University Guro Hospital	Hallym University Comprehensive Research Center
Mediplex Sejong Hospital	Doosan Infracore Global R&D Center
<b>Public Buildings</b>	
Police Headquarter Building	KORAIL New Headquarters Building
Suwon Supreme Prosecutor's Office	Air Force Hall
National Assembly Library	Western Branch of Daegu District Court
National Assembly Building	ICN Short-term Parking Lot (Traffic Center 2)
National Assembly Memorial Hall	ICN Long-term Parking Lot
<b>Educational Facilities</b>	
Chung-Ang University Centennial Memorial Hall and BNE Hall	Korea University Research Building for Construction Automation for a High-Rise Building
Aegineung Square, Korea University College of Science	Elementary Schools and High Schools (Relocation Project of the US Military Base in South Korea)
College of Pharmacy and R&D Center, Chung-Ang University	Multi-purpose Building, Hankuk University of Foreign Studies Global Campus

Project Name	Project Name
<b>Educational Facilities</b>	
Tower Building, Yonsei University College of Engineering	Chung-Ang University Dormitory 2
Korea University SK Future Hall 2	Lecture Hall, Seoil University
Remodeling and Expansion of Chung-Ang University Library	College of Science, Yonsei University
Multi-purpose Gymnasium and Sports Complex, Daejeon University	Pyeongtaek Daycare Center
New Lecture Hall and Life Science Hall, Sungshin Women's University	
<b>Religious Facilities</b>	
Banpo1-dong Catholic Church	Seongbuk-dong Social Welfare Facility
Yonsei Central Baptist Church	Baeron Holy Ground Grace Mary's Prayer School
Heukseok Catholic Church	Junggok-dong Catholic Church
<b>Hotels, Resorts</b>	
Swiss Grand Hotel	Pocheon Ildong Khaan Resort
Egypt El Shams Hotel	Best Western Hotel
Aloft Seoul Gangnam	Ritz-Carlton Hotel
<b>Sports, Leisure, Cultural Facilities</b>	
Anyang Gymnasium	KT Buksuwan Branch
Icheon Bears Park	Korean Culture Theme Park
KORAIL Naksan Training Center	Goyang International Flower Festival Exhibition Hall
Mult-purpose Gymnasium, Hallym University	
<b>Renovation</b>	
Shinyoung Securities Main Building	Jeju Hyatt Hotel
Samyang Corp. Building	Hana Bank Samseong-dong Annex
Daekyo Boramae Center	West Busan Intercity Bus Terminal
Ansan Hospital Center for Mental Health	Doosan Tower Duty Free Shop
<b>Electrical Works</b>	
765 kV Shin Seosan T/L (Sector 2)	154 kV Shin Yangyang-Inje T/L (Sector 1)
765 KV Shin Kori-Bukgyeongnam Intersection T/L (Sector 3)	154 kV Jujin-Dunnae T/L
345 kV Yangyang-Donghae T/L (Sector 1)	154 kV Changnyeong-Chodong T/L
345 kV Bukgyeongnam Intersection T/L (Sector 2)	154 kV Bonghwa Bungi T/L (Sector 2)
345 kV Seonsan-Shin Pohang T/L (Sector 2)	Myanmar T/L
Electrical Authority of Cambodia T/L	
<b>Railway construction</b>	
Yongsan-Sanggung Electrified Rail Line Construction Project for the Double Track Seohaean Line	
<b>Military Facilities &amp; Others</b>	
913-1-B Project Facility (15-2032)	14-Pyeongtaek Military Service Support Facility
Relocation Project of ROK Special Warfare Command and 3rd Airborne Special Forces Brigade	913-1-D Project Facility (37-1204)
14-A Zone Facility	Parking Complex of Sangam-dong DMC
2nd Phase of Northwest Islands Fortification Project	

# 03

## INFRASTRUCTURE

Doosan E&C has been changing the landscape of Korea through grand projects in a pursuit of building infrastructures that are both safe and convenient for all. And now we are expanding into the environment and energy sectors, creating a map of the future to come.

### Shinbundang Subway Line

It is Korea's first Public Private Partnership (PPP) subway line project, and was a landmark project for Doosan E&C's infrastructure business where we carried out the entire project, ranging from route planning to construction and operation.

# Better connected to the world



# 03.

## INFRASTRUCTURE

# Better connect beyond boundaries

Doosan E&C has been changing the landscape of Korea through grand projects in a pursuit of building infrastructures that are both safe and convenient for all. And now we are expanding into the environment and energy sectors, creating a map of the future to come.

### Shinbundang Subway Line

It is Korea's first Public Private Partnership (PPP) subway line project, and was a landmark project for Doosan E&C's infrastructure business where we carried out the entire project, ranging from route planning to construction and operations.



# Towards new horizons

We are creating a map of the future based on a proven track record and cutting-edge technologies.



## Shinbundang Subway Line

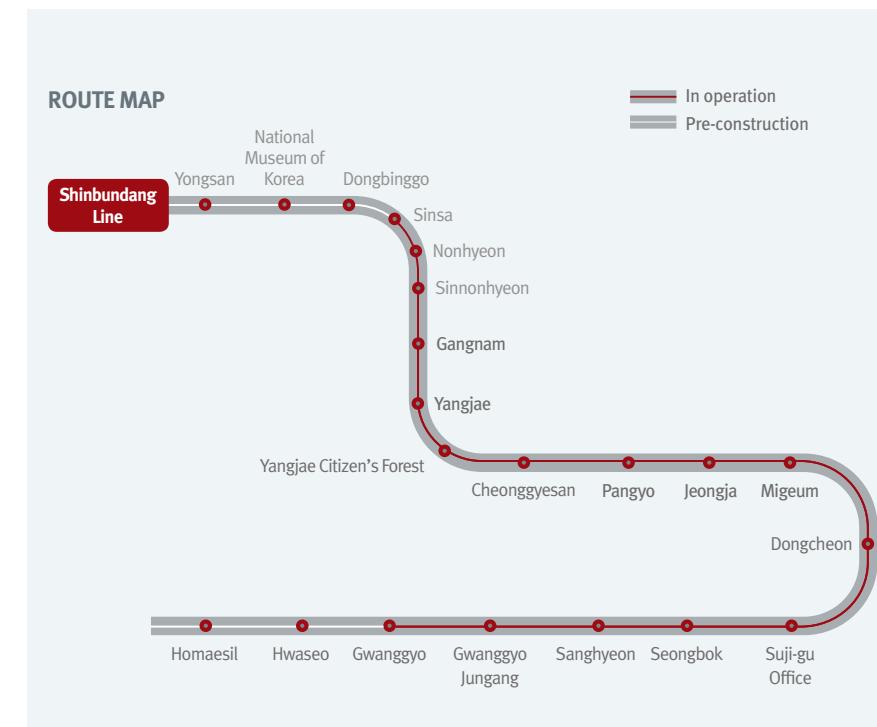
(Phase 1: Jul. 2005-Dec. 2011 / Phase 2: Feb. 2011-Jun. 2016 / Phase 3-1: Aug. 2016-May 2022)

### Construction Outline

- Phase 1 section (Gangnam-Jeongja / 18.5 km, 6 stops)
- Phase 2 section (Jeongja-Gwanggyo / 12.8 km, 1 main subway station, 7 stops)
- Phase 3-1 section (Sinsa-Gangnam / 2.5 km, 3 stops)
- Phase 3-2 section (Yongsan-Sinsa / 5.3 km, 3 stops) – scheduled to start construction in 2026

### Features

- Korea's first Public Private Partnership (PPP) subway line where Doosan E&C carried out the entire project, ranging from route planning to construction and operations
- With a total length of 50 km, the Shinbundang Line is run unmanned. In addition to the Sinsa-Gwanggyo section, the Yongsan-Sinsa section (5.3 km) and Gwanggyo-Homaesil section (11.1 km) projects are in progress.
- Main subway station in Gwanggyo (total floor area of 43,636 m<sup>2</sup>, building area of 27,245 m<sup>2</sup>) – Received the Bronze Prize at the "This Year's Infrastructure" in 2016



## KEY PROJECTS

### Railways, Subways, Tunnels



1



3



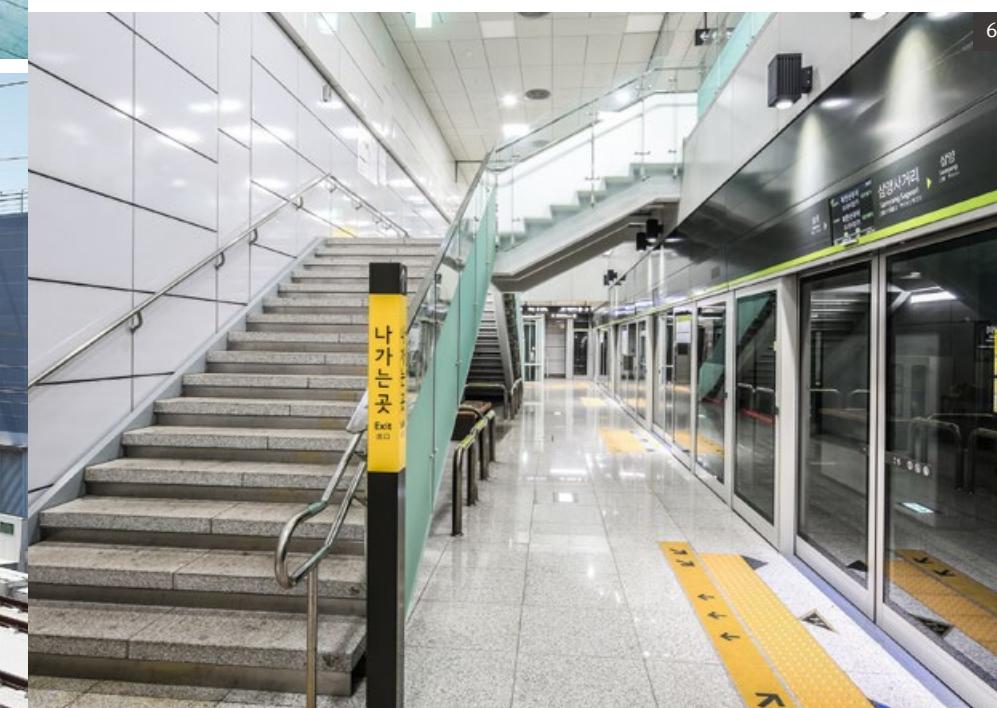
4



5



2



6

**Gyeongbu High-speed Railway Sector 1-1**  
(Apr. 1996-Mar. 2004)

- Total length of 7,705 km (2.8 km by Doosan E&C)
- Origination of Gyeongbu High-speed Railway

1

**Honam High-speed Railway Sector 1-3**  
(Nov. 2009-Aug. 2014)

- Total length of 12.1 km (6.1 km by Doosan E&C)

**Gyeongbu High-speed Railway Sector 11-1**  
(Jun. 2002-Oct. 2007)

- Total length of 9.3 km (8.0 km by Doosan E&C)

3

**Seoul Metro Line 9 Sector 909**  
(Jul. 2003-Aug. 2009)

- Total length of 2.66 km, 1,807 km-long shield tunnel, 2 stops
- Large diameter shield method applied  
(length: 76 m, diameter: 7.8 m, weight: 780 tons)

4

**Jungang Line Wonju-Jecheon Double Track Railway, Sector 1**  
(Jul. 2011-Dec. 2020)

- Length 7.27 km, 5 bridges (3.0 km), 3 tunnels (2.6 km), earthwork 1.6 km

5

**Ui-Sinseol Urban Railway Sector 2**  
(Sep. 2009-Jul. 2017)

- Length 3.2 km, excavation 2.0 km, tunnel 0.9 km, 4 stops
- First underground light rail transit in Seoul

## Roads, Expressways



**3**  
**Busan New Port Expressway II Sector 3**  
(Jul. 2012-Jan. 2017)

- Length 4.74 km, 2 lanes, 9 bridges, 2 tunnels

**4**  
**Suwon-Gwangmyeong Expressway Sector 5**  
(Apr. 2011-Apr. 2016)

- Length 4.03 km, 2 entry facilities (Mokgam/Gahak JCT), 18 bridges, 1 office

**5**  
**Seoul-Munsan Expressway Sector 2**  
(Nov. 2015–Nov. 2020)

- Length 2.7 km, 6 lanes, Goyang JCT, 22 bridges

**6**  
**Sangju-Yeongcheon Expressway Sector 9**  
(Jun. 2012-Jun. 2017)

- Length 9.3 km, 4 lanes, 4 long span bridges, 9 small bridges, East Yeongcheon Interchange, 2 rest areas
- Longest private investment expressway in Korea

**1**  
**Gangnam Beltway Sector 5**  
(Nov. 2007-May 2014)

- Length 5.1 km, 6 lanes, 1 tunnel, 1 office
- Ultra-large-scale private investment project

**2**  
**Seorak-Cheongpyeong Road**  
(May 2011-Feb. 2019)

- Length 3.9 km, 2 lanes, 4 bridges, 1 tunnel
- Including a special bridge (extradosed bridge) that crosses the Bukhan River

## Bridges, Environment & Energy



**1**  
**Dongdaegu Station Elevated Bridge**  
(Aug. 2011-Oct. 2017)

- Length 565 m, elevated bridge 338 m, access road 227 m
- Received the Gold Prize at the 21st This Year's Architecture

**2**  
**Wando-Sinjido Landing Bridge**  
(Oct. 1997-Dec. 2005)

- Length 2.36 km, landing bridge 840 m, approach bridge 180 m, access road 1.34 km
- Large-scale marine long span bridge

**3**  
**Saving the Nakdong River Sector 32**  
(Oct. 2009-Oct. 2012)

- Stream improvement 8.03 km
  - Nakdan Weir (multifunctional weir): Movable weir (142 m), fixed weir (144 m), hydropower (1,500 kW X 2 units)
  - River course improvement: Dredged sediment 16.17 million m<sup>3</sup>
  - Bridge protection work: Nakdan Bridge (P2-P9, 8EA), Nakdan-daegyo Bridge (P4-P9, 6EA)

**4**  
**Goyang Wonneung Sewage Treatment Plant**  
(Dec. 2005-May 2008)

- Capacity 80,000 tons/day, membrane bioreactor, management facility and hydraulic pump building, interceptor 1.2 km

**5**  
**Fincheon Fuel Cell Power Plant**  
(Dec. 2018-May 2021)

- Fuel cell 39.6 MW (440 kW X 90 units)

## MAJOR PROJECT ACHIEVEMENTS

Project Name	Project Name
<b>Railways, High-speed Railways</b>	
Gyeongbu High-speed Railway (Sector 1-1)	Suseo Pyeongtaek High-speed Railway (Sector 2)
Gyeongbu High-speed Railway (Sector 7-1)	Wonju Gangneung High-speed Railway (Sector 5)
Gyeongbu High-speed Railway (Sector 11-1)	Rail Relocation of Taebaek Line between Cheongnyeongpo and Yeongwol
Gyeongbu High-speed Railway (Sector 14-1)	Rail Relocation of Suin Line between Namdong and Songdo
Gyeongbu High-speed Railway (Sector 10-5)	Daejeon Marshaling Yard Improvement Project
Gyeongbu High-speed Railway (Sector 11-4)	Northern Daejeon Connecting Line
Honam High-speed Railway (Sector 1-3)	Wonju Jecheon Double Track Railway, Jungang Line (Sector 1)
Honam High-speed Railway (Sector 1-4)	Suwon Cheonan Quadruple Track Railway, Gyeongbu Line (Sector 2)
Honam High-speed Railway (Sector 4-4)	
<b>Subways</b>	
Phase 2, Busan Metro Line 2 (Sector 230)	Gwangju Metro (Sector 1)
Seoul Metro Line 9 (Sector 909)	Daejeon Metro Line 1 (Sector 1-2)
Jeongja Gwanggyo Double-track Railway, Extended Shin Bundang Line	Gyeongsan Extension, Daegu Metro Line 2 (Sector 1)
Shin Bundang Subway Line	Hwawon Section of Seopyeon Extension, Daegu Metro Line 1 (Sector 1)
Ui-Sinseol Urban Railway Sector 2 (Light Rail Transit)	Gyeongsan Extension, Daegu Metro Line 2 (Sector 1)
Seoul Metro Line 2 (Sector 6-22)	Wangsimni Seolleung Double-track Railway, Bundang Line (Sector 4)
Seoul Metro Line 3 (Sector 332)	Wangsimni Seolleung Double-track Railway, Bundang Line (Sector 5)
Seoul Metro Line 4 (Sector 408)	Addition of Namyangju Stop, Jeongja Gwanggyo Extended Double-track Railway, Shin Bundang Line
Seoul Metro Line 5 (Sector 16)	Magok Station, Incheon Airport Railway
Phase 1, Busan Metro Line 2 (Sector 206)	Incheon Metro Line 2 (Sector 208)
Bundang Wangsimni Double-track Railway, Bundang Line (Sector 5)	Sangil Geomdansan Double-track Railway, Hanam Line (Sector 2)
Busan Metro Line 3 (Sector 307)	Pangyo Integrated Station, Shin Bundang Line
<b>Roads</b>	
Entry Road of Peace Dam Construction Project	Asan-si National Bypass (Baebang-Tangjeong)
Daejeon Cheonbyeon Urban Highway	Waegwan Gasan Road (Sector 2)
Geongin Expressway Straightening Project (Sector 1)	Seorak-Cheongpyeong Road
Seoul Munsan Expressway	Pyeongchang Jeongseon Road (Sector 3)
Suwon-Gwangmyeong Expressway (Sector 5)	Road Extension between Haksan and Yeongdong
Seosuwon Uiwang Expressway	Road Extension between Okcheon and Godang
Gangnam Beltway (Sector 5)	Road Extension between Sangmo and Suanbo
Road Improvement and Pavement of Yeongwol Bypass	Road Extension between Iri and Ganggyeong
Busan 2nd Urban Expressway (Sector 5)	Road Extension between Sogye and Bukmyeon
Bundang Naegok Urban Expressway (Sector 3)	Road Extension between Yeonpung and Suanbo
Gunsan-side Entry Road of Gunjang Industrial Complex (Sector 1)	Road Extension between Muju and Haksan
Gunsan-side Entry Road of Gunjang Industrial Complex (Sector 2)	Road Extension between Yeongwol and Deokpo
Daeya Gongdeok Road	Road Extension between Seongdeok and Daeya
Entry Road and Exit of Nameul Station	Road Extension between Bongpyeong and Naemyeon
Section 3, Gwangju 2nd Ring Road (Sector 1)	Damyang-Bukha National Support Suburban District Pavement and Extension
Bukmyeon Wondeok Road	Road Extension between Bongpyeong and Naemyeon (Boraeryeong)
Busan New Port, the Second Road Behind (Sector 3)	Underground Western Arterial Road (Private Investment) Construction
<b>Expressways</b>	
Connecting Road of Incheon Bridge (Sector 5)	Seohaean Expressway (Sector 17)
National Express Way No. 600 Line Busan Outskirts Ring Expressway (Sector 7)	Seohaean Expressway (Sector 4)
Sangju-Yeongcheon Expressway (Sector 9)	Seohaean Expressway Gunsan I/C
Incheon Gimpo Expressway (Sector 1-1)	Road Extension of Yeongdong Expressway to 4 Lines (Sector 9-1)
Daejeon Tongyeong Expressway (Sector 4)	Road Extension of Yeongdong Expressway to 4 Lines (Sector 9)

Project Name	Project Name
<b>Expressways</b>	
Road Extension of Gyeongbu Expressway (Busan-Eonyang) (Sector 2)	Road Extension of Yeongdong Expressway (Hobeop-Ganam) (Sector 2)
National Express Way No. 12 Line between Damyang and Seongsan (Sector 7)	2nd Geongin Expressway (Sector 1)
National Express Way No. 27 Line between Jeonju and Gwangyang (Sector 2)	2nd Geongin Expressway (Sector 2)
National Express Way No. 65 Line between Jeonju and Gwangyang (Sector 7)	Jungbu Expressway (Sector 3)
Road Extension of Namhae Expressway to 8 Lines (Sector 3)	Road Extension of Jungbu Expressway (Sector 3)
Road Extension of Namhae Expressway to 8 Lines (Sector 4)	Jungbu Naeryuk Expressway (Sector 6)
Daejeon Tongyeong Expressway (Sector 3)	Jungbu Naeryuk Expressway (Sector 7)
Road Extension of Donghae Expressway (Sector 7)	Jungang Expressway (Sector 7)
Seoul Ring Expressway (Sector 10)	Road Extension of National Express Way No. 12 between Damyang and Seongsan (Sector 7)
Seoul Ring Expressway (Sector 14)	National Express Way No. 65 between Ulan and Pohang (Sector 7)
Seoul Ring Expressway (Sector 6)	National Express Way No. 27 between Jeonju and Gwangyang (Sector 2)
Seoul Ring Expressway (Sector 8)	
<b>Bridges, Tunnels</b>	
Banghwa Bridge	Dongdaegu Station Elevated Bridge
Wando-Sinjido Landing Bridge	Miho River 1st Bridge, Multifunctional Administrative City
Dong-gang Grand Bridge	Wando Bridge
West-side Entry Bridge of Gyeongnam Innovation City	Gumho River Bridge between Jicheon and Daegu, Gyeongbu Line
Ihwareyong Tunnel	Gugu Tunnel and Entry Road
Umyeonsan Tunnel	Misiryeong Tunnel
<b>Port, Reclamation</b>	
Chodo Fishing Port West Breakwater Construction (Fish Farming Facility)	Masan Port Public Waters Reclamation, Guhang (Sector 1, 2, 3, 4)
Port Quay and Yard Construction of Wharf No. 5, Masan Port (Section 3)	Relocation and Public Waters Reclamation of Jangnim Reservoir
Scenic Waterway Revetment in Busan North Port Redevelopment Project (No. 1-1)	Nampo Port Construction
Reconstruction of North Wharf of Donghae Port (Phase I)	17-Hae-Jangbogo-III Facility (3039)
Masan Port Public Waters Reclamation, Seohang (Sector 1, 2, 3)	
<b>Golf Courses</b>	
Baran C.C	IPO C.C
CLUB 700	Chuncheon Ladena C.C
Jisan C.C	
<b>Water Supply, Sewerage, Water Resources</b>	
Saving the Nakdong River Sector 32 (Gumi, Sangju, Uiseong)	Jangheung Sewer System and Sewage Treatment Plant
Ecological Waters Creation at Happiness Zone, Saving the Geum River	Masan Sewer System Maintenance
Agricultural Reservoir Embankment Extension (Sector 4)	Cheongju-si Sewer System Maintenance
Special Equipment Installation and Close-to-Nature River Creation in Byeolnae District, Namyangju (Sector 2)	Water Intake & Supply System Construction, Sectors 3 & 4, for Daecheong Dam Wide-area Waterworks System (III)
Optimized Management System Establishment Project for the Water Supply and Sewerage System (Yeongwol-gun, Jeongseon-gun)	
<b>Environment &amp; Energy</b>	
Incheon Fuel Cell Power Plant	Gumi High-Tech Valley Wastewater Treatment Plant (Phase 1)
Bitgoel Eco Fuel Cell Power Plant	Jangseong-gun/Damyang-gun Domestic Waste Incineration Plant
OB Ichon Cogeneration Power Plant	Doosan Motrol Soil Remediation
Pyeongtaek Thermal Power Plant SCR Plant (No. 1-4)	Namyangju Jingeon Sewage Treatment Plant
Yeongheung Thermal Power Plant Fly Ash Treatment Plant (No. 3, 4) Goyang	Goyang Wonneung Sewage Treatment Plant
Yeongjong Haneul City Auto Clean Net Project	Pyeongtaek Sosabeol Water Quality Restoration Plant
<b>Housing Land Development, Others</b>	
Daeduck Innopolis Development Phase 1	Pyeongtaek Sosabeol District Housing Land Development (Sector 2)
Phase 1-1 of International Industrial Logistics City in Busan New Port Rear (Sector 1)	Underground Public Pedestrian Facility of Seongnam Pangyo Mixed-use Development PF

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## About This Brochure

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