



Beyond engineering for a better tomorrow

Dohwa pursues
the happiness
of its members
based on
advanced technology
and challenges to be
the world's best.

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History of DOHWA

Since its establishment in 1957, DOHWA Engineering Co., LTD. (Dohwa) has grown alongside the history of Korea’s National Development Plan. Having accumulated experience and expertise in civil engineering, we are taking every step to become the best comprehensive engineering company that leads the global market, standing shoulder to shoulder with our global peers.

1957 - 1979

- 1957

• Established ‘Dohwa Design Office’
- 1962

• Company name changed to ‘Dohwa Consulting Engineers Co., LTD.’
- 1965

• Received the ‘Prime Minister’s Commendation’ for contribution to the development of construction industry and improvement of technology
- Established a branch office in Teheran, Iran
- 1975

• Appointed by the Ministry of Science and Technology as the ‘Promotion Institution for international expansion’
- 1976

• Registered with the IBRD (International Bank for Reconstruction and Development)
- Registered with the ADB (Asian Development Bank)

1980 - 1999

- 1981

• Company name changed to ‘Dohwa General Technology Corporation’
- 1985

• Registered with AfDB (African Development Bank)
- 1987

• Received the ‘Presidential Medal of Industrial Merit (Bronze Tower)’ for contribution to the development of the construction industry
- 1997

• Obtained the ISO 18001 Certification : SGS YARSLEY INTERNATIONAL CERTIFICATION SERVICES LTD. In the sector of water and sewage, construction, electrical machines and instruments, environment, water resources, soil quality, and road
- 1998

• Received the ‘Letter of Appreciation from the President’ for contribution to the development of the national industry through the regional water supply system project
- Received the ‘President’s Medal of Honor’ for contributing to the development of the national industry through the construction of the Daegu subway

2000 - 2009

- 2001

• Received the ‘Award for excellence in service’ by the Minister of Construction and Transport
- 2003

• Obtained the ISO 9001 certification (CRK-Q1-255)
- Appointed as ‘Excellent construction company with low accident rate in 2002’ by the Ministry of Labor
- Won CM (Construction Management) contract of ‘The Incheon International Airport Project (Phase 2)’, a first milestone for Korean Engineering Company
- 2004

• Obtained the ISO 14001 certification (CRK-E1-067)
- “Gunjang New Port Breakwater Project” won the Silver Medal for ‘Civil Engineering Structure of the Year’ by the Korean Society of Civil Engineers
- 2005

• Received the ‘Letter of Appreciation from the President’ for the contribution to the development of the national industry and the promotion of the construction industry
- Received the ‘Letter of Appreciation from the President’ for contribution to the development of the national industry through the development of road construction technology
- Received the ‘Presidential Medal (Hongjo Geunjeong Hunjang)’
- 2007

• Received the ‘Letter of Recognition from the President’ for the contribution to the development of the national industry through the construction of multi-regional water sanitation
- Received the ‘Letter of Appreciation from the President’ for contribution to the development of the national industry through the invention of new construction technology

since 1957

2010 - 2023

- 2010

• Received an award at the Busan International Architecture Festival: Gadeokdo’s work
- Listed in KOSPI, Korea Composite Stock Price Index
- Received the ‘Presidential Medal’ as a leading company in job creation
- 2011

• Company name changed to ‘Dohwa Engineering Co., LTD.’
- 2013

• Received the silver medal for ‘Civil Engineering Structure of the Year’ from the Korean Society of Civil Engineers: Daedong Hwamyung Bridge
- 2014

• Received the ‘MOT Letter of Appreciation’ for the detailed design and supervision of the GMS Vietnam South Coastal Corridor project
- Received the ‘Civil Engineering Grand Prize’ from the Korean Society of Engineers for contribution to the development of construction technology
- Declared ‘NEW VISION 2020’
- 2015

• Obtained OHSAS (Occupational Health and Safety Assessment System)
- 2016

• Awarded “Presidential Golden Merit of Industry” in recognition of contribution to national development through construction technology
- 2017

• Designated as ‘World Class 300’
- 2018

• Won the GTX-A PPP Contract as a JV member of the FI (Financial Investor)-led consortium.
- Unprecedented award for a Korean Engineering Firm
- Awarded the "Presidential Gold Tower Order of Industrial Service Merit" for Contribution to the development of the national industry through the promotion of the engineering industry
- 2019

• First company in Korea to sign a PMO (Project Management Office) contract, New Chinchero International Airport construction in Peru
- ‘Best Practice of International Construction’: Feasibility Study of the Sea Bridge between Shanna & Masirah, Oman
- 2020

• Received ‘Gold Tower Order’ for contribution to the development of overseas construction and plant industry
- 2021

• Declared ‘VISION 2030’
- 2022

• Renewal of 2022 DOHWA Corporate Identity
- Certification of ISO 37001 on Anti Corruption
- 2023

• Received a “Presidential Citation” for contributing to the development of the national industry through the promotion of the engineering industry
- Subscribed to PRI(Political Risk Insurance) Guarantee of MIGA (Multilateral Investment Guarantee Agency)

CEO Message

Greetings.

I am Seung-Woo Park, the Chairman of DOHWA Engineering Co., Ltd.

DOHWA was founded in 1957 as the First Civil Engineering Company in South Korea. For the last 16 years, our company has been ranked first in the civil engineering consultancy sector with 'Humanity', 'Harmony' and 'Creativity' as core values.

DOHWA, through ceaseless innovation and overcoming its diverse challenges, came to play a pivotal role in the development of Korea's Civil & Construction Engineering Industries, and has played a key role in developing the South Korean Economy from a barren land into a global economic leader.

Based on accumulated expertise and proven track records, we have entered the overseas market since the mid-1970's, and are promoting Korea's unique technological prowess to the world ever since. We are now in preparation to take a step ahead of the rapidly-changing future by building systems and infrastructures suitable for the Fourth Industrial Revolution.

Throughout the years, DOHWA has been delivering engineering-based EPC (design, procurement, construction) projects in order to minimize risks, and expand business areas to the entire construction cycle, including FEED (Preliminary and Conceptual design), PMC (Project Management Consultant), and O&M (Operation and Maintenance) services. Thus, our company has been endeavoring to grow into a world's leading engineering company beyond the domestic market.

Lastly, DOHWA is a company that fulfills its social responsibilities to shareholders, stakeholders, and local communities through ethical management, and will continue to pursue safe and proven technologies for the benefit of our nature and people. We will always undertake assignments based on unrelenting passion and trust by meeting the expectation of our Clients, and the global society with unparalleled performances.

Thank You.

Park, Seung Woo

Chief Executive Officer, Chairman
DOHWA Engineering Co., LTD

박승우

Leading the Future of the Global E&C with
Technology for People and Nature



Management Philosophy

Mission

We value people and nature

"Create a future for a safe and happy life"

Dohwa, setting the new standard in engineering.

From Korea's first to the world's best,

a global company aiming to design the future that humankind dreams of.

Kwak, Jun Sang

Chief Executive Officer, Vice Chairman
Dohwa Engineering Co., LTD.

광준상

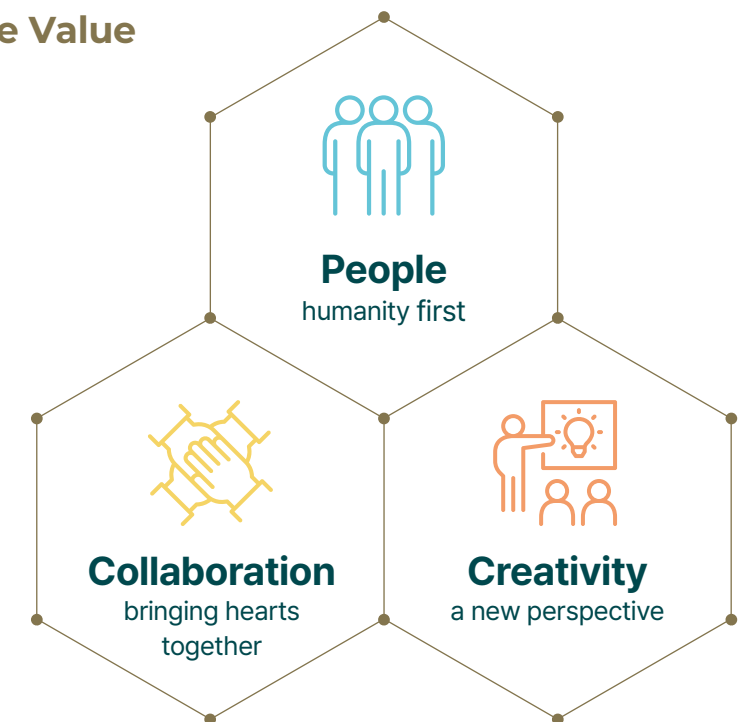


Vision 2030

Create the Value, Shape the Future 2030 World Top-tier

Dohwa pursues the happiness of its members based on advanced technology and challenges to be the world's best.

Core Value



People

'Human-Centered Design', which puts people first, is the driving force behind Dohwa's ethical business management. Our management philosophy, which places people and nature above anything else, is realized through global human resources development and sustainable technology for the environment.

Collaboration

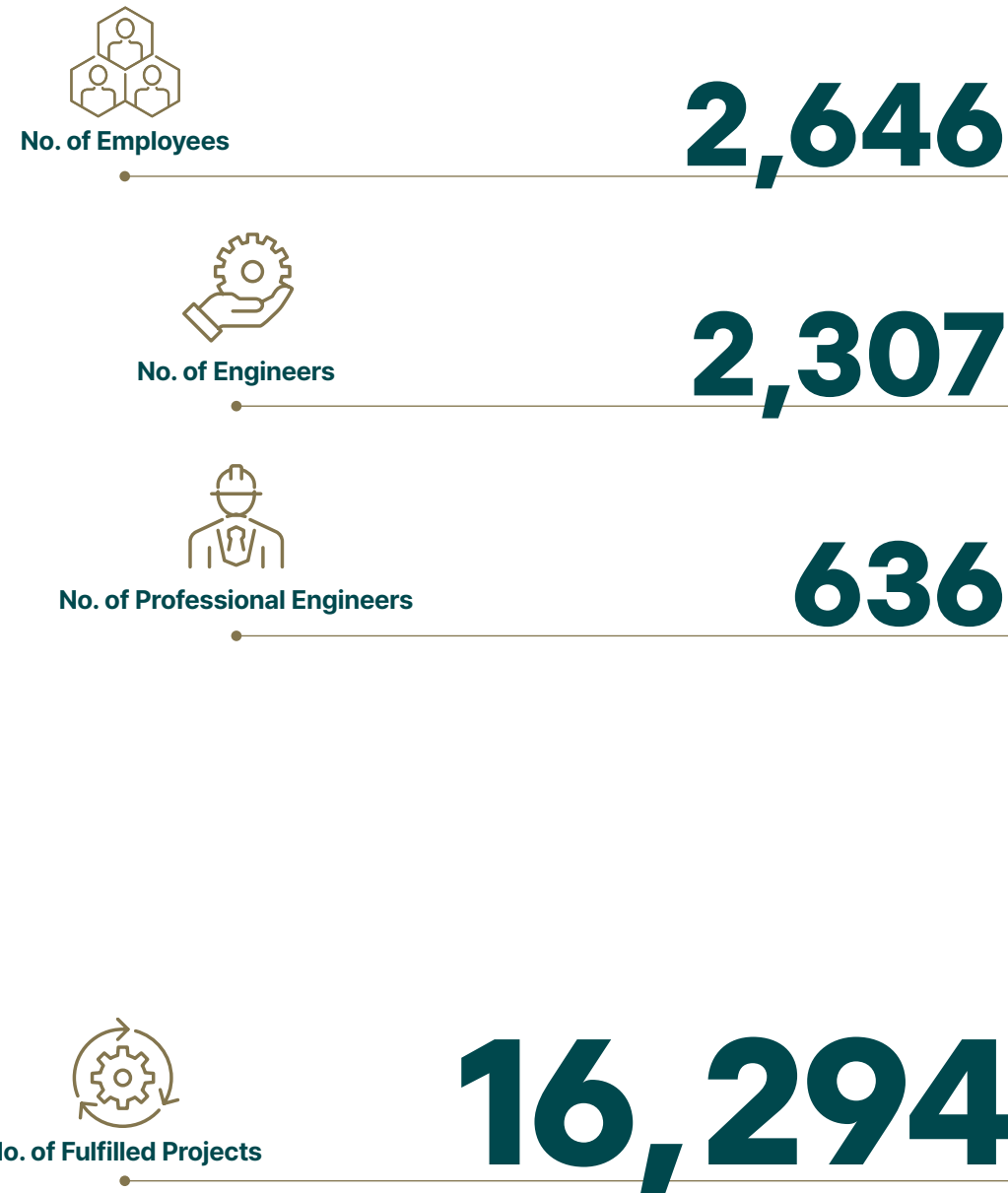
The solidarity built upon trust and consideration has laid the foundation for growth. All of our executives and employees work together to make Dohwa the best in the industry

Creativity

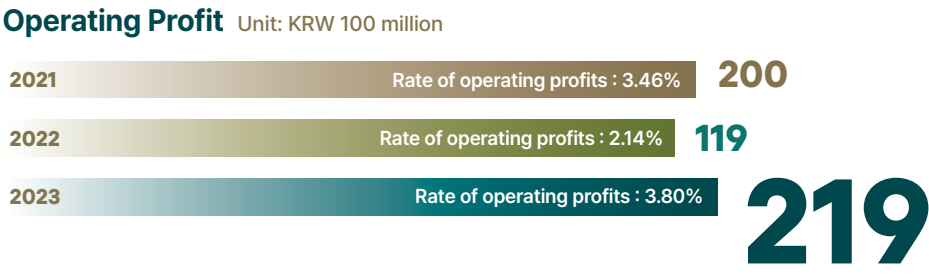
Meaningful and lasting technologies are born from 'creative thinking' that does not settle for the present but sees it from a new perspective. We will leap forward as the leading comprehensive engineering company and pioneer the future with progressive actions and creative thinking.

Company Overview as of 2023-12-31

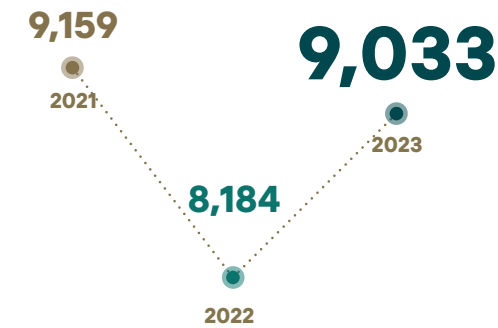
Dohwa is striving to create the best value without settling on previous achievements. We are growing into the world’s best engineering company through global human resource development and investments in new technology development, as well as efficient business operation and constant innovation.



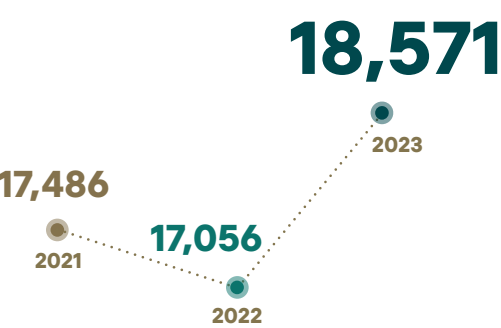
Summary Financial Statements (consolidated)



New Order Unit: KRW 100 million



Order Balance Unit: KRW 100 million



Credit Rating

as of 2023-12-31

AA+

Corporate Credit Rating (NICE D&B)

Global Business

Dohwa operates 36 subsidiaries and branch offices around the world and has successfully completed over 825 global projects. As the No.1 company in terms of the amount of the award from the international projects among Korean companies, it is attributable to the increase in PMC, EPC, CM (Construction Management), O&M business, and the first entry of the PPP (Public-Private-Partnership) and IPP (Independent Power Producer) field in cooperation with leading companies both domestic and overseas countries. We are spurring the expansion of overseas business areas, such as winning the contract for the first intergovernmental project (G2G) PMO business in Korea.



Chosen by global construction magazine ENR

- Ranked 69 out of Top 225 International Design Firms in 2023 (Revenue from the International Projects)
- Ranked 87 out of Top 150 Global Design Firms in 2023 (Revenue from the Domestic and International Projects)



Record of International Projects

Cumulative number of countries

80



Global Presence

26 Countries

AFRICA

- Algeria**
Algiers, Algeria
- Kenya**
Nairobi, Kenya
- Mozambique**
Maputo, Mozambique
- Tanzania**
Dar es Salaam, Tanzania
- Uganda**
Kampala, Uganda

ASIA / MIDDLE EAST / CIS / EUROPE

- | | | |
|--|---|--|
| Bangladesh
Dhaka, Bangladesh | Kazakhstan
Almaty, Kazakhstan | Saudi Arabia
Riyadh, Saudi Arabia |
| Georgia
Tbilisi, Georgia | Kyrgyzstan
Bishkek, Kyrgyzstan | Sri Lanka
Colombo, Sri Lanka |
| India
Noida, India | Pakistan
Islamabad, Pakistan | Ukraine
Kyiv, Ukraine |
| Indonesia
Jakarta, Indonesia | Philippines
Metro Manila, Philippines | Vietnam
Hanoi, Vietnam
Ho Chi Minh, Vietnam
Tỉnh Quảng Bình, Vietnam |
| Japan
Osaka, Japan | Poland
Krakow, Poland | |

AMERICA

- Bolivia**
Santa Cruz, Bolivia
- Colombia**
Bogotá, Colombia
- Dominican Republic**
Santo Domingo, Dominican Republic
- El Salvador**
San Salvador, El Salvador
- Nicaragua**
Managua, Nicaragua
- Peru**
Lima, Peru
- USA**
Los Angeles, California, USA

Record of Projects

(according to the source of funds)

Source of Funds	Accumulated Projects
WB	50
ADB	37
K-Exim	53
KOICA	27
EDCF	18
KIND	9
JICA	4
AFDB	2
AIIB	2
EBRD	4
IDB	1

Key Achievements by Region

AFRICA

- Central Railway line, Tanzania
- Dar es Salaam wastewater Treatment Plant, Tanzania
- Nairobi BRT-5, Kenya
- Bolemi and Kilinto Industrial Park, Ethiopia

SOUTHWEST ASIA/ CIS/MIDDLE EAST

- Consultancy service for Design review and Construction supervision for Dhaka sanitation improvement
- Preparation of Concept design & Implementation plan for bus route rationalization and company based operation of bus service in Dhaka
- Consultancy service for Detailed design, Tender assistance and Project implementation of construction of Nalua-Baherchar Bridge
- Development of project document for the project entitled construction of a railway line on the section Katowice-state border-Ostrava

India/Pakistan

- AIIB Construction Supervision Consultancy for Improvement and Upgradation of Roads in Assam (ASRIP), India
- Consultancy Services for Authority's Engineer for Extradosed Bridge across River Ganga at Phaphamau, India
- Consultancy Services for Authority's Engineer for Extradosed Bridge across River Ganga at Bihar, India
- EDCF Consulting Services for Improvement and Widening of N-45 Road Section III (48km), Pakistan

SOUTHEAST ASIA

- Detailed Engineering Design and Tender Assistance of Panay-Guinaras-Negros Island bridges Project, Philippines
- Hung Ha Bridge Construction Project, Vietnam
- Sewerage System Development in Ta Khmau Town Project, Cambodia
- Asahan Irrigation System Development Project, Indonesia

CENTRAL AMERICA

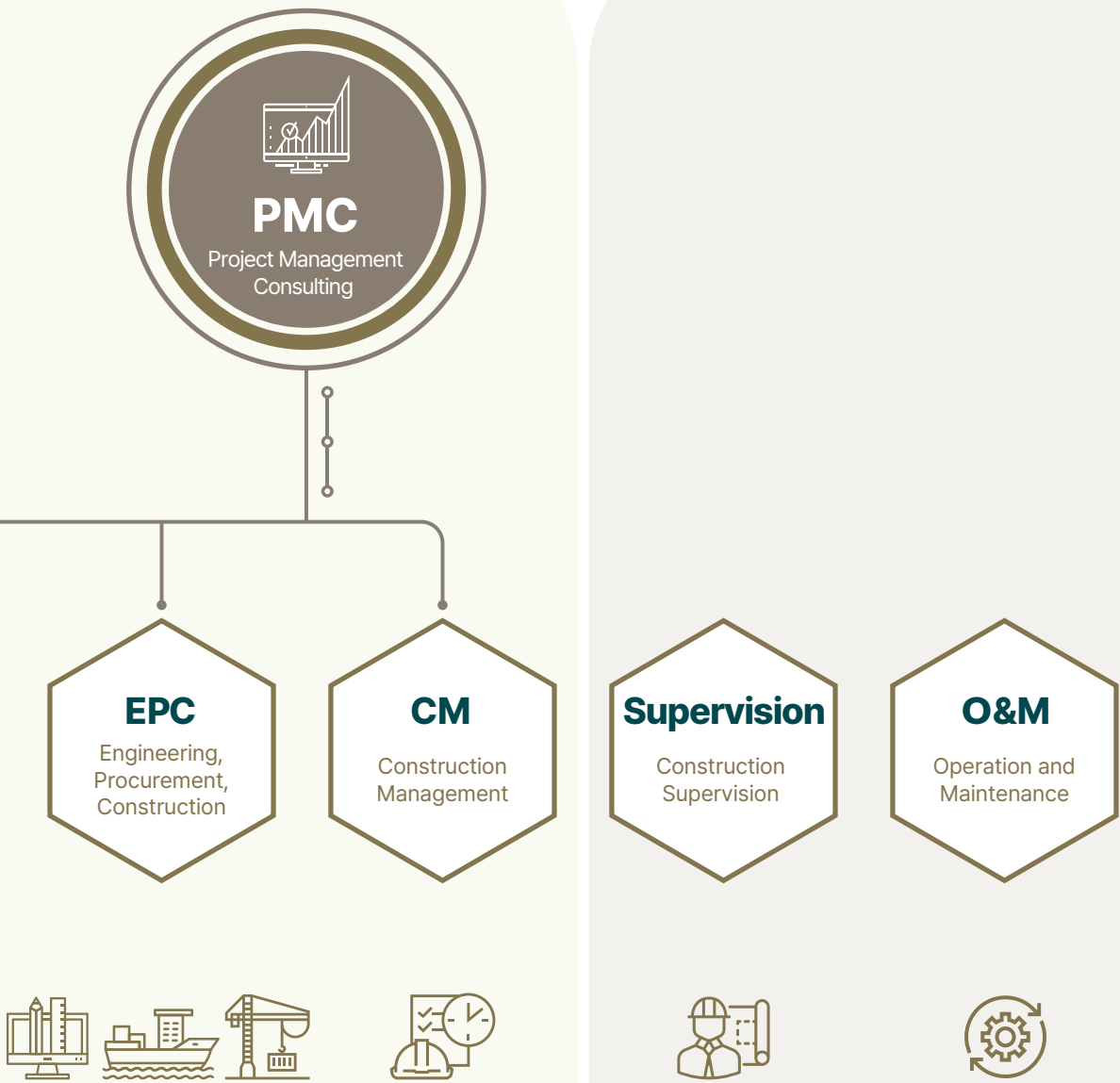
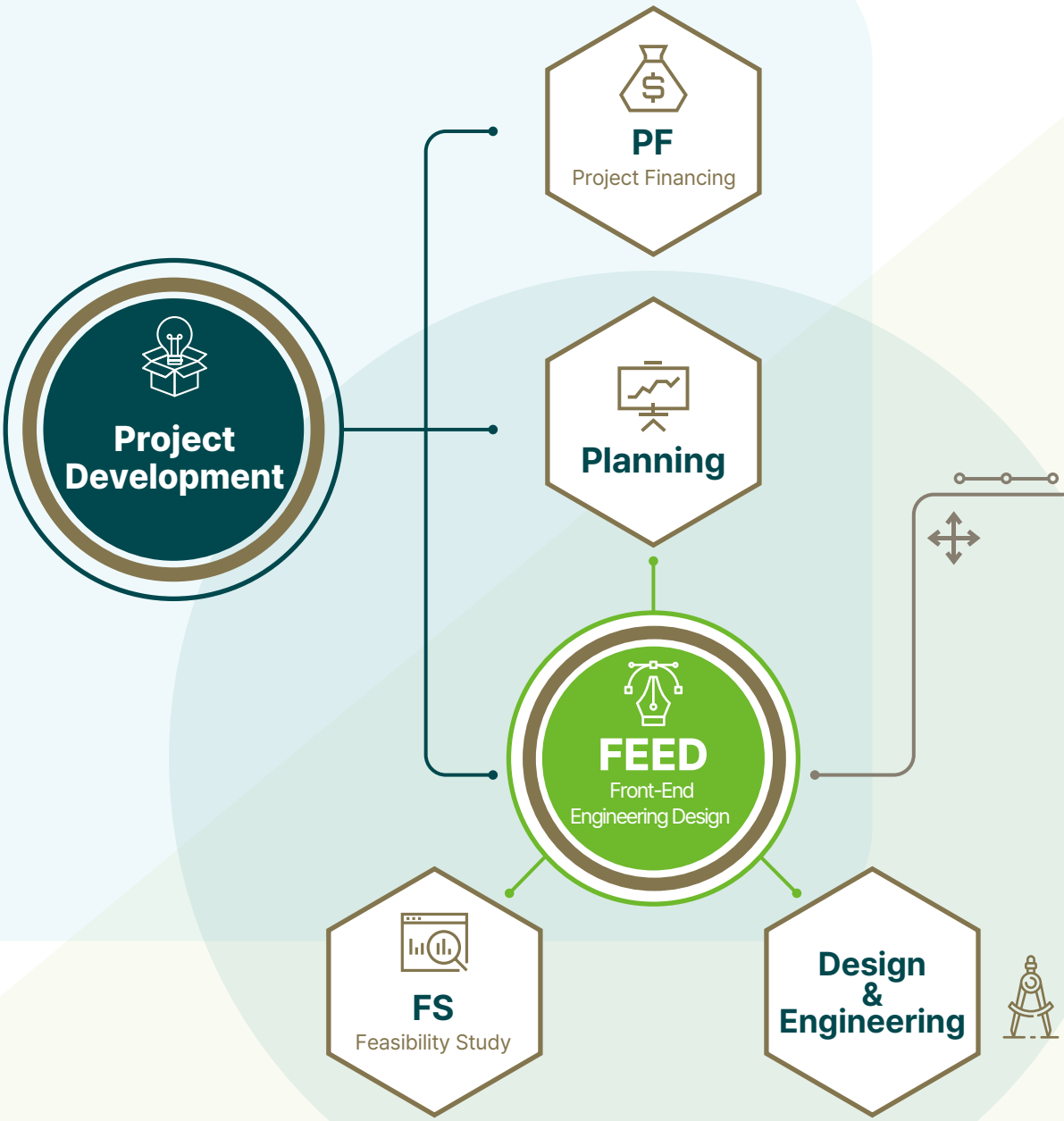
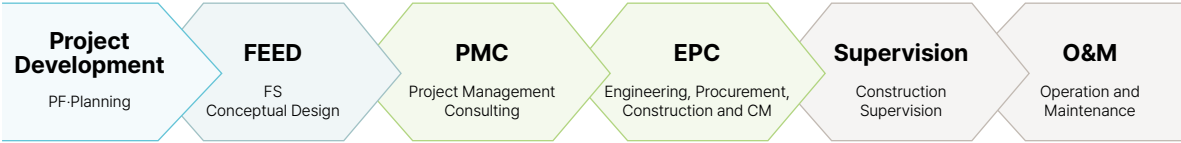
- Los Chorrros Highway Expansion, El Salvador

SOUTH AMERICA

- Montalvo Bridge, Peru
- Pucacruz Road, Peru
- Storm Drainage in Tumbes, Peru
- Sacambaya Bridge, Bolivia

Service Area

Based on high-level technology and accumulated experience, Dohwa offers professional services such as project development and study, planning, feasibility study, PMC, design, analysis, procurement, construction, construction project management, operation and maintenance.



Business Portfolio

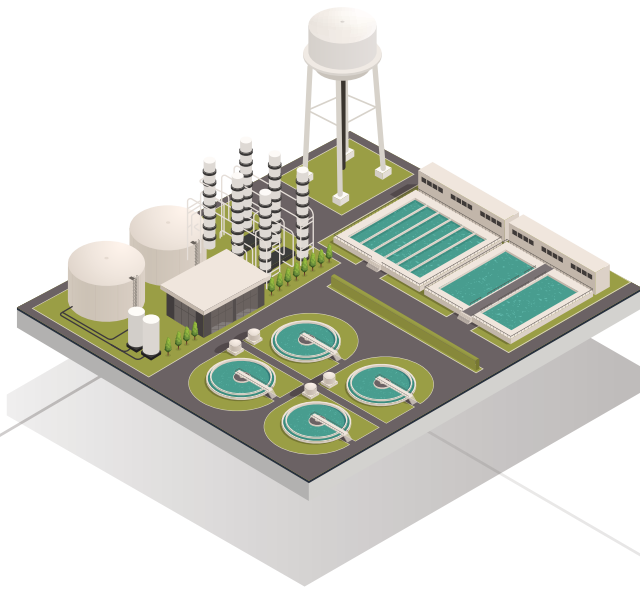
Water: Creating clean and safe water.

Urban: Enhancing the value and dignity of life.

Transportation: Connecting time and space for more convenient travels and movements.

Energy: Developing energy to protect the natural environment.

We create value for a better future in all areas of SOC (Social Overhead Capital)



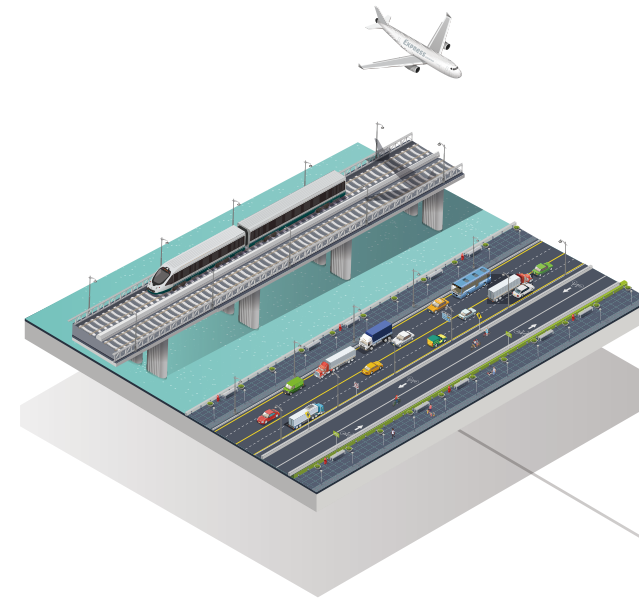
WATER

- Water Supply
- Sewerage
- Architecture



URBAN

- Urban Planning & development
- Landscaping/Leisure
- Smart City



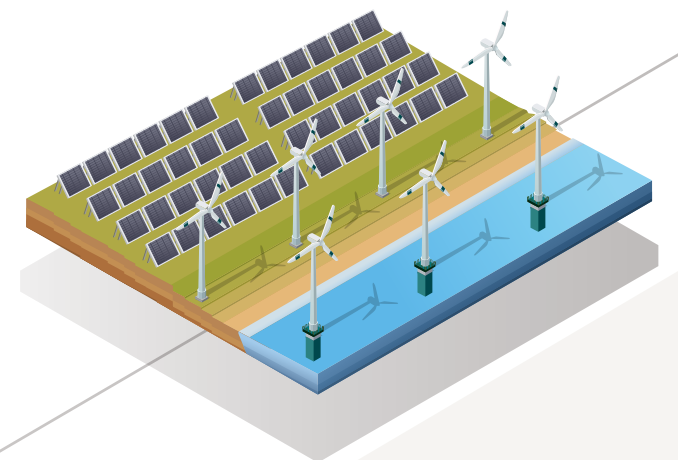
TRANSPORTATION

- Road/Airport/Traffic Planning
- Railway/High-speed Railway
- Urban Railway/Metro



ENERGY

- Solar Power
- Wind Power
- Power Plant/Environment Plant



INFRASTRUCTURE

- Water Resource
(Rivers/Disaster Prevention/Dams/Hydropower)
- Harbor&Coastal/Bridge/Tunnel
- Environmental Assessment

Water

- Water Supply
- Sewerage
- Architecture

WATER





Water Supply

Dohwa is a leading company in the domestic water supply and sewage industry that plans, designs, and supervises national water supply facilities, including regional water supply systems, which are major social infrastructure that responds to rapidly increasing water demand.

We completed the feasibility study and design of regional water supply facilities including Daechong Dam, Jeonju area, Ulsan area, Gwangyang area, etc., development of alternative water resources such as seawater desalination and riverine filtered water, advanced water purification treatment to supply high quality water, modernization of old water supply facilities, ICT, etc. By establishing a real-time monitoring system incorporating technology, we are contributing to improving the water welfare of the people, such as smart pipe network management for stable water supply and water pipe network maintenance to improve water flow rate. We are also successfully carrying out overseas water supply development projects in Nepal, Indonesia, Vietnam, Kyrgyzstan, Sri Lanka, Uzbekistan, Cambodia, Bangladesh, Peru, and Kenya, and are taking the lead in building advanced water supply facilities required by the new era by responding to climate change and integrated water management.



Preliminary and Detailed Designs for the Water Supply System Adjustment Project of Han River Downstream Basin (2nd) 2009. 09 ~ 2011. 12

- Stable water supply by utilizing surplus water in Seoul metropolitan area to resolve the imbalance in water supply and demand between regions
- Location: Pyeongtaek, Hwaseong, Anseong and Osan, Gyeonggi-do
- Project Features: Water purification plant (Q=260,000m³/day)

1

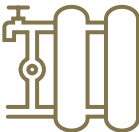
Concentration tank

2

Sedimentation basin

3

Overview of water treatment plant



Key Achievement

PROJECT	COUNTRY	SERVICE
• Improvement of Reliability of Metropolitan Water Supply (Phase 2)	Rep. of Korea	Design
• Chungju Dam Industrial Water Intake/Treatment Plant (Phase 2)	Rep. of Korea	Design
• Daechung Dam Waterworks System Section 3 (Water Intake & Water Conveyance Facility)	Rep. of Korea	Design
• Reconstruction of Yeongdeungpo Water Treatment Plant and Construction of Advanced Water Treatment Facilities in Seoul	Rep. of Korea	Design
• Construction of Advanced Water Treatment Facilities in Samyang 3rd District	Rep. of Korea	Design
• Adjustment of Water Supply System of Han River Downstream (Phase 2)	Rep. of Korea	Design
• Installation of Advanced Water Treatment Facilities of Hanam Water Treatment Plant	Rep. of Korea	Design
• Improvement of Credibility of Metropolitan Water Supply (Lot 1)	Rep. of Korea	Design
• Thien Tan Water Supply Project (Phase 2)	Vietnam	Design
• Kolonna-Balangoda, Badalkumbura Water Supply Project	Sri Lanka	FS
• Issyk-Kul Water Supply Project	Kyrgyz Republic	Design/Supervision
• Namangan Water Supply Project	Uzbekistan	Design/Supervision
• Kathmandu Valley Water Supply Improvement Project	Nepal	Design/Supervision
• Karian Serpong Raw Water Pipeline Main and Water Treatment Plant Project	Indonesia	Design
• Adjustment of Water Supply System of Yeongsan River Area (Phase 2)	Rep. of Korea	Design
• Construction of Industrial Water Intake/Treatment Plant in Water Industry Cluster in Daegu City	Rep. of Korea	Design
• Water Supply Project of Gyeongnam Province - Busan Metropolitan Area (Intake/Conveyance Facilities)	Rep. of Korea	FS
• Technical Diagnosis for Modification of Water Supply Maintenance Plan and Water Treatment Plant in Busan City	Rep. of Korea	MP
• Daechung Dam WaterWorks: Cheonan Advanced Water Treatment Facilities Project	Rep. of Korea	Design
• Construction of 2050 High-Tech Smart Myeongjiang Water Treatment Plant in Busan City	Rep. of Korea	MP
• Installation of Advanced Water Treatment Facilities in Wolpyeong Water Treatment Plant in Daejeon City (Phase 1)	Rep. of Korea	Design
• Adjustment of Water Supply System of Han River Downstream (Phase 3)	Rep. of Korea	Design
• Construction of Advanced Water Treatment Facilities in Gongchon Water Treatment Plant in Incheon City	Rep. of Korea	Design
• Implementation of Reuse Facilities for Granular Activated Carbon in Han River Area	Rep. of Korea	Design
• Establishment of Basic Plan for Smart Water Networks Maintenance	Rep. of Korea	MP
• Establishment of Asset Management System of Wagter Supply Facilities in Jeju Island	Rep. of Korea	Design
• Installation of Water Heat Energy Supply Facilities in Jangheung District	Rep. of Korea	Design
• Water Saving Project in Military Bases (WASCO)	Rep. of Korea	EPC
• Feasibility Study and Basic Plan Establishment for the Construction of Nakdong River Basin Safe Drinking Water Supply System Project (Downstream)	Rep. of Korea	FS
• Basic and detailed design service for Yeosu City local water supply modernization project	Rep. of Korea	Design



Sewerage

As a leading company representing the domestic sewerage sector, we have established a wide range of plans for maintenance of Korea's sewerage facilities, from special/metropolitan cities and cities/counties to catchment areas.

We are making efforts to meet the technical and regulatory requirements in the design of sewage treatment facilities and pipelines, including the establishment, expansion, modernization, reuse of treated sewage, maintenance of leased sewage pipes, and precise inspection of aging sewage pipes. We also provide the optimal total solution for the entire sewage system, including sewage facility asset management and urban flood prevention.

We are making efforts to realize a sustainable, resource-circulating society for water quality and environmental conservation both domestically and internationally. We have expanded to countries such as Bangladesh, Nepal, Cambodia, Uzbekistan, Tanzania, Nicaragua, and Peru, Ecuador, Indonesia, Ethiopia, Vietnam, Kyrgyzstan and are contributing to improving the living environment of local residents and preserving the water quality of their water effluent sites.



- Ansan Public Sewage Treatment Facility Management** 2001.12 ~ 2004.02
- Public sewage treatment facility operation and management.
 - Preventing water pollution in public waters caused by urban and industrial sewerage.
 - Location: Ansan area, Gyeonggi-do
 - Project Features: Ansan Wastewater Treatment Plant (Q=534,000m³/day) and Daebu Wastewater Treatment Plant (Q=3,000m³/day)

Key Achievement

PROJECT	COUNTRY	SERVICE
• Wastewater Treatment Plant Construction Project (1st Phase) in Gunsan 2 National Industrial Complex	Rep. of Korea	Design
• Wastewater Treatment Plant Construction Project (1st Phase) in Gumi High-tech Valley	Rep. of Korea	Design
• WB Funded Consulting Services for Feasibility Studies and Preparations of Conceptual Designs & Bidding Documents for DBO/DB Contracts (Pagia STP)	Bangladesh	FS/Design
• EDCF funded Consulting Services for Wastewater Treatment Project in Juigalpa	Nicaragua	Design/Supervision
• ADB funded Consultancy Services for Kathmandu Valley Wastewater Management Project: Design, Supervision and Management Consultant (DSC-04)	Nepal	Design/Supervision
• WB funded Preparation of Detailed Design and Bidding Documents for Drainage and Wastewater System in Thai Hoa Town, Nghe An Province	Vietnam	Design
• Feasibility Study for Expansion and Improvement of Water Supply and Sewerage Treatment Facilities on 20 sites in Arequipa	Peru	FS
• Canoas Waste Water Treatment Plant Construction Project	Colombia	FS
• Water Treatment Facility Installation (3rd Phase) in Seoul Jungnang Water Reclamation Center	Rep. of Korea	Design
• Master Plan (Revision) for Seoul Metropolitan Wastewater Maintenance Project	Rep. of Korea	MP
• Master Plan for Unit Watershed Sewerage Treatment Facility Maintenance on Main Stream of Han River	Rep. of Korea	MP
• Build-Transfer-Lease (BTL) for Sewer Network Maintenance Project in Daejeon Metropolitan City	Rep. of Korea	Design
• Build-Transfer-Operate (BTO) for Centralized Wastewater Treatment Facilities in Gumi City	Rep. of Korea	Design
• Buffer Storage Facility Installation Project in Ulsan Petrochemical Industrial Complex	Rep. of Korea	Design
• EDCF funded Provision of Consultancy Services for Design and Supervision of Wastewater Treatment System in Dar es Salaam	Tanzania	Design/Supervision
• EDCF funded Consulting Services for Detailed Design and Supervision of Sewerage System Development in Ta Khmau Town Project	Cambodia	Design/Supervision
• Water Reclamation Center Expansion Project in Pangyo New Town	Rep. of Korea	Design
• Cheonan Wastewater Treatment Plant Modernization Project (Private Investment Project)	Rep. of Korea	Design
• Waste Water Reclamation Project in Seongseo Industrial Complex	Rep. of Korea	FS
• Ganggu Port Flood Protection Project in Yeongdeok County	Rep. of Korea	Design
• EBRD funded PIU Support, Design and Construction Supervision for Implementation of Kashkadarya Wastewater Project	Uzbekistan	Design/Supervision
• Detailed investigation of Gwangju Metropolitan City old sewer pipe (2nd stage)	Rep. of Korea	Design
• EDCF Cambodia Takmau Sewerage Facility Design (Change) Project	Cambodia	Design
• Detailed Design for Namyangju City Hwado Public Sewage Treatment Facility Private Investment Project (BTO-a)	Rep. of Korea	Design



1



2



3



BUSINESS PORTFOLIO

Architecture

We are successfully carrying out projects not only in Korea involving special buildings such as power generation, steel, shipbuilding, machinery, and non-ferrous metal factories, airport passenger terminals, high-speed rail stations, water and sewage related structures such as water purification plants, sewage treatment plants, and wastewater treatment plants, but we are also successfully carrying out various overseas projects in countries such as the Indonesia, Ecuador, Laos, Mongolia, Philippines and Tanzania with professional technology.



- 1 Ulsan Integrated Water Operation System Construction Project 2013. 04 ~ 2014. 12
 - Facility plan for integrated operation and management of water supply facilities distributed and operated throughout Ulsan Metropolitan City
 - Location: All areas of Ulsan Metropolitan City
 - Project Features: water operation center (6,706m²), landscaping (2,826m²)



- 2 Namyangju Jingun District Storm Water Pumping Station Investigation Project 2012.04 ~ 2013.07
 - Facility plan for operation and maintenance of storm water pumping station for flood prevention in Jingeon district, Namyangju
 - Location: Namyangju Jingun District
 - Project Features: storm water pumping station (2,903m²)



- 3 Sunghnam Water Treatment Plant Renewal Project 2020. 05 ~ 2023. 04
 - Establishment of a safe tap water production base for representative wide-area water purification plants in the metropolitan area and realization of the highest level of cleanliness and green image
 - Location: Sunghnam Water Treatment Plant (269,353m²)
 - Project Features: administration building and 24 other buildings (24,000m²), exterior space



Key Achievement

PROJECT	COUNTRY	SERVICE
• Sunghnam Water Treatment Plant Renewal Project	Rep. of Korea	Design
• Ulsan Integrated Water Operation System Construction Project	Rep. of Korea	Design
• Establishment of the PV Panel Manufacturing Infrastructure	Uzbekistan	Design
• Wonchang-dong Low Temperature Refrigeration Warehouse Construction Project	Rep. of Korea	Design
• Danam Flood Risk Management Project	Rep. of Korea	Design
• Material Performance Testing Center Installation Project	Rep. of Korea	Design
• Danyang Water Treatment Plant Site Administration Building Construction Project	Rep. of Korea	Design
• Operation Village for Xe-Pien Xe-Namnoy Hydroelectric Power Project	Laos	Design
• Namyangju Jingun District Storm Water Pump Station Investigation Project	Rep. of Korea	Design
• Xe Pien - Xe Namnoy Hydroelectric Power PPP Project	Laos	Design
• Songsan Green City Wastewater Treatment Facility Construction Project	Rep. of Korea	Design
• Gunnam Flood Control Reservoir Construction Project	Rep. of Korea	Design
• Textile Industrial Complex Construction Project in Central Java, Indonesia	Indonesia	Design
• Ecuador Galapagos Solar photovoltaic power Plant Construction Project	Ecuador	Design
• Yeongdeungpo Water Treatment Plant Membrane Filtration Facility Project	Rep. of Korea	Design
• Muharraq Wastewater Treatment Plant and Sewer Construction Project in Bahrain	Bahrain	Design
• Wastewater Treatment System in Das Es Salaam	Tanzania	Design
• Ulaanbaatar Urban Services and Ger Areas Development Investment Program	Mongolia	Design
• Taehwa and Woojeong District Flood Risk Management Project	Rep. of Korea	Design
• World Camping Caravanning Contest Hall and Yeonin Mountain Multipurpose Campsite Construction Project	Rep. of Korea	Design
• Gochon Water Treatment Plant Administration Building Remodeling Project	Rep. of Korea	Design

Urban

- Urban Planning & Development
- Landscaping/Leisure
- Smart City

URBAN 



Urban Planning & Development

To improve the quality of life and make the city sustainable, we offer various planning services including general plan, management plan (redevelopment) and regeneration plan. We also conduct feasibility reviews and establish business plans as an endeavor to develop eco-friendly cities. Dohwa has completed complex planning projects involving site planning, earthwork construction, water supply and sewage, rivers, bridges, ground and so on to include housing and multiple complex, industrial and logistics complex, the 3rd Generation New Town and Saemangeum waterfront city. We are expanding our business to cover development and planning of new cities, housing complexes and industrial complexes overseas.

-  **Survey Design service for residential land development project in Gwanggyo district** 2012. 09 ~ 2020. 12
- Supervision and Overall Responsibility Supervision for Section 3-5** 2020 ~
- Creating a new residential complex in order to resolve the housing shortage in the metropolitan area and relocating it to Gyeonggi-do and contributing to the stability and welfare of the people's residential life.
 - Location: Iui-dong, Woncheon-dong and Ha-dong of Yeongtong-gu, Suwon-si, Sanghyeon-dong, Suji-gu, Yongin-si, and Yeongdeok-dong district, Giheung-gu, Gyeonggi-do
 - Project Features: 11,304,494m²

Key Achievement

PROJECT	COUNTRY	SERVICE
• Development Project of Semangeum Waterfront City (Seondo Island District)	Rep. of Korea	Design
• Busan Research and Development Special Zone (High-tech Complex) Development Project	Rep. of Korea	Design
• Busan Eco Delta City Section 2 Development Project	Rep. of Korea	Design
• Gyeongbuk Provincial Office relocation New Town Project (Phase 2)	Rep. of Korea	Design
• Yeongjong Sky City Development Project in Incheon Free Economic Zone	Rep. of Korea	Design
• Pyeongtaek Internationalization Planning District Development Project	Rep. of Korea	Design
• Jinju Innovation City Development Project in Gyeongnam	Rep. of Korea	Design
• Seongnam Pangyo Creative Economy Valley Development Project	Rep. of Korea	Design
• New Town Development Project for relocation of Chungnam Provincial Government	Rep. of Korea	Design
• Project to Build a Techno Industrial Complex in Ulsan City	Rep. of Korea	Design
• Hwaseong-si Songsan Green City Phase 2 Development Project No. 1	Rep. of Korea	Design
• Pyeongtaek U.S. Forces Korea facility project Parcel-2B site development project	Rep. of Korea	Design
• Housing Site Development Project in Gwanggyo District, Suwon-si	Rep. of Korea	Design
• Jeju Advanced Science and Technology Complex Complex 2 Construction Project	Rep. of Korea	Design
• Gimhae Daedong High-Tech Industrial Complex Construction Project	Rep. of Korea	Design
• Hanam Gyosan public housing district development project	Rep. of Korea	Design
• Daesan Green Complex general industrial complex development project	Rep. of Korea	Design
• Yeongju High-Tech Bearing National Industrial Complex Construction Project	Rep. of Korea	Design
• Yongin Semiconductor Cluster General Industrial Complex Construction Project	Rep. of Korea	Design
• Yongin Platform City Development Project	Rep. of Korea	Design





Landscaping/Leisure

Dohwa is playing a leading role in developing creative and sustainable space that allows nature and humans to co-exist in harmony. From large-scale national projects such as the National Arboretum Development Project and Preliminary design for Saemangeum Area Tourism & Leisure project to designing parks, tourist attractions, amusement parks, golf courses, ecological conservation and landscape planning.



Preliminary and Detailed Design for Danyang Manchonha Skywalk Development Project 2012. 06 ~ 2015. 06

- Creating an Experience-type Tourism Facility which is Integrated with the Natural Landscape
- Location: 94 Aegok-ri, Jeokseong-myeon, Danyang-gun, Chungcheongbuk-do
- Project Features: 1 Observation Deck (25m), 2 Zipline Courses (980m), Alpine Coaster (950m), etc.



2012 Yeosu World Expo Construction Management 2009. 02 ~ 2009. 10

- Utilizing the sea for the second international exhibition held in Korea and creating an exhibition complex connected with exhibition facilities
- Location: Sujeong-dong, Yeosu-si, Jeollanam-do
- Project Features: 1,737m²



Key Achievement

PROJECT	COUNTRY	SERVICE
• Sejong-si National Arboretum Project	Rep. of Korea	Design
• Danyang-gun Myeongseung Culture Village Development	Rep. of Korea	Design
• Cheongsong-gun Forest Leisure Sports Recreation Complex Project	Rep. of Korea	Design
• Icheon-si Icheon National Cemetery Expansion Project	Rep. of Korea	Design
• Hwaseong-si Huayung Hose Park Construction Project	Rep. of Korea	Design
• Gwangju-si Central Park District 2 Park Construction Project	Rep. of Korea	Design
• Kumho River Grand Plan	Rep. of Korea	Design
• Daegu Grand Park Construction Project	Rep. of Korea	Design
• Yeongcheon-si Let's Run Park Yeongcheon Construction Project	Rep. of Korea	Design
• Jangmok Tourist Complex in Geoje-si	Rep. of Korea	Design
• Danyang-gun Manchonha Skywalk	Rep. of Korea	Design
• Palgongsan Forest Leisure Sports Complex Construction	Rep. of Korea	Design
• Eco-farmland saddle horse riding complex and livestock R&D complex in Hwaseong-si	Rep. of Korea	Design
• Saemangeum Ecological Environmental Land Development Project (Phase 1)	Rep. of Korea	Design
• Namwon-si Dragon Tourist Complex Construction Project	Rep. of Korea	Design
• Pohang-si Park Development Project	Rep. of Korea	FS
• Landscape Development Project for Dasan New Town in Namyangju-si	Rep. of Korea	Design
• Yeongyang-gun Mountain Village Culture Site Development Project	Rep. of Korea	Design
• Robot Land Development Project in Changwon-si	Rep. of Korea	CM
• Development of EXPO 2012 Yeosu International Exposition Center	Rep. of Korea	CM
• 2023 Suncheon Bay International Garden Expo Construction Project	Rep. of Korea	Design



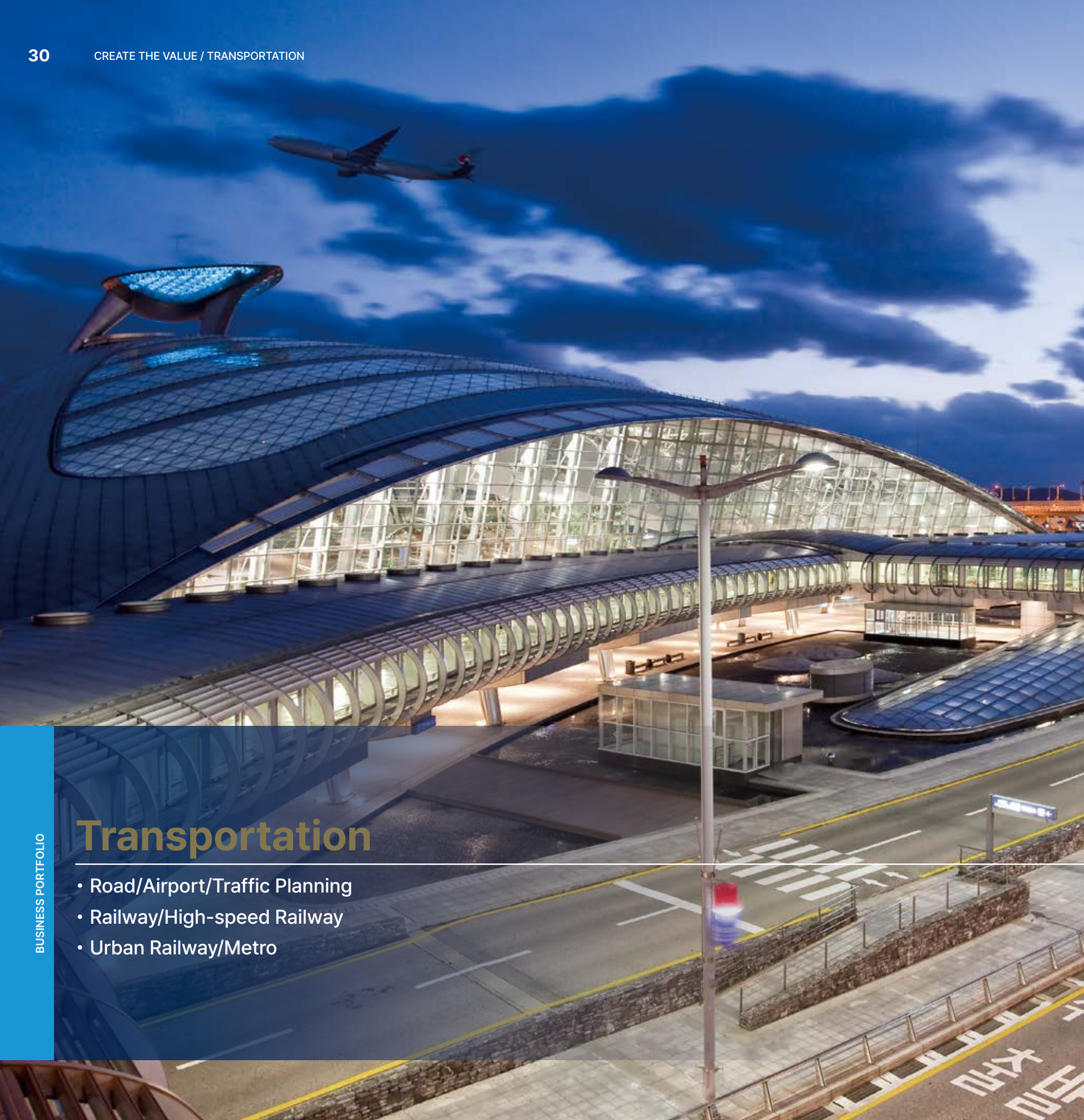
Smart City

Dohwa contributes to creating a future city that improves the quality of human life by presenting a smart city model that incorporates innovative technologies from the Fourth Industrial Revolution era. Providing consultation for urban and regional planning, new town, residential complex, industrial complex, logistics complex, tourism complex, urban renewal and maintenance and providing optimized solutions for fields such as smart transportation, energy, safety, environment and tourism to meet the different needs that each country or city might have.

↑ Incheon Free Economic Zone Songdo Smart City
• A global hub for Northeast Asia high-tech business and a high-tech business city utilizing innovative smart city technology
• Location: All areas of Songdo-dong, Yeonsu-gu, Incheon
• Project Features: 5,340ha

Key Achievement	PROJECT	COUNTRY	SERVICE
	• Vietnam Social Housing Development Project	Vietnam	FS
	• Dung Quat Urban Development Project	Vietnam	FS
	• Chau Giang Smart City and High Technology Industrial Complex Development Project	Vietnam	MP
	• Anowara II, Sabarang Free Economic Zone Development Project	Bangladesh	FS
	• Ulaanbaatar Urban Services and Ger Areas Development Investment Program	Mongolia	FS/Design
	• Bayangolyn AM Rental Housing Construction Project	Mongolia	FS
	• Tashkent Urban Development Project	Uzbekistan	FS
	• Nairobi Central Railway Station and Its Surroundings Redevelopment Project	Kenya	MP
	• Konza Smart Digital Media City (DMC) Construction Project	Kenya	FS
	• Bole-Lemi and Kilinto Industrial Zones Development Project	Ethiopia	Design/Supervision
	• Smart City in Astete Airport Hinterland Development Project, Cuzco	Peru	FS
	• New Town in El Dorado International Airport Hinterland Development Project, Bogota	Colombia	MP
	• Mongolia Cushing Valley Sinjun Mode Smart City Development Project	Mongolia	MP
	• Bangladesh Khulna Smart City Development Project	Bangladesh	MP
	• Paraguay Bagna do Sur area development project	Paraguay	MP





Transportation

- Road/Airport/Traffic Planning
- Railway/High-speed Railway
- Urban Railway/Metro

TRANS-PORTATION



Road/
Airport/
Traffic
Planning

Dohwa has successfully performed tasks in design, supervision and CM for domestic expressway, national highway and local road projects, including Gyeongbu Expressway and overseas projects that involve feasibility study, design, supervision, PMC and PMO. In total, we have successfully conducted over 60 projects so far. We were responsible for Incheon International Airport's 2nd stage construction project management, 3rd stage comprehensive project management and 4th stage Landside facility design. In Peru, we were in charge of PMO for the Peru Chinchero New Airport Project. With efficiency, we develop, operate and manage air and land traffic, which is critical to national transportation. In transportation planning, we provide services including comprehensive transportation planning, public transportation, transportation system improvement and traffic safety related projects as we pave the way for a human-centered, eco-friendly green transportation system.

↑ Busan Outer Ring Expressway Construction Work Preliminary & Detailed Design (Section 7) 2008. 12 ~ 2010. 06

- Stimulating regional exchanges, eliminating traffic congestion, and maximizing logistics and transportation functions by connecting the coast and inland by securing a smooth connection towards the new port.
- Location: Nopo-Dong, Geumjeong-Gu ~ Baekgil-Ri, Cheolma-Myeon, Gijang-Gun, Busan
- Project Features: Expressway L=6.3km, 4 Lanes, 100km/hr, Nopo Junction, Geumjeong Intersection, 10 Bridges, 1 Tunnel, Uninterrupted Underpass, Ecological Tunnel

➤ Incheon International Airport (Phase 3) Construction Management 2011. 12 ~ 2017. 12

- Overall project management, design supervision, and technical support in specialized fields for the 3rd phase of Incheon International Airport Construction
- Location: Unseo-dong Area, Jung-gu, Incheon
- Project Features: Site Creation, 2nd Passenger Terminal, Cargo Terminal, 2nd Passenger Apron, 2nd Cargo Apron, 2nd Passenger Terminal Parking Lot, Access Road (section 1, 2), T1-T2 Connection Road (section 1, section 2)

Key Achievement	PROJECT	COUNTRY	SERVICE
	• Construction of Sejong-Pocheon highway (Sejong-Ansung)	Rep. of Korea	Design
	• Construction of Saemangeum – Jeonju Highway	Rep. of Korea	Design
	• Sikman – Sasang (Daejeo Grand Bridge) Road Construction Project	Rep. of Korea	Design
	• Construction Project of Coastal Ring in Ulleungdo	Rep. of Korea	Design
	• Da Nang – Quang Ngai Expressway Development Project	Vietnam	PMC
	• Modernization of Tbilisi-Rustavi Section of the Tbilisi-Red Bridge (Azerbaijani border) Road	Georgia	Design/Supervision
	• Loichang' Amatak – Lodwar Road (A1) construction Project	Kenya	Design/Supervision
	• Iquitos-Saramiza Road Construction	Peru	FS
	• Civil Works under Busega – Mpigi Expressway	Uganda	Design/Supervision
	• Padang Bypass Capacity Expansion project	Indonesia	Design/Supervision
	• Improvement and Expansion of Airport services in the Region of Cusco through the New Chinchero – Cusco international Airport	Peru	PMO
	• Saemangeum-si Airport Construction Project	Rep. of Korea	FS
	• Incheon International Airport Phase 4 Landside Facility Construction Project	Rep. of Korea	Design
	• Incheon International Airport Phase 2 and Phase 3 Comprehensive Project	Rep. of Korea	CM
	• Seoul Gangnam Circulation Urban Expressway (Private Investment Zone)	Rep. of Korea	Supervision
	• Expressway 30, Sangju-Youngdeok (Sections 16~19)	Rep. of Korea	Supervision
	• Ivory Coast, Road development project to improve Road Fluidity and Capacity Building in Abidjan	Côte d'Ivoire	Design
	• Ethiopia, Bus Rapid Transit Construction Project	Ethiopia	FS
	• WB Ho Chi Minh Green Transportation Development Project Bus System Improvement Project (CS-9)	Vietnam	Planning
	• Introduction of the BRT System and Improvement of Bus-only Roads in Seongnam City	Rep. of Korea	FS/Planning
	• Gongju and Sejong BRT Construction Project	Rep. of Korea	Design





Railway/
High-speed
Railway

Based on outstanding technology and years of extensive experience in Korea, Dohwa has accomplished a number of overseas railroad projects in Poland, Peru, Panama, Bangladesh, Sri Lanka, Vietnam, Philippines, Tanzania, Algeria, etc. We are also expanding our business to include railway construction and private investment projects that combine design-build concept and capital. We offer our expertise to all stages and areas of the railway system, including civil engineering, track, depot, E&M, signaling and communication.

-
- Seoul-Busan Gyeongbu High-Speed Railway Construction Project** 1997. 03 ~ 2005. 08

 - Relieve from the traffic and logistics difficulties of the existing Gyeongbu-axis railway line through the introduction of high-speed railway
 - Location: Routes via Gyeongju (Gyeongju-si, Gyeongsangnam-do-Ulju-gun, Ulsan)
 - Project Features: Line length 27km, 1 station, 2.5km bridge, 14.8km tunnel

Key Achievement PROJECT

- Seoul-Busan High-speed Rail Construction Project
- Honam High-speed Rail Construction (2nd Phase) Project
- Wonju-Gangneung High-speed Rail (KTX, Korea Train Express) Construction Project
- Double Track Railway (Jungang Line) Construction Project
- Ulsan-Pohang Double Track Railway Construction Project
- Trans-Korean Railway (Gyeongwon Line, Northern Donghae Line, etc.) Rehabilitation Project
- Poland high-speed rail construction project PR7
- ADB funded Consulting Services Contract for Construction Supervision of Akhaura-Laksam Double Track Project
- Feasibility Study with Detail Design and Tender Document Preparation for Construction of Rail Line From Bhanga to Payra via Barisal
- K-EXIM funded Feasibility Study for Construction of the Rail-and-Road Bridge over Karnaphuli River Project
- Trasandino Long Rail Tunnel Construction Project
- Marcona-Andahuaylas Railway Construction Project
- Supervision of Contracts for Railway Track and Structure (Bridges & Culverts) Rehabilitation Works Package A&B
- Preliminary and Detailed Design for Nouaceur-Marrakesh (Lot 3) High-speed Rail Construction Project
- ADB funded Transport Project Preparatory Facility, Consulting Service for the Feasibility Study and Detailed Design at Colombo Suburban Railway Project
- Project Consulting Service (Feasibility Study) for a Railway Link from Vientiane in the Lao PDR to Vung Ang in Vietnam
- Detailed Design of Railway and Earthwork for Saudi Sulfur Railcar Loading Facilities of ARAMCO
- Feasibility Study to Link Yanbu Industrial City and King Abdullah Economic City with the Railway line between Jeddah and Jubail
- Detail Survey and Design of Electrified Railway Line for Mechi-Mahakali Railway
- Master Plan and Feasibility Study for Jabotabek Railway in Indonesia

COUNTRY	SERVICE
Rep. of Korea	Design/Supervision
Rep. of Korea	Design/Supervision
Rep. of Korea	Design
Rep. of Korea	Design/Supervision
Rep. of Korea	Design/Supervision
Rep. of Korea	FS/Design
Poland	Design
Bangladesh	Supervision
Bangladesh	FS/Design
Bangladesh	FS
Peru	FS
Peru	FS
Tanzania	Supervision
Morocco	Design
Sri Lanka	FS/Design
Lao PDR, Vietnam	FS
Saudi Arabia	Design
Saudi Arabia	FS
Nepal	Design
Indonesia	FS/MP





Urban Railway/Metro

Dohwa has implemented various urban railway projects from Metro rapid railway linking major cities, MRT(Mass Rapid Transit), Monorail, Tram to LRT(Light Rail Transit).

Especially, we have completed the “Private Investment Project of Metropolitan Rapid Transit Railway (GTX) Line A” that can connect major stations in Seoul from satellite cities in capital area within 30 minutes as the first financial investor-led (FI) project in Korea and newly transformed paradigm of engineering industry.



Construction of Daegu Urban Railway Line 3 Monorail
2007. 10 ~ 2009. 06 (Photo Source: Daegu Metropolitan City / Photography contest (photo by Jung Gi Hwan))
• Dissolution of burgeoning traffic congestion and network connection establishment with Urban Railway Line 1,2 currently in operation
• Object section: Daegu Metropolitan City Buk-gu Maecheon-dong ~ Paldal-dong, Nam-gu Daebong Intersection ~ Suseong-gu Beommul-dong
• Project Scale: Length of route: L=23.9km, Full through Bridge, Stations: 30 Nos



Key Achievement

PROJECT	COUNTRY	SERVICE
• Private Investment Project of Metropolitan Rapid Transit Railway (GTX) Line A	Rep. of Korea	PPP/Design
• Private Investment Project of Metropolitan Rapid Transit Railway (GTX) Line B	Rep. of Korea	PPP/Design
• Private Investment Project of Shinansan Double-Track Line	Rep. of Korea	PPP/Design
• Seoul Urban Railway Line 9 extension project – Phase 4	Rep. of Korea	Design
• Gwangju Urban Railway Line 2 Construction Project - Phase 1	Rep. of Korea	Design
• Daegu Urban Railway Line 3 Monorail Construction project	Rep. of Korea	Design
• Yeongdong-daero underground space complex development project	Rep. of Korea	Design/Supervision
• Lima Metro Line 2 Construction Project	Peru	Supervision
• Lima Metro Line 3,4 Construction Project	Peru	FS
• Panama Metro Line 3 Construction Project	Panama	DB/Design
• Panama Metro Line 5 Construction Project	Panama	FS
• Algiers Metro Line 1 Ain Naadja-Baraki Section Extension Construction Project	Algeria	Supervision
• Algiers Metro Line 1 Lot 1 Extension Construction Project	Algeria	FS/MP/Design
• Extension of Oran Tramway Line 1 Construction Project	Algeria	Design/Supervision
• Annaba Tramway Line 1 Construction Project	Algeria	Design/Supervision
• Manila Metro Subway Project (MMSP) Phase 1	Philippines	Supervision
• Manila Metro Rail Transit (MRT) Line 7 Construction Project	Philippines	DB/Design
• Ho Chi Minh Metro Tan Son Nhat Airport Connection Section Construction Project	Vietnam	FS
• Ho Chi Minh Metro 5-2 section Construction Project	Vietnam	FS
• Jakarta LRT phase 2 and Bali LRT construction project	Indonesia	FS

ENERGY

- Solar Power
- Wind Power
- Power Plant/Environment Plant





Solar Power

In order to reduce greenhouse gas emissions and contribute to protecting the global environment, we are currently pursuing photovoltaic projects in domestic and overseas markets such as Japan, Vietnam, Iraq, Ethiopia and Honduras. In particular, we strive for the convenience of mankind by promoting solar power projects in remote areas with poor environments. Furthermore, based on our experience in conducting various tasks such as feasibility, consulting, design, EPC and supervision of domestic and overseas aquatic and onshore photovoltaic power businesses, we are expanding our scope to business development and investment projects as well.

- 1

1 Quang Binh Le Thuy Photovoltaic Plant Project 2020. 06 ~ 2020. 12

 - Solve the supply and demand of electricity by using solar power generation, an eco-friendly energy, to reduce the lack of electricity in Quang Binh, Vietnam
 - Location: Le Thuy County, Quang Binh Province, Vietnam
 - Project Feature: 49.5MW
- 2

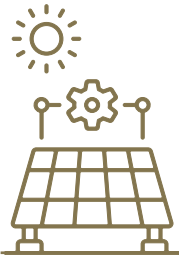
2 Photovoltaic Plant Construction Project at Arij Country Club 2009. 01 ~ 2009. 05

 - Solve the supply and demand of electricity by using solar power generation, an eco-friendly energy, to operate the Arij Country Club
 - Location: Arij CC, Ganam-myeon, Ganam-eup, Yeosu-gun, Gyeonggi-do
 - Project Feature: 194.04kW
- 3

3 Hamada Photovoltaic Plant EPC Project 2016. 11 ~ 2017. 04

 - Solve the supply and demand of electricity by using solar power generation, an eco-friendly energy, to reduce the lack of electricity in Hamada, Japan
 - Location: Nagahama Town, Hamada City, Shimane Prefecture, Japan
 - Project Feature: 12MW

Key Achievement	PROJECT	COUNTRY	SERVICE
	• K-Water metropolitan (regional) carbon neutral onshore solar power project	Rep. of Korea	FS
	• Yeosu Gwangyang Port idle site solar power generation project	Rep. of Korea	FS
	• Hapcheon Dam floating solar power generation project	Rep. of Korea	FS
	• K-Water floating solar power development project	Rep. of Korea	FS
	• Yeongheung solar power complex 5 power generation project	Rep. of Korea	Design
	• Goheung Bay floating solar power development project	Rep. of Korea	Design
	• Le Tui solar power generation project in Quang Binh Province	Vietnam	EPC
	• Morioka solar power construction project	Japan	EPC/O&M
	• Yufu solar power construction project	Japan	EPC/O&M
	• Iseshima solar power generation project construction work	Japan	EPC/O&M





BUSINESS PORTFOLIO

Wind Power

In line with the global trend of promoting eco-friendly energy policies and developing new and renewable energy, Dohwa has been conducting feasibility studies and design for numerous on and offshore wind farm construction projects at home and abroad. In recent years, we have successfully completed an EPC project of a domestic wind power plant. We will continue to move forward as a leader in the future wind power industry based on our accumulated experience and technology.



- Sinji Wind Power Complex Development Project EPC** 2018. 03 ~ 2019. 12
- Contributing to domestic energy supply and demand plans and constructing a pollution-free wind farm that is friendly to nature
 - Location: Wolyang-ri, Sinji-myeon, Wando-gun, Jeollanam-do
 - Project Features: Wind Power Generation 17.325MW, Underground Line (22.9kV) 16.87km



Key Achievement

PROJECT	COUNTRY	SERVICE
• 3rd Wind Power Generation Comprehensive Management Plan Establishment Project	Rep. of Korea	Plan
• Yangsan City wind power generation project	Rep. of Korea	FS/Design
• Yeosu Geumodo offshore wind power development project	Rep. of Korea	FS/FEED
• Laos Buarapha wind power generation project	Laos	FS
• Donghae 1 floating offshore wind power generation project	Rep. of Korea	FS
• Wando Geumil Offshore Wind Power Project	Rep. of Korea	Design
• Jeju City bill wind power development project	Rep. of Korea	Design
• Jangheung-gun wind power generation construction project	Rep. of Korea	Design
• Jeju Dongbok-ri Phase 1 and 2 Wind Power Complex Development Project	Rep. of Korea	Design
• Wando-gun Shinji Wind Power Complex Construction Project EPC Construction	Rep. of Korea	EPC
• Floating offshore wind power commercialization complex construction project	Rep. of Korea	FS
• Shinan Offshore Wind Power Complex (300MW) Construction Project	Rep. of Korea	FS
• Nakwol offshore wind power complex development project in Yeonggwang-gun	Rep. of Korea	FS
• Southwest Sea 500MW offshore wind farm development project	Rep. of Korea	FS
• Jeju Handong-Pyeongdae offshore wind power development project	Rep. of Korea	Design
• K-Wind Power offshore wind power generation project	Rep. of Korea	FS
• Boryeong Nokdo Offshore Wind Power Generation Project	Rep. of Korea	FS
• Yeonggwang Chilhae offshore wind power generation project	Rep. of Korea	FS
• Shinan floating offshore wind power generation complex development project	Rep. of Korea	FS
• Shinan large-scale offshore wind power complex development project	Rep. of Korea	FS
• Taean offshore wind power generation project	Rep. of Korea	Design
• Yokji offshore wind power generation project	Rep. of Korea	Design
• Shinanwui offshore wind power generation project	Rep. of Korea	Design



Power Plant/Environment Plant

We have differentiated expertise in comprehensive engineering, EPC services and consulting services, and operation and maintenance in the energy, power generation and environmental plant fields. As a leader in the energy field, we provide the best engineering services, EPC, and O&M services by utilizing cutting-edge technologies and patent rights in combined cycle power generation, new and renewable energy, WTE (incineration, biogas), sanitary landfill, and biomass power generation business.



KTH Biomass Power Plant Installation Work 2011.08 ~ 2013.03

- Contributing to the Utilization of renewable energy in electricity production by using Bark, an abundant resource in Kalimantan, Indonesia, as the raw material
- Project Features: Power generation 7.3 MW



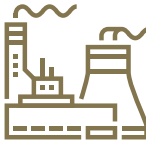
Ulsan Eco Recycling Green Energy Development Project 2020.06 ~ 2022.05

- Establishment of waste management facility within Ulsan Industrial Complex
- Project Area: Namgu, Ulsan
- Project Description: Incinerator: 91.2 Ton/day, Waste water management: 300 Ton/day, Sludge drying: 300 Ton/day



Design service for Pyeongtaek Eco Center Private Investment Project 2013.07 ~ 2015.10

- Establishing a resource-circulating city by converting waste into resources and producing new and renewable energy
- Location: Godeok-myeon, Pyeongtaek-si, Gyeonggi-do
- Project Features: Waste Fueling Facility: 250 Ton/day, Recycling Facility: 50 Ton/day, SRF Cogeneration Facility: 130 Ton/day, Sludge Treatment Facility: 184 Ton/day, Organic Biogasification Facility: 210 Ton/day



Key Achievement

PROJECT	COUNTRY	SERVICE
• Samcheonpo natural gas power generation project	Rep. of Korea	Design
• Goseong natural gas power generation project	Rep. of Korea	Design
• Pyeongtaek-si Poseung biomass integrated energy project construction work	Rep. of Korea	Design
• Banwol Power Plant Multiple Turbine Generator Installation EPC Construction	Rep. of Korea	EPC
• Gyeongju-si Angang business waste incineration, power generation, and drying facility construction project	Rep. of Korea	EPC
• Hadong Combined Cycle Unit 1 construction project	Rep. of Korea	Design
• Sejong (North) Happy District Energy Facility Construction Project	Rep. of Korea	Design
• Samcheonpo Units 5 and 6 environmental facility improvement project	Rep. of Korea	Design
• Gwangju City Metropolitan Sanitary Landfill Phase 2-2 Construction Project	Rep. of Korea	Design
• Changwon City food waste water bio-energy facility installation project	Rep. of Korea	Design
• Gyeongbuk Northern Area Environment and Energy Town Development Project	Rep. of Korea	Design
• Bundang combined cycle power plant blocks 1 and 2 construction project	Rep. of Korea	FS
• Yongin combined cycle power generation construction project	Rep. of Korea	FS
• Pyeongtaek combined cycle power generation facility relocation project	Rep. of Korea	FS
• Hapcheon Clean Energy Complex Construction Project	Rep. of Korea	FS
• Supervising agency for Shinpyeongtaek natural gas power plant construction, etc.	Rep. of Korea	PMC
• Yangju City Ghana resource circulation energy supply project construction work	Rep. of Korea	EPC
• Aspex Steam Turbine Expansion Project	Indonesia	EPC
• Sri Lanka solid waste treatment new landfill construction project	Sri Lanka	CM

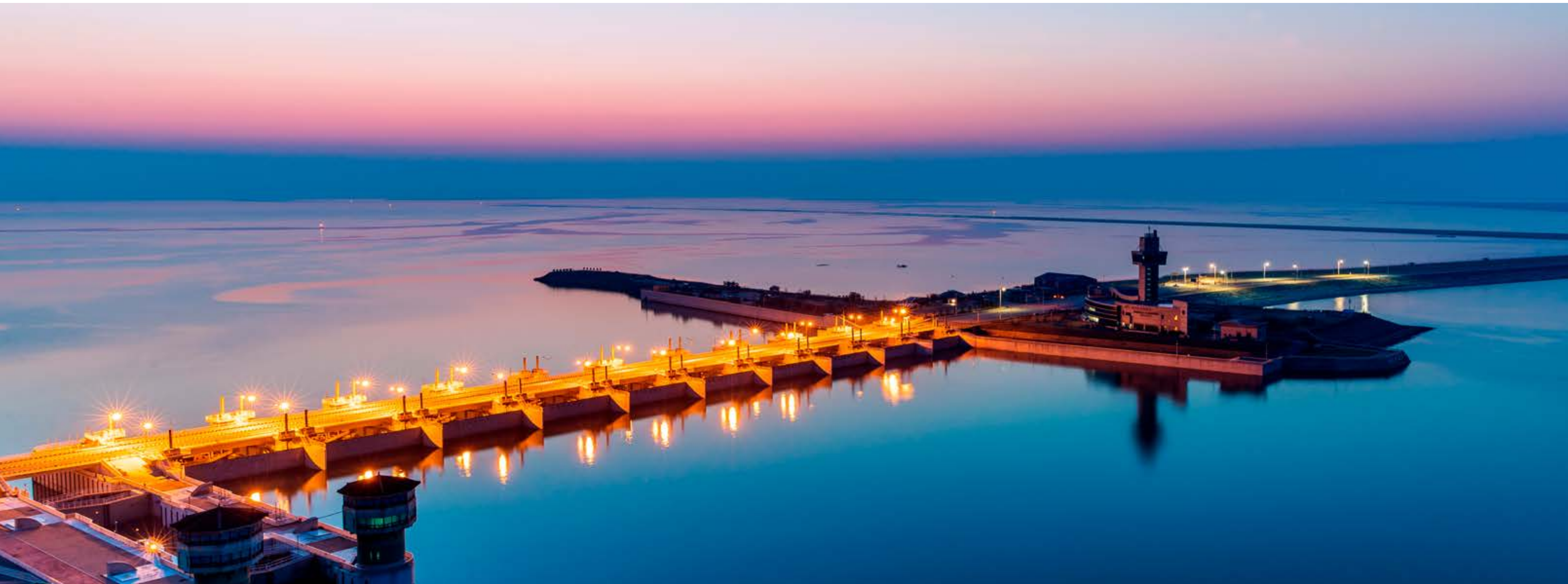


Infrastructure

- Water Resources (Rivers/Disaster Prevention/Dams/Hydropower)
- Harbor & Coastal/Bridges/Tunnels
- Environmental Assessment

INFRA-
STRUCTURE






Water Resources

Rivers/
Disaster Prevention/
Dams/Hydropower

Starting with the 'Water Resource Technology Survey of the Okcheon Branch of the Geumgang Watershed' in 1961, we have been carrying out numerous projects in the domestic water resources and disaster prevention fields, and have been actively participating in overseas river development, hydroelectric power generation, and flood control integrated planning projects since the 2000s.

With the best technology, comprehensive basin plan, river basic plan, comprehensive river development plan, flood risk map production, river disaster prevention and ecological river restoration project, basin survey, dam survey and design, securing water for maintenance, flood control pond, drainage pump station, and hydropower. It is playing a leading role in the fields of power generation projects, tidal power generation, natural disaster reduction comprehensive plans, storm water runoff reduction measures, natural disaster risk improvement district maintenance projects, disaster impact assessment and disaster recovery project analysis and evaluation, and emergency response plans. In particular, based on our experience in carrying out hydroelectric power generation projects, we are expanding into overseas hydroelectric power generation business development and investment projects.

-  **Feasibility study and basic plan establishment for Saemangeum tidal power generation project**
2009. 06 ~ 2010. 04
- Establish Saemangeum as a carbon-neutral and green energy hub and establish a basic plan for tidal power generation project to achieve sustainable target water quality of Saemangeum Lake.
 - Project scale: Facility capacity 140MW (23.3MW × 6 units, Bulb-type Kaplan water turbine), water gates 15.3m (B) × 12.0m (H) × 4 gates

Key Achievement	PROJECT	COUNTRY	SERVICE
	• Measures to strengthen dimensional stability of national rivers for flood safety in response to climate change	Rep. of Korea	Design
	• Establishment of River Master Plan(Change) for Lower Kumho River Area	Rep. of Korea	Design
	• Integrated river-basin development project for Sincheon and Kumho River	Rep. of Korea	Design
	• 2021 National River Basin Survey	Rep. of Korea	Design
	• Integrated Urban River(Daechon river) Dimensioning Plan	Rep. of Korea	Design
	• Comprehensive Storm and Flood Damage Reduction Plan in Gyeonggi-do	Rep. of Korea	Design
	• Preliminary and detailed design for comprehensive maintenance project of living area damaged by storm and flood in Jangsan district	Rep. of Korea	Design
	• Preliminary and detailed design for the comprehensive maintenance project of wind and flood damage living areas in Chimsan and Sangyeok districts	Rep. of Korea	Design
	• Feasibility study and basic planning for deep rainwater drainage facilities in the Dorimcheon area	Rep. of Korea	Design
	• Construction for Yeongcheon Dam Safety Enhancement Project	Rep. of Korea	Design
	• Pumped Storage Consturction project (Pocheon)	Rep. of Korea	FS
	• Feasibility study and basic plan establishment for Saemangeum tidal power generation project	Rep. of Korea	FS
	• Gulpur Hydropower Owner's Engineering	Pakistan	Supervision
	• Xe Pian – Xe Namnoy Hydropower development project	Laos	Design
	• Ethiopia SIBILU Dam and Water Facilities project	Ethiopia	Design
	• Indonesia Tripa-1 Hydropower Project	Indonesia	FS
	• Marikina River Flood Defense Project	Philippines	FS/Design
	• Climate change response project to resilience watershed in the eastern dry corridor in El Salvador (PMC)	El Salvador	PMC
	• Integrated Flood Control Plan for CHICAMA, ZANA, VIRU, CHANCAY, OLMOS in Peru	Peru	Design
	• Feasibility study for Cambodia Battambang II hydroelectric power generation (BOT) project	Cambodia	FS



Harbor&Coastal/Bridge/Tunnel

Starting with the “Survey and Design Service for the Mokpo Port Samhakdo Quay Wall New Construction” in 1975, we have successfully carried out various projects such as design, supervision, and alternative/turnkey projects in the port and coastal fields for over 50 years. In particular, in 1970, we designed Korea's first IRAN Koramsha Port and Indonesia's 100,000-ton loading pier, laying the foundation for expansion into overseas business.

Recently, based on accumulated design experience and technological know-how, we are actively participating in not only traditional port fields such as port facilities and coastal protection facilities, but also fields such as fuel unloading docks, ash disposal plants, intake and drainage structures, and marine plants. We are expanding our territory.

We have designed various types of structures, including road and railway bridges, underground tunnels, and offshore structure foundations, including offshore wind power, at home and abroad. Based on this experience, we are carrying out safer and more engineered structure planning and design. All members are working to design structures optimized for temporary areas around the world based on design standards and various specifications for each country, and are pursuing business expansion into special bridge construction supervision, PMC, and EPC.

- ←

Busan New Port South Container Terminal (Phase 2-4) 2004. 06 ~ 2007. 12 (Photo source : Busan Port Authority)
 - Container terminal construction in Busan New Port, Mega Hub Port in Northeast Asia.
 - Location: Seongbuk-dong, Gangseo-gu, Busan
 - Project Features: 3 berths (L=1,050m) for 50,000 DWT vessels, hinterland 630,000m², container handling capacity 1.5 million TEU2006. 06 ~ 2007. 02
- ↙

Bidding design for Chojeong-Hwamyeong road construction project (Hwamyeong Bridge)
 - Establishment of wide-area transportation network between major cities in Gyeongnam, such as Gimhae and Changwon, and the eastern mountain area
 - Location: Hwamyeong-dong, Busan and Daedong-myeon, Gimhae-si
 - Project Features: 2-pylon concrete cable-stayed bridge (main bridge: 115+270+11)

Key Achievement



HARBOR & COASTAL PROJECT

- Design for Busan New Port South Container Pier Phase 2-4 private proposal project
- Detailed design for Gyeongin Ara Waterway Project Section 6 facility construction
- Detailed design design service for Ulleung Airport construction work
- Preliminary and detailed design for Incheon Port waterfront construction and Bukseong Port access road expansion
- Design Technology for Boryeong Thermal Power Plant Pier 3 Construction Project basic and detailed design for Namae 1-ri erosion prevention facility
- Design technology service for Yeongheung Thermal Power Plant Units 5 and 6 (general field)
- Feasibility study for Indonesia's new capital relocation and port development
- Feasibility study service for port development project in Acahutla Port, El Salvador

COUNTRY SERVICE

- | | |
|---------------|--------|
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Indonesia | FS |
| El Salvador | FS |

BRIDGES PROJECT

- Feasibility Study for Bangladesh Meghna Bridge Project
- Feasibility Study for Indonesia Batam-Bintan Bridge Project
- Detailed design for the construction of Geumbitnoeul Bridge and 5th residential zone outer ring road in the multifunctional administrative city
- Detailed design and construction supervision for Myanmar Friendship Bridge construction project
- Feasibility study and basic planning for Shanna ~ Masirah land bridge in Oman
- Detailed design for Aphae-Amtae (Section 1) road construction design, construction, lump-sum bidding
- Detailed design for Amsa Bridge and connecting road construction work
- Detailed design for CARLOS bridge in Peru

COUNTRY SERVICE

- | | |
|---------------|--------------------|
| Bangladesh | FS |
| Indonesia | FS |
| Rep. of Korea | Design |
| Myanmar | Design/Supervision |
| Oman | FS/Mater Plan |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Peru | Design |

TUNNELS PROJECT

- Construction of Geumbitnoeul Bridge and Outer Ring Road in the Administrative Center Complex City
- Private Investment Project for Seoul Metropolitan Area Rapid Transit Line A
- 2020 Groundwater Pollution Concern Area Survey and Evaluation Project
- Environmental Pollution Remediation Project for Camp Hovey (Shooting Range)
- Construction of Juam Dam Stabilization Project (T/K)

COUNTRY SERVICE

- | | |
|---------------|--------|
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |
| Rep. of Korea | Design |



Environmental Assessment

We have implemented environmental impact assessment for sustainable development (strategic environmental impact assessment, environmental impact assessment, small scale environmental impact assessment, post-environmental impact assessment, etc.) in urban development, road, railway, water resources, power generation, offshore wind power, port projects, etc. and currently leading the future value by creating the environmental plan based on our accumulated technical insights.

- ↑

Environmental Impact Assessment for Tamna offshore wind power expansion project 2022.03 ~

 - Development of offshore wind power for Jeju Special Self-Governing Province clean energy independent island
 - Project Scale: Offshore wind power 102 MW (Existing: 30MW, Expansion: 72MW)
- ↗

Environmental Impact Assessment and Post-environmental Impact Assessment for SMG Biomass power plant construction project

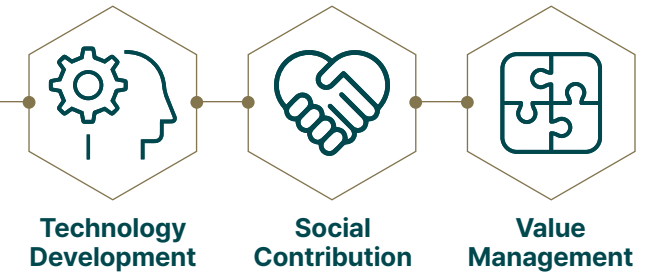
 - To satisfy new renewable energy supply & expansion policy and contribute to stable electricity supply in Gunsan industrial complex and Saemangeum region.
 - Project Scale: power generation 100MW, Area 54,575m²

Key Achievement

PROJECT	COUNTRY	SERVICE
• Environmental Impact Assessment for Jeju Public Wastewater Treatment Plant Modernization Project	Rep. of Korea	Design
• Youngsan River Naju District Environmental Impact Assessment	Rep. of Korea	Design
• Environmental Impact Assessment for Yongin Semi-conductor Cluster Business Complex Development Project	Rep. of Korea	Design
• Environmental Impact Assessment for Busan Eco-delta City Waterfront Development Project	Rep. of Korea	Design
• Environmental Impact Assessment for Yeosu Marine Tourism Complex Project	Rep. of Korea	Design
• Busan New Port - Gimhae Highway Construction Strategy and Environmental Impact Assessment	Rep. of Korea	Design
• Environmental Impact Assessment for Private Investment Project of Metropolitan Rapid Transit Railway Line A (GTX-A Project)	Rep. of Korea	Design
• Environmental Impact Assessment for KTX Incheon Linkage Project	Rep. of Korea	Design
• Environmental Impact Assessment for Stage 2 Development of Jeju Outer Port	Rep. of Korea	Design
• Environmental Impact Assessment for Yeosu Green Energy LNG Group Energy Project	Rep. of Korea	Design
• Environmental Impact Assessment for SK hynix Inc. (Cheong Ju) Power Plant	Rep. of Korea	Design
• Environmental Impact Assessment for Pohang Biomass Power Generation Project	Rep. of Korea	Design
• Environmental Impact Assessment for Ulsan Floating Offshore Power Generation Complex Construction Project	Rep. of Korea	Design
• Environmental Impact Assessment for Sinan Offshore Wind Farm Complex Construction Project	Rep. of Korea	Design
• Environmental impact assessment of Seomjingang River Jeokseong district and 1 location	Rep. of Korea	Design
• Environmental impact assessment of the 345kV Dangjin Thermal Power Plant-Sinsongsan transmission line construction project	Rep. of Korea	Design
• Environmental impact assessment of Songdo International City (District 5 and 7) development project	Rep. of Korea	Design
• Impact assessment of multifunctional administrative city (Sejong City) large-scale parks, etc.	Rep. of Korea	Design
• Environmental Impact Assessment for Taean Offshore Wind Power Complex Construction Project	Rep. of Korea	Design
• Environmental impact assessment of Jeju Gwangnyeong-Dopyeong bypass construction project	Rep. of Korea	Design



We Practice Sustainable Management



We prepare for the future with state-of-the-art technology in a rapidly changing market environment.

Dohwa's pursuit of technological development and innovation is the force that assures continued growth toward the future. We are creating the future of construction engineering suited for the Fourth Industrial Revolution era. The technologies include collecting and analyzing big data with AI and using next-generation technologies, such as BIM and CAE to strengthen design component efficiency, while self-developing the web-based design platform DIDAS that converts and shares all design output into digital forms.

Our corporate growth is not limited to the pursuit of higher profits and revenues, but is also accomplished through fulfilling social responsibilities

Dohwa's employees support the happiness and well-being of people worldwide, including our local communities, by supporting the "Hope Sharing Fund" and actively participating in volunteer activities. To overcome the damage caused by COVID-19 and prevent its spread, we are extending a helping hand to disaster-stricken areas both domestically and internationally. Our contribution to world peace and safety includes providing various subsidies, health products, and corona diagnostic kits to the countries where DOHWA has a presence.

We respect both people and nature, and we practice value management for the next generation

Under the motto of 'Coexistence Between Nature and People', Dohwa practices sustainable engineering for future generations. We will endeavor to become a company that cares about people and nature by continuously investing in the development of and business expansion in the sector of environmental-friendly technologies.

Son, Young Il

President
DOHWA Engineering Co., LTD.

손영일



R&D



In order to continuously secure new growth engines and secure next-generation leading technologies with high added value, we are conducting research on building platform-based design infrastructure, CAE-based optimal design technology, and smart construction engineering-based technology.

* CAE: Computer Aided Engineering

R&D Center



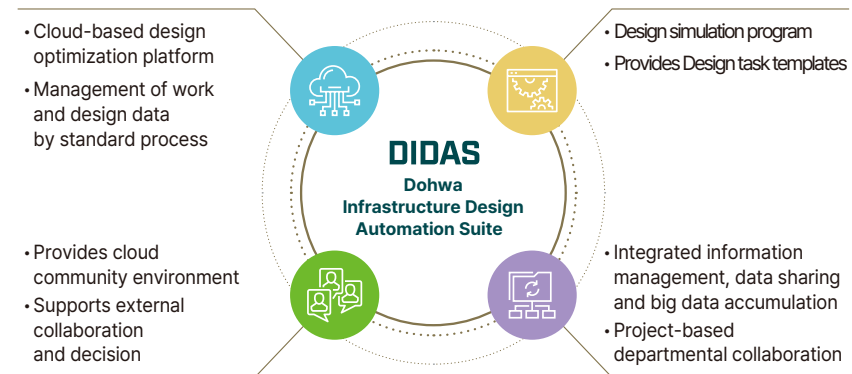
The R&D Center was established in 1992 to conduct research and development in the field of construction engineering and to strengthen construction technology innovation and competitiveness. By researching ways to apply next-generation technologies such as BIM, CAE, Big Data, and AI to design, we strengthen technical capabilities through digitalization of the overall design work.

* BIM: Building Information System

Design Platform DIDAS



DIDAS is a cloud-based design platform that digitally transforms design work.



BIM Design



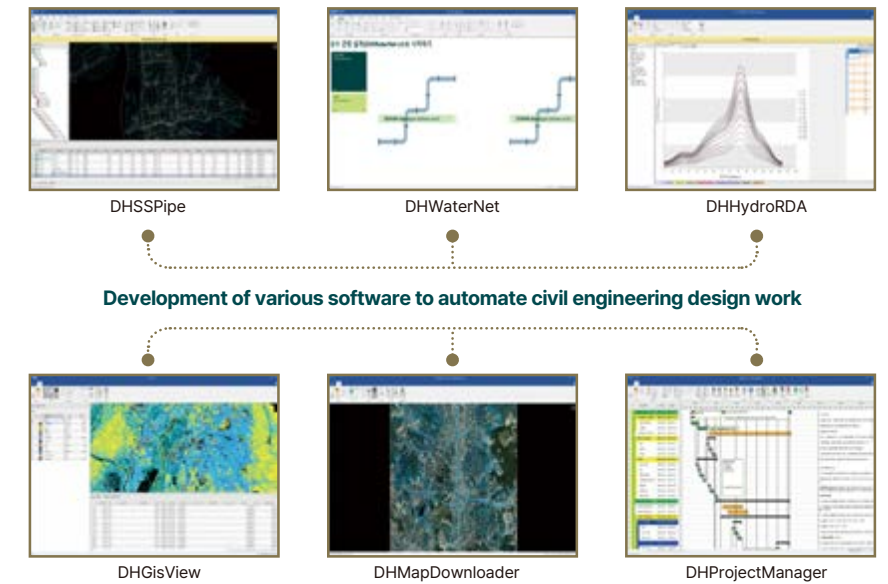
We are establishing a BIM design process and developing design support tools for BIM overall design, and developing BIM-based smart construction utilization technologies such as VR, MR, and drones.



Software Development



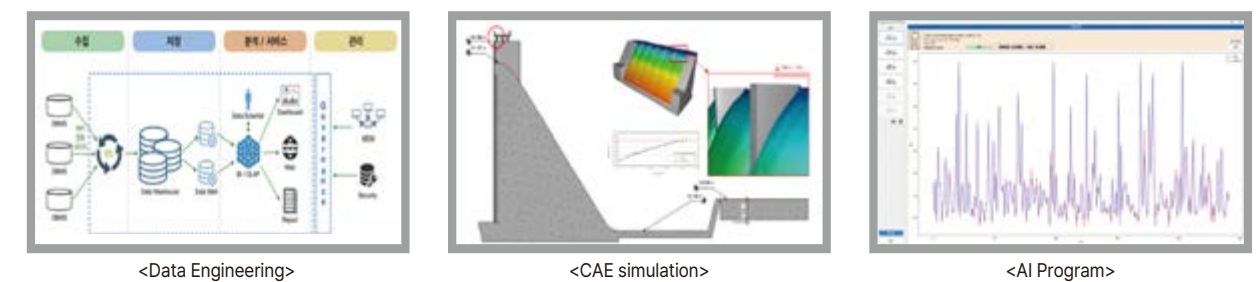
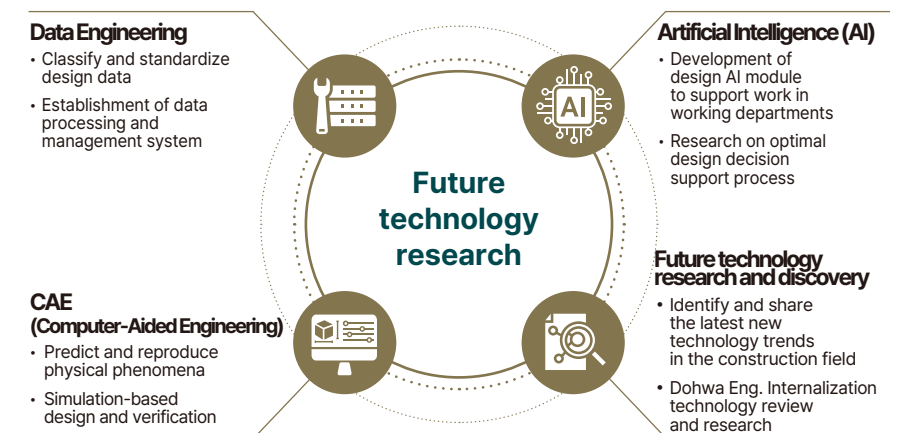
We are focusing on developing dedicated software to streamline design work and internalize design technology capabilities through automation of civil engineering design work.



Future technology research



We are working to secure future technologies such as data engineering, AI, and CAE to establish a foundation for optimal data-based design and design automation.



Social Contribution



As trusted members of the society, we take a step further beyond pursuing economic profits, and communicate and cooperate with local communities to share and pursue happiness together. It is Dohwa's will to continue to treasure the value of coexistence by supporting the underprivileged and preserving the environment and culture.



Hope Sharing Fund

'Dohwa Hope Sharing Fund', which is made up of voluntary participation of its employees, is raised with a certain amount donated out of one's monthly salary. It is used to carry out various social contribution activities at home and abroad. Currently, more than 1,380 members, which is approximately 51% of all employees, are participating in the fund. The company also sponsors an amount as same as the amount donated by employees, operated in a so-called "matching grant method" which doubles the size of the fund.

1,282,244,840 1,380



Total Amount of Hope Sharing Fund (KRW) Total Number of Participants

Financial Support Details ~2023	Major volunteer activities details ~2023
<div>2016 · Support for leukemia patient in Vietnam</div> <div>2017 · Support for Peru flood damage · Support for the Korea Paralympic Committee · Support for invitational events for North Korean defectors · Donation for Pohang earthquake damage</div> <div>2018 · Support for Yeongdeok-Gun flood damage · Support for earthquake damage recovery in Indonesia</div> <div>2019 · Support for World Together · Support for Gangwon-do forest fire disaster relief · Support for Mozambique cyclone damage recovery · Donation for making wells in Tanzania · Support for Bangladesh train accident relief aid</div> <div>2020 · Donation for Philippines Taal volcano eruption relief · Support children's books donation for underprivileged children in Peru · Support for Covid-19 Medical Staff Meal in Daegu · Delivery national support fund to support COVID-19 in Peru · Support COVID-19 diagnostic kits to Peru · Support Covid-19 in Cambodia · Mask support to dispatch countries due to COVID-19</div> <div>2021 · Support for Gangnam Welfare Foundation (North Korean defectors and underprivileged) since 2016, in each year · Support for the creation of Well No. 2 in Tanzania · Support for quick recovery following an outbreak of fire at Yeongdeok Traditional Market · Support for the economic independence of women living below the poverty line in Peru</div> <div>2022 · Support for the Ukraine Emergency Relief Fund · Support for the Flood Damages in Pohang City, Gangnam District and Gwangju City in Gyeonggi Province</div> <div>2023 · 2023 Donation to Korea Senior Citizens' Association Incheon · Support for flood damage recovery in Gyeongsangbuk-do · Support for recovery from earthquake damage in Turkiye</div>	<div>2016 · North Korean defector youth school (Durihana International School) Kimchi support and volunteer work · Historical and cultural exploration and nature cleanup activities (Changuimun/ Segeomjeong Pavilion) · Taegeukgi hanging promotion event and Daemosan nature cleanup activity · Computer equipment support: PC support for multicultural exchange networks · Making Kimchi for the elderly living alone (Yeoksam-dong area)</div> <div>2017 · North Korean defector invitation event support: Gangnam Welfare Foundation · Cheonggyesan nature cleanup activities · Donation and installation of the computers used in the company : 85 units of 9 welfare centers in Gangnam District · Historical and cultural exploration and nature cleanup activities (Eight Scenic Views of Bukchon)</div> <div>2018 · Preparation of Kimchi of Love to Share Happiness (Donation of 150kg of Kimchi) · Gwanaksan nature cleanup activities · Donation and installation of the computers used in the company · Memorial Cemetery weed removal and Taegeukgi planting service · Cheonggyecheon nature cleanup activities</div> <div>2019 · Yeomyeong School Mentoring Event · Gwanaksan, Bukhansan and Hangang Park nature cleanup activities · Memorial Cemetery gravestone cleaning, weed removal service · Volunteer club preparation of Kimchi of Love to Share Happiness</div> <div>2021 · Donating PCs to support the digital environment of local children centers</div> <div>2022 · Donating PCs to support the digital environment of Yeomyeong School, Goseong Town & Goheung Town · Donating PCs to support the digital environment of Yangcheon District Office and Shinan District Office</div> <div>2023 · 2023 Goheung-gun/Shinan-gun/Sacheon-si/ Yangcheon-gu PC sharing to support digital environment</div>

Value Management



Dohwa provides customized design and top-quality construction management services with minimal impact on the environment. We strictly comply with strict government regulations on safety and health and conduct fair and transparent management following corporate ethics.



Beyond engineering for a better tomorrow

Create the Value, Shape the Future

DOHWA
ENGINEERING