



SMART ENGINEERS' NEST

에쓰이네스트



THINK SMART
PERFORM SMART



SENEST,
Intelligent Civil
Infrastructure Design Expert

About Company

SENest, Smart Engineers' Nest



Ji-hyun Nam
C.E.O. & President

SENest is a differentiated engineering and design consulting group. Equipped with expertise and passion, we always deliver the better engineering services with innovative and efficient solutions. You may expect smarter results.

Last 12 years was an epoch for us for great change. Since the foundation in 2008, we have deepened relationship with our clients. We're working with most of top engineering construction companies in Korea, and now we start directly working with companies in China, Japan, Vietnam, South America and EU. We have broaden our project coverage to 27 countries in South East Asia, Middle East, South America and Oceania.

We believe that our design quality and customer satisfactions are key evaluation criteria to measure our success. Our talented civil infrastructural engineers always try to adopt and develop state-of-the art technology to benefit our clients. Incessant R&D is the key driver of our success.

The Fourth Industrial Revolution is underway. To cope with revolutionary industry changes, we'll focus on technology optimization and the value we create. In the world of more connected, dynamic and customer centric, SENest will keep innovative perspective.

SENest is ready for evolving with our clients.



SENest History

Ideas and Passion!!

SENest was founded in 2008 as a Consultant for Civil Infrastructure Design with a prevailing catchphrase of **“think smart and perform smart”**. With such spirits, we’ve been providing smart solutions in various domestic and global projects.

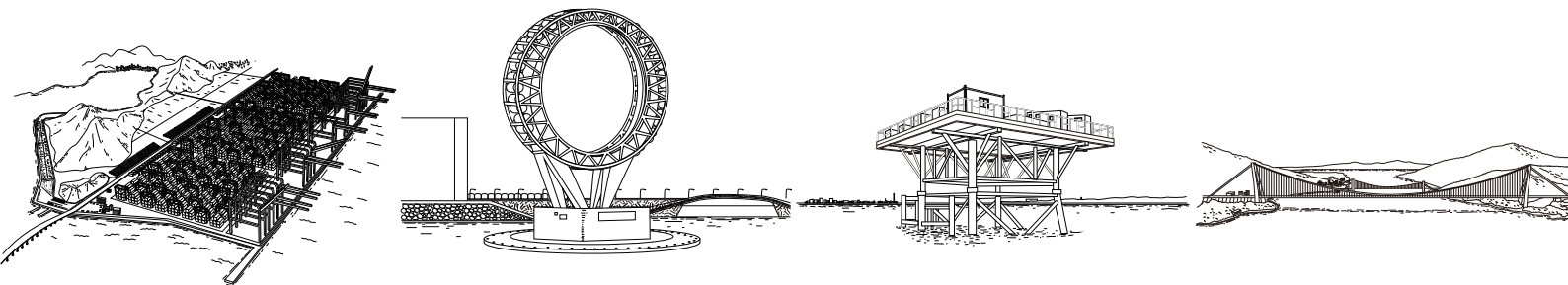
As a unique technology company, we committed to overcome construction challenges and deliver the value-added designs for our clients. With excellence in technology and quick decision making processes, we continued to grow.

We’re expanding our coverage to global locations.

SENest engineers are working around the world in key global markets such as South East Asia, Middle East, South America and Oceania. We’re proud that our project coverage reaches over 27 countries including Korea as of the year 2020.

To be one of global top tier engineering company, we keep going our challenge for Smarter Way!

Jul. 2020	Accreditation A Class of Technical innovation (INNO-BIZ)
Aug. 2017	Accreditation A Class of Technical innovation (INNO-BIZ)
Jun. 2013	ISO9001 Certification of Quality Management System
Dec. 2013	Quality Management Award by Seoul Economy Daily
Nov. 2012	Established SENest-Viet in Ho Chi Minh, Vietnam
Oct. 2010	Opened Vietnam branch office
Jul. 2010	ISO 9001:2008 Certification
Aug. 2009	Opened SENest Technology Institute
Jun. 2008	Registered member of Korea Engineering & Consulting Association
May. 2008	Founded SENest Co., Ltd.



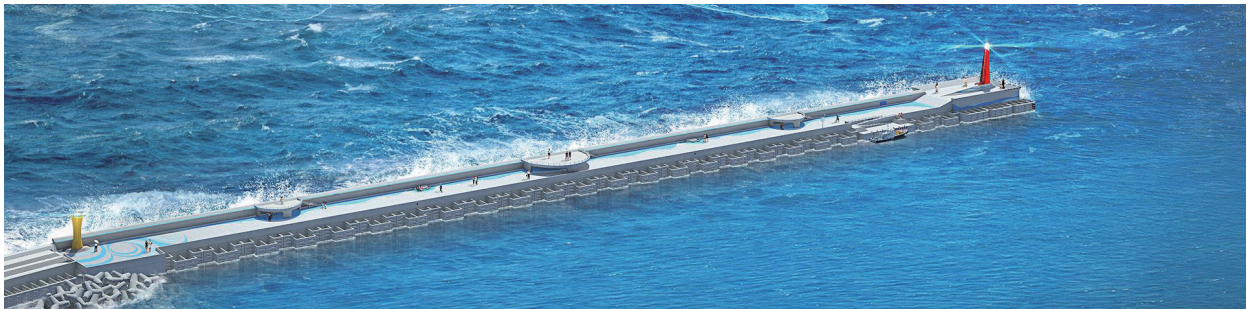
STRUCTURAL ENGINEERING

SEnEst offers value-added engineering services that deliver cost-effective, satisfying construction time frame and high quality performance solutions.

The Structural Engineering Division is equipped with technology leadership brought by talented engineers from various areas such as EPC contractors, design consultants and R&D group. We support our clients at all stages of the Engineering and Construction processes. By considering all of the latest high-tech construction methods, maintenance technologies and sustainability, our engineers try to deliver optimized engineering solutions.

For maritime structure design, we added successful references in Korea, South East Asia and the Middle East. SEnEst proudly claim that we're the No. 1 designer in the world for mega-scale concrete caissons design used for breakwaters or wharf structures. So far we involved design of caissons up to 13,000 tones. We designed lots of mega-projects consisting of pile-support-deck type wharves, oil and gas jetties, and structures in Cooling Water systems. Large scale Concrete Floating Type Berths was designed based on our innovative ideas on the economical design of concrete floating structures applying pre-stressed reinforced concrete technology. The design of Marine Steel Jacket constructed in Pohang Basin in Korea is another achievement of the department.

We have proved our differentiated capabilities in design of bridges and metro structures as well. The Ho Chi Minh City Metro Line #2, Singapore MRT Contracts T706 and T313 are those projects.



Donghae Port Development Ph.3 Breakwater, Korea (2018)



Offshore Platform for CO₂ Injection in Pohang Basin, Korea (2017)



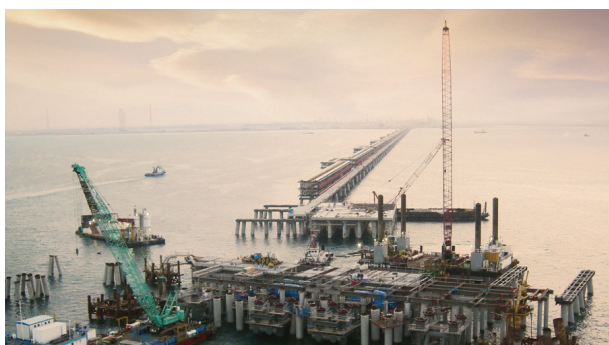
Busan Oil Storage Terminal, Korea (2010)



Mubarak Al Kabeer (Boubyan) Sea Port, Kuwait (2013)



GemaLink Container Terminal, Vietnam (2010)



Ruwais Refinery Jetty, UAE (2009)



Chacao Bridge, Chile (2019, Drawing Development)



Ulsan North-Breakwater Ph. 2, Korea (2009)



Cai Mep International Terminal, Vietnam (2009)



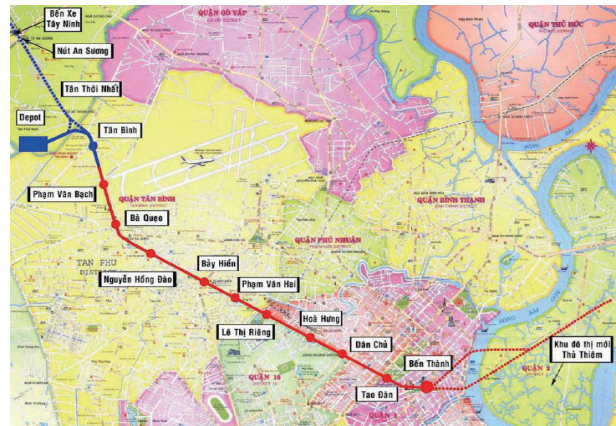
Nakdonggang Restoration Project Unit 23, Korea (2009)



Yeongsanggang River-mouth improvement, Korea (2010)



Incheon International Passenger Terminal, Korea (2016)



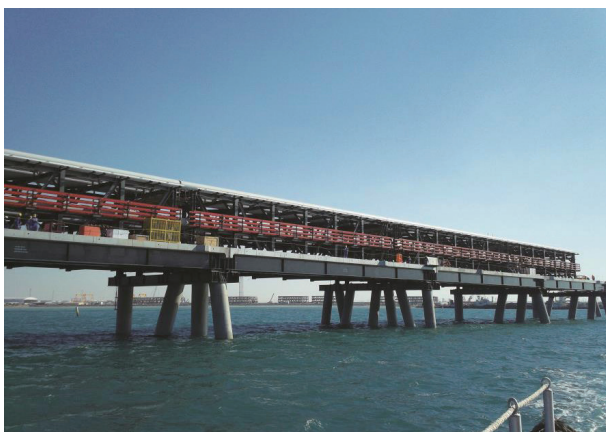
Ho Chi Minh City Metro Line #2, Vietnam (2018)



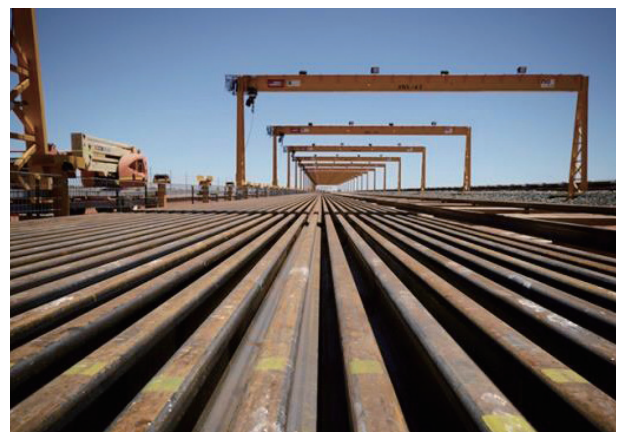
Ulleungdo Sadong Phase 2 Breakwater, Korea (2013)



Yeosu EXPO 2012 Big-O Project, Korea (2011)



Refinery Jetty Project at Ruwais, UAE (2009)



Roy Hill Iron Ore Project, Australia (2013)

MARITIME ENGINEERING

Maritime Engineering Division focuses on providing smart solutions for planning and design of maritime infrastructures including breakwater, revetment and jetties. As specialized engineer's group in mega-port planning and feasibility studies, we are always ready to provide high-quality solutions to our clients by applying innovative but proven technologies worldwide. Based on our experience and accumulated know-how, we ensured the project feasibility and the reduced risks for its implementation.

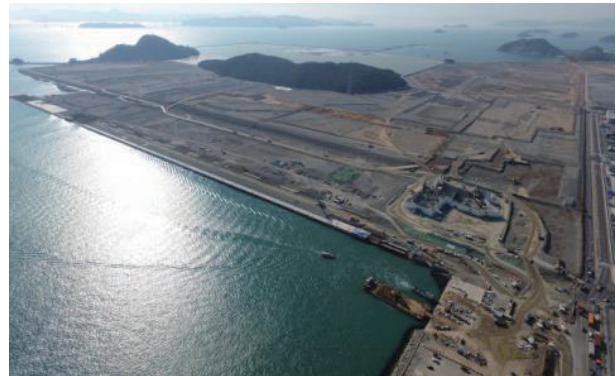
Land Development Team, a team of Maritime Engineering Division, offers a wide range of engineering services for land development projects including industrial land development and civil work design for power plants. By collaborating with Maritime Engineering Division, Land Development Team successfully delivered port yard planning. It completed multiple global projects for supporting industrial land development, container terminals, power plants and petroleum refinery plant construction.

Maritime Engineering Division delivered design for various global projects in South East Asia, the Middle East, Africa and Australia. Container Terminals in Thi Bai River in Vietnam, Nador West Med in Morocco, Finger 1, 2, 3 Container Terminals in Singapore and Tung Chung New Town Extension-Reclamation Project in Hong Kong are benefited from our experiences.

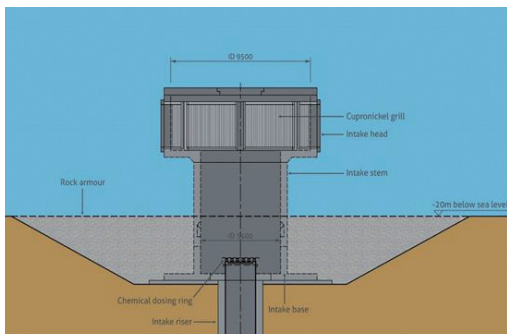
Also our Maritime Engineering put our accumulated expertise in various Busan New Port Projects based on technology excellence and enthusiasm.



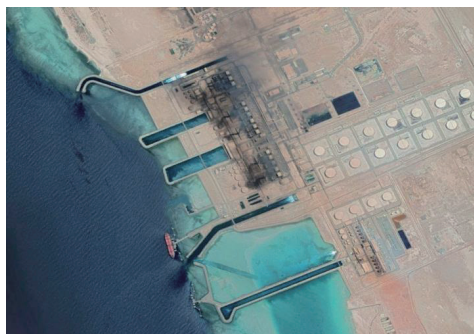
Busan New Port Container Terminal, Korea (2018)



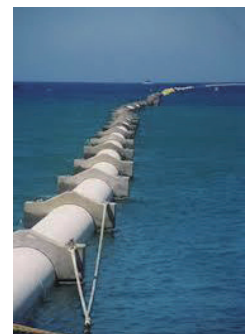
Busan New Port Dredging, Korea (2018)



Cooling Water System



Intake and Discharge System



Seawater Intake Pipeline



Kyungin Ara Waterway Phase1, Korea (2010)



Vung Ang II Thermal Power Project, Vietnam (2020)



Jeddah South Power Plant, Saudi Arabia (2011)



King Salman Dry Dock PKG 4,5,6. Saudi (2017)



Pocheon LNG-based Combined Power Plant, Korea (2014)



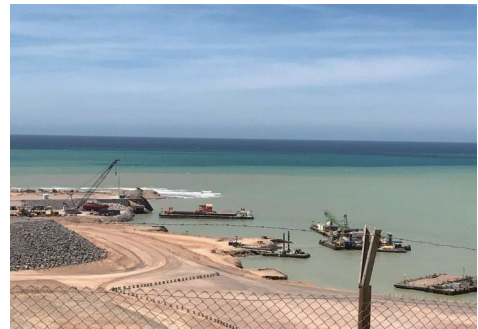
Busan Oil Storage Terminal, Korea (2010)



Suai Supply Base, East Timor (2015)



Mumbai Coastal Road Project (South) , India (2019)



Nador West Med Port, Morocco (2015)



Kimpo Combustible Refuse-Derived Fuel Facilities, Korea (2010)



Asan Mojong Poongi City Development, Korea (2011)

GEOTECHNICAL ENGINEERING

SENEst's experienced Geotechnical Engineers provide special services to manage the geotechnical risks associated with projects. The highly qualified team identifies key technical points which require careful management and evaluates and resolves geotechnical design challenges. Our advanced software tools allow for more refined analyses that ultimately result in cost savings for our clients. Our integrated geotechnical solutions guarantee our clients satisfaction by maximizing stabilities of facilities and minimizing project cost.

We offer a wide range of services including:

- Developing geotechnical investigation and monitoring plan
- Geotechnical design for Shallow foundations and Pile foundations with FEM Analyses
- Slope stability analysis
- Dewatering design
- Retaining walls
- Design for soft soil improvement
- Land reclamation design
- Offshore wind farm foundation
- Seismic design

Recent achievements made by the Division are:

- Tender and Detail design of 14.5 kilometer-long entrance road for the Grand Al Faw port in South of Iraq.
- Tender and Detail Design of Immersed Tunnel Package 1 which will facilitates fabrication of Concrete Immersed Tunnel Segments to construct Al Faw's 2 kilometer-long immersed tunnel connecting Al Faw port to Umm Qasr port.

For the design of the latter project, we had to make smart solutions to overcome challenging site conditions imposed from deep excavation work of very soft ground under high water pressure from underground of the yard which is close to a river.



Al Faw Grand Port, Iraq (2019)



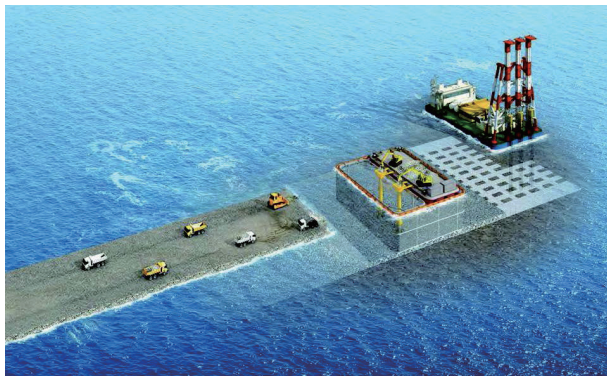
Cai Mep International Terminal, Vietnam (2009)



U.S. Army Camp Relocation Parcel-2A, Korea (2008)



Inland Dike of Braka Nuclear Power Plant, U.A.E (2010)



Busan Song-do Disposal Areas, Korea (2012)



KNPC CFP Site Preparatory Works, Kuwait (2013)



Port Entrance Road for Al Faw Grand Port, Iraq (2019)



Khor Al Zubair Immersed Tunnel Prefabrication Yard, Iraq (2020)

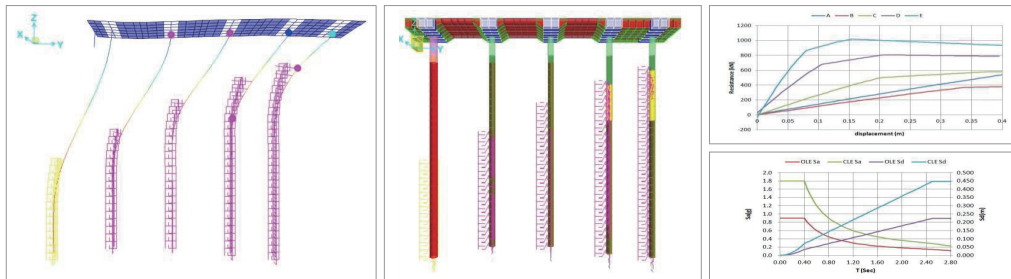
R&D Achievements

Technology innovation is part of key driving forces for our success.

By leveraging our experience, technology excellence and enthusiasm, we devote ourselves to build a better world.

Displacement-Based Design (Performance-Based Design)

Employing the nonlinear pushover analyses and response spectra, the seismic capacities of structures is estimated in terms of ductility.



Foundation Structures for Wind Farm

Study on foundation structures for wind farm such as Pile, Steel Jacket, Gravity type foundations and hybrid type foundations.



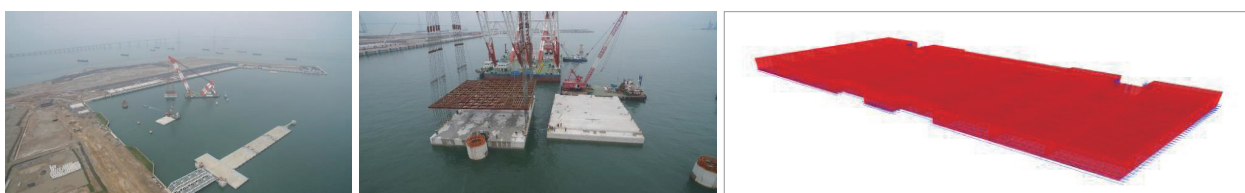
Optimal Design for Marine Steel Jacket

Research on effective design of Marine Steel Jacket as a basic foundation structure of Marine platform and offshore wind farm.

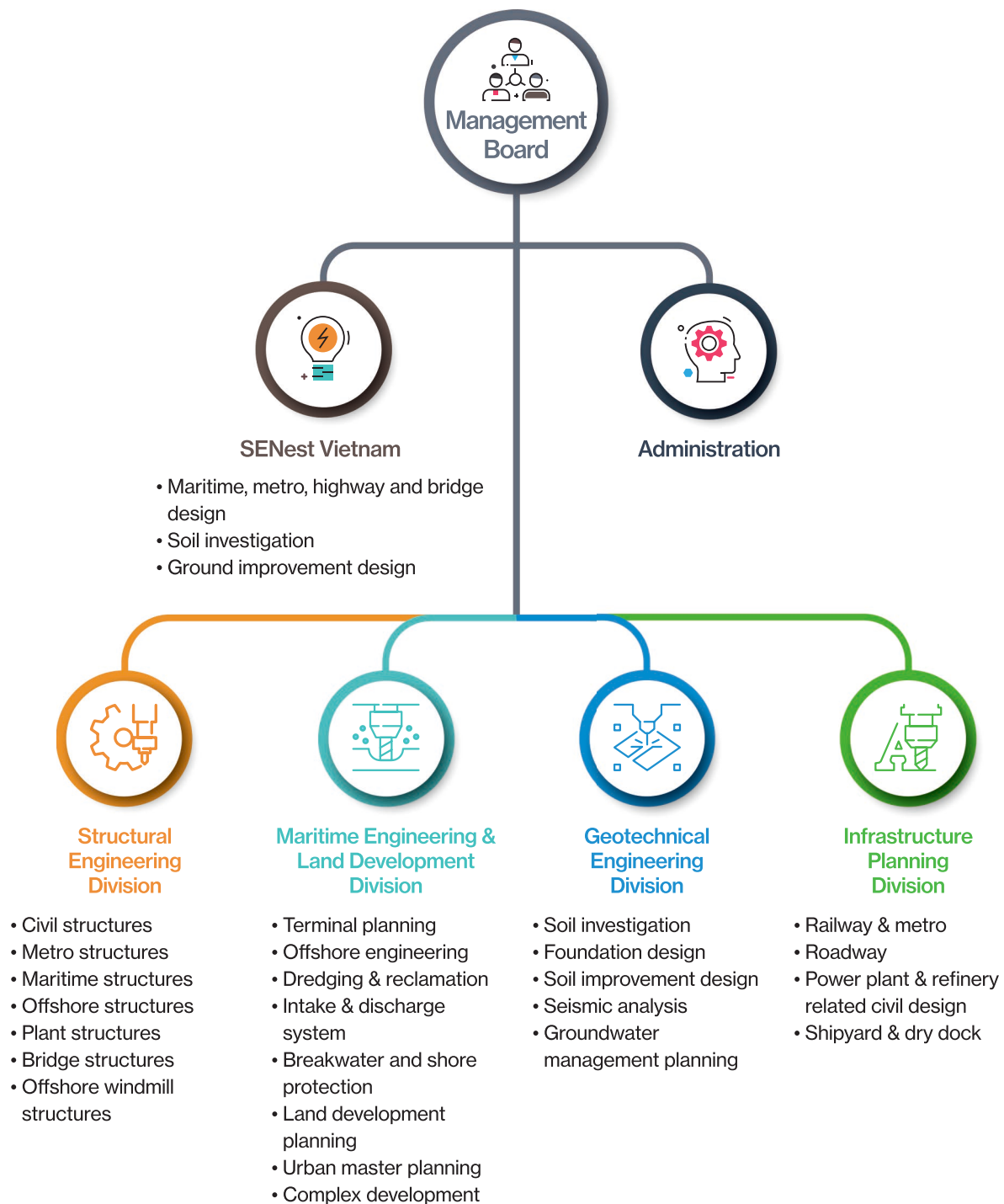


Floating Type Platform

Study on the economical design of concrete floating structure by applying pre-stressed concrete or reinforced concrete technology.



Company Organization



SENest Leadership



Hyung-joo Lee
Vice President

- **Certificate & Education**
Professional Engineer in soil and foundation
Korea University, Ph.D.
- **Work Experience**
Hyundai Heavy Industries
Samsung C&T
Hyundai E&C
- **Major Achievements**
Indonesia Hydrocarbon Jetty
Vietnam LSP Hydrocarbon Jetty
Panama LNG Terminal
Busan New Container Terminal
Hyundai Steel Dangjin Port
Singapore Container Terminal



Young-soo Kim
Vice President

- **Certificate & Education**
Professional Engineer in harbor and coastal engineering
Hanyang University, B.S.
- **Work Experience**
Handong E&C
Hana Engineering
Daeyoung Engineering
- **Major Achievements**
Iraq Al Faw Container Terminal PKG 1,2,3
Singapore Finger 1,2,3 Container Terminal
Morocco Nador West Med Port
Pohang Youngil Bay Breakwater
Busan New Port Project
Dadaepo New Port



Sang-min Lee
Senior Managing Director

- **Certificate & Education**
Professional Engineer in civil structure
Yonsei University, M.S.
- **Work Experience**
Hyundai E&C
Hyundai Engineering
Pyungwha Engineering
- **Major Achievements**
Bangladesh Matabari Power Plant Jetty
Brunei Pulau Muara Besar Bridge
U.A.E. Dubai Eye-Ferris Wheel Project
U.A.E. Khalifa Port Industrial Zone
Daegu Metropolitan Transit Line 3,4
Singapore MRT C711 Project



Won-ho Jung
Senior Managing Director

- **Certificate & Education**
Geotechnical Engineer
Korea University, B.S.
- **Work Experience**
Hyundai E&C
Doosan Engineering
- **Major Achievements**
Qatar Lusail Expressway P003
Gyeongbu High-Speed Railway 6-3
Singapore Pasir pangang Container Terminal Ph.3,4
Hong kong Container Terminal No.9
Seoul Subway Line 9 C912
Singapore MRT C701 Project



Hyuk-chun Noh
Managing Director

- **Certificate & Education**
Structural Engineer
KAIST. Ph.D.
- **Work Experience**
Columbia Univ., post-doctoral research
KRRI, senior researcher
- **Major Achievements**
Design of offshore work platform
AI based engineering big data integrated analysis
support system development
Iraq Khor Al Zubair immersed tunnel jetty
Peru Callao quay wall and Seismic design



Jun-su Ha
Managing Director

- **Certificate & Education**
Professional Engineer in civil structure
Kyunghee University, M.S.
- **Work Experience**
Hyundai E&C
Dowha Engineering
Dong Myeong Engineering
- **Major Achievements**
Bangladesh Jamuna Bridge
Daegu Metropolitan Transit Line 3,4
Sungsoo Grand Bridge
Uganda Jinja Bridge
Myanmar Friendship Bridge



Jae-seong Song
Director

- **Certificate & Education**
SE in Construction Engineers Association
Yonsei University, M.S.
- **Work Experience**
Hyundai E&C
- **Major Achievements**
Turkey the 3rd Bosphorus bridge
Kuwait Al Zour LNG import port
Kuwait Sheike Jaber causeway
Qatar Al Bustan Street South
Taiwan high speed railway project C230



Pil-joo Hwang
Director

- **Certificate & Education**
Kwandong University, M.S.
- **Work Experience**
Handong Engineering
Hanah Engineering
- **Major Achievements**
Iraq Al Faw container terminal PKG2
Vietnam GemaLink container terminal Ph.1
Saemangeum North-South Road (Zone 3)
Jeju Island Naval base
Siwha Tidal power plant project



Tae-gan Kwon
Senior Managing Director

- **Certificate & Education**
Hanyang University, LL.M.
- **Work Experience**
Hyundai E&C
- **Major Achievements**
Libya GMRA 66/33 TL/DL and Substation
Egypt Four Seasons Hotel at River Nile
Kuwait Boubyan Seaport development
Qatar Las Raffan combined cycle power plant
Qatar Lusail Metropolitan Highway

SENest-Viet

Think global, act local!

Pursuing global top-tiers, we've been growing fast in Vietnam and South East Asia.

SENest launched SENest-Viet Co., Ltd. In Nov. 2012. After running a branch office in Vietnam for several years, we recognized that market demands are bigger than expected, so we needed to be more aggressive to address this market. That's the reason why we launched official business entity, SENest-Viet. The Collaboration of two offices, SENest and SENest-Viet, creates synergy in association with technologies and resource management

By building a business network with our clients and local partners in Vietnam as a company outpost of Southeast Asia region, we provide engineering services more effectively and also maximize our clients satisfaction.

Tra Vinh Intertidal Wind Farm Project in Vietnam is one of key achievements of SENest -Viet. With close cooperation of SENest management team, the geotechnical research and site engineering service were delivered for the project. SENest-Viet executed basic design and detail design of maritime structures and took charge of quality control for soil investigation and lab tests to ensure appropriate design parameters were selected.



Tra Vinh Intertidal Wind Farm, Vietnam (2019)



Nghi Son Refinery & Petrochemical Complex, Vietnam (2013)

SENest-Viet Leadership



Pham Manh Du
General Consulting
Manager

- **Certificate & Education**

SE in Geotechnical Engineering
Vietnam Asian Institute of Technology, M.S.

- **Work Experience**

DP Consultant JSC / President of DP Consultant JSC
Portcoast Consultant Corporation (Portcoast)

- **Major Achievements**

Iraq Al Faw Port container terminal
Abu Dhabi Minan Zayed Link Project / Abu Dhabi
Vietnam Cai Mep International Terminal
Vietnam Southern Coastal Corridor Project
Vietnam Saigon International Terminal



Dao Ba Thanh
Head of Structure &
Maritime Div.

- **Certificate & Education**

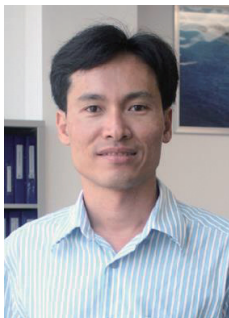
SE in structural engineering
Vietnam National University of Civil Engineering, B.S.

- **Work Experience**

Vinashin Investment Consultant.,JSC
Transport Engineering Design Incorporated (TEDI)

- **Major Achievements**

Vietnam Tra Vinh Wind Farm
Myanmar Feed for Marine Facilities
Vietnam De Heus Feed Mill Vinh Long 2 Extend
Korea CO2 Steel Jacket Structure
Vietnam Nghi Son Refinery Petrochemical Complex



Truong Hoa Binh
Head of Geotechnical
Div.

- **Certificate & Education**

SE in Geotechnical Engineering
Vietnam Ho Chi Minh City University of Technology, B.S.

- **Work Experience**

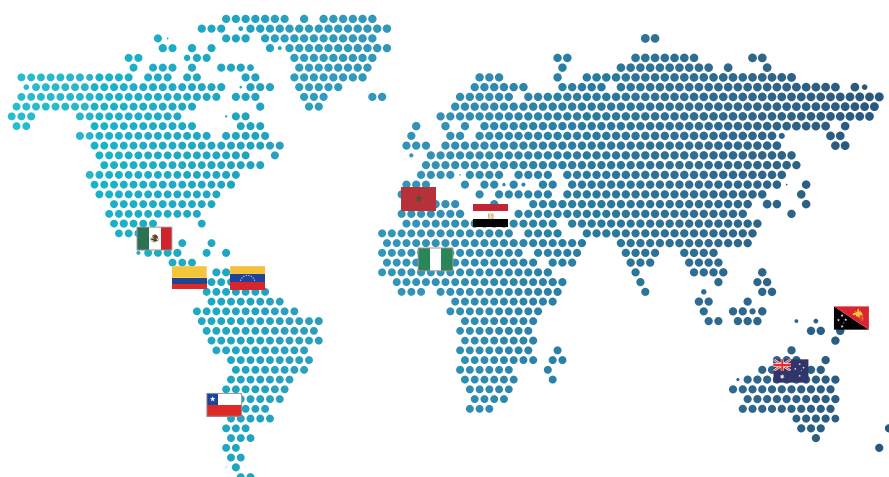
DP Construction Consultant JSC
Anh Vu Geotechnical and Civil Engineering

- **Major Achievements**

Iraq Prefabrication Yard Design for Khor Al Zubair Immersed Tunnel
Vietnam Tra Vinh Wind Farm
Myanmar Feed for Marine Facilities
Vietnam Ho Chi Minh City Urban Mass Rapid Transit Line 2
Saudi Arabia King Salman International Complex for Maritime Industries

Global References of SENest

Over 27 countries all over the world, SENest's elaborate engineering technology contributed to reduce time and project cost. With durable planning and design, we proudly devoted to protect global environment.



Africa

Project	Type of Service	Client	Year
Nador West Med Port, Morocco	Tender design	Samsung C&T	2016
Ayoun Moussa Ultra Supercritical Coal Fired Power Plant (2x660MW), Egypt	Tender design	Hyundai E&C	2016
Early Work for Dangote Fertilizer Project, Nigeria	Tender design	Daewoo E&C	2012

South America

Project	Type of Service	Client	Year
Design & construction of Chacao Bridge Project, Chile	Site engineering	Consorcio Puente Chacao S.A.	2020
PDVSA surface facility project, Venezuela	FEED/EPC design	POSCO E&C	2014
MPX Coal Terminal Project (Phase2), Colombia	Tender design	Samsung C&T	2012
Manzanillo LNG Terminal, Mexico	Detail design	Samsung Engineering	2009

Oceania

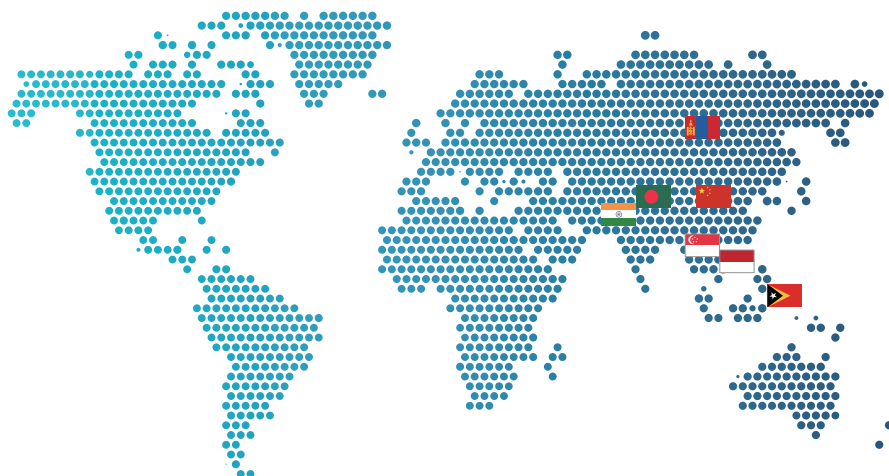
Project	Type of Service	Client	Year
Roy Hill Iron Ore Project Package #3 & #4, Australia	Detail design, site engineering	Samsung C&T	2014
Gulf LNG Terminal, Papua New Guinea	Tender design	Samsung C&T	2012
Roy Hill Iron Ore Project Package #3 & #4, Australia	ECI (Technical review)	POSCO E&C	2012
LAE Port Development Project, Papua New Guinea	Tender design	Samsung C&T	2011

Middle East



Project	Type of Service	Client	Year
Khor Al Zubair Immersed tunnel-prefabrication yard, Iraq	Detail design	Daewoo E&C	2021
Al Faw Container Terminal PKG 3, Iraq	Tender design	Daewoo E&C	2020
Al Faw Container Terminal PKG 2, Iraq	Tender design	Daewoo E&C	2020
Construction of the port entrance roads for Al Faw Grand Port, Iraq	Detail design	Daewoo E&C	2020
Geotechnical interpretative report of Al Faw Grand Port entrance road, Iraq	Detail design	Daewoo E&C	2020
Al Faw Immersed Tunnel PKG1, Iraq	Tender design	Daewoo E&C	2020
Al Faw Port main road, Iraq	Tender design	Daewoo E&C	2019
King Salman Dry Dock PKG 4,5,6. Saudi Arabia	Tender design	Hyundai E&C	2018
Qatar facility D 2400MW IWPP, Qatar	Detail design	Samsung C&T STRUTech	2017
Bahrain LNG Import Terminal, Bahrain	Tender design	Daelim	2015
Tacaamol Aromatics Project, U.A.E.	Tender design	GS E&C	2015
KNPC NRP #5, Kuwait	Tender design	Daelim	2014
KNPC Clean Fuels Project site preparatory, Kuwait	Detail design	Samsung C&T	2014
Emirate LNG Terminal, U.A.E.	Tender design	Samsung C&T	2014
Qatar facility D IWPP, Qatar	Tender design	Samsung C&T	2014
Mubarak Al Kabeer (Boubyan) Sea Port, Kuwait	Site engineering	Hyundai E&C	2013
Infrastructure for Oman Sur Independent Power Plant, Oman	Detail design	Daewoo E&C	2013
Emirates LNG Terminal (Fujairah) Project, U.A.E.	Tender design	Samsung C&T	2013
Conversion of Rabigh V & VII Project, Saudi Arabia	Tender design	Hyundai Heavy Industries	2013
Shuqaiq Steam Power Plant, Saudi Arabia	Tender design	Samsung C&T	2013
Mubarak Al Kabeer (Boubyan) Sea Port, Kuwait	Detail design	Hyundai E&C	2012
Preparatory works for Clean Fuel Project, Kuwait	Tender design	Daelim	2012
Ruwais Carbon Black & Delayed Coker Project, U.A.E.	Tender design	GS E&C	2012
Rewais Refinery Jetty Project (RRE#7), U.A.E.	Tender, detail design, site engineering	GS E&C	2012
Rabigh 2 IPP, Saudi Arabia	Alternative design	Samsung C&T	2012
King Abdul Aziz Port Container Terminal, Saudi Arabia	Tender design	Daelim	2012
Jazan Refinery & Marine Terminal Package 14, Saudi Arabia	Tender design	Daelim	2012
Jeddah South Power Plant, Saudi Arabia	Tender design	Daelim	2012
Az-Zour North Power and Water Plant, Kuwait	Tender design	GS E&C	2010
Design for Inland Dike of Braka Nuclear Power Plant, U.A.E.	Detail design	Hyundai E&C	2010
Borouge III Marine Work, U.A.E.	Tender design	Samsung C&T	2010

Asia



Project	Type of Service	Client	Year
Construction of Matabari Ultra Super Critical Coal Fired, Bangladesh	Site engineering	China Road and Bridge	2021
Matabari Coal Berth, Bangladesh	Value engineering	Yedahm Eng.	2021
Contract CR112, design and construction of Hougang Interchange Station and Tunnels, Singapore	Tender design	Samsung C&T	2021
Contract T313, construction of Xiliu Station and Tunnels for Downtown Line 3 extension, Singapore	Site engineering	Samsung C&T	2021
Line Project PKG 7, Indonesia	Tender design	POSCO E&C	2020
Magnama IPP PJT Jetty civil engineering, Bangladesh	Tender design	Samsung C&T	2019
Mumbai Coastal Road Project (South) Package II, maritime and ground improvement works, India	Detail design	Systra Korea	2019
Plot 2 Eden/Tokai LPG Plant Marine Jetty, Myanmar	Feed design	Toyo Construction	2019
N113 civil engineering design book review, Singapore	Site engineering	Hyundai E&C	2019
Shop drawing work of T307 Station Platform structure, Singapore	Site engineering	Samsung C&T	2019
Tung Chung New Town extension-reclamation and advance works, Hong Kong	Tender design	BK-SCT J/V	2018
Pangil Bay Bridge construction, the Philippines	Tender design	Dasan Construction	2018
Tibar Bay Port, East Timor	Tender design	Hyundai Engineering	2017
Tung Chung New Town reclamation, Hong Kong	Tender design	Samsung C&T	2017
TUAS Terminal reclamation, Wharf construction and dredging phase 2, Singapore	Tender design	Samsung C&T	2017
Construction of Polder at Areas A and C of Pulau Tekong, Singapore	Tender design	Samsung C&T	2017
Ayer Merbau Phase2, Singapore	Tender design	Samsung C&T	2017
Utility work for the proposed development of Changi East to Effect 3 Runway operations, Singapore	Detail design	Samsung C&T	2017
Design and construction of the Suai Supply Base, East Timor	Detail design	Hyundai Engineering	2016
Jawa-1 Combined-cycle Power Plant Project (Mooring & Subsea Pipe), Indonesia	Tender design	Hyundai Engineering	2016
CW for Marina East Desalination Plant, Singapore	Tender design	Daelim	2016
2X600MW Supercritical Power Plant Project, the Philippines	Tender design	Daelim	2016
Ukhaa Khudag – Gashuun Sukhait Railway, Mongolia	Detail design, site engineering (Civil & structure)	Samsung C&T, Seoyeong Eng.	2015

Project	Type of Service	Client	Year
Tekong Construction and Management of Staging Ground and Infilling Works Phase 2, Singapore	Tender design	Samsung C&T	2015
Proposed reclamation at Tuas Terminal Phase 1, Singapore	Tender design	Samsung C&T	2014
Proposed reclamation at Tuas Finger 1, Singapore	Tender design	Samsung C&T	2014
Containment bund (Tuas & Jurong), Singapore	Tender design	Samsung C&T	2013
LNG Terminal 2nd Berth, Singapore	Detail design, site engineering	Samsung C&T	2012
Ayer Chawan Reclamation Phase 2, Singapore	Tender design	Samsung C&T	2012
International Cruise Terminal, Singapore	Tender design	Samsung C&T	2009

Vietnam




Project	Type of Service	Client	Year
Vung Ang II Thermal Power Plant, Vietnam	Basic design	Samsung C&T	2021
Tra Vinh Intertidal Wind Farm, Vietnam	Site Engineering, detail Design	Vestas & Khang Duc	2019
Ho Chi Minh City Metro Line #2, Vietnam	Tender design	Hyundai E&C	2018
Hyosung Vina Chemicals Port, Vietnam	Tender design	Hyosung Vietnam	2018
Ho Chi Minh City Metro Line #2, Vietnam	Tender design	Hyundai E&C	2018
Soft soil improvement for development of Cai Mep Industrial Zone, Vietnam	Detail design	Hyosung C&T	2017
Hanoi Pilot Light Metro Line Project, CP-01, Vietnam	Detail design	Daelim	2014
Long Son Petrochemical Complex Package A & F, Vietnam	Tender design	Daelim	2014
Nghi Son Refinery & Petrochemical Complex project, Vietnam	Basic & detail design	Toyo Construction	2014
Caisson Fabrication Yard for Son Duong Port Phase 1-1, Vietnam	Detail design	Samsung C&T	2012
GemaLink Container Terminal, Vietnam	Detail design	Daelim	2012
Cai Mep International Terminal, Vietnam	Detail design	POSCO E&C	2010

Korea




Project	Type of Service	Client	Year
Donghae Port Phase 3, Light House Construction	Detail design	Daelim	2019
OO Military Unit reorganization design service (17-B059)	Detail design	Daul Eng.	2019
Gangneung Anin Thermal Power Plant caisson fabrication & wharf construction	Tender design	Samsung C&T	2019
Busan New Port Phase 2, Dredging Project	Detail design	KORPEC	2018
Namhae Jeolmyengseo & Habaekdo, Light Signal Construction	Detail design	KORPEC	2018
Busan New Port Phase 2-6, West Container Terminal	Tender design	Sekwang E&C	2018
Pohang Youngil Port, technical review of earthquake impact	Design review	Hyundai Marine & Fire Insurance Insurance	2018
Donghae Port Phase 3, Breakwater (Unit 2)	Detail design	SK E&C	2018
Pohang Municipal Solid Waste Energy System establishment	Detail design	Join Eng.	2018
Concrete floating type berth at Incheon International Passenger Terminal (Phase2)	Detail design	Hyundai E&C	2018
Donghae Port Phase 3, Breakwater (Unit 2)	Tender design	SK E&C	2017
Saemangeum North and South Korea Road Construction Phase 1 (Unit 3)	Detail design	Daelim Industrial	2017
17 Jangbogo Facilities Project -3039	Tender design	Hyein E&C	2017
Ucheon-Soho Road Construction	Tender design	Namyag,Sambo Eng.	2017
CO ₂ Transport System of Coastal CO ₂ Hub Terminal	Basic design	Kongju University	2017
Saemangeum North and South Korea Road Construction Phase 1 (Unit 3)	Tender design	Daelim Industrial	2017
Ulsan South-Breakwater 2-2nd Section	Tender design	SK E&C	2017
Offshore Platform for CO ₂ Injection in Pohang Basin, Marine Steel Jacket	Detail design	Geotec Con.	2017
Incheon Rouwon City Urban Development Project	Design review	Halla	2017
Pocheon LNG-based Combined Power Plant	Tender & detail design	Daewoo E&C	2017
CCS Offshore Platforms (Jacket)	Detail design	Geotec Con.	2016
Detail design for Donghae New Port development (Phase 3-1)	Design review	Daelim	2016
Offshore Marine Platforms for CCS	Detail design	Geotec Con	2016
Concrete base for offshore wind turbine hybrid support structure	Basic design	KICT	2016
Hybrid Foundation of offshore windfarm	Conceptual & basic design	KICT	2016

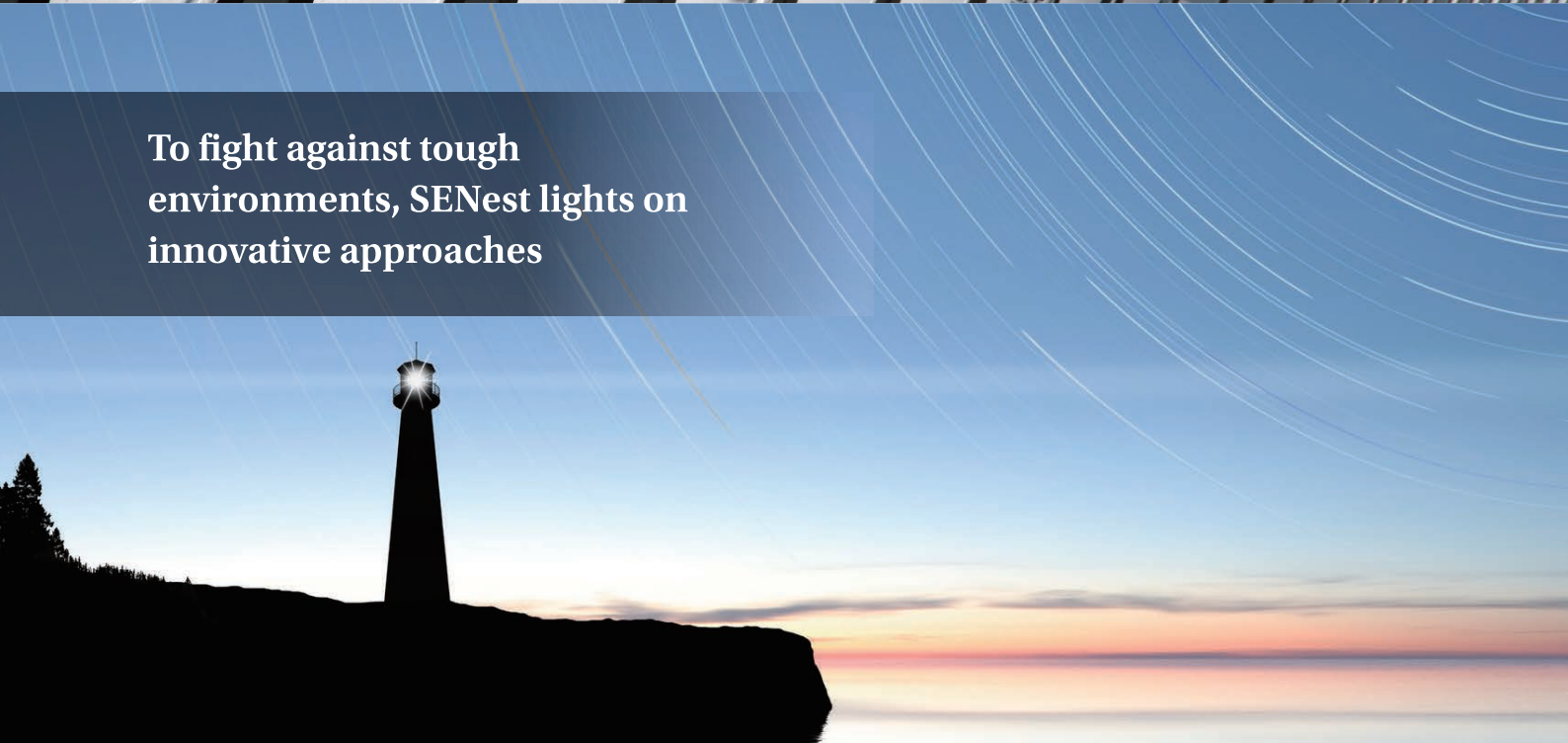
Project	Type of Service	Client	Year
Construction of CO ₂ Marine Transport System and Marine Steel Jacket	Tender design	Kongju University	2016
Ulsan South Port seawall	Alternative design	Daewoo E&C	2016
Marine Infrastructures for Ulleung Airport	Basic design	Dohwa Eng.	2016
Donghae Port Phase 3 North-Breakwater (Unit 2)	Alternative design	Hyundai E&C	2016
Offshore platform for CO ₂ injection	Basic design	Hyundai E&C	2015
Kimnyeong Wind Power Farm Generation Unit(Civil Work)	Detail Design	GS E&C	2015
Costco Wholesale construction	Detail design	Corearth ENG.	2013
Ulleungdo Sadong Breakwater (Phase 2)	Alternative design	Daelim	2013
Ulsan South-Breakwater (Unit 2-1)	Tender & alternative design	Daewoo E&C	2013
Gageodo Breakwater	Design review	Samsung C&T	2013
Incheon Port International Passenger Terminal (Phase2)	Tender design	Samsung C&T	2013
Pocheon LNG-based Combined Power Plant	Tender design	Daewoo E&C	2013
Integrated construction of Korea LH Corporation's Information Management System	System buildup	SK C&C	2013
Hwayang Grand Bridge	Detail design	Hyundai E&C	2013
Busan Western Container Pier 2-5 Construction	Technical review	Daelim	2012
Marine works for Yeonggwang-haeje Express Way construction	Alternative design	Dasan Consultants	2012
Busan Song-do Disposal Areas	Tender design	Samsung C&T	2012
Songsan Green City development (Unit 1)	Basic design	Dowha Eng.	2012
Asan Mojong-Poongi City development	Review & VE	Asan City Development Association	2011
Ulsan New Port North-Breakwater (Unit 3)	Tender design	Samsung C&T	2011
2012 Yeosu EXPO Big-O Project	Detail design	Hyundai E&C	2011
Kyungin Ara Waterway Project Phase 1 facilities	Alternative design	Hyundai E&C	2011
Busan Oil Storage Terminal	Tender & Detail design	Samsung C&T	2011
Combustible Refuse-Derived Fuel Facilities of Gimpo	Basic design	Daelim	2010
Yeongsanggang River-mouth weir structural improvement	Basic & Detail design	GS E&C	2010
YeoSu Oil Storage Facilities Project (Package 2)	Tender design	GS E&C	2010
Nakdonggang Restoration Project (Unit 23)	Detail design	Daelim	2010
08-301-1 Jeju Naval Base-Breakwater (Unit 1)	Tender & Detail design	Samsung C&T	2010
Abhae-Amtae Highway Construction (Unit 2)	Tender design	Samsung C&T	2009
Hoengseong Culture & Sports Park development project	Basic design	Heongseong-Gun	2009
Ulsan North-Breakwater (Unit 2)	Tender & Detail design	Samsung C&T	2009
Gohyun-hadong IC2 Highway Construction	Alternative design	GS E&C	2009
Iksan Environment & Resources Facilities	Basic & detail design	Daewoo E&C	2009
US Army Camp Relocation Parcel-2A & 2B (Unit 1)	Tender & detail design	Samsung C&T	2009
Kimhae Industrial District development	Design VE	Daewoo E&C	2008
Ulsan North-Breakwater (Unit 1)	Alternative design	Samsung C&T	2008



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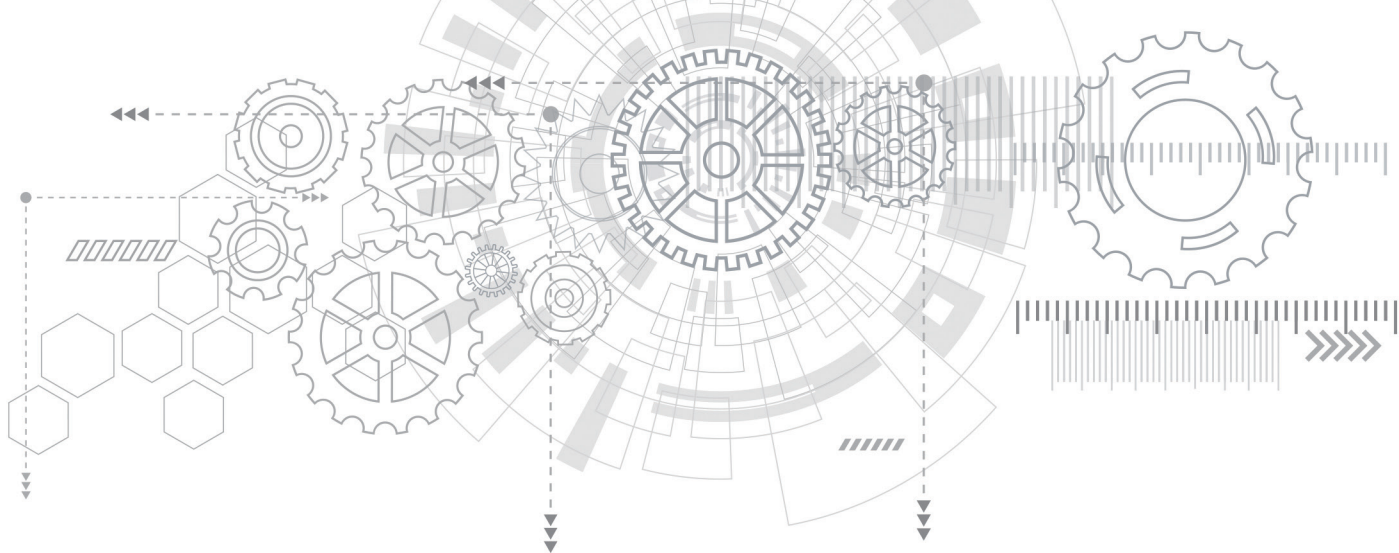
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