## Best Partner, First Company





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#### GS E&C Way Global Way Best & First Way CEO's Message GS E&C & GS Group R&D Digitalized System Business Area GS History Construction Performance Housing Architecture Power Plant Environment Development Leisure Major Reference Global Network Epilogu

# GS E&C Way ...

We take the challenges none would dare to consider The global company of GS E&C is opening the door to new worlds.

Best Partner & First Company















## Global Way ...















Great architecture stands the test of time

and becomes a part of our collective spirit and the history of humanity. With our world-recognized architectural technology, GS E&C is taking the challenge to recreate living culture in over 300 construction sites worldwide.

GS E&C's dream of being the "global best" will become reality.

# First Way...

The people who boldly took the challenge to

forge a new road have made the history of the world. GS E&C is not satisfied with the honor of being the best construction engineering company in Korea but is forging on with the next generation of architectural culture. With a new spirit of creativity, the history of GS E&C becomes the history of Global First.



Think Different - It's the GS E&C Way



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Think Different - It's the GS E&C Way



# We sincerely thank our customers who have come to love and support GS E&C.

Since its establishment in 1969, GS E&C has continued its brilliant growth on the basis of a balanced business portfolio of industrial plants, electric power generation, environmental, civil engineering, construction and housing projects and is standing tall as the super excellent construction company of Korea.

We are preparing the foundation to transform into the Global Leading Company through the continued fostering of talent, the securing of technological power and a bold spirit of challenge.

Dear Customers.

Now GS E&C is making a new start in its quest to become a true super excellent global company that leads the construction culture in Korea and competes with world-class construction companies.

We will secure global capabilities and fire up future growth businesses in the environment and energy-related business sectors and seek out continued investment and technological development. At the same time, we will maintain stable growth through systematic risk and business management.

GS E&C promises to remain true to our role as the best business partner providing total solutions through endless R&D and innovation.

We are putting top priority on providing our customers the quality and value.

Thank you.

CEO | Myung-Soo Huh / 5. /f-







As the representative global company of Korea, GS Group has become a super excellent company composed of numerous affiliate companies in the fields of construction, energy, distribution, banking, and local overseas incorporations all over the world. GS Group is now energetically surging forward to become the No. 5 in Korean business circles achieving KRW 2 trillion of net profit, and the most respected "Value No.1" enterprise ranking. We are developing new businesses and expanding global projects on the road to 2010.

Now is the time to keep your eyes on the GS Group who is climbing higher peaks in a broader world.



#### Symbol

The symbol represents construction, dynamism of energy business, growth and vigor of the distribution/service business

Orange: Energy, Dynamism, Sun, and Enthusiasm

Green: Environment, Land, Unlimited potential, Growth, Strong will, Support

Blue: Leadership, Excellence, Solidity, Sky, and Creativity

#### Logo

Our logo represents GS group's commitment to customer satisfaction in the forms of Good Service, Great Satisfaction, Great Solution and Great Success, etc.



### **GS Group**

GS E&C

GS Holdings

GS Caltex (Petroleum)

GS Retail (Department Stores, Convenience Stores, Supermarkets, Marts)

GS Home Shopping (Online Shopping, Home Shopping)

GS EPS(Power Plant & Development)

GS Sports (Pro Soccer-FC Seoul)





### Long-term R&D strategies - 3I

#### 1. Innovation

The core technologies for promising future businesses including new cities, next-generation infra, energy and environmental fields are being sought out and secured.

#### 2. Incubation

The basis for successful advancement into new business sectors is established by utilizing technology-intensive promising future business in an Incubation process that secures the capabilities of basic and detailed design by working in concert with business divisions.



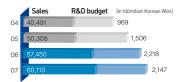
#### 3. Improvement

We are making efforts to secure global technological competitiveness in automated construction, modulation, high-tech fusion technology and in other areas to raise the standards of productivity and safety in the construction industry and to develop the construction industry into a high value-added industry.

#### Status of R&D investment

As a leading company in construction area, GS E&C has continued to expand R&D investment to discover future growth engines. As a result, in the ranking of R&D investment of Korean companies in 2005, the company was ranked 1st among construction companies and 14th among all listed companies.





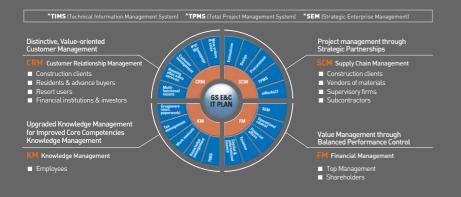
|                                 | GS E&C Research Institute |                                |  |   |  |  |   |                       |
|---------------------------------|---------------------------|--------------------------------|--|---|--|--|---|-----------------------|
| Environment experiment building | -                         | Clean room experiment building |  | Residential environment experiment building |  | Materials and construction equipment experiment building | l | Subsidiary Facilities |

• Site area: 20,174 pyeong / Building area: 1,803 pyeong (Total floor area 5,579 pyeong) / Location: 417-1, Deokseong-ri, Idong-myeon, Cheoin-gu, Yongin, Gyeonggi-do, Korea

# Digitalized System

### **GS E&C Systems Today**

The company's digital (online) management systems are separated into customer relationship management (CRM), supply chain management (SCM), knowledge management (KM) and finance management (FM). Customer relationship management is subdivided into (1) corporate customers for the housing, architecture, civil engineering, and plant businesses, and (2) individual customers such as persons with resort memberships. The optimal CRM system is designed to accommodate the needs of customers in each segment.



#### **Future Direction**

To enhance operational efficiency, GS E&C has built optimal networks between the Head Office and construction sites, inside and outside Korea. Links to all construction sites are subject to security controls 24 hours a day. The company has used this platform to complete a consolidated construction data system for everyday operation. The next step is to become a real-time enterprise to assist strategic decision making.

#### Offering the Ultimate IT Solutions to Achieve Vision 2015





#### **TPMS Realizing Cost Innovation**

#### Daily Work Management

Daily work management entails planning and supervising work to be carried out onsite for each day. GS E&C has categorized all of the projects it has completed according to the work types and standardized the daily works of each type of projects as a Task. When a new project is taken on, a project manager formulates a master work schedule and sets up the task process and schedule in collaboration with subcontractors in accordance with the master plan. Then, conflicting Tasks are adjusted and resolved in advance of any anticipated problems

#### Material Management

TPMS material management operates under the JIT principle which states that the right amount should be delivered to the right place at the right time. The material information is linked to the detailed activity and in accordance with the work schedule, the orders for the required materials are sent to the vendors via a B2B system. The materials are delivered to the site at exactly the expected time. In the case of rebar, it is managed systematically from shop drawings to installation on the site by G5 E&C's own rebar processing plant and TPMS.

#### Manpower Management

TPMS using RFID technology enables us to keep a close tab on the mobilized worker status and reduces the risk of safety accidents by restricting entrance of the safety offender to the site. It also helps establish an accurate manpower mobilization plan by calculating the productivity per worker automatically.

#### Portal Site

A customized portal site provides information and menus according to the users' needs, making it possible to share project information via TPMS. Finally, TPMS plays a role in collaboration binding every project stakeholder such as client, subcontractor, general contractor and supervisor etc.

In 1996, GS E&C became the first in the industry to adopt a Project Management System using EVM(Earned Value Management) to link schedule with profit/loss. In 2006, the TPMS(Total Project Management System) was completed by adding the concept of Lean Construction and JIT(Just In Time) to the Project Management System. This was done with the purpose of reducing waste and optimizing work processes.

This has been implemented on all sites and has enabled drastic increase of productivity. TPMS is an innovative integrated management system that enables RTE by managing the status and performance of construction sites.

#### Daily Work Management







Seamless Project Execution

Client Subcontractor



GS E&C BUSINESS AREA IS INFINITY

#### Plant

- Petrochemical
- Oil & Gas

#### Housing

- Apartments
- Residential Complexes & Studio Apartments

#### Civil

- Underground Spaces & Railroads
- Roads & Bridges
- Dams, Harbors & Development

## Architecture - Office Building

- Education, Research & Hospitals
- Culture, Leisure & Sports
- Clean Rooms & Manufacturing Facilities Nuclear Power Plant
- Logistics & Remodeling

#### Power Plant

- Combined Cycle Plant / Thermal Fired Power Plant
- Co-generation Plant / District Heating

#### Environment

- Waste Treatment & Recycling
- Water & Sewage
- Wastewater Treatment

#### Development

- Development

### Leisure

- Resorts

- Golf Courses & Hotels

# GS E&C HISTORY IS GOING ON



• Lakhee Development Co., the origin of GS E&C. was established



1982

 Awarded U\$ 1 billion Construction Export Tower for overseas construction. Established a local incorporation in the U.S.



Construction Co., Ltd.

The company's name was changed to LG

 Acquired Certificate of ISO 9001 International Quality Management Standard.



 Seohae Grand Bridge received a Presidential Award.
 The Xi apartment brand was launched. Awarded the best business manager prize in (97

construction management Grand Prize) by The Korea Management Association Corporation.Standard.



 Awarded for corporate PR in World Advertisement Grand Prize International Quality Management Standard.

2005

• The company's name was changed to GS E&C Co., Ltd. (GS Group officially launched.)

• Selected as a company of good corporate governance by Korea Exchange.



 Ranked as the 31st construction company in the world for 2 consecutive years by ENR (Engineering News-Record) in the U.S., a world-famous construction magazine.



ÁN ĐƯỜNG TÂN SƠN NHẤT REAKING CEREMONY OF TAN SON NHAT

2008

• Ground-breaking ceremony for the TBO road in

• Ranked No. 1 in the First Brand Grand Prize for consecutive years with 'X

#### 1969~1993

1969 Lakhee Development Co. was established

1975 The company's name was changed to Lucky Development Co. Ltd.

1977 Lucky Overseas Construction Co., Ltd was established.

1979 Lucky Overseas Construction Co. was merged. / Appointed as a housing construction company by the Ministry of Construction.

1981 The company was opened to the public.

1983 A joint incorporation of Lucky Development (Arabia) Ltd. was established.

1984 Awarded U\$ 1 billion Construction Export Tower for overseas construction. / A joint company in the U.S., Lucky Development International Inc. was established.

1989 A local incorporation in Saipan, Lucky Development Inc., was established. Nision 21C was established to be 'No. 1 General Developer in Korea' / Global General Constriction Company

1991 Acquired construction license in Japan. / Received a medal of merit for exemplary tax payment on '1991 Tax Day' | The company history of '20 Years of Lucky Development' was published.

1992 Granted a patent for retractable screens for the construction of variable walls in an apartment complex. / Appointed as No. 1 Company for disaster prevention among the 30 largest construction companies. 1993 Granted a certificate for the capabilities to build atomic power plant facilities by the American Society of

A local incorporation in Bangkok, Lucky Thai Engineering Construction Co., Ltd., was established. Granted a patent for garbage burning devices that uses counter flow Rotary Kiln.

#### 1994~2000

1994 Acquired Certificate of ISO 9001 International Quality Management Standard.

"Korean-style garbage burning system for medium and small cities" technology acquired KT mark. Signed an agreement with China Construction Process Co. for cooperation.

1995 The company's name was changed to LG Construction. / The beginning of the year for 'Creation of a new construction culture' was announced. / The company's own supervision team was formed for the first time in Korea.

1996 "Goyang-Hwajeong LG APT" was selected in the "Good APT Contest" held by Maeil Economic Daily. "Suwon LG Village" was selected in the 'Hit Products in 1996 First Half' held by Seoul Daily. Acquired certificate of ISO 14001 Environmental Management System.

1997 "Busan Haewundae LG APT" was selected in the 'Good APT Contest' held by Maeil Economic Daily. "LG Chemica's Daedeok Research Center" was awarded the grand prize in the '97 Korea Construction

Awarded in 6 areas including the Top Manager Prize in the '97 Construction Management Grand Prize' held by Korea Management Association Corporation.

1998 "Korea Polymer Building" was awarded in the '98 Korea Construction Culture Grand Prize' LG-HP SUNFLOWER INTERNATIONAL VILLAGE was awarded by Vietnam Haipong People's committee. Appointed one of the 30 superior companies in The 2nd Company Computerization Grand Prize' held by the Ministry of 2003 LG Construction declared the "VISION 2010" Information & Communication.

1999 LG Construction merged with LG Engineering. | Awarded a grand prize in the APT section in the good companies chosen by female consumers.

2000 The 'BIO-NET' construction method for sewage treatment was appointed as a new technology by the Ministry of Construction & Transportation. | Seohae Grand Bridge received a Presidential Award.

#### 2001~2003

2001 LG Construction was appointed by The Korea Stock Exchange as the best exemplary company in

The construction work for the expansion of Donghae Expressway was awarded a Presidential Prize. Appointed as a Hit Product during the 2nd half of the year in APT division by the Daehan Daily Newspaper. Awarded for corporate PR in World Advertisement Grand Prize.

LG Village in Suji, Yongin city, was awarded in the gardening division in the Contest for the 1st Eco-friendly Tree-planting Landscape.

Bucheon Sang-dong APT for government officials was awarded the prize for exemplary construction sites. 2002 Uljin-Jukbyeon road construction site was awarded by the Director of Busan National Land

Balan-Banwol road construction site was awarded by the Minister of Construction & Transportation. LG Construction was awarded a silver industrial medal of merit for exemplary tax payment. LG Construction was awarded a Presidential prize on the Day of Housing Construction. Korea Electricity Building was awarded an architectural prize by Seoul City.

Appointed by Korea Stock Exchange as a superior exemplary company for corporate governance. LG Construction received the "Award for Cyber IR" in the 5th Environmental IR Grand Prize.

LG Construction was awarded the "First prize in construction/cement division" in the 1st Money Today IR Grand Prize.

- 2004 Awarded a grand prize in the construction division in "2004 Environmental Management Grand Prize". LG Construction was appointed by Korea Stock Exchange as a superior company for corporate governance. LG Construction received the "Award for Cyber IR" in the 6th Hankyung Environmental IR Grand Prize. LG Construction was awarded the "First prize in construction/cement division" in the 2nd Money Today IR
- 2005 The company's name was changed to GS E&C Co., Ltd. (GS Group officially launched.) and the company was ranked 1st in global customer satisfaction competency index (GCSI). Ranked 1st in the APT division in 2005 Korea Standard Service Quotient Index. The restoration project of Cheonggyecheon Stream in Seoul was awarded "silver industrial medal of merit". Awarded "General Grand Prize" in the 1st Grand Prize of Korea Civil Engineering & Construction.
- 2006 Received an appreciation plaque for achievement of U\$ 200 billion in receiving orders in overseas
- 2007 Ranked as the 31st construction company in the world for 2 consecutive years by ENR (Engineering News-Record) in the U.S., a world-famous construction magazine. Awarded a "Gold Tower Industrial Medal of Merit" on Tax Payers" Day. Achieved KRW 10 trillion in receiving new orders. Awarded the "Best Business Management Company in Asia" by 'Asia Money'.
- 2008 Construction of TBO road in Vietnam started. Awarded the General Grand Prize in construction & industrial plant division in the 1st Korea Construction Quality Grand Prize.

Awarded the 'Medal of merit for paying more than KRW 100 billion in tax on the 42<sup>rd</sup> tax payers day'.

**Business Area** 





#### Plant

-LAB

Lidong Aromatic

ΩPIAR

Oman Polypropylen

ATC #2 Aromatics

\_G-Dow Polycarbonate

QP Refinery Expansion

KNPC OCR Revamp of ARDS Unit

Kirikkale DHP-CCF

TPI 150,000BPSD Refinery (REFY-I

## Build a New Tomorrow...

We are bringing affluence to the world with the factories that we have built with our own hands.

We are making the world happier with technologies that transcend national boundaries.

What GS E&C builds is not merely a factory but a new tomorrow.



Plant





Location: Alexandria, Egypt
- LAB 100,000 MTPY
Project period: 2006. 02~2008. 07









## **P**etrochemical

#### A reliable partner with extensive experience in petrochemical plants

With our unique and extensive experience, GS E&C is recognized both home and abroad for superior capabilities in petrochemical plants based on refined technologies and know-how. In Korea, we have carried out numerous construction projects including the Ethylene, PP, Phenol/BPA and OCU complex for LG Petrochemical Co., Ltd., PP and BTX complex for GS Caltex, and the Polycarbonate complex for LG-Dow. At abroad, we built the PP complex for Epsilon in the U.S., the EB/SM plant for TP in Thailand, VCM for TPC Co., and PA/PP complex in Indonesia. We take special pride in the construction of the VCM/PVC plant in Saudi Arabia, which at the time was the largest factory in the world, along with the PP complex in Oman and the Aromatics project in China. Currently we are building the HMC PP in Thailand, the Aromatics and Salalah Methaol project in Oman which is a mega project of U\$13 billion.











#### 002P Lidong Aromatics

Location: Lidong, China - P-xylene 700,000 MTPY

- Benzene 240,000 MTPY
- Toluene 160,000 MTPY

Project period: 2004. 06~2006. 07

003P QP LAB Location: Mesaieed, Qatar - LAB 100,000 MTPY Project period: 2004. 01~2006. 04

#### 004P Oman Polypropylene

Location: Sohar, Oman - Pdypropylene 340,000 MTPY Project period: 2004. 06~2006. 09

#### 005P ATC #2 Aromatics

Location: Map Ta Phut, Tailand
- Benzene 362 KMPA
- Toluene 66 KMPA

- Para Xylene 622 KMPA

Project period: 2005. 08~2008. 10

#### 006P LG-Dow Polycarbonate

Location: Yosu, Korea

- Polycarbonate 65,000 MTPY

Project period: 1999. 11~2001. 02







## Oil & Gas

#### A new frontier in overseas plant projects

GS E&C advanced to the world stage in the early 1990s and its capabilities are being recognized all over the world with the successful completion of a multitude of projects including the Baku Refinery in Azerbaijan, the Condensate Splitter Plant/LBOP for TPI Co. in Thailand, the RFCC for CPC Co. in Taiwan, the GOD for KNPC in Kuwait, the Catalytic Dewaxing for IOCL Co. in India, the U\$ 700 million NODCO Refinery for QP Co. in Qatar, and the Izmir, Izmit and Kirikkale plants in Turkey. Based on our stellar construction performance both home and abroad, the company is currently carrying out overseas projects such as the New Refinery in Kuwait which is the largest oil refinery project in the world and the Green Diesel Project in UAE as well as many domestic oil refinery projects including the No.3 HOU plant following the No.2 HOU plant for GS Caltex. In addition, the company is putting spurs to the overseas gas plant business as its core strategic business engine and taking the opportunity of the 9-10 stage work of the South Pars gas field development project, which is a U\$2 billion super project ordered by NIOC in Iran. Also currently underway is the Manifa Gas Facilities project in Saudi Arabia.



#### 007P QP Refinery Expansion

Location: Mesaieed, Qatar

- Refinery Revamping Project
- CDU 70,000 BPSD
- Naphtha HDT 23,000 BPSD - CCR 12.300 BPSD
- Kero-HDT 11,223 BPSD
- GO-HDT 17,000 BPSD
- LPG Recovery 5,960 BPSD
- PENEX 9,625 BPSD

#### FCC Complex Project

- Light FCC Gasoline Merox11,000 BPSD
- FCC C3/C4 Merox 7,000 BPSD
- Catalytic Polymerization & Hydrogenation 8.000 BPSD
- Heavy FCC Gasoline
- Hydrofinisher 5.500 BPSD
- LGO Hydrotreater 4,850 BPSD

#### Condensate Refinery Project

- CDU 27.000 BPSD
- Naphtha HDT 16.000 BPSD
- CCR 10,500 BPSD
- Hydrotreater 21,000 BPSD - CAP Condensate Splitter 30.000
- BPSD
- Sulfur Recovery & Sulfer
- Handling 70 x 2(T/D)

- Offsites & Utilities

Project period: 1999. 01~2002. 03

#### 008P KNPC OCR Revamp of ARDS Unit

Location: Mina Abdulla, Kuwait - 66,000 BPSD ARDS →

84,000 BPSD ARDS

Project period: 2002. 11~2004. 10

#### 009P Kirikkale DHP-CCR

Location: Kirikkale, Turkey

- CCR 22650 BPSD
- DHP 28000 BPSD
- SRU.ARU.SWS.TPP.C.T

- Utilities, Offsite Project period: 2005. 01~2007. 07

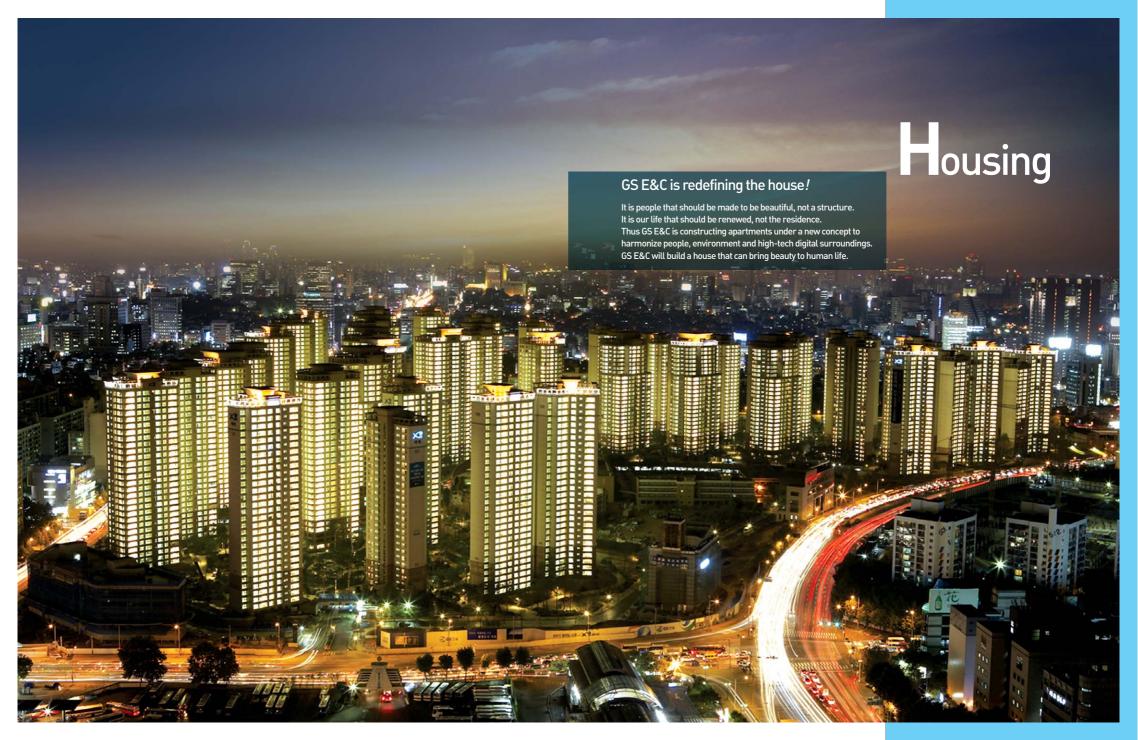
#### O10 PTPI 150,000BPSD Refinery (REFY-I)

Location: Rayong, Thailand

- CDU 150,000 BPSD, LPG Sweet 5,500 BPSD

- Gas Con. 5,600 BPSD,

Sour Water Stripping 30 m²/hr, Stripping 30 m²/hr Project period: 1996. 07~2000. 11





### Housing

BanPo Xi

HanKang

Heights )

Yang Ju X

ChungAm )

lsan X

SongDo Xi Harbor View

Hwangsil)

Yeouido X

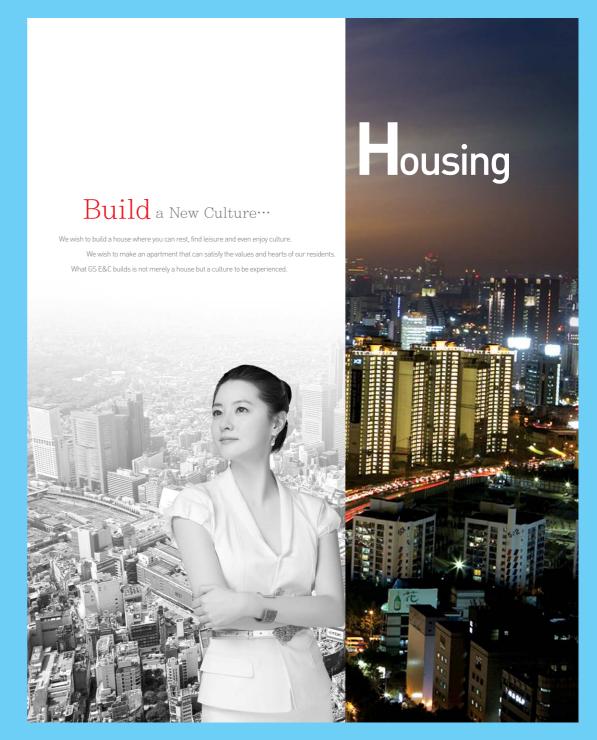
SooCho Art V

SeoGvo Xi

YongSan Park X

The City Seven Xi

Routique Monaco





#### 001н BanPo Xi

Location: Seoul, Korea - Housing units: 3410 Project period: 2006. 04~2009. 01











## **A**partments

#### Classy apartment complexes take the lead in high-quality residential culture

GS E&C began to construct apartments in the 1970s nationwide, and we have led the housing industry and residential culture in Korea. In September, 2002, the company began a new challenge to be the No. In the housing area by introducing the new brand 'Xi' to replace the existing 'LG Village'. Xi' has gained fame as a classy apartment with a high-quality external appearance, stylish interior design, high-tech digital systems. Xi' is a pleasant complex that harmonizes nature and its surroundings with convenient amenities and a cultural life. As a result, the brand has grown rapidly after launching the premier apartment brand in Korea. GS E&C has supplied apartments to all major cities in Korea including Seoul, Yongin, Suwon, Daejou, Dusan and Gwangju and also is showing excellent performances in the area of reconstruction and redevelopment. The company has become a strong player in the area of reconstruction and redevelopment by winning the right for reconstruction in core regions in Gangnam including Dogok, Jamsil, Gaepo and Bango Jugong APTs. In addition, in the metropolitan regions including Poil Jugong in Euwang and Cheolsan Jugong in Gwangmyeong and also by the swift advance into the redevelopment market by receiving orders in Gyonam 1 district and Daeyeon 5 district. GS E&C will continue to create the residential culture of the future and fostering the most desired apartment brand for our customers through endless technical innovation and R&D.



"Xi", the name of the highest-standard apartment complex | An abbreviation of eXtra Intelligent, Xi symbolizes the apartment complex chosen by those who are a head of others. Xi is not just a residential space but is a high-level, value-centered living space that takes into consideration the values and sensibility of the resident. 6S E&C pursues to lead the high-quality residential culture by creating the new concept of residential space with added values of aesthetics, culture, and up-to-date technology, by serving our customers as special guests by providing attentive and dignified service, and by providing graceful lifestyle and high-standard cultural experience.











#### 002н HanKang Xi

Location: Seoul, Korea - Housing units: 656 Project period: 2000. 05~2003. 04

003н Heights Xi Location: Busan, Korea - Housing units: 651 Project period: 2004. 12~2008. 03

004H YangJu Xi Location: Kyungkido, Korea - Housing units: 4902 Project period: 2003. 05~2006. 04

#### 005н ChungAm Xi

006н

Location: Seoul, Korea
- Housing units: 170
Project period: 2003. 07~2005. 08

#### 006н Ilsan Xi

Location: Kyungkido, Korea - Housing units: 4683 Project period: 2008. 01~2010. 09

#### 007н SongDo Xi Harbor View

Location: Inchon, Korea - Housing units: 1069 Project period: 2007. 07~2011. 02

#### 008н Hwangsil Xi

Location: Seoul, Korea - Housing units: 67 Project period: 2003. 12~2005. 11

| 002н | 004н |      |
|------|------|------|
| 003н | 005н | 006н |
|      | 007н | 008н |



#### 009н Yeouido Xi

Location: Seoul. Korea - Housing units: 580 Project period: 2004. 12~2008. 04







#### 010н SeoCho Art Xi

Location: Seoul. Korea - Housing units:164 / studio: 26 Project period: 2007. 01 ~ 2009. 06

#### 011н SeoGyo Xi

Location: Seoul, Korea - Housing units: 617 Project period: 2008. 07~2012. 06

#### 012H YongSan Park Xi

Location: Seoul, Korea - Housing units: 310 / studio: 995 Project period: 2002. 08 ~ 2005. 12

#### 013н The City Seven Xi

Location: Kyungsang Namdo, Korea - Housing units: 1060 Project period:2005. 06~2008. 12

#### 014H Boutique Monaco

Location: Seoul, Korea - Housing units: 172

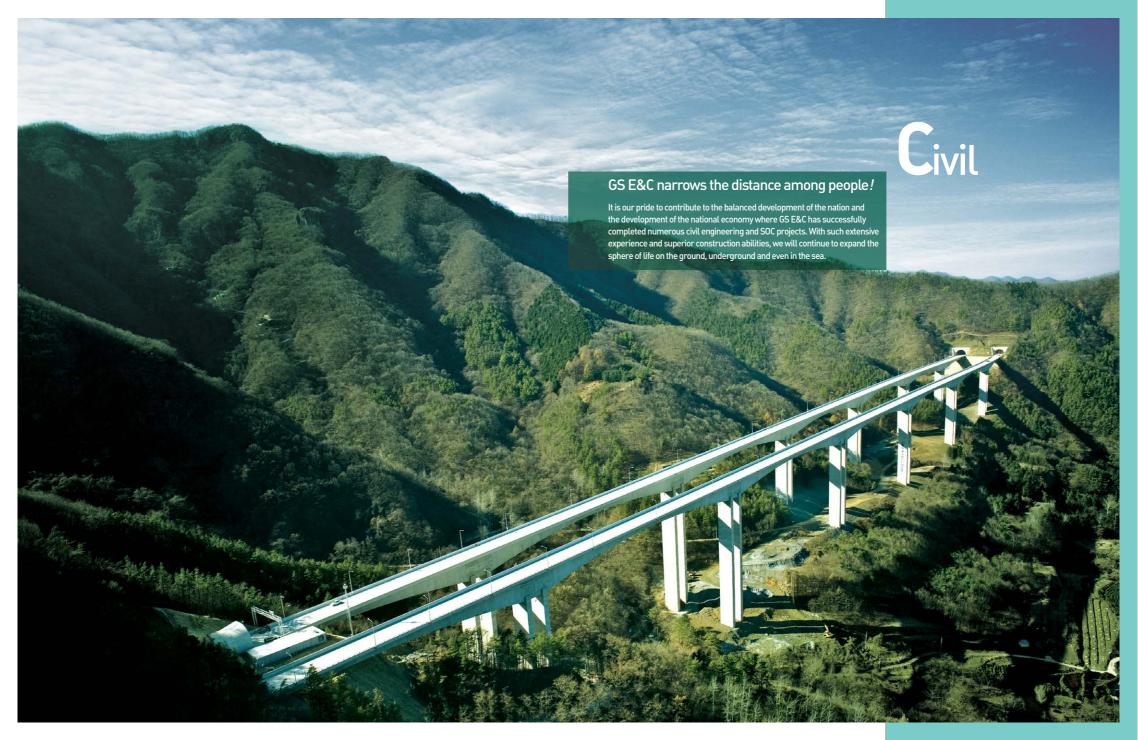
Project period: 2005. 05~2008. 07

## Residential Complexes & Studio Apartments

#### A classy residential space that contains new added value

010н

GS E&C is in the spotlight not only for our apartment complexes but also for commercial-residential apartments and studio apartments. In this area the company has successfully built landmarks such as Yongsan Xi Park, Yoido Xi, Seocho Art Xi and Boutique Monaco in Seoul. As new-concept intelligent spaces, GS E&C°Øs studio apartments are equipped with state-of-the-art systems and have been constructed in and around centers of transportation and business such as the Han River Road, Yoido, Seonneung & Seocho districts in Seoul, Bundang in Gyeonggi Province as well as The Incheon International Airport. GS E&C will continue its expansion into commercial-residential complexes and studio apartments by securing capabilities in the construction of





## Civil

Seoul-Busan High Speed Railroad

Seoul Subway Line No.&

Jungang Line (Cheongnyangni-Deokso Electrified Double Track

Uijeongbu Light Railway Transit

Goha-Jukgyo Highway

West Sea Grand Bridge

Expressway No.20 (Iksan-Jangsu Section No.5

Cheonan-Nonsan Express Highway

Expressway No.100 (Seoul Beltway

Incheon Airport Highway

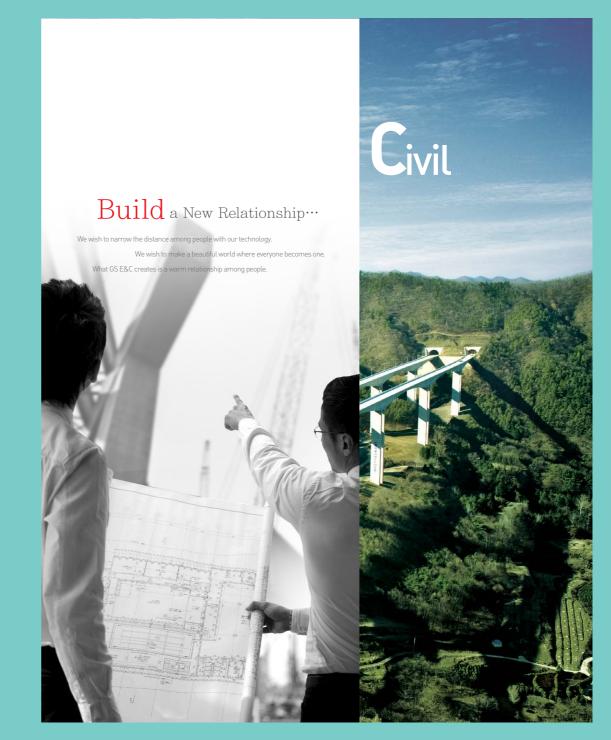
Buhang Multipurpuse Dam

Pyeongtaek Dangjin Harbor Automobile Pier

Cheonggye Stream Restoratior

Guniang National Industrial Comple

Gulpocheon(Stream) Tailrace Phase 2





OO1c Seoul-Busan High Speed Railroad Location: Occheon, Korea - Total Length 12.25 km - Double Track Length 3.585 km Project period: 1999. 05 - 2002. 11

#### 002c Seoul Subway Line No.6

Location: Seoul, Korea

- Total length 2.96km

- 3 underground station

Project period: 1993. 11~2000. 12

#### 003c Jungang Line (Cheongnyangni-Deokso) Electrified Double Track

Location: Namyangju,Gyeonggi,Korea

- Total length 9.5km

- 15 Bridges, 4 Station

Project period: 1997. 10~2006. 06

#### 004c Uijeongbu Light Railway Transit

Location: Uijeongbu, Gyeonggi, Korea

- Total length 11.1km

- 15 Station, 1 Depot

Project period: 2007. 08~2011. 07

## Underground Spaces & Railroads

#### A future land that broadens the horizon of life

With its characteristics and development potentials, the underground development becomes an alternative to solve the problem of limited space on the ground and is emerging as a new sphere in the 2rst century. GS E&C has participated in the construction of subway lines and transportation facilities including the station buildings for the Subway Lines #18, #5, #6, #7.AND #9 IN Seoul, Incheon Subway Line #1, Busan Subway Lipe Car Station, and others. Our R&D in soil mechanics, rock mechanics and excavation techniques, has strengthened our capabilities for the development of the underground space. In addition, the company promoted economical transportation abilities through railway projects that connect the whole nation. In addition with the completion of the Seoul-Busan High Speed Railways, a revolution began by connecting the major Korean cities in a system where all can be reached in 2 hours.



001c 0

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00/40



## Roads & Bridges

#### The main artery for the nation's development

Roads and bridges are the basic infrastructure for the development and prosperity of a nation and life is developed through the construction of road networks. Since its establishment, GS E&C has participated in numerous public and privately funded civil engineering and SOC projects to construct roads and bridges for the balanced development of the nation and to contribute to the national economy. The sweat of our hard efforts can be found on the Seohae Grand Bridge, which is the 10th longest bridge in the world with a total length of 7.31km, and the expressway that leads to the Incheon International Airport and the super highways that connect the major regions in Korea. GS E&C will focus on the construction of the world's best roads and bridges through continuous technological development.



#### 005c Goha-Jukgyo Highway

Location: Mokpo, Korea

- Total length 4.1km - Cable-Stayed Bridge Length 900m

- PSC Box Continuation Bridge 2.16km Project period: 2004, 11~2011

#### 006c West Sea Grand Bridge

Location: Dangjin Korea - Total length 4.08km

- 3 lanes each direction
- Bridge length 3.70km

Project period: 1993. 11~2000. 12

#### 007c Expressway No.20 (Iksan-Jangsu Section No.5)

Location: Jinan, Jeonbuk, Korea

- Total length 3.4km,
- 1 Bridge(L=1.060m)
- 1 Tunnel(L=2,300m)

Project period: 2001. 11~2007. 12

#### 008c Cheonan-Nonsan **Express Highway**

Location: Cheonan, Korea

- Section3 length 12.42km
- Section4 length 12.07km
- Reciprocating 4Lane

Project period: 1997. 12~2002. 12

## 009c Expressway No.100 (Seoul Beltway)

Location: Yangju, Gyeonggi, Korea

- Total length 8.4km
- 6 Bridge (L=902m)
- 2 Tunnel (L=4.8km)

Project period: 2001. 6~2007. 12

#### 010c Incheon Airport Highway

Location: Incheon, Korea

- Total length 10.57km

- Reciprocating 8Lane

Project period: 1996. 4~2001. 2



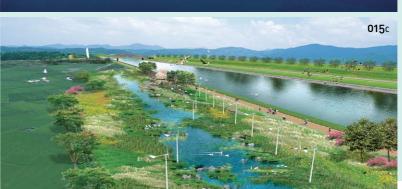




## Dams, Harbors & Development

#### An outpost for the development of a new world at sea

Korea is surrounded by the sea on three sides, and the vast ocean has become an important resource to be developed and managed. In this sense, harbors are essential in developing Korea into a center of logistics in Northeast Asia. Dams are important in supplying a stable supply of service water and preventing national disasters. GS E&C has accumulated its wealth of technology and experience by participating in the torstruction of harbors in the west coast of Korea including Pyeongtaek-Dangjin Harbor, Gwangyang Harvor and the berthing facilities for Incheon LPG Receiving Base. Soon to be hub harbors in Northeast Asia. For the construction of dams, the company will actively invest in core technologies beginning with Buhang Dam to foster as a future growth engine. Furthermore, GS E&C revived the eco-system and restored 600 years of cultural heritage through the restoration project of the Cheonogyecheon Stream. In the future, we will actively participate in development projects that will become an essential factor in balanced regional development.



#### 011c Buhang Multipurpuse Dam

Location: Gimcheon, Korea

- Total Reservoir Capacity 54.3million m<sup>3</sup>

- Highway length 12.71km

- 9 Bridges, length 1.545km

Project period: 2006. 10~2011. 07

#### 012c Pyeongtaek Dangjin Harbor Automobile Pier

Location: Pyongtaek, Korea

- Reclamation & Site improvement 123,250 m²

- Foundation & Basin anchorageDredging 244,599m²

Project period: 2006. 04~2008. 10

#### 013c Cheonggye Stream Restoration

Location: Seoul, Korea

- 8 Bridges

- Landscaping and StreamRestoration 2.1km Project period: 2003. 06~2005. 12

## 014c Gunjang National Industrial Complex

Location: Gunsan, Jeongbuk, Korea

Area-1.9mil.r

- Earth Work:Dredgin & Reclamation[15.6mil.m³]
Project period: 1997. 07~2004. 12

#### 015c Gulpocheon(Stream) Tailrace Phase 2

Location: Incheon, Korea

- Total Length 4.7km(Width: 80m)

- Road 10.8km, 3 Bridges

Project period: 2005. 05~2011. 07

| <b>011</b> c |              |
|--------------|--------------|
| <b>012</b> c | <b>014</b> c |
|              | 015c         |





### Architecture GS Tower





## Office Building

#### The landmark which changes the skyline of a city

The office buildings constructed by GS E&C are not mere facilities for work but landmarks comprising the image of a city. Also they show the character and competitiveness of the tenant companies. On the basis of refined technology and extensive experience, GS E&C is building high-tech intelligent buildings equipped with convenient functions and aesthetics with differentiated designs and perfect construction work. The world-class office buildings such as the GS Tower, COEX Convention Center, ASEM Tower and Seoul Central Post Office have become the representative landmarks in Seoul. Abroad, we have built the LG Beijing Tower and let the superior technological power of GS E&C become known to the world. Currently GS E&C is focusing its capabilities on the construction of high-tech buildings that integrate state-of-the-art technologies and businesses by reinforcing its abilities for the planning, constructing and engineering of high-rises.





#### 001A GS Tower

Location: Seoul, Korea - Total floor area 141,552

- Total Hoor ar

Project period: 1994. 12~1999. 08

## 002A LG Telecom Sang-Am DMC Office

Location: Seoul, Korea - Total floor area 54,431m² - B6~14F

Project period: 2006. 05~2008. 07

#### 003A New Jeollanam-do Government Complex

Location: Muan, Korea - Total floor area 79,305 m²

- B2~23F Project period: 2001. 12~2005. 11

#### 004A LG Twin Tower

Location: Seoul, Korea - Total floor area 157,835 m²

- B3~34F Project period: 1983. 06~1987. 06

001A 002A 003A











#### 005A Seoul Central Post Office

Location: Seoul, Korea - Total floor area 72,506 m²

- B7~21F

Project period: 2003. 07~2007. 08

## 006A Gwangyang Port Business Facility

Location: Gwangyang, Korea - Total floor area 18,216m²

- B1~19F

Project period: 2004. 12~2007. 05

#### 007A Kyungbang K-project

Location: Seoul, Korea - Total floor area 308,597 m² - B5~20F

Project period: 2006. 06~2009. 05

#### 008A IFC Seoul

Location: Seoul, Korea - Total floor area 509,524m²

- B7~55F

Project period: 2008. 01~2011. 12

#### 009A LG Beijing Tower

Location: Beijing, China - Total floor area 151,346 m²

Project period: 2002. 08~2005. 08







## Education, Research & Hospitals

The function and aesthetics come alive in the space we create

GS E&C possesses extensive experience and excellent technological power in educational, research and hospital facilities that pursue functional space and aesthetic space at the same time. For the construction of educational facilities that need to be designed and constructed on the basis of geography, culture and academic understanding, high-tech research facilities where various technical researches are carried out, and hospital facilities where optimal traffic lines per space and multipurpose option skills need to be applied, GS E&C combines convenient function and aesthetics simultaneously with excellence in technological prowess that maximizes our customers' satisfaction.



#### 010A LG Chemical Institute of Technology

Location: Daejeon, Korea - Total floor area 22,983 m² Project period: 1995. 01~2004. 09

#### 011A Buddhist General Hospital, **Dongguk University**

Location: Ilsan, Korea - Total floor area 92,276m2

Project period: 1999. 11~2002. 09

013A

#### 012A Saudi Imam University

Location: Riyadh, Saudi Arabia - Total floor area 50,947 m²

- Accomodation & support facilities Project period: 1996. 10~1997. 06

## 013A Eulji University Dunsan General Hospital

Location: Daejeon, Korea - Total floor area 91,741m2

Project period: 2001. 04~2004. 02

#### 014A KT Training Institute, Wonjoo

Location: Wonju, Korea - Total floor area 53,245 m²

Project period: 1996. 11~2000. 05









## Culture, Leisure & Sports

#### A beautiful space that upgrades quality of life

GS E&C has applied its differentiated technological power creating numerous achievements in the construction of composite facilities that combine culture, leisure and sports. We provide cultural facilities, classy hotels, leisure facilities and sports complexes that can accommodate cultural and artistic events. GS E&C has built facilities of living culture located in the local governments of Changwon, Masan, Wonju, and Jinju. The LG Art Center was lauded for its ideal arrangement of seating and stage, and also the main stadium of Imam University in Saudi Arabia.





#### 015A LG Art center

Location: Seoul, Korea - Total floor area 18,713 m²

Project period: 1994. 12~1999. 08

#### 016A Gimhea Cultural Center

Location: Gimhae, Korea - Total floor area 43,750 m²

- B2~7F

Project period: 2001. 11~2005. 11

#### 017A Korea Electric Power Corporation Cultural Center

Location: Seoul, Korea

- Total floor area 70,602m²

- B1~17F

Project period: 1996. 09~2001. 04

#### 018A COEX Convention Center & ASEM Tower

Location: Seoul, Korea

- Total floor area 554,631m²

B4~41F

Project period: 1997. 03~1999. 12

#### 019A National Museum of Korea

Location: Seoul, Korea

- Total floor area 134,560 m2

D4 4E

Project period: 1997. 10~2004. 02

#### 020A Health Center & Sports Area in Imam University

Location: Riyadh, Saudi Arabia

- Total floor area 136,110 m²

- Main stadium, Gymnasium

Project period: 1984. 05~1997. 06

#### 021A Masan 3.15 Cultural Center

Location: Masan, Korea

- Total floor area 19,812 m²

B1~3F

Project period: 2005. 06~2008. 03

015a 018a 016a 017a 019a







#### 022A LG display Paju LCD Cluster (P7, P8)

Location: Paju, Korea

- Total floor area 668,547m² - B2~7F
- Total floor area 519,126m²

Project period: 2004. 03~2008. 08



#### 023A Yuhan Pharmaceutical Corp. Ochang Factory

Location: Ochang, Korea

- Total floor area 54,420 m²
- Project period: 2004. 02~2006. 02

#### 024A Republic of Korea mint

- Location: Gyeongsan, Korea - Total floor area 23,353 m²

Project period: 2003. 11~2005. 07







#### 025A Southeastern Seoul **Distribution Center**

Location: Seoul, Korea

025A

- Total floor area 426,743 m²
- Project period: 2006, 10~2009, 03

#### 026A Yongsan ET land/ Multiplex Theater

Location: Seoul, Korea

- Total floor area 77,787 m²

Project period: 2001. 09~2002. 11

#### 027A GS Square, Guri

Location: Guri, Korea

- Total floor area 79,978 m²

Project period: 1996. 04~1998. 03

#### 028A Namchon Leadership Center

Location: Seoul, Korea

- Total floor area 6,956 m²

Project period: 2005. 10~2006. 09

## Clean Rooms & Manufacturing Facilities

#### State-of-the-art technology to improve company productivity

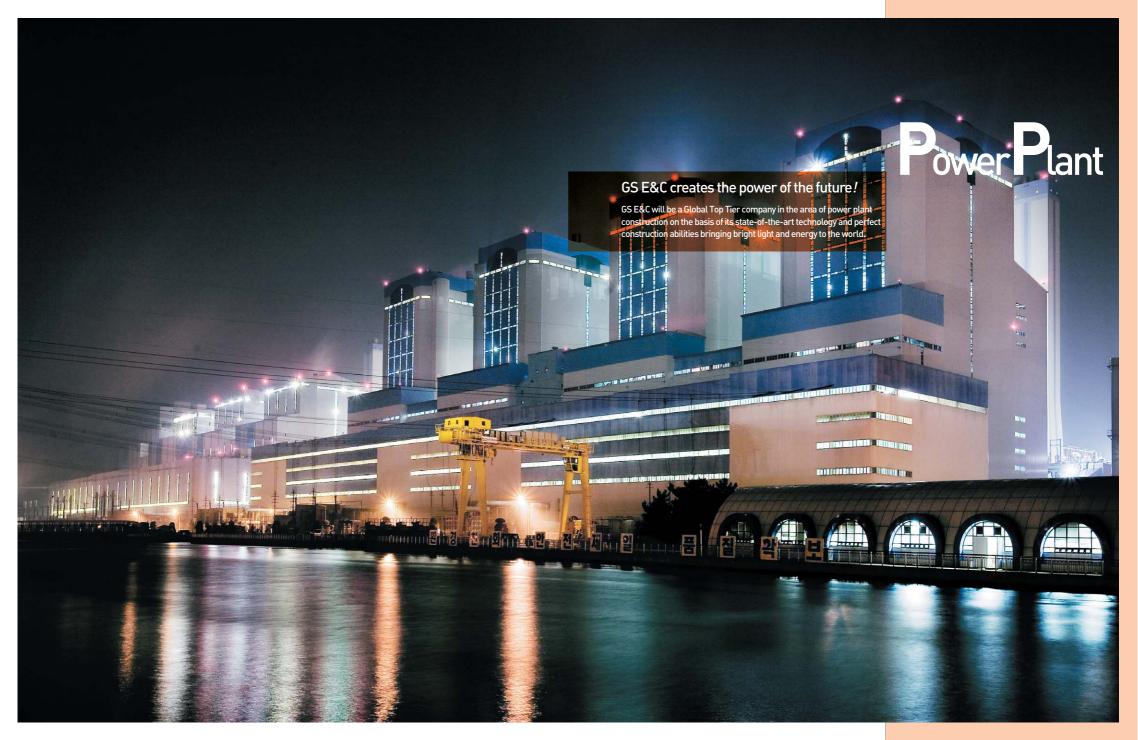
GS E&C has unparalleled technological capabilities in the area of special production facilities such as LCD, PDP, semi-conductors and pharmaceuticals. We also have the best technological power and performance in the industry in the area of the construction of clean rooms. Clean rooms are core technology for factories producing super-precision products. GS&E&C build Industrial Clean Rooms as well as the Biological Clean Room that is essential to the production in pharmaceutical products. The company is now expanding its business areas both home and abroad on the basis of its technological power and know-how accumulated through the successful implementation of large projects including the display production lines at the LG Display industrial complex, the factories of the secondary battery and polarizing plate, and the production facilities of the GMP factories of pharmaceutical companies.

## Logistics & Remodeling

#### The magic of architecture can increase the value of the building

GS E&C is leading logistics and remodeling sectors with superior specialty manpower, excellent planning ability, innovative design, perfect construction work and thorough maintenance and services. GS E&C has successfully completed Block A of the Southeastern Distribution Complex; the largest distribution complex in Korea, and many other large logistic facilities. In addition, the company has extensive experience in remodeling projects including the Samcheonggak, Yongsan Electronics Land and the Export-Import bank of Korea. GS E&C is doing its utmost to maximize customer's values by establishing a total solution system that covers the entire life cycle of a building including construction, structural diagnostics and post management.







#### Power Plant

ncheon Combined Cycle Power Plan

Yerevan Combined Cycle Power Plan

GS EPS LNG Combined Cycl

Taean Coal Fired Power Plan (Unit 5 & 6)

Shin-Wolsung Nuclear Power Plant(Unit1 & 2)

Dangjin Coal-Fired Power Plar (Unit 7 & 8)





## Power Plant

#### The leader equipped with unique competitiveness

GS E&C has accumulated a wealth of experience and know-how in the construction of electric power plants such as the successful construction of the Combined Cycle power plants in Ilsan/Bugok/Incheon and the Coal Fired power plants in Taean/Dangjin. Currently the company is building the #2 Combined Cycle power plant in Incheon and the #1 & #2 Nuclear power plant in Simwolsung. In the field of energy, it has participated in the construction of Incheon LPG terminal, the Shantou LPG terminal in China, Incheon LNG production base, Tongyoung LNG production base, and the main pipelines for gas supply in the southern region, western region and Gangwon Province as well as several oil storage facilities and regional heating facilities. Presently the company is striving to become a leader both home and abroad in the areas of power generation and energy.





#### 001PP Incheon Combined Cycle Power Plant

Location: Incheon, Korea Total 450MW

- Gas Turbine 150MW x 2 - Steam Turbine 150MW x 1 Project period: 2003. 01~2005. 06

#### 002PP Yerevan Combined Cycle Power Plant

Location: Yerevan, Armenia Total 230MW

- Gas Turbin 167MW x 1

- Steam Turbin 63MW x 1

Project period: 2007. 12~2010. 04

#### 003PP GS EPS LNG Combined Cycle Power Plant

Location: Bugok, Korea Total 550MW

- Gas Turbine 180MW x 2

- Steam Turbine 190MW x 1 Project period: 1997. 05~2001. 04

#### 004PP Taean Coal Fired Power Plant(Unit 5 & 6)

Location: Taean, Korea Total 1,000MW

- Steam Turbine 500MW x 2 Boiler 1,690 T/H x 2

Project period: 1997. 11~2002. 09

#### 005PP Shin-Wolsung Nuclear Power Plant(Unit1 & 2)

Location: Gyeongju, Korea - Total 1.000MW x 2

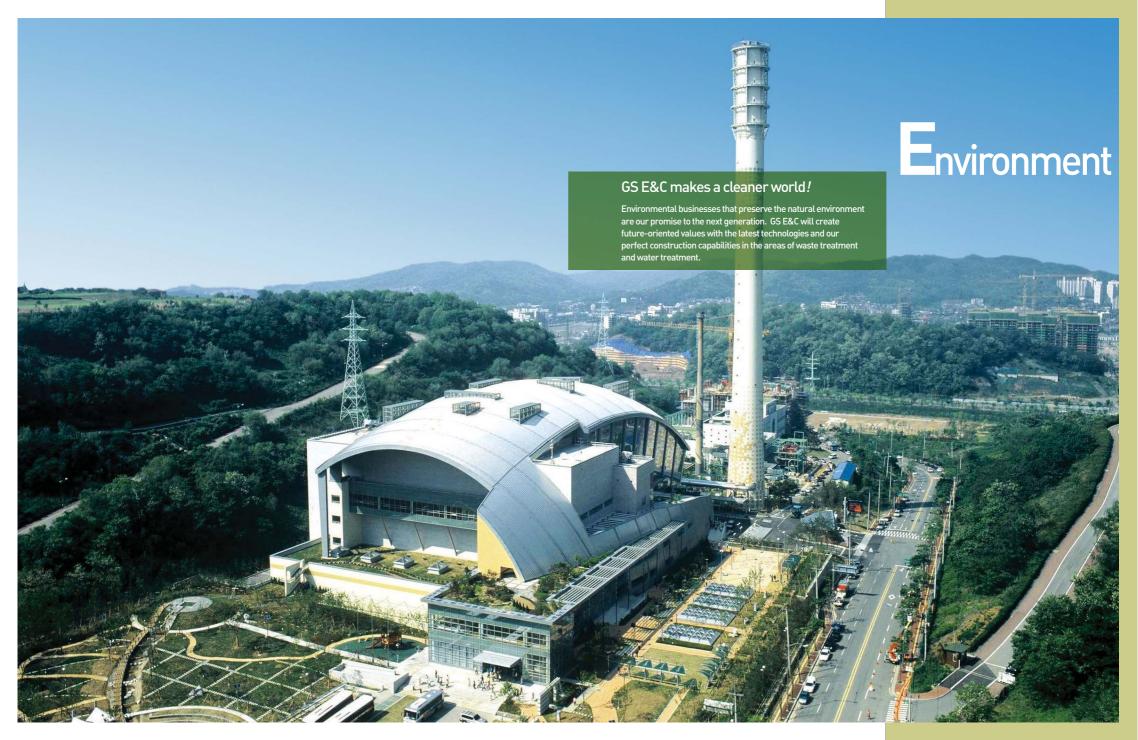
Project period: 2003. 07~2010. 09

#### 006PP Dangjin Coal-Fired Power Plant (Unit 7 & 8)

Location: Dangjin, Korea – Total 500MW x 2

Project period: 2003, 12~2007, 12

003PP 004PP 005PP 002PP 006PP





### **Environment**

\_G.Philips LCD P4 ~ P6

Mapo Municipal Solid Waste treatment plant

Dalseong Industrial & Municipal Soli Waste treatment plant

Cheongju Municipal Solid Waste

Jecheon Municipal Solid Wast

Eunpyung MSW Management System

Masan Municipal Solid Waste Treatment Plant

Jeoniu Δdvanced Sewage treatment plant

Jeju Advanced Sewage treatment plant

Ilsan Advanced Sewage treatment plan

Yeosu Wastewater treatment plan

Osan Sewage Treatment Plant(Unit #2,

Gunsan Advanced Sewage Treatment Plant

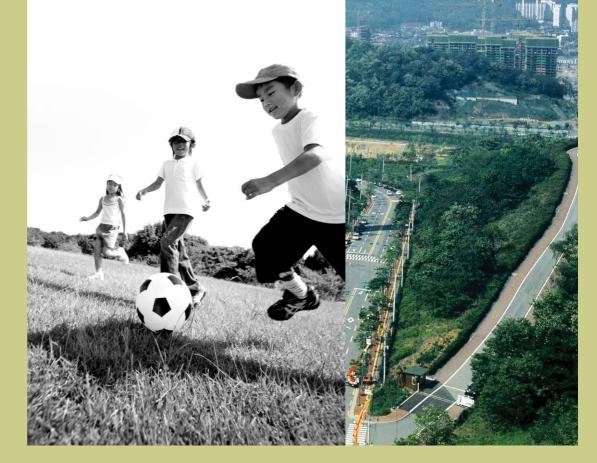
LG.Philips LCD P7 (Environmental facility)

# Environment

## Build a New Smile...

We wish to protect the innocence and vision of our children.

We wish to make a clean world where our children can enjoy pure fun. What GS E&C makes is a pretty smile in every corner of the world.





### 001E LG.Philips LCD P4 ~ P6 Location: Gumi. Korea

- Wastewater Treatment 63,000m³/day
- DI System 1,800m³/hr

002E

- Incineration 300 ton/day
- <u>P6</u>
- Wastewater Treatment 79,560m3/day - DI System 2,500m³/hr
- Incineration 300 ton/day

Project period: 2000. 06~2006. 05

### 002E Mapo Municipal Solid Waste treatment plant

- Incineration plant: 250 ton/day x 3units
- Stoker type
- Project period: 2001. 11~2005. 04

### 003E Dalseong Industrial & Municipal Solid Waste treatment plant

Location: Taegu, Korea

- Incineration plant: 70 ton/day

- Pyrolysis melting type

Project period: 2006. 04~2009. 12

## Waste Treatment & Recycling

The harmonization of state-of-the-art technology with the affluence of nature

GS E&C possesses the best construction performance of the Municipal Solid Waste treatment plant in Mapo, Daejeon and Jecheon, Korea. Notably, in the private industrial waste treatment facilities, the company was recognized for its advanced technologies by successfully carrying out the incineration facilities at LG Philips LCD factory.

In addition, GS E&C completed the construction of the industrial & Municipal Solid Waste treatment plant in Dalseong and has proceeded successfully the Municipal Solid Waste treatment plants construction in Masan, Cheongju, Chungju, Ulsan, Gurni and Hwaseong, Korea. As a result the company has earned the trust of our customers.





## 004E Cheongju Municipal Solid Waste Treatment Plant

Location: Cheongju, Korea

- Incineration plant: 200 ton/day - Stoker type

Project period: 2006. 09~2009. 03

## 005E Jecheon Municipal Solid Waste treatment plant Location: Jecheon, Korea

- Incineration plant: 50 ton/day

- Stoker type Project period: 2006. 03~2008. 08

## 006E Eunpyung MSW Management System Location: Seoul, Korea

- Incineration plant: 48 ton/day, Pyrolysis melting type - MSW Automation Collecting pipe: 29.1km Project period: 2006. 10–2009.10

## 007E Masan Municipal Solid Waste Treatment Plant

Location: Masan, Korea - Incineration plant: 200 ton/day

- Stoker type

Project period: 2006. 09~2009. 09





### 008<sub>E</sub> Jeonju Advanced Sewage treatment plant

Location: Jeonju, Korea

- Advanced Sewage Treatment: 303,000 m³/day

Project period: 2004. 10~2007. 06

## Water & Sewage, Wastewater Treatment

### Technology that protects nature and people

GS E&C is leading the public project market in the areas of sewage and wastewater on the basis of advanced technology power and construction capabilities. In 2008, the company won contracts for the Advanced Sewage treatment plant at the Jungang water regeneration center, which is the largest Sewage treatment plant in Korea and the Sewage treatment plant in Busan as well as the private investment project in Gimpo, Korea. Currently the company is successfully carrying out the construction of sewage treatment facilities in Osan, Yeosu, Gunsan, Jeju, Goyang and Osong regions. The company has been especially prominent in privately ordered projects including the environmental facilities at the LG Philips LCD factory and the waste water treatment facilities at Deahan Pulp.

## **009**E Jeju Advanced Sewage treatment plant

Location: Jeju, Korea

010E

- Advanced Sewage Treatment: 130,000 m³/day - CNR type

Project period: 2006. 09~2009. 05

## 010E Ilsan Advanced Sewage treatment plant

Location: Goyang, Korea

- Advanced Sewage Treatment: 270,000 m³/day

- MLE type

Project period: 2006. 12~2009. 12

0010E

008E









### 011E Yeosu Wastewater treatment plant

Location: Yeosu, Korea

- Wastewater Treatment: 35,000 m³/day

Project period: 2005. 09~2008. 04

## 012E Osan Sewage Treatment Plant(Unit #2)

Location: Osan, Korea

- Sewage Treatment: 64,000 m³/day

- Sewage Recycling pump: 52,000 m³/day Project period: 2005. 08~2009. 08

### 013E Gunsan Advanced Sewage Treatment Plant

Location: Gusan, Korea

- Advanced Sewage Treatment: 200,000 m³/day

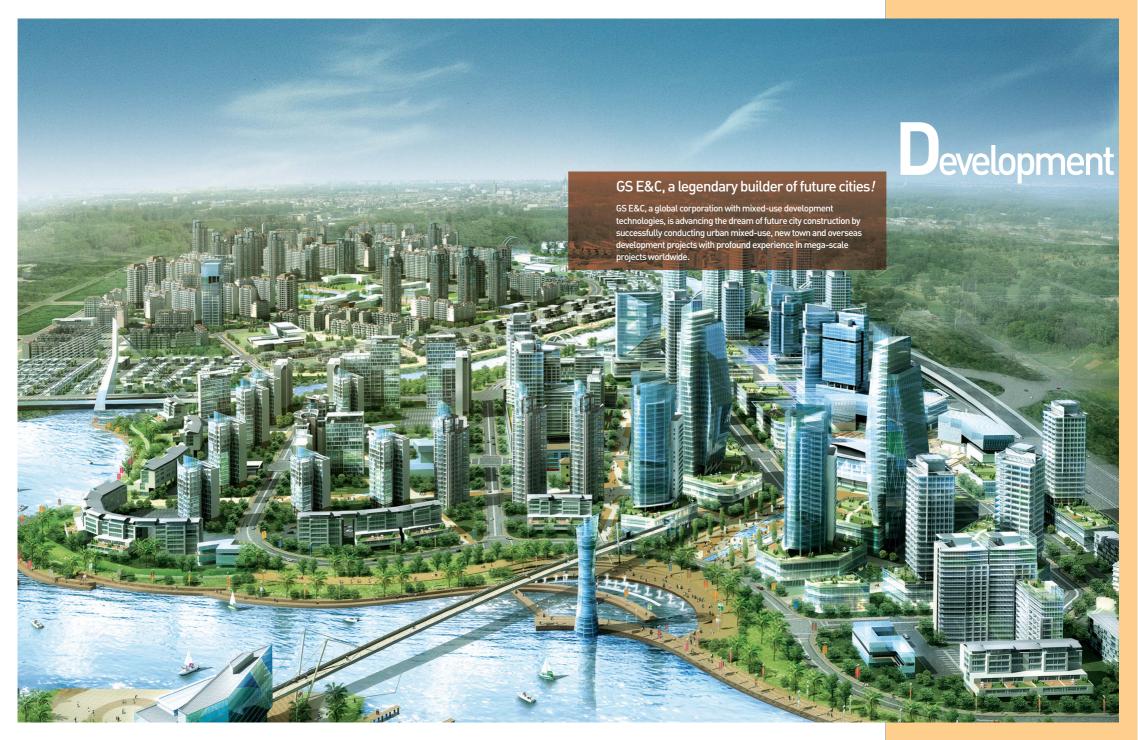
- 4-Stage BNR type

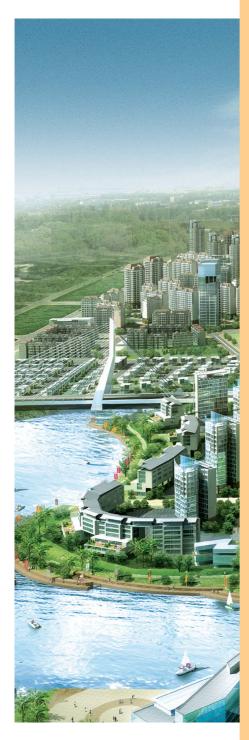
Project period: 2006. 09~2010. 03

## 014E LG.Philips LCD P7 (Environmental facility)

Location: Paju, Korea

- Wastewater Treatment: 51,000 m³/day
- Wastewater Recycling: 18,000 m³/day
- Water Treatment: 40,000 m³/day
- Deionization System: 2,400 m³/hr
- Project period: 2004. 03~2006. 10





### Development

Ansan Sadong 90 Block New Town

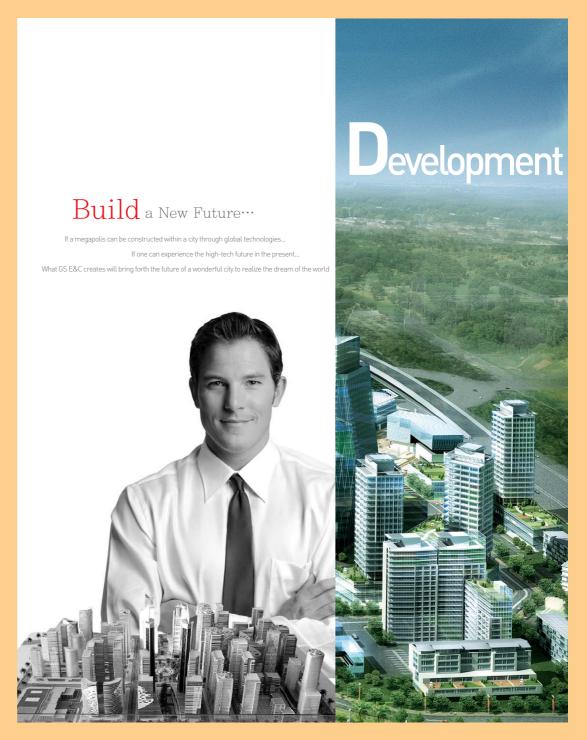
Woonbook Leisure Comple

Hapjung-Dong Multi-Purpose Complex

Nha Be New Town

hnom Penh IFC

Xi Riverview Palace













## **D**evelopment

#### Beyond Korea onto the Global stage

The project development division is not only operating successful businesses domestically, but also conducting various successful projects overseas in Vietnam, Cambodia including urban mixed-use development, urban revitalization, new-town development and resource package projects. By 2015, GS E&C will solidify the basis to become a Global Top Tier though business diversification, continuous implementation of global mega scale mixed-use developments and by exploring and promoting opportunities in new businesses.



#### 001D Ansan Sadong 90 Block New Town

Location: Ansan, Korea

- Site area: 369,836 m²
- Total floor area: 1,536,430 m2
- Purpose : R&D, residential, commercial, culture Project period: 2007 ~ 2014

#### 002D Woonbook Leisure Complex

Location: Incheon, Korea

- Site area : 1,831,413 m²
- Total floor area : 2,975,454 m²
- Purpose : Residential, commercial, offices, hotel
- Project period: 2006 ~ 2014

### 003D Hapjung-Dong Multi-Purpose Complex

- Location: Seoul, Korea
- Site area : 26,426 m²
- Total floor area : 294,613 m²
- Purpose : Residential, commercial, offices, culture Project period: 2008 ~ 2012

#### $004_{\mathrm{D}}$ Nha Be New Town

Location: Ho Chi Min City, Vietnam

- Site area : 349ha

- Purpose : Commercial, residential, offices, school, leisure, hospital

Project period: 2010 ~ 2020

### 005D Phnom Penh IFC

Location: Phnom Penh. Cambodia

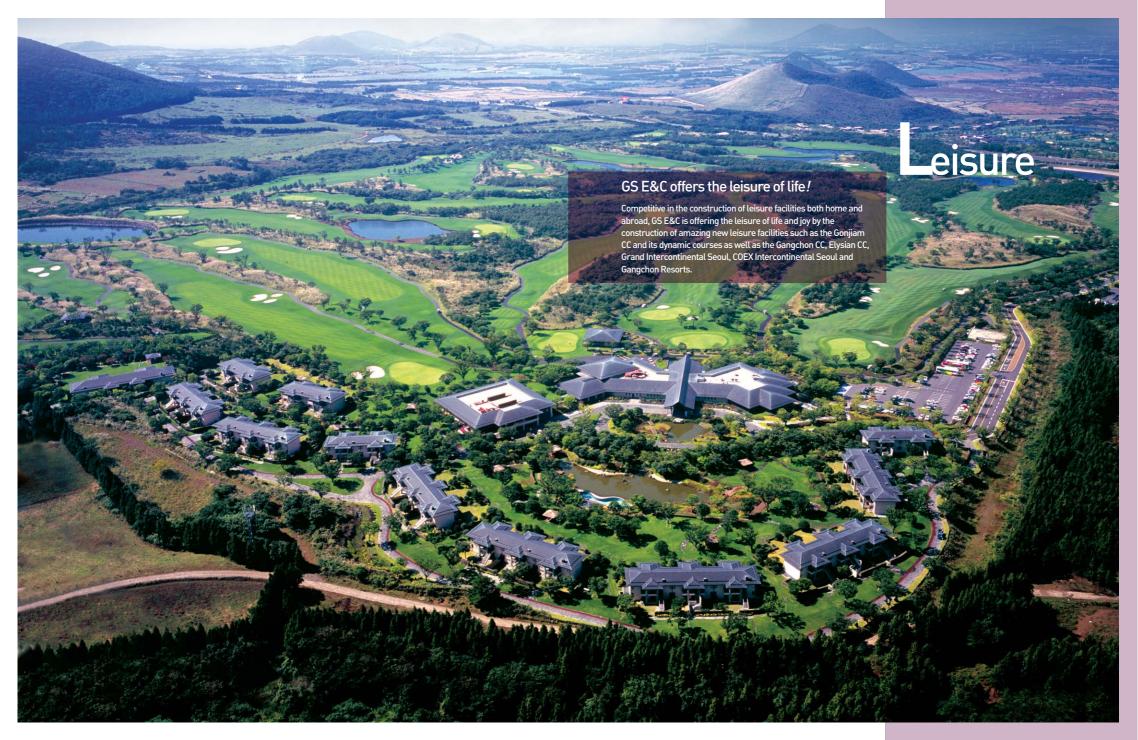
- Site area : 27,039 m²
- Total floor area : 207,114 m²
- Purpose : IFC, residential, commercial, offices Project period: 2011 ~ 2014

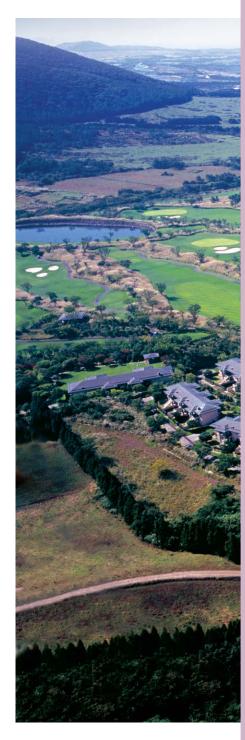
### 006D Xi Riverview Palace

Location: District 2, Ho Chi Min City, Vietnam

- Site Area : 17,209m²
- Total Floor Area: 75,712 m2
- Purpose : Residential

Project period: 2008 ~ 2011





### Leisure

Elvsian Jeiu

Elysian Gangchor

Country club in Gon-ii-ar

Grand Intercontinental Seou

COEX Intercontinental Seoul

/ietnam HaiphongSunflower





### 001<sub>L</sub> Elysian Jeju

Location: Jeju, Korea - Lot area 1,752,074m²

- Project area 1,586,784m²

Main Facilities: Golf course/Club house Project period: 2002. 11 ~ 2005. 07







## Resorts & Golf Courses & Hotels

### Leisure of life, joy and rest

A new turning point has come for the leisure industry with the improvement in living standards and the five-day workweek. GS E&C has secured competitiveness in leisure areas by accumulating extensive experience in the construction of leisure facilities such as resorts, golf courses and hotels in Korea and abroad. GS E&C has constructed famous golf courses including the Gonjiam Country Club loved by golfers for its dynamic courses and unique layout, and the Elysian Gangchon Country Club. After achieving fame with the construction of COEX Intercontinental Seoul and the Ladera Tower in Guarn, GS E&C built the Grand Intercontinental Seoul gaining recognition in the hotel construction. In addition, the company is securing composite capabilities for resort facilities from construction to management through Elysian Jeju and Elysian Gangchon that have become popular as 4-season composite family recreation resorts with condominiums, golf courses, ski slopes and many amenities.





001L



### 002L Elysian Gangchon

Location: Kwangwondo, Korea - Total area 60,615m²

003L

005L

- Main Facilities: Golf course/Ski course/Condominium Project period:1999. 11 ~ 2002. 11





- 18 hole golf course Project period: 1991. 06 ~ 1993. 12

### 004L Grand Intercontinental Seoul

Location: Seoul, Korea - Total area 128,254m²

- 33 stories with 597 rooms

Project period: 1987. 07 ~ 1989. 04

### 005L COEX Intercontinental Seoul

- Location: Seoul, Korea
- Total floor area 109,069m²
- 29 stories with 654 rooms
- Project period: 1997. 03 ~ 1999. 09

## 006L Vietnam HaiphongSunflower

- Location: Haiphong, Vietnam Total floor area 39,600m²
- 4 stories with 120 rooms

Project period: 1997. 01 ~ 1998. 09









| 006L  |
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## Major References

Underground Spaces

Seoul Subway Lot No. 705 Seoul Subway Lot No. 301 Seoul Subway Lot No. 904 Seoul Subway Lot No. 6-10 Incheon Subway Lot No. 1-13 Seoul Subway Lot No. 5-35 (Wangshipri Station) South Oil Storage at Metropolitan Area U-1-1 Oil Storage

Jeongreung Water Tunnel

Roads, Bridges & Railroads Highway Expansion (Busan-Eonyang Lot No. 3) Dangjin-Daejeon Highway (Lot No. 4,5,6,7) Hyunpung-Kimcheon Highway (Lot No. 1,3,6) Iksan-Jangsu Highway (Lot No. 5) Busan- Ulsan Highway (Lot No. 6) Seoul Outor Ring Expressway (Lot No.4,6) Donghae-Jumunjin Highway Daegu-Pohang Highway Jukbyeon-Bukmyeon Highway Duksan-Yesan Highway Jeonju-Gui Highway Cheonan-Nonsan Highway (Lot No.3,4) Uljin-Jukbyeon Highway Balan-Banwol Highway Northern Urban Highway Seoul Outor Ring Expressway (Lot No.1-17) Hongseong-Galsan highway West Sea Grand Bridge (Lot No.2) Incheon Grand Bridge Goha-Jukgyo Highway (Mokpo)

Honam Highway Expansion (Lot No.8)

Kyeongbu Highway Expansion (Suwon-Chungwon)

Incheon-Ansan Highway Daegu-Chuncheon Highway

Gangnam Beltway

Seoul-Chuncheon Railroad (Lot No. 7)

Seoul-Sinuiiu (Lot No.4)

Jungang Railroad(Cheongyangri- Deokso) Gwangyang Iron and Steel Mill Construction

Seoul-Busan High Speed Railroad(Lot No. 6-5)

Taeback jaecheon-Ssangyong Double Track Line

Okcheon-Jitan Railroad

Jingu- Gwangyang Double Track Line (Lot No. 5)

Kyeongsang-Jeolla Railroad Busan hopo Train Depot

Harbors & Dams

Port of Sokcho Construction Dredging of Soil Wastes at Incheon North Port LG Chemical 100,000 DWT Private Jetty Construction Port Bridge at Gwangyang Incheon LPG Vessel Jetty Yeocheon GS-Caltex Vessel Jetty Gwangyang Harbor Pyeongtaek Dangjin Harbor Automobile Pier

Buhang Multipurpuse Dam Ulsan new Port(LS-Nikko)

Estate & Development

Yeocheon Industrial Estate Ochang Science Complex Bugok Industrial Complex Cheonan Industrial Complex Incheon Airport 4th Runway Incheon Cheongna District Free Economic Zone Yeongjong Sky-City Yongin-Guseona Housing Site Metropolitan Area water Supply Facilities Paju Wollong Industrial Complex Seokmoon National Industrial Complex Paju LCD Industrial complex Gulpo Drainage Canal

Cheonggye Restoration(Lot No. 2)

Intelligent Building

GS Tower / LG Beijing Tower I G Twin Tower Seoul Central Post Office Kyungbang K-Project IFC Seoul / LS Tower Gwangyang Port Business Facility Sacheon City Hall / LG CNS IT Center LIG Gangnam Tower Jeollanamdo New Government Office National Agricultural Cooperative Federation Head Office

Hung Kuk Life Insurance Sinmunno Office Korea Industrial Complex Corporation Venture Center

The Embassy of Iran and Residences in Korea

LG Telecom Sangam DMC Office

Educational, Research & Medical health care

LG Inhwawon

LG Electronics, Seocho R&D Campus Nongshim R&D Center

LG Gasan R&D Complex

Seoul Techno Park

LG Pveongtaek Digital Park LG Chemicals Institute of Technology

LIG Ingenium

Ulji University Dunsan Hospital

General Hospital, Dongguk University

Uijeongbu St.Mary's Hospital

Cultural, Leisure & Sports Facilities

Coex Convention Center & Asem Tower 3.15 Art Center

Duckyang Culture and Sports Center

Gimbae Culture and Art Center

Wonju Chiak Cultural Art Hall

National Museum of Korea

Korea Electric Power Corporation Cultural hall

Gyeongnam Cultural Art Hall

Bundang Somang church

New Juan church

Pohang Cultural Art Hall

Saudi Imam University Sports Complex

Clean room & Industrial Facilities

LG Display Paju LCD Cluste

LG Chem. Ochang Techno Park

LG Siltron Gumi factory

Gwangdong G-proejct

Sam-a pharma co. Wonju GMP fa LG Display Value Cluster in Polar

Choongwae pharma co. Dangiin Factor

Heesung Elec. Daegu Factory 2

LG Display 345kV GIS Subs

maceutical Corp. Ochang Factory

Dongb

65kV Substation Project

Logistics & Remodeling

Southeastern Seoul Distribution Center

Daebul Free Trade District Anyang Station GS Square, Guri

GS Mart, Goyang Namchon Leadership Center The Export-Import Bank of Korea Remodeling Jungbu Market reconstruction West-South Zone Agriculture and Fishery Market Remodeling

Samcheonggak remodeling Resort, Golf course, Hotel

National Safety Experience Theme Park Seungsan Sandpine Club House

Yongsan Electronic Land Remodeling

Elysian Country Club Goniiam Resort

Daegu Park Hotel Gangchon Resort

Guam Ladera Tower Goniiam Country Club

COEX Intercontinental Hotel

Grand Intercontinental Hotel



BanPo Xi / HanKang Xi GaePo Xi / SeoCho Xi BangBae Xi / HwangSil Xi DouGok Rexle / CheongAm Xi MunRae Xi / MaPo Xi Heights Xi / SongDo XI Harbor View Ilsan Xi / MookDong Xi Young Jong Xi / HaNam Xi SuJi Xi | Yonaln Xi YangJu Xi I-III / SinBong Xi I,II

Juk Jeon XI I,II / MetroCity I-V DongSuwon Xi I,II / SinSanbon Xi I,II Yongin SuJi LG Village I-VI

Ilsan DaeWha LG Village Xi Riverview Palace

#### Studio apartment / Residential complex

SeonReung Eclat / YokSam Eclat Bundang Eclat I,II / Yeouido Eclat SeoCho Eclat / Incheon Airport Eclat HanKang Eclat / YongSan Park Xi Yeouido Xi / Boutique Monaco The City Seven Xi SeoCho Art Xi / SeoGvo Xi

Oil & Gas

GS- Caltex, No. 3CDU/No.4LPG Project (Korea) GS-Caltex, RFCC Project (Korea) Methanol Tank Terminal (YKK)(Korea) S-Oil, BCC Phase-I & II Project [Korea] IOCL. Catalytic Dewaxing Project (India) CPC, RFCC Project (Taiwan) Tupras, Izmir DHP Project (Turkey) KNPC, Gas Oil Desulfurization Project (Kuwait) QP Refinery Expansion Project (Qatar) TPI, 150,000 BPSD Refinery Project (Thailand) TPL Lube Base Oil Plant Project [Thailand] Noor Abad. Compressor Station (Iran) Baku Refinery Project (Azerbaijan) WGI, Used Lube Oil Rerefining Project (Indonesia) Caltex Ocean Gas, Shantou LPG Terminal Project (China) South Parth Gas Field Development Phase 9-10 (Iran)

Samnam, K-4 Project (Korea) GS-Caltex, No.3 PX Project (Korea) LG MMA, YM-2 Project (Korea) LPC-NC Project (Korea) LG Chem., VCM-II Expansion Proejct (Korea) LG Chem., CA/EDC Project (Korea) LG Chem., Oxo-Alcohol Project (Kore GS-Caltex, P-Xylene Expansion Project P.T. Hamparan Rejeki, 40,000 MTPY A

Kirikkale DHP-CCR Project (Turkev)

GS-Caltex No.2 HOU (Korea)

Laffan Condensate Refinery Project (Qatar)

Project (Korea)

LG-Dow Polycarbonate Project (Korea) LG화학 Phenol/BPA (Korea)

FPC, Acetic Acid Project (Iran)

BPC. 4th Aromatics[Iran]

ICIIC, LAB Revamping Project (Iran)

PT. Petrowidada, No. 2 PA Project (Indonesia)

PT. Petrowidada, No. 3 PA Project (Indonesia)

PT. Tri Polyta Indonesia. 3rd Train PP

Expansion Project (Indonesia)

Epsilon, PP Project (USA)

TPC, VCM Expansion Project (Thailand)

TPI, EB/SM Plant Project (Thailand)

Jinhua Chemical, Panjin PVC Project (China)

LG-Tianjin Dagu, Tianjin PVC Project (China)

Beijing No.2, PVC Project (China)

Lidong Aromatics Project (China)

QP LAB Project (Qatar)

Oman Polypropylene Project (Oman) ATC #2 Aromatics Project (Thailand)

E-LAB Project (Eavot)

Power & Energy

Korea Electric Power, Incheon Combined

Cycle Power Plant (Korea)

GS EPS Bugok LNG Combined Cycle Power Plant

Plant (Korea)

Korea Electric Power, Taean Coal-Fired

Power Plant Phase 5 & 6 (Korea)

Power Plant (Korea) Incheon LNG Terminal Project(Korea)

Shin-Wolsung Nuclear Power Plant(Unit1 & 2) Dangjin Coal-Fired Power Plant(Unit 7 & 8)

Waste treatment & Recycling

Mapo Municipal Solid Waste Treatment Plant

LG.Philips LCD P4~P6

Daejeon Incineration Plant No.2

The 1st landfill site of the Metropolitan Area

Dalseong Industrial & Municipal Solid Waste

Jecheon Municipal Solid Waste Treatment Plant

Eunpyung MSW Management System Masan Municipal Solid Waste Treatment Plant

Cheongju Municipal Solid Waste Treatment Plant

Water & Sewage, Wastewater Treatment LG.Philips LCD P7 Jeonju Advanced Sewage Treatment Plant Osong Wastewater Treatment Plant Yeosu Wastewater Treatment Plant

Osan Sewage Treatment Plant No.2

Gunsan advanced Sewage Treatment Plant

## Global Network

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2009, 3, 20

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