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SINIL E&C

SINIL Engineering & Construction

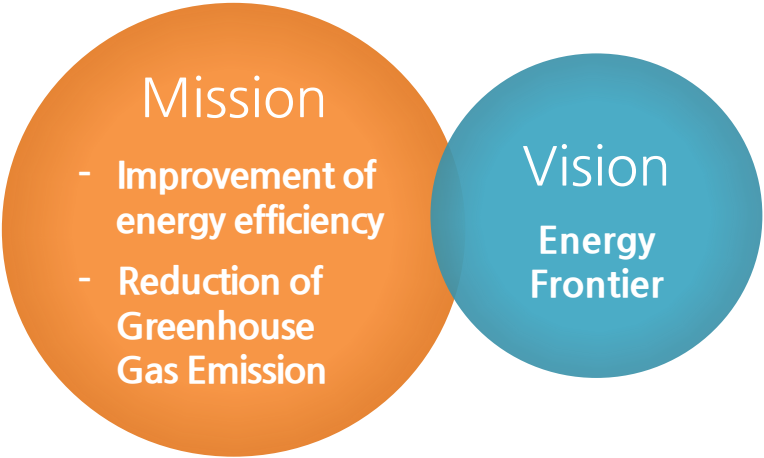


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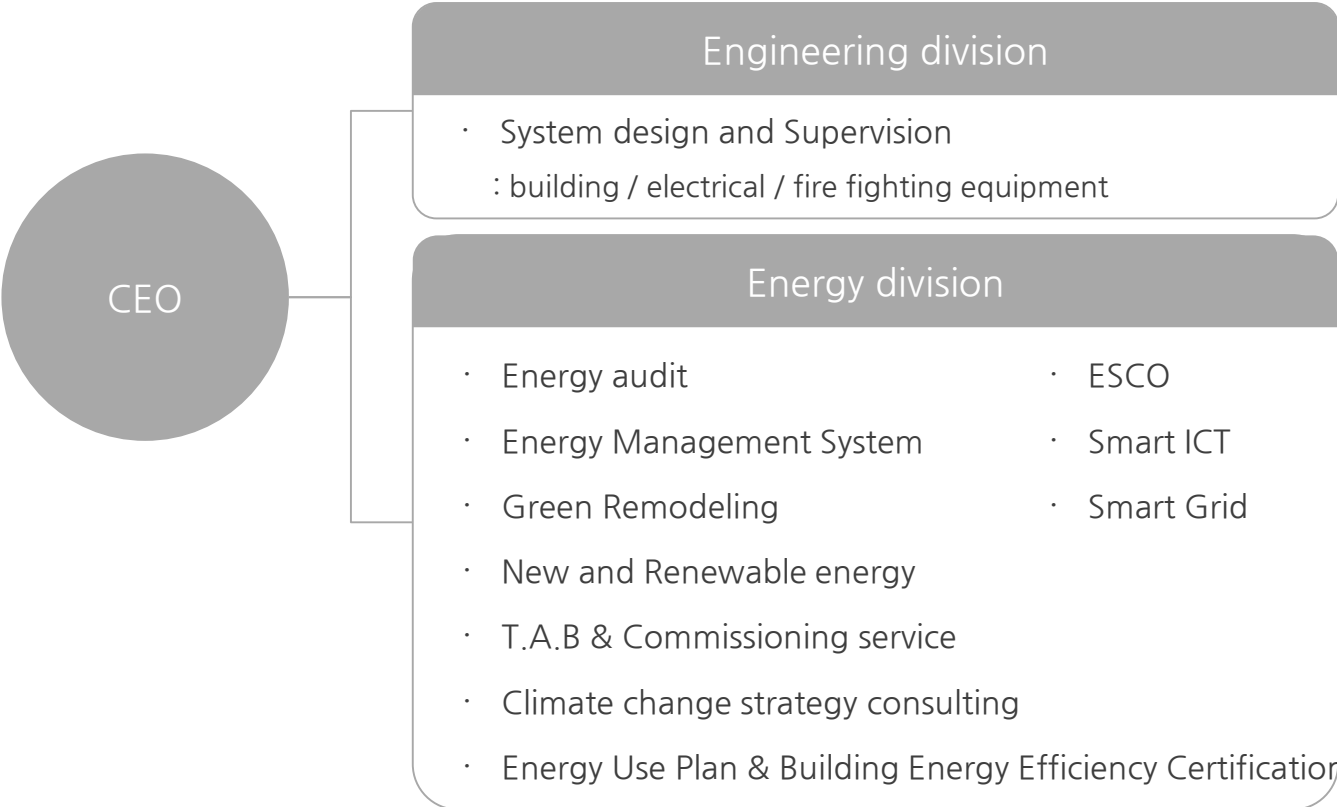
Our Company

Who we are

Sinil E&C is an engineering and energy saving consulting company. It commenced operation in 1997. The company has carried out energy efficiency services such as energy audit, ESCO, T.A.B & commissioning, climate change strategy consulting, also system design & supervision services of building equipment, electrical equipment, fire fighting equipment on industrial/ educational/ business facilities.



Organization Chart





Engineering division

Our Business

We carefully consider the efficiency of the building equipment system and safety in order to offer a comfortable and pleasant environment to building users.

Building equipment design

- Air conditioning, cooling and heating system
- Ventilation and sanitary system
- New & renewable system

Electrical equipment design

- Power supply system
- Lighting equipment
- Communication facility

Fire fighting equipment design

- Mechanical system
- Electrical system
- Hazardous material facility

Plant • Utility plumbing design

- Pipeline network analysis
- Pipeline stress analysis
- Pipeline structure design

Building equipment remodeling

- Exploration of applicable project
- Project feasibility analysis
- Economic feasibility analysis

Construction supervision

- Building equipment
- Electrical and communication equipment
- Fire fighting equipment

Our Objectives



Major Accomplishment

● Industrial facilities

- CHINA ZPSS STS EXPANSION PROJECT Mechanical System Design
- Vietnam POSCO Special Steel Minimill Mechanical System Design
- Brazil CSP Integrated SteelWorks Mechanical System Design

● General buildings

- Hotel Inter-Burgo EXCO Equipment System Design
- IAAF World Championships Daegu 2011 Stadium Electrical System Design and Inspection
- Daegu Textile Complex Mechanical System Design
- KNU Biotechnology building - 2 Mechanical System Design
- SK Leader's View residential and commercial complex Mechanical / Electrical System Design and Supervision



Energy Division

Our Business

Energy division performs services on new & renewable energy, energy efficiency consulting, climate change strategy consulting and T.A.B & commissioning for the reduction of energy consumption and greenhouse gas emission.



New & Renewable Energy

Sinil E&C was selected as the company to carry out a government project since 2010 which supports a portion of the installation charge of new and renewable energy facilities to distribute those facilities widely. We cover whole procedures from system design of facility application to construction.



Energy Efficiency Improvement Services



BEMS/FEMS Construction Support Project

Building/Factory Energy Management System(BEMS/FEMS) developed to enhance energy efficiency in operating buildings and factories by monitoring and analyzing the energy consumption.



Energy Management System(EnMS) Support Project

Energy Management System is a standardized energy management system. It standardizes activities of the entire members of an organization to save energy and enhance energy efficiency in a systemic and continuous way.



Green Remodeling service

Sinil E&C offers energy audit for aged buildings to find the energy loss factors and improve energy performances by green remodeling. It provides a pleasant environment to resident and enhance the value of buildings.



Energy Audit & ESCO (Energy Service Company) service

Energy audit helps energy-intensive companies to discover energy savings potential and take optimal measures to raise energy efficiency. The ESCO Program provides financial support to business that retrofit energy facilities and guarantee the ensuing effect.



Energy Use Plan Consulting

Sinil E&C's energy use plan consulting helps public or private parties who are planning land development before construction.



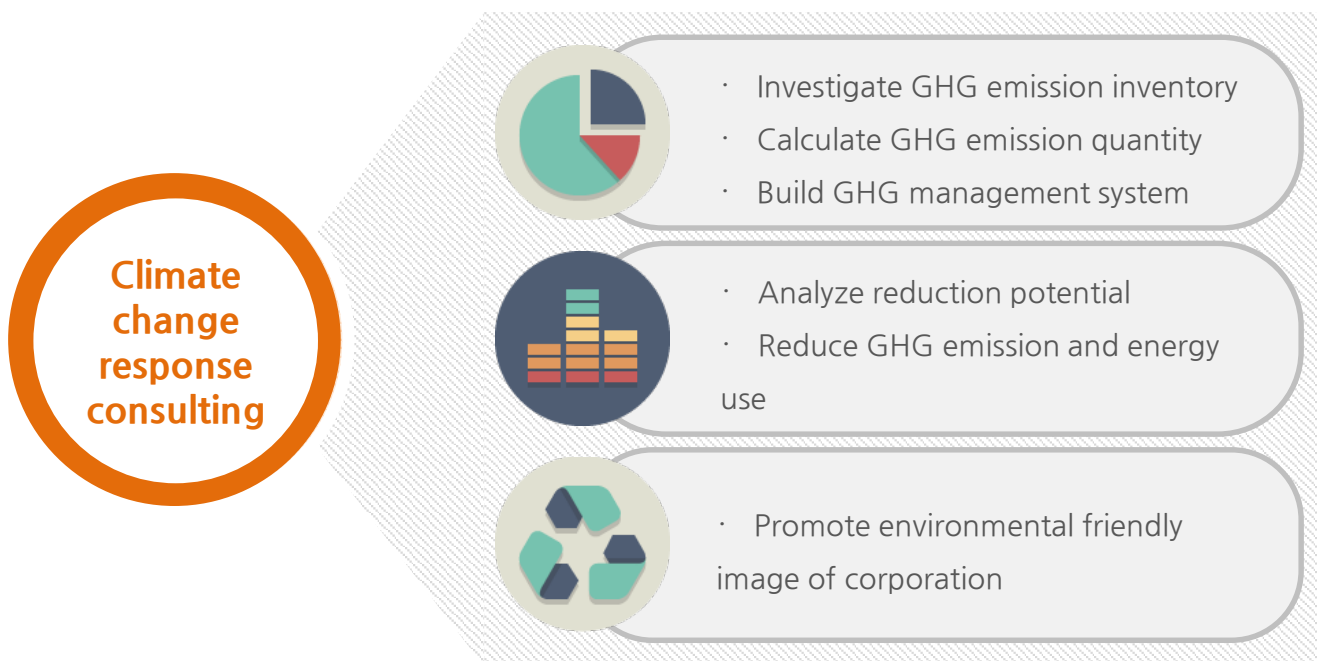
Building Energy Efficiency Certification

New and existing buildings of all purposes are certified for 10 different grades for their energy performance, based on their performance in energy usage and carbon emission to promote high efficiency buildings.

Strategy on the Climate Change Consulting

With the importance of the reduction of greenhouse gas(GHG) become more and more significant globally, a variety of efforts to implement a mandatory reduction target by the Climatic Change Convention has been involved.

Korea Government also implement GHG and Energy Target Management Scheme for energy intensive businesses since 2012 to respond the international reduction demand. Sinil E&C provides total-service for corporations to effectively achieve the reduction target of energy usage and GHG emission; guideline for inventory establishment, calculation of the quantity of GHG emissions and reduction and submission of statement and allocation form.



T.A.B & Commissioning

T.A.B(Testing, Adjusting and Balancing) are the three major steps used to achieve proper operation of heating, ventilation, and air conditioning systems.

Our T.A.B specialist performs air and hydronic measurements on the heating, ventilation, and air conditioning systems and adjusts the flows as required to achieve optimum performance of the building environmental equipment. Also we provide a written report which summarizes the testing and balancing and notes any deficiencies found during the T.A.B work.

Major Accomplishment

● New & Renewable Energy

- Gyeongbuk Cultural Content Promotion Center
- A million household Green Home supply project since 2010

● Energy Efficiency Improving Service

- DAS Corp. (automotive part manufacturing facility) EMS building project
- KUNHWA-TRELLEBORG Corp. ICT Energy management system
- KCC Corp. Cheon-an factory Energy audit
- Kyungpook national university hospital energy audit
- PAVCO Co., Ltd. Waste heat recovery heat exchanger
- TK CHEMICAL Corp. Su-ji factory high speed turbo blower



● Strategy on the Climate Change Consulting

- SEOHAN ENP Corp. establish inventory, statement, monitoring plan, allocation form
- PACIFIC METALS Corp. establish inventory, statement, monitoring plan, allocation form
- DELKOR Corp. establish inventory,, statement, action plan, performance report
- Ulsan Metropolitan City Hall establish inventory, statement, action plan, performance report

● T.A.B & Commissioning

- Daegu Trade Hall T.A.B Service
- Korea Institute of Brain Science T.A.B service
- Korea Institute for Robot industry advancement T.A.B Service
- POSCO Synthetic natural tatural gas(SNG) Plant T.A.B Service





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