ENERGY SOLUTION

New & Renewable Energy / Energy Efficiency / Environment





BEYOND YOUR IMAGINATION, SOOSUNG!

VISANG 2021

Global TOP "200" No accident and zero "0" 2-gether " Customer Satisfaction "1st place"

MISSION

We contribute to the happiness of society and humanity by providing the best technology with human and technical defect.

CORE VALUE

SLOGAN

Pure passion **Professional pride Creative Collaboration** Challenges for the best Beyond Your Imagination, SOOSUNG!

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INTRODUCE

Date of establishment	January 25, 1991	Address	Soo-sung winners B/D, 13, Jeongui-ro 8gil, Songpa-gu, Seoul, Republic of Korea		
CEO & Chairperson	Park, MiRye				
Total Workforce	810	Homepage	http://www.soosungeng.com		
	High Technology Industry	Knowledge-based Industry			
	 Renewable Energy 	 Engineering activity service 			
	Photovoltaic, Solar Thermal, Bio, Geo Therma	al, Industi	Industry / Environment / Electric		
Business Area	Wind Power, Fuel cell, Ocean Energy,				
	Hydro Power, Waste Energy, Heat Recovery, etc.				
	Energy Service Company(ESCO)				
	Green Remodeling Business				

TOTAL WORK FORCE: 810





COMPANY HISTORY

2018	9	Mar.	Institution specializing in Underground Safety Impact Assessment (Reg. No. Gyeongnam-10)
2015	•	Oct.	Construction Business for Development and Utilization of Groundwater (Reg. No. 2015-5)
2015	•	Oct.	Registered to Green Remodeling Business (Reg. No. 02-5-0012)
2013	•	July.	Registered to Electric Works (Reg. No. Gyeonggi-04170)
2011	•	July.	Registered to Mechanical & Equipment construction (Reg. No. Anyang-11-10-08)
2011	0	June.	Registered to Energy Service Company (ESCO)
2006	•	June.	Registered to Anyang City Government for facility management & maintenance service (Reg. No. Anyang-06-29-03)
2005	•	Feb.	Acquired overseas construction license from Ministry of Construction & Transportation (License. No. 253)
2002	•	Jan.	Registered to GyeonggiProvincial Government as a costruction supervision of electric facilities (Reg. No. Gyeonggi2-154)
2001	•	Oct.	Merged with Doosan Engineering Consultants Co., Ltd.
2001	0	Mar.	Changed the firm name (SoosungTechnology Group Co., Ltd.) to SoosungEngineering Co., Ltd.
1996	•	Mar.	Changed the firm name (SebangTechnology Group Co., Ltd.) to SoosungTechnology Group Co., Ltd.
1995	•	Mar.	Registered construction management & supervision to Ministry of Construction & Transportation (Reg. No. 13)
1993	•	July.	Registered engineering activity service to Korea Engineering & Consulting Association (Reg. No. 10-079)
1992	•	Oct.	Registered public topographical survey to Ministry of Construction & Transportation (Reg. No. 06-1006)
1991	•	Jan.	Registered specialized technology consulting service to Ministry of Science & Technology
1991	0	Jan.	Founded SebangTechnology Group Co., Ltd.

BUSINESS AREA

New & Renewable Energy

Photovoltaic, Wind Power, Geo Thermal, Sewage, Fuel cell, etc.

Energy Efficiency

Factory (Electric, Heat, Process Improvement) Building (Envelop, air-conditioning, LED)

Environment

Waste Recycling (SRF, Biomas)













Water Resources



Airport



Water Supply & Sewerage



Port



Environment







Bridges & Structures



Renewable Energy



Urban Development

PHOTOVOLTAIC

Photovoltaic?

- Photovoltaic is energy generation method to convert solar radiation into direct current electricity using semiconductors that exhibit photovoltaic effects.



SCOPE OF WORKS

Project Management Consultancy

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Technical Assistance

- Funding and Consulting
- EPC(Engineering Procurement Construction)

MAJOR PROJECT

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2014 ~ 2017	Private House (88 Sites)	NRE Home Subsidy Business(Solar), 3kW (88 Sites)	
2014	Garak Jeil Gas Station	NRE Building Subsidy Business(Solar), 12kW	Comas Solar
2015	Global Ministry Network	NRE Building Subsidy Business(Solar), 13kW	photovoltaic power pla (286kW)
2015	Togokri Outdoor Fishing	NRE Building Subsidy Business(Solar), 12kW	
2016	Evergreen Jingun Church	NRE Building Subsidy Business(Solar), 30kW	
2017	Comas solar	Comas Solar photovoltaic power plant, 286kW	
2018	Power Hx	JHG Power photovoltaic power plant, 372kW	JHG Power photovoltaic power pla (372kW)

• NRE Home/Building Subsidy Business

The government provides subsidies for the installation of new and renewable facilities to residential buildings

ESS | Energy Storage System

ESS?

- A system improves the quality of the energy supply by storing energy and supplying stored energy in required situations such as lowering power rates or responding to blackout.



PEAK SHIFT ESS

• To shift the power peak, the power is stored at midnight through an ESS(Energy Storage System) and then discharged at a time when the power demand is rapidly increasing



WIND POWER GENERATION

Wind Power Generation?

- Technology to produce electricity by converting wind energy

- A clean renewable energy without any pollutants





APPLICATION



Mountain



On Shore



SCOPE OF WORKS

- Project Management Consultancy
- Technical Assistance

- Funding and Consulting
- EPC(Engineering Procurement Construction)



HYDROPOWER GENERATION

Hydropower Generation?

- Technology to produce equal or less than 10,000kW electricity by using the force generated by water drop or pressure
- Clean energy sources applicable to agricultural reservoirs, sewage treatment plants and multi-purpose reservoirs



Technical Assistance

WORKS

- Funding and Consulting
- EPC(Engineering Procurement Construction)



FUEL CELL

Fuel Cell?

- New High-efficiency and Eco-friendly energy system that produces electricity and heat energy



TECHNOLOGY INTRODUCTION

- Overall efficiency of fuel cell is 90% (power generation efficiency: 47 ~ 60%, thermal efficiency: 30 ~ 43%)
- Since the installation area is small, it is possible to distribute fuel cell appropriately
 - It can be used fuels as LNG, biogas, and hydrogen





MAJOR PROJECT

Year	Client	Information
2014 ~ 2016	Private House (66 Sites)	NRE Home Subsidy Business(Fuel Cell), 1kW (66 Sites)
2015	SEJONG	NRE Building Subsidy Business(Fuel Cell), 5kW
2015	PYUNG HWA OIL SEAL	NRE Building Subsidy Business(Fuel Cell), 5kW
2015	HYUNDAI BNGSTEEL	NRE Building Subsidy Business(Fuel Cell), 5kW
2015	GUMI GANG DONG HOSPITAL	NRE Building Subsidy Business(Fuel Cell), 30kW
2017	Chungnam Bathhouse	NRE Building Subsidy Business(Fuel Cell), 10kW

NRE Home/Building Subsidy Business

The government provides subsidies for the installation of new and renewable facilities to residential buildings

WASTE ENERGY

Waste Energy?

- Technology to produce electricity and heat through incineration of Flammable waste
- Mechanical / Biological treatment system (MBT) ensures the uniformity of input as well as stability of incineration facilities and improves both incineration and power generation efficiency



ESCO | ENERGY SERVICE COMPANY

ESCO?

- It is a business which can be substituted for energy-saving facilities without any technical & economical burden to users





CHARACTERISTIC

- Decrease energy expenses by installing energy saving facilities without advanced investment cost - Saving energy consumption cost without investment
- Saving prepared investment budget for energy reduction
- Free from technical and financial risks caused by investment for energy saving facilities - ESCO Consultants cover technical and financial risk for investment for energy saving facilities
- ESCO Consultants provide professional service for energy saving
 Energy consumer can reduce time, manpower and expenses by providing One-stop
 Professional services including design, purchase, construction, auditing and maintenance

APPLICATION



Process improvement



Waste heat recovery



High efficiency equipment



LED



DR	Project	Installation of waste heat recovery boiler of ESCO business	
ECT	Client	GAON CABLE	
	Annual energy cost savings	\$ 58,216 USD	
	Annual energy savings	85.9 TOE	

SMART CITY

Smart City?

- Smart City efficiently manage assets and resources by using various types of electronic data collection sensors of the city.
- Smart City proposes improvement plans by collecting and analyzing energy usage information for buildings, industries and transportation.



BEMS&FEMS

- A 'BEMS&FEMS' maximizes energy consumption efficiency by collecting and analyzing the energy consumption information of a building and Factory
- Reduce energy consumption, energy optimized operation and carbon emissions through more efficient production activities





