



 **HANEOLNURI**
Haneolnuri Co., Ltd.

Photovoltaic Power Generation systems

Street Lamps

SPC (Solar Power Controller)

Monitoring System

LED

Information & Communications

Electrical & Firefighting equipment

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Haneolnuri
Corporate
Catalog Contents

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GREEN ENERGY SOLUTION

Solar Energy & Energy Storage System

We provide higher technology and better service to fulfill your expectations.



Haneolnuri
homepage



See
promotional
video



Haneolnuri Fields of Business

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About Haneolnuri

Haneolnuri, a company leading the way to the society of the future where humanity and nature coexist with eco-friendly new and renewable technology!

Korea along with the rest of the world are focusing on the development of new and renewable energies to replace energy produced by environmentally damaging fossil fuels.

Our company is one that leads the way in the energy industry of the future in its dreams for sustainable development centered on people and the environment and a Green New Deal. We are moving forward to become a leading company in the renewable energy industry by actively utilizing the energy provided by nature and based on continuous research and development, and will always practice ethical management in which people, customers, families and society come first.

Since its founding in 2001 as an electric and professional firefighting company, Haneolnuri Co., Ltd. has received certifications as a company in uninterrupted power supply construction, underground wiring, and solar power generation construction, now growing into a technology leader in the new and renewable (solar) energy industry.

We are leading the energy industry of the future and pursuing top-notch quality and service through technical know-how and excellent quality, and through creative effort and innovative growth through the green renewable energy industry, we will continue to grow as a Green New Deal corporation pursuing a harmony centered on people and the environment.

Quality and customer satisfaction through flawless safety construction

To achieve this policy we have set the following management goals, and will do our utmost to establish a promotion plan by department and a quality management system to achieve organizational performance.



Company History

- 2020**
 - Innovative management (Main-Biz) SME certificate
 - Innovative technology (Inno-Biz) SME certificate
 - Chungbuk Star Company Designated
 - Chungbuk Province star company designation
 - SPC (Solar Power Controller) CE certification
 - Solar Street Lamp controller KC certification
 - Solar junction box KS certification
 - Patents registered
 - Street lamp design -
 - Solar tracking devices -
 - Solar street lamps and their operation -
 - Energy storage system to extend battery life and its control -
 - Adjusting height of solar structures according to subsidence of soft ground -
- 2019**
 - AS exclusive company selection for 4 consecutive years
 - Korea Energy Agency New / Renewable Energy Center
 - Excellent technology company: technology evaluation (T-3) certification (NICE-2019-36-000447)
 - Software business registration (BIP-174643-00D)
 - Patent registration
 - Solar module performance evaluation method and system
 - Patents pending (3 types)
 - Solar street lamps and operation : patent 10-2019-017913 pending
 - Solar tracking device : patent 10-2019-0166665 pending
 - Street lamp design : patent 30-2019-0057739 pending
- 2018**
 - Venture business certification(No. 20180107121)
 - Excellent Technology Evaluation Company (T4) certification (NICE-2018-77-002017)
 - Registered trademarks
 - Independent solar power system control device and control method -
 - Silicon ingot manufacturing device -
 - Information and communication construction business type added
- 2017**
 - Company-affiliated research institute establishment (No. 2017113086)
 - Military service designated company selection (Chungbuk Province Military Manpower Administration)
 - Excellent Technology Evaluation Company (T5) certification (NICE-2017-77-003593)
 - Overseas construction business declaration (No. 1923)
 - Family-friendly certified company selection (No. 2017-0288, Ministry of Gender Equality and Family)
 - Quality management system certification - ISO9001(Q427217)
 - Environmental management system certification - ISO14001(E210717)
- 2016**
 - Quality certification (Q-Mark) designation
 - Solar power system on-grid type (11 types) (L135(01)-2016-101) -
 - Solar power system support fixtures (11 types) (S32-2016-003) -
 - Excellent employment company certification (Chungbuk Province Employment Act Article 47)
- 2015**
 - Factory registration (Jecheon, Chungbuk Province)
 - solar power generation devices
 - Jodal County Office multiple supplier agreement
 - solar power generation devices (23 types)
 - Quality management system certification
 - ISO 9001 certificate (QA107415)
 - Korea Energy Agency New / Renewable Energy Center
 - Selected as participating company in new / renewable energy supply business
- 2014**
 - KEPCO
 - Underground distribution company certification [Uninterruptible electrical construction subsidiary company]
 - KEPCO
 - 170KV Acquired extra high voltage cable connection license
- 2013**
 - KEPCO
- 2012**
 - KEPCO
- 2011**
 - KEPCO
 - Qualified company registration for overhead corridor transmission line construction
 - KEPCO
 - Qualified company registration for 345 KV substation construction work
- 2010**
 - Registration as professional installation company for new / renewable energy facilities (No. 2010-5925)
- 2009**
 - KEPCO
- 2008**
 - KEPCO
- 2007**
 - KEPCO
- 2006**
 - KEPCO
- 2005**
 - Registration as firefighting facility construction company (No. 2005-17)
- 2004**
 - KEPCO
 - Uninterrupted electrical work construction certification (No. 49)
 - HQ relocation
 - Chungcheongbuk-do Province, Danyang County
 - Renaming to Haneolnuri Co., Ltd.
- 2003**
 - KEPCO
- 2002**
 - KEPCO
- 2001**
 - Corporation founded
 - Daeha Electric Firefighting Co., Ltd. (Andong City, Gyeongbuk Province)

Haneolnuri Fields of Business



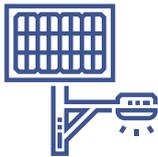
Photovoltaic Power Generation Systems

- Power generation business equipment
- Private vehicle equipment
- Distribution models (government support business)
- Support fixtures
- Junction box
- ESS



SPC(Solar Power Controller)

- Efficient battery management
- Display power management
- Sunrise / sunset lighting control



Street Lamps

- Solar Street Lamps
- AC Street Lamps
- AC Connected Street Lamps



LED

- Security lamps
- Street lamps
- Tunnel lamps
- Renewable solar lamps



Haneolnuri stands side by side with you to make a better future.

We are a company that dreams of sustainable development through renewable energy in harmony with people and the environment.



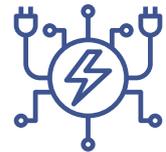
Monitoring System

- Remote two-way control
- Street lamp monitoring
- Solar power system monitoring



Electricity

- Transmission / substation work
- Distribution work (manufacturing, underground)
- Railway electricity / signals
- Landscape lighting and street lamp construction
- General construction and industrial electrical work
- EV (electric vehicle) charging business



Firefighting

- Warning equipment
- Fire extinguishing equipment
- Evacuation equipment



Information and Communications

- Wired/wireless communication construction
- communication power supply (DC, AC, storage batteries, generators, ground work) construction
- Highland relay station maintenance and construction
- High-speed internet
- 5G repeater installation and maintenance



Haneolnuri Certificates and Licenses

Corporate certificates



Chungbuk Province Star Enterprise designation



Innovative management (Main-Biz) SME certificate



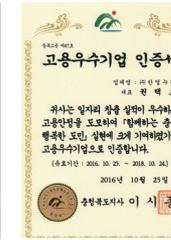
Innovative technology (Inno-Biz) SME certificate



Venture business confirmation



Family-friendly certification



Excellent employment company certificate



Company-affiliated research institute

Registration certificates



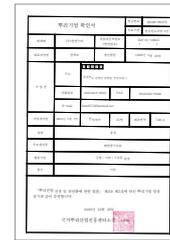
Trademark registration certificate



Business registration certificate



Factory registration certificate (Eumseong)



Root company confirmation certificate



Software business declaration confirmation



Information and communication construction business registration certificate



Electric construction business registration certificate



Firefighting facility business registration certificate



Overseas construction business declaration confirmation certificate

Haneolnuri, a company that's certified!
Our research for customer satisfaction continues every day.

We at Haneolnuri research and develop in certification and licensing every day for good quality products and safe construction. Going forward, we will continue to grow and develop to achieve 100% customer satisfaction.

Patents



- Solar module performance evaluation methods and related systems (10-1946380)
- Solar tracking device (10-2143959)
- Street lamp design (30-1066324)
- Solar street lamps and their operation (10-2163719)



- Silicon ingot manufacturing device (10-1698540)



- Independent solar power system control device and control method (10-1294807)



- Battery life extending energy storage system and control method (10-1761035)



Quality, environmental certificates



Q Mark designation



ISO 9001 quality certificate



ISO 14001 quality certificate

Product certificates



SPC CE certificate



Solar street lamp controller KC certification



Solar junction box KS certification

Business Areas and Installations

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Photovoltaic Power Generation Systems



Solar power generation with Haneolnuri



Maximum generation output for minimum investment cost

Lower investment costs to a reasonable level and increase power generation through Haneolnuri's 10+ years of technology and know-how.



Thorough monitoring, meticulous maintenance

We detect product abnormalities in advance through power generation monitoring to minimize damages, and boast the longest maintenance period in the industry.



Market analysis to improve profitability

We take a strategic approach by analyzing factors affecting unit price such as electricity market historical data and trends, global market trends etc. to improve profits for the customer.



Pursuing customer satisfaction with quality products

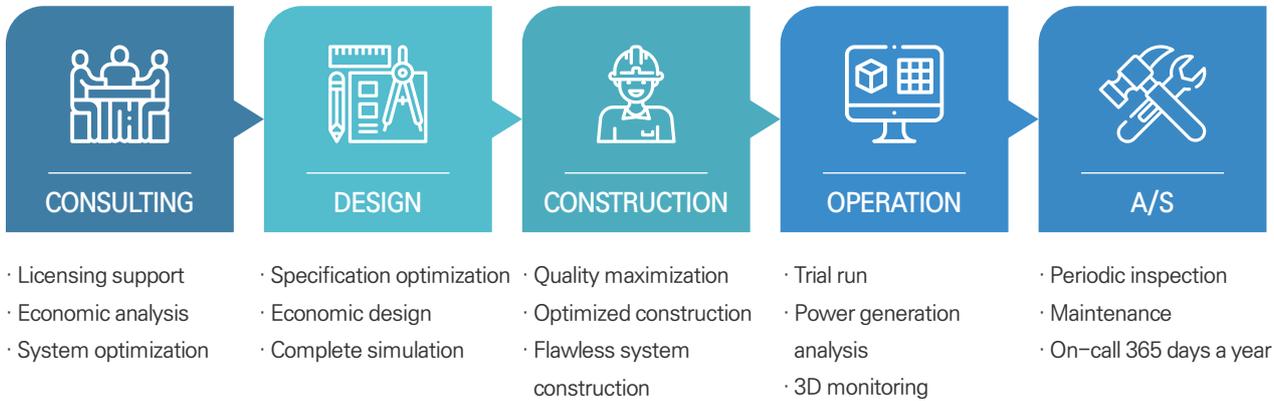
We pursue satisfaction and happiness in our customers through quality products.



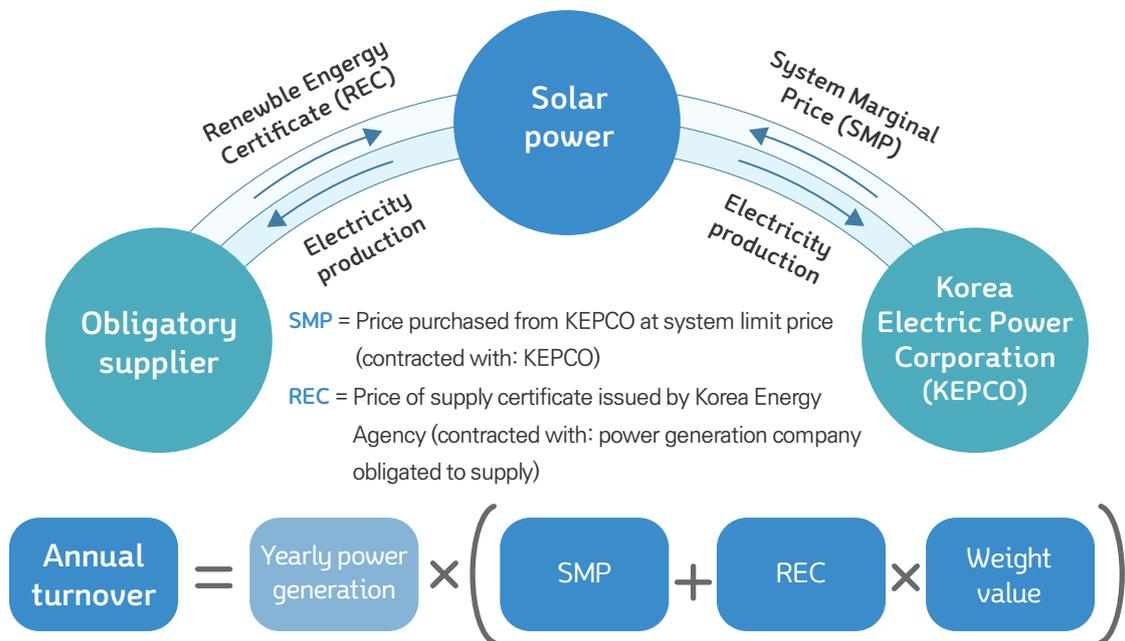
Thinking of the future

Haneolnuri carries out research for sustainable development and coexistence between people and nature for a better future.

Solar power construction process



Solar power business profit structure



Korea sees an average of 3.6 hours of sunshine per day.

Based on this, **annual power generation (kWh) = solar panel installation capacity (kW) x 3.6 (hours) * 365 days.**

Photovoltaic Project Installations

Photovoltaic Project Installations



Gwangil 1,998.72kW
(Jecheon, Chungbuk Province)



Cheonhwang Mountain 795.6kW
(Goseong, Gyeongnam Province)



Hyundai 997.92kW
(Sangju, Gyeongbuk Province)



Wimi Village, Jeju 997.58kW



SM(Jeju City) 149.76kW



Sampo No. 3 120.0kW
(Hongcheon, Gangwon-do Province)



Sinsong Farm 4.62kW



Apartments (Daegu City)



Natural recreation forest
(Sobaek Mountain)

Government supply / local government support installations



Housing solar power support projects



Housing solar power support projects



Building solar power support projects



Building solar power support project



Senior center solar power support projects



Senior center solar power support projects



Housing solar power support projects



Housing solar power support projects



Housing solar power support projects

Solar Street Lamps

Haneolnuri Solar Street Lamp 4 Key Points



Power control patent technology application

Haneolnuri's unique patented power control technology uses real-time battery level monitoring to watch for battery overcharging or complete discharging, power control to extend battery and street lamp service life, and prevents unlit lamp situations in advance.



Power management through displays

Unlike conventional solar street lamps, the display allows for checking, setting and control of street lamps so that they can be optimized to your needs.



Single-axis solar tracking system

Sunlight can be tracked by comparing and analyzing Haneolnuri's unique solar data and measured data in real time, for a unique solar tracking system that allows securing that much more power even in the same situation.



Optimized batteries

Unlike batteries used in existing street lights, ours have few risk factors such as overheating, making them effective in extending street lamp life thanks to low battery capacity reduction rate from discharge. The battery is also easy to handle with the ability to provide a stable supply of power regardless of the season, making it suitable for solar street lamps.

Power management function through displays exclusive to Haneolnuri and the only system of its type in Korea!



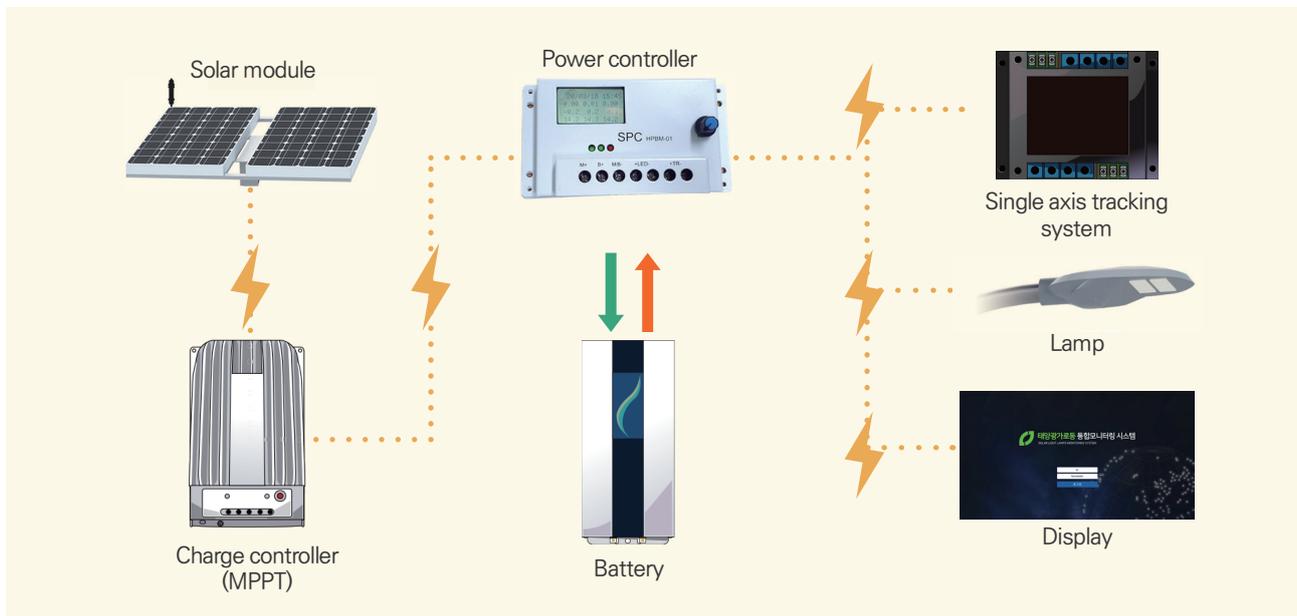
Electricity operation display items

- Battery level
- Uptime remaining
- Time to full charge
- Cumulative power generation
- Current supply amount



Power control setting items

- Battery control reference point
- Lowest battery point
- Street lamp lighting how-to



Patented power control management technology unique to Haneolnuri! Solve problems with lighting and extend the life of street lamp



- Patent (No. 10-1294807)
Independent power generation system control devices and methods
- Patent (No. 10-1946380)
Solar module performance evaluation method and system
- Patent (No. 10-2163719)
Solar street lamps and their operation

Solar Street Lamps

General models



General Model Specifications



Model Name	HSS-B40W5M	Charge Controller	DC12V 20A / PWM
Solar Module	80Wp × 2EA	Product height	5M
LED Lamp	40W	Material	STS304
Battery Capacity	144Ah / 10.8V(3S)	Type	Stationary
Battery Type	Lithium ion		

Model Name	HSS-B50W5M	Charge Controller	DC12V 20A / PWM
Solar Module	100Wp × 2EA	Product height	5M
LED Lamp	50W	Material	STS304
Battery Capacity	176Ah / 10.8V(3S)	Type	Stationary
Battery Type	Lithium ion		

Model Name	HSS-B60W6M	Charge Controller	DC12V 20A / PWM
Solar Module	120Wp × 2EA	Product height	6M
LED Lamp	60W	Material	STS304
Battery Capacity	176Ah / 10.8V(3S)	Type	Stationary
Battery Type	Lithium ion		

Premium Specifications



Model Name	HSS-P40W5M	Integrated controller	12V / 60W
Solar Module	80Wp × 2EA	Product height	5M
LED Lamp	40W	Material	STS304
Battery Capacity	110Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		

Model Name	HSS-P50W5M	Integrated controller	12V / 60W
Solar Module	100Wp × 2EA	Product height	5M
LED Lamp	50W	Material	STS304
Battery Capacity	135Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		

Model Name	HSS-P60W6M	Integrated controller	12V / 60W
Solar Module	120Wp × 2EA	Product height	6M
LED Lamp	60W	Material	STS304
Battery Capacity	160Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		

Premium / AC connection specifications



Model Name	HSS-P100W9M	Integrated controller	12V / 100W
Solar Module	150Wp × 2EA	Product height	9M
LED Lamp	100W	Material	SGT275
Battery Capacity	270Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		

■ AC connection type

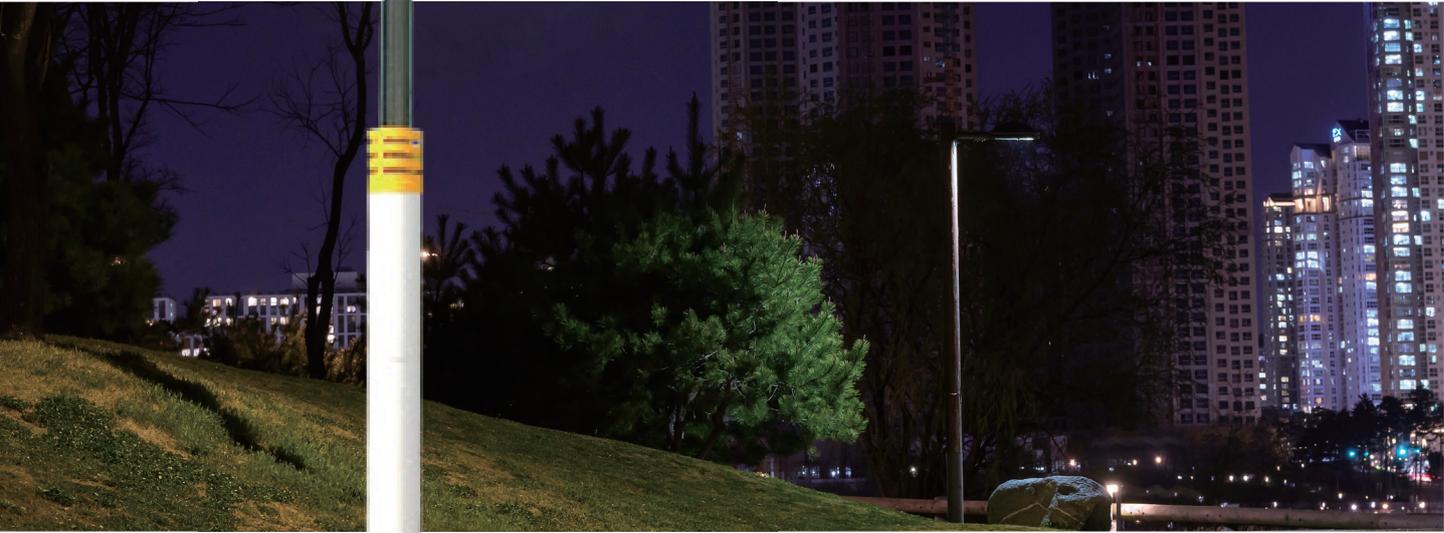
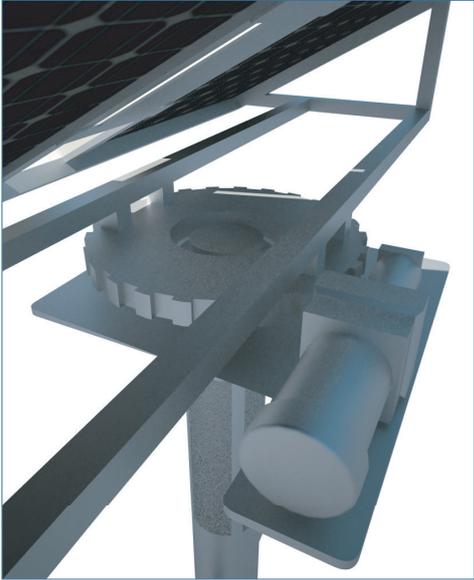
※Normal: Solar street lamp mode

※Emergency: AC-powered street lamp mode

Model Name	HSS-P60W6ML	Integrated controller	12V / 60W
Solar Module	80Wp × 2EA	Product height	6M
LED Lamp	60W	Material	STS304
Battery Capacity	110Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		
AC connection	Yes		

Model Name	HSS-P100W9ML	Integrated controller	12V / 100W
Solar Module	100Wp × 2EA	Product height	9M
LED Lamp	100W	Material	SGT275
Battery Capacity	135Ah / 12.8V(4S)	Type	Stationary
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * KC certification (electromagnetic compatibility registration) * CE certification
Charge Controller	DC12V 20A / MPPT		
AC connection	Yes		

Tracking Type



Tracking Type Specifications



Model Name	HSS-T40W5M	Integrated controller	12V / 60W
Solar Module	80Wp × 2EA	Product height	5M
LED Lamp	40W	Material	STS304
Battery Capacity	110Ah / 12.8V(4S)	Type	Tracking type
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * Patent (10-2143959) * KC certification (electromagnetic compatibility registration) * CE certification
Solar Tracking Controller	DC 12 / 4A V3(Programmable)		
Solar Tracking Sensor	Single Axis Sensor		
Charge Controller	DC12V 20A /MPPT		

Model Name	HSS-T50W5M	Integrated controller	12V / 60W
Solar Module	100Wp × 2EA	Product height	5M
LED Lamp	50W	Material	STS304
Battery Capacity	135Ah / 12.8V(4S)	Type	Tracking type
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * Patent (10-2143959) * KC certification (electromagnetic compatibility registration) * CE certification
Solar Tracking Controller	DC 12 / 4A V3(Programmable)		
Solar Tracking Sensor	Single Axis Sensor		
Charge Controller	DC12V 20A /MPPT		

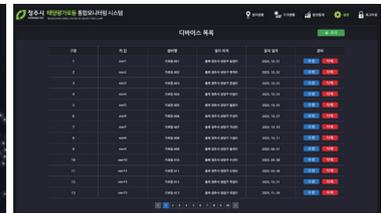
Model Name	HSS-T60W6M	Integrated controller	12V / 60W
Solar Module	120Wp × 2EA	Product height	6M
LED Lamp	60W	Material	STS304
Battery Capacity	160Ah / 12.8V(4S)	Type	Tracking type
Battery Type	Lithium iron phosphate	Tech Certifications	* Patent (10-2163719) * Patent (10-2143959) * KC certification (electromagnetic compatibility registration) * CE certification
Solar Tracking Controller	DC 12 / 4A V3(Programmable)		
Solar Tracking Sensor	Single Axis Sensor		
Charge Controller	DC12V 20A /MPPT		

SPC Solar Power Controller

Haneolnuri's unique patented power control technology!



Prevents battery overcharging or complete discharging to extend service life and avoid unlit lamps



Specification	Details	
Battery charge monitoring Max voltage 36V, 15A (30A)	- Time setup by lamp lighting mode Battery charge level check	- Charge and discharge status monitoring - Battery charging voltage, built-in MICOM for current control
12V, 100W street lamp control	- Battery level display - Remaining operating time - Built-in MICOM with monthly sunrise/sunset times	- Cumulative power generation - Current supply display - Lighting method control by lamp status
Various lighting and battery cut-off modes via high-precision RTC	- Remainder display only using battery voltage - Cumulative power generation display	- Display time to full charge - Lamp accumulated consumption display
50W light and tracker control (based on 12V nominal voltage)	- LED lighting control according to remaining battery - Battery low point control reference (lowest point)	- Battery storage control point (reference point) - Tracking device accumulated consumption display
GLCD for charging and discharging voltage/current monitoring and power cut off level setting function	<ul style="list-style-type: none"> - Provides a solution to maximize system stability and efficiency using independent solar power system control devices and optimized program algorithms - Uses power control parts to control battery charge and discharge and supply the minimum power required for the load in order to control the charge controller, resulting in cost savings through extended battery life - Maximization of solar power generation energy efficiency by using a single axis control motor that tracks sunlight with a simultaneous analysis comparing it to seasonal data - Microcontroller (MCU) control allows maintaining performance during periods of increased sunless days usually leading to failing street lamps, reduced battery life, and low and high temperatures 	

Monitoring System



Integrated monitoring system and mobile app

This system is a unit-based and integrated monitoring system that connects new and renewable energy power generation and electrical facilities through IoT technology, allowing real-time monitoring to ensure the safety of customers from accidents such as electric fires and electric discharge, an increase in operating efficiency and electrical equipment maintenance, as well as equipment-related data storage and analysis in real time when abnormalities take place.

It allows the user to understand the operating status and to respond quickly through alarm messages via PC or smartphone without needing to visit the site to do so.

It collects information such as power generated and operation status of renewable energy generation (solar) facilities including temperature, voltage, current, power factor and leakage current, making real-time monitoring and response possible by using SK Telecom's LoRa network to transmit data collected in real time to a remote server to detect risk factors in advance such as distribution board fires. Push and standard messages can also be send to smartphones, and communication security has been achieved by establishing stable network management and wireless VPN service using SKT's LoRa network. We continue to upgrade our services provided through maintenance in our continual pursuit of perfection.

LED

Haneolnuri LED to save energy!

Our lamps use LED made from large domestic Korean companies to provide high color rendered light that is as close as possible to natural light itself. The result is a low power, high output LED lamp with a high power factor and high efficiency inverter.

While existing solar street lamps turn on their LED through voltage change via a converter, our new and renewable LED lamps are directly connected to the battery to remove the need for unnecessary power conversion, improving the lifespan of street lamps that are otherwise unnecessarily short due to converter electronics with a shorter lifespan than the LED themselves.

Renewable solar lamps				
Model				
Model Name	HSL-L30D	HSL-L60D	HSL-L90D	HSL-L120D
Dimensions (mm)	634*271*108	634*271*108	634*271*108	710*330*120
Watt	30W	60W	90W	120W
IV (LM) @7DDMA	5700K	5700K	5700K	5700K
CCT	3400	6800	10200	13600
approval	Green certification	Green certification	Green certification	Green certification
CRI (RA)	80	80	80	80
LM/W	137	137	137	137
PKG	Samsung	Samsung	Samsung	Samsung
Input voltage	12V	12V	12V	12V
IP	67	67	67	67

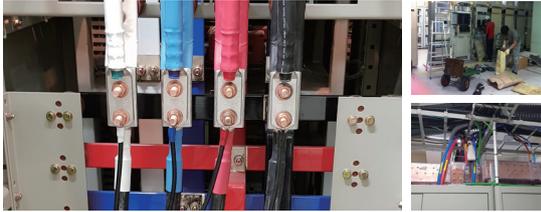
AC Lamps	Security lamps			Street lamps		Tunnel lamps	
Model							
Model Name	HSL-L30A	HSL-L60A	HSL-L90A	HSL-L100A	HSL-L120A	HTL-L100A	HTL-L200A
Dimensions (mm)	634*271*108	634*271*108	634*271*108	710*330*120	710*330*120	468*407*106	683*407*106
Watt	30W	60W	90W	100W	120W	100W	200W
IV (LM) @7DDMA	5700K	5700K	5700K	5700K	5700K	5700K	5700K
CCT	3400	6800	10200	11320	13600	11320	22640
approval	- KC certification - High efficiency certification	- KC certification - High efficiency certification	- KC certification - High efficiency certification				
CRI (RA)	80	80	80	80	80	80	80
LM/W	137	137	137	137	137	137	137
PKG	Samsung	Samsung	Samsung	Samsung	Samsung	Samsung	Samsung
Input voltage	95~235V	95~235V	95~235V	95~235V	95~235V	95~235V	95~235V
IP	67	67	67	67	67	67	67



Solar Street Lamps Installations



Information & Communications



Communication power (generator) construction

Replacement of generators past useful life and maintenance of defective facilities (generator replacement and maintenance 10 kw – 6,000 kw)



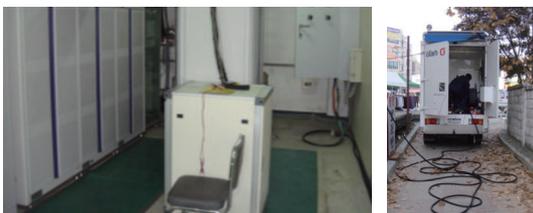
Communications power supply (ground work) construction

Construction and supplementary work on grounding facilities for information and communication facilities (communications, security, lightning rod construction)



High altitude relay station maintenance and construction

Grounding facility management for prevention against lightning, power facility stabilization maintenance



Electric vehicles (EV)

Replacement of batteries exceeding useful life and defective battery equipment (battery replacement, battery voltage, impedance defective cell replacement)

5G repeater installation and maintenance

Communication power (DC) construction

DC (direct current) replacement and extension work of equipment exceeding useful life (rectifiers, DC boards, DC distribution panels, converters, air conditioners, etc.)



Communications power (AC) construction

Replacement and extension work on distribution/UPS facilities exceeding useful life (power distribution facilities, uninterrupted power supply devices, STS facilities)



Communications power (battery) construction

Replacement of batteries exceeding useful life and maintenance of defective batteries (battery replacement, battery voltage, impedance defective cell replacement)



High-speed internet

Mobile power generation vehicle support projects to stabilize power facilities (BBS, BBC, BBH, BBP, etc.)



Electrical & fire-fighting equipment

Top of the line experts in electricity / firefighting

As the industry develops nationwide, buildings are growing in height and depth and the risks of disasters occurring grow due to factors such as increases in energy consumption, and along with this comes an increased importance for electric / specialized firefighting and experts to carry out this vision in order to keep society safe. Before such risks, Haneolnuri pledges to do its utmost to counteract them and improve public safety.

Electrical equipment installations



Power supply equipment



Distribution work



Railway electricity / signals



Building construction



Electric interior construction



Electric interior construction



Apartment construction



Plant construction



University construction



Landscape lighting



LED landscape lighting



Plant lighting



Road lighting



Interior lighting



Standard lighting

Firefighting equipment installation



Fire extinguishing equipment



Firefighting MCC panels



Alarm equipment



Sensors



Easy sprinklers



Fire hydrant equipment

Haneolnuri Major Projects

Major Projects

30

Major Projects

Project Name	Ordered by	Project Amount (unit: 1000 KRW)	Construction Completion
Kori No. 2 in-house auxiliary transformer secondary cable maintenance work	KEPCO KPS	108,614	2007. 06
Sobaeksan Mountain experiential learning center electrical work	Danyang County office	106,804	2007. 11
2008 electric facility improvement work	11th fighter wing, Air Force	111,573	2008. 01
Wando and Mokpo solar cable installation	Power Point Co., Ltd.	215,850	2008. 09
2007 KEPCO Danyang Branch high pressure construction B	KEPCO Danyang Branch	1,402,362	2008. 12
New electrical work for automated greenhouse for ginseng and medical herb research	National Institute of Horticultural Science	150,202	2009. 01
2009 KEPCO Danyang Branch high pressure unit price construction A	KEPCO Danyang Branch	1,056,025	2009. 12
Hyeongseok High School dormitory extension electrical work	Hyeongseok High School	170,423	2010. 01
Connecting 3.3 kv and 6.6 kv cables to Hyundai Steel Dangjin Plant	Pyungil Co., Ltd.	175,000	2010. 02
08-75-8 electric work	Gongjun Central Management Team	402,834	2010. 05
2010 KEPCO Danyang Branch high pressure unit price construction A	KEPCO Danyang Branch	359,716	2010. 12
2010 KEPCO Danyang Branch high pressure unit price construction A	KEPCO Danyang Branch	760,403	2010. 12
Submarine cable connection for Woljeong-ri Offshore Wind Power Complex Unit 1	Pyungil Co., Ltd.	143,504	2011. 05
66 kv civil petition-related relocation for Sintanjin section of Sujeon line	Union Co., Ltd.	307,492	2011. 06
Danyang S/S 154kV and #2Sh.C Installation	KEPCO Jecheon Construction Office	132,416	2011. 08
Submarine cable connection for Woljeong-ri Offshore Wind Power Complex Unit 2	Pyungil Co., Ltd.	128,480	2012. 03
Highway No. 1 East Gimcheon intersection electrical work	Korea Expressway Corporation Gyeongbuk Region HQ	548,834	2012. 11
Korea National University of Transportation Central Library remodeling electrical work	Korea National University of Transportation	225,988	2013. 03
Dowon Solar Power Plant installation (1Mw)	Dowon Solar Power Plant	1,629,600	2014. 01
Elderly welfare facility simple sprinkler installation (7 locations)	Danyang County Office	116,697	2014. 02
New other construction for Taebaek Line Jecheon - Ssangyong double track tramway	Korea Rail Network Authority	3,249,263	2014. 07
345kV Seoanseong - Sinjincheon T/L steel tower foundation reinforcement	KEPCO Chungbuk Regional Headquarters	459,046	2014. 12
Gukwon dormitory repair and reinforcement (firefighting)	Korea National University of Transportation	107,384	2014. 12
Naebuk Gungji-gu embankment raising Jijangju relocation (2nd) construction	KEPCO Chungbuk Regional Headquarters	118,261	2015. 04
Seoul Outer Ring Road Howon Intersection and office electrical work	Korea Expressway Corporation Capital Region HQ	1,161,246	2015. 04
2015 Cheongju City senior citizen center solar power installation - 42 locations	Cheongju City Hall	357,000	2015. 07
Magok District Intercity 365 Hotel Solar Power Plant Installation	Yeonhun Corporation	148,500	2015. 08
DNP Corporation Solar Power Plant installation (61.75Kw)	KT	133,650	2015. 09
Nonghyup Moguchon Gimje Meat Processing Plant (201.6kW)	GNS Engineering	178,200	2015. 11

Major Projects

Project Name	Ordered by	Project Amount (unit: 1000 KRW)	Construction Completion
Danyang Dasarang Elderly Nursing Home (40kW)	Jodal / Danyang County Office	101,643	2015. 12
Naedeok-dong medical facility (root hospital) temporary power and power line installation	Sinjeongam Construction Co., Ltd.	220,000	2015. 12
Cheonhwangsan Mountain Solar Power Plant Installation (electric power line work)	NH Development Co., Ltd.	256,835	2016. 03
Iwol Nonghyup Hanaro Mart new construction	Iwol Nonghyup Cooperative	382,049	2016. 05
Danyang County senior center solar auxiliary work (Deokhyeon Senior Center etc., 27 locations)	Korea Energy Agency	304,684	2016. 07
2016 building support (Bok Yeonggyu etc., 14 locations)	Korea Energy Agency	171,770	2016. 07
2016 building support (Bok Yeonggyu etc., 14 locations)	Danyang County Office	229,500	2016. 08
Jecheon Danyang Livestock Cooperative Local Foods remodeling (electric / communications / firefighting)	Jecheon Danyang Livestock Cooperative	127,516	2016. 09
345kV Sinokcheon - Buk Gyeongnam T/L lightning rod installation	KEPCO Chungbuk Regional Headquarters	337,039	2016. 11
Gwangil Solar Plant (2Mw)	Gwangil Solar	3,172,455	2016. 11
Wonju - Jecheon double track rail interference signal equipment relocation other construction	Korea Rail Network Authority Gangwon Headquarters	1,795,715	2016. 12
Jeju Yeondong 2 solar power equipment	Korea Land and Housing Corporation	140,274	2016. 12
Sobaeksan Natural Recreation Forest construction /electrical work/ solar power generation devices	Danyang County Office	114,696	2016. 12
Baedudaegan green theme experience center construction	Danyang County Office	176,693	2017. 01
2016 Jecheon S/S Geumseong D/L supply capacity expansion	KEPCO Chungbuk Regional Headquarters	138,876	2017. 02
Cheongju Nonghyup HQ extension and remodeling (electrical work)	Cheongju Nonghyup	210,606	2017. 03
Sobaeksan Mountain Natural Recreation Forest house in the forest new construction	Danyang County Office	174,770	2017. 04
Oseon industrial complex wastewater connection treatment facility electrical work	Eumseong County Office	252,180	2017. 05
Danyang Senior Welfare Center remodeling (electrical work)	Danyang County Office	252,180	2017. 06
2017 solar residential support project (Kim Seonwook etc., 14 locations)	Korea Energy Agency	145,250	2017. 06
2017 building support (Chung Juseon etc., 9 locations)	Korea Energy Agency	267,800	2017. 06
E-Pyeonhan Sesang Daegu Geumho Apartments solar equipment supply and installation (73.5kW)	GNS Engineering	148,500	2017. 06
Hoam Gym solar power facility installation (50kW)	Chungju City Hall	105,342	2017. 06
North Danyang Nonhyup HQ extension + renovation (firefighting work)	North Danyang Nonhyup	104,000	2017. 07
Namseong, Sannam, Seonghwa Middle Schools LED lamp replacement electrical work	Cheongju Office of Education	101,536	2017. 08
Manhakcheonbong Observatory landscape lighting Installation	Danyang County Office	566,200	2017. 09
Future Area new warehouse construction firefighting work	GRM	205,940	2017. 09
Track circuit repair work for Chungbuk Line rail lengthening	Korail	142,622	2017. 10
Danyang Elementary multipurpose classroom and other electrical work	Danyang Office of Education	379,175	2017. 10

Project Name	Ordered by	Project Amount (unit: 1000 KRW)	Construction Completion
Firefighting work for raw material storage building holder expansion	GRM	312,100	2017. 10
SMSolar Power Plant construction work (148.484kW)	SMSolar Power Plant	256,520	2017. 12
Sambong Bridge landscape lighting installation	Danyang County Office	485,730	2017. 12
154kV Danyang – Yeongwol CC T/L No. 49 safe separation security construction	KEPCO Chungbuk Regional Headquarters	224,498	2018. 01
Yeungnam University solar power R&BD demonstration complex construction facility Installation	Yeungnam University	875,000	2018. 05
KEPCO solar power equipment support project–solar panels (Yeongnam Region)	Korea Energy Foundation	213,517	2018. 07
KEPCO solar power equipment support project–solar panels (Yeongnam Region)	Korea Energy Foundation	314,657	2018. 07
Yeongdong No. 1, 2 energy Gonari system installation conditional purchase	Korea South–East Power Co. Yeongdong Eco Power HQ	211,493	2018. 07
Jangnak Elementary solar power electrical work gov’t–supplied materials (solar power generation devices 50kW)	Jecheon Office of Education	101,682	2018. 07
Danyang Elementary solar installation and LED gov’t–supplied material purchase for lighting replacement (50 kW)	Danyang Office of Education	101,682	2018. 08
Hansup Middle School new building gov’t–supplied materials (fuel cells) purchase	Gyeonggi–do Yongin Office of Education	409,643	2018. 10
Manjong Energy Solar Power Plant construction work (97.92kW)	Manjong En	176,000	2018. 11
Sangju Hyundai Solar Power Plant construction work (1,000kW)	Sangju Hyundai Co., Ltd. Solar Power Plant	1,782,000	2018. 12
South Jeju Wimi Village 2nd solar power equipment construction	Korean Southern Power Co., Ltd.	1,486,100	2018. 12
2018 solar residential support project (Kim Hyeonjeong etc., 44 locations)	Korea Energy Agency	2,824,200	2018. 12
2018 solar building support (Onnuri Farm etc., 21 locations)	Korea Energy Agency	457,608	2018. 12
2018 solar village support project (Go Yeonghwan etc., 34 locations)	Korea Energy Agency	183,535	2018. 12
Harmonious energy independence Danyang–eup convergence project (2nd)	Danyang County Office	149,700	2018. 12
19 locations including nearby Chungbuk Line Cheongju – Ogeunjang (lower) 11,968kW track circuit repair work for rail lengthening	Korail	254,878	2018. 12
Electricity supply work for Gimpo Daebyeok–ri 2nd site construction	Seo Hae Construction	285,500	2019. 01
Standard electrical work for Ansan Hospital medical support building + other extension work	Poonglim Industries	678,700	2019. 02
Community Credit Cooperatives Incheon Regional HQ Hall new construction (solar) 86.4kW	Hanjin Heavy Industries	177,356	2019. 02
Hyoju Solar Power Plant construction work (195.84kW)	Hyoju Solar Power Plant	345,400	2019. 03
Pureun Solar Power Plant construction work (76.16kW)	Pureun Solar Power Plant	128,135	2019. 05
Hyeongok Solar Power Plant construction work (195.84kW)	Hyeongok Solar Power Plant	369,000	2019. 07
Sewon Solar Power Plant Construction (97.92kW)	Sewon Solar Power Plant	176,000	2019. 07
Gaya Solar Power Plant Construction (97.92 kW)	Gaya Solar Power Plant	176,000	2019. 07
EcoPro BM CAM5–Project power equipment construction	EcoPro PM	935,000	2019. 08

Major Projects

Project Name	Ordered by	Project Amount (unit: 1000 KRW)	Construction Completion
Gasan No. 1 Solar Power Plant Installation	Gasan No. 1 Solar Power Plant	115,500	2019. 08
Electrical work for Dongchun Block 4 Seohae Grand Bleu new construction	Seo Hae Construction	1,973,000	2019. 09
Firefighting work for Dongchun Block 4 Seohae Grand Bleu new construction	Seo Hae Construction	223,000	2019. 09
IC work for Dongchun Block 4 Seohae Grand Bleu new construction	Seo Hae Construction	270,000	2019. 09
Daejeon 1-ri Village Center solar power installation	Daejeon 1-ri Village Center	99,990	2019. 10
Hwasan-dong Community Center solar power installation	Chungbuk Jodal Office	68,893	2019. 11
KEPCO happy sunshine power generation facility support project (Chungcheong Region)	Korea Energy Foundation	524,264	2019. 11
Haesang Solar Power Plant Installation	Haesant Solar Power Plant	580,723	~
Hugok-ri Solar Power Plant Installation	Hugok-ri, Danyang County	148,500	2019. 11
MPlus Oksan Factory Solar Power Plant Installation	EM Storage Co. Ltd.	399,850	2019. 12
2019 Danyang County convergence business	Danyang County Office	59,696	2019. 12
Samcheonpo Power Plant idle facility utilization solar power equipment installation	Korea South-East Power Co., Ltd.	2,149,604	~
Sinincheon Parking Lot solar power equipment installation conditional purchase	Korea South-East Power Co., Ltd.	1,226,500	2019. 12
Smart transportation convergence building electrical work	Korea National University of Transportation	1,169,276	~
19-Aerial-00 unit - firefighting work for refueling facility improvement	Armed Forces Financial Management Corps	388,201	~
Storage device purchase for high-speed video playback	Kangwon Land Co., Ltd.	241,464	2019. 12
Maepo Traditional Market purchase and installation of fire alarm facilities	Danyang County Office	65,976	2020. 03
2019 EV charging field management device installation	KEPCO Chungbuk Headquarters	68,808	2020. 02
2020 street and security lamp installation (Danyang, Gagok, Jeokseong)	Danyang County Office	78,250	2020. 03
20-terrain analysis system replacement (lease items) (208080-A)	Armed Forces Financial Management Corps	658,303	~
2020 Danyang County convergence support project	Danyang County	351,566	~
2020 renewable energy residential support project	Korea Energy Agency	354,800	~
Cheongju City industrial complex renewable project (electrical work)	Chungcheongbuk-do Province, Cheongju City	1,998,843	~
Hongseong - Dangjin West Sea Line double track train power facility new construction	Korea Rail Network Authority	3,563,050	~
Dongchungju industrial complex Jeonju relocation work	KEPCO Chungbuk Headquarters	144,602	~
Gosu - Cheondong tourism road expansion and street lamps	Chungcheongbuk-do Province, Danyang County	69,498	~



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 **HANEOLNURI**
Haneolnuri Co., Ltd.

Head office 1, Sangjin 14-gil, Danyang-eup, Danyang-gun, Chungcheongbuk-do Tel.82-43-423-9939 / Fax.82-43-423-9940

Gangwon Branch 1F 35, Ihwa 4-gil, Wonju-si, Gangwon-do Tel.82-33-742-0827

Factory 90-4, Seonjeong-ro 97beon-gil, Samseong-myeon, Eumseong-gun, Chungcheongbuk-do Tel.82-43-883-6731 / Fax.82-43-883-6732

Subsidiary research institute Room 317, 76, Yeongudanji-ro, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do Tel.82-43-715-9971~5

