

# energreen asia



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# Who We Are?

We develop, build, own and operate renewable energy plants.

# Our Mission

Promote sustainable and eco-friendly energy sources, reducing carbon emissions and creating a better future for generations to come.

# Our Value

Innovation, Excellence, Integrity, and Teamwork. We are dedicated to building strong relationships with our partners, stakeholders, and communities.



Energreen Asia is a leading renewable energy company of green energy in South East Asia, made up by a multidisciplinary and international team with extensive experience in the renewable and efficiency energy

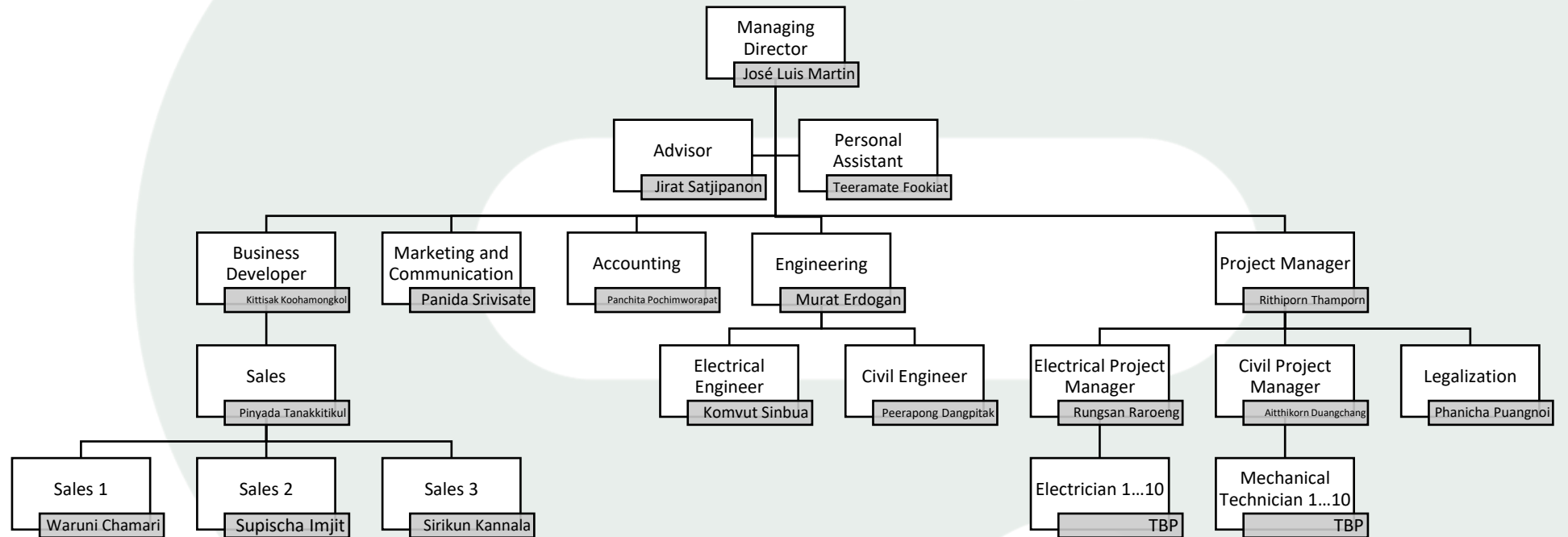


## Who We Are?

Over 15 years of experience in solar systems in Europe and Asia  
Focus on solar saving energy solution for utilities, industrial, commercial, communities and home user  
More than 100 MW and hundred of solar installations in our background



# Our Team



# Why Energreen?

- ✓ Our key to success is derived from our vast networks of highly experienced team members who possess excellent know-how in bringing a wide range of projects to a successful completion.
- ✓ We enjoy and take pride in what we do and as one of the solar EPC leaders in the region, our team members are passionate about creating access to efficient economical and clean energy.

Teamwork

Reliability

Transparency

Experience

Flexibility

**Competitiveness**



# Our Customers



# Our Customers





# Track Record





## BASIS INTERNATIONAL SCHOOL, SECOND PHASE, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	237.6 kWp
<b>Annual Energy Yield</b>	335 MWh
<b>Avoided CO<sub>2</sub></b>	172 Tons
<b>Solar Panels</b>	Jinko Solar JKM 550 Watts
<b>PV Inverters</b>	Huawei SUN2000 50KTL
<b>Commission Date</b>	October 2023



## FOLIES, SAMUT SAKORN

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	158.4 kWp
<b>Annual Energy Yield</b>	870 MWh
<b>Avoided CO<sub>2</sub></b>	120 Tons
<b>Solar Panels</b>	Jinko Solar JKM 550 Watts
<b>PV Inverters</b>	Huawei SUN2000 50KTL
<b>Commission Date</b>	October 2023



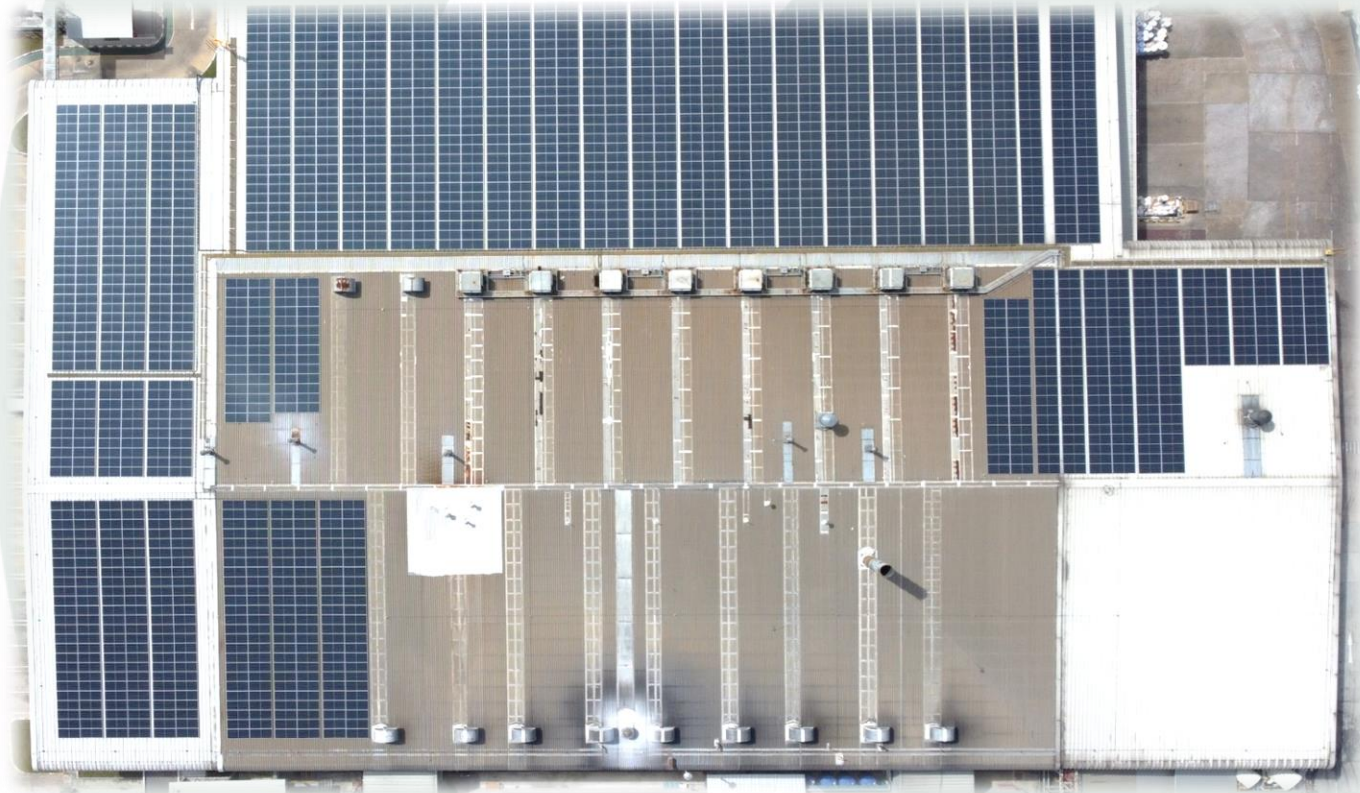
## NATURE SPICE, AYUTTHAYA

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	249.7 kWp
<b>Annual Energy Yield</b>	373 MWh
<b>Avoided CO<sub>2</sub></b>	190 Tons
<b>Solar Panels</b>	Jinko Solar JKM 550 Watts
<b>PV Inverters</b>	Huawei SUN2000 50KTL
<b>Commission Date</b>	September 2023



## AVERY DENNISON, THIRD PHASE, RAYONG

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	203.04 kWp
<b>Annual Energy Yield</b>	302 MWh
<b>Avoided CO<sub>2</sub></b>	155 Tons
<b>Solar Panels</b>	Jinko Solar JKM 470 Watts
<b>PV Inverters</b>	SolarEdge SE90K
<b>Commission Date</b>	September 2023



## AVERY DENNISON, SECOND PHASE, RAYONG

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	336.16 kWp
<b>Annual Energy Yield</b>	684 MWh
<b>Avoided CO<sub>2</sub></b>	350 Tons
<b>Solar Panels</b>	Jinko Solar JKM 460 Watts
<b>PV Inverters</b>	SolarEdge SE90K
<b>Commission Date</b>	February 2022



## HERBA EBRO, SARABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	600.875 kWp
<b>Annual Energy Yield</b>	870 MWh
<b>Avoided CO<sub>2</sub></b>	450 Tons
<b>Solar Panels</b>	Jinko Solar JKM 575 Watts
<b>PV Inverters</b>	Huawei SUN2000 50KTL
<b>Commission Date</b>	September 2023



## SIKA FACTORY2, SARABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	178.6 kWp
<b>Annual Energy Yield</b>	243 MWh
<b>Avoided CO<sub>2</sub></b>	125 Tons
<b>Solar Panels</b>	Jinko Solar JKM 470 Watts
<b>PV Inverters</b>	Huawei SUN2000 100KTL
<b>Commission Date</b>	January 2023





### SIKA FACTORY3, SARABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	249.1 kWp
<b>Annual Energy Yield</b>	345 MWh
<b>Avoided CO<sub>2</sub></b>	180 Tons
<b>Solar Panels</b>	Jinko Solar JKM 470 Watts
<b>PV Inverters</b>	Huawei SUN2000 100KTL
<b>Commission Date</b>	January 2023



## SADESA KABINBURI, PRACHINBURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	999.6 kWp
<b>Annual Energy Yield</b>	1446 MWh
<b>Avoided CO<sub>2</sub></b>	742 Tons
<b>Solar Panels</b>	Jinko Solar 400 Watts
<b>PV Inverters</b>	Huawei SUN2000 60KTL
<b>Commission Date</b>	JULY 2020



### SADESA SENA, AYUTTHAYA

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	1999.92 kWp
<b>Annual Energy Yield</b>	3000 MWh
<b>Avoided CO<sub>2</sub></b>	1540 Tons
<b>Solar Panels</b>	Jolywood JW 600 Watts
<b>PV Inverters</b>	Huawei SUN2000 50 KTL
<b>Commission Date</b>	May 2023





## DECATHLON, CHIANG MAI

<b>PPA</b>	Energreen ESCO
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	298.08 kWp
<b>Annual Energy Yield</b>	464 MWh
<b>Avoided CO<sub>2</sub></b>	230 Tons
<b>Solar Panels</b>	Jinko Solar 460 Watts
<b>PV Inverters</b>	Huawei SUN2000 100 KTL
<b>Commission Date</b>	January 2022



## DECATHLON RAMA2, BANGKOK

<b>PPA</b>	Energreen ESCO
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	310.04 kWp
<b>Annual Energy Yield</b>	467 MWh
<b>Avoided CO<sub>2</sub></b>	232 Tons
<b>Solar Panels</b>	Jinko Solar 460 Watts
<b>PV Inverters</b>	Huawei SUN2000 60 KTL
<b>Commission Date</b>	June 2021



## DECATHLON BANGYAI, BANGKOK

<b>PPA</b>	Energreen ESCO
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	307.2 kWp
<b>Annual Energy Yield</b>	433 MWh
<b>Avoided CO<sub>2</sub></b>	220 Tons
<b>Solar Panels</b>	Jinko Solar 400 Watts
<b>PV Inverters</b>	Huawei SUN2000 60 KTL
<b>Commission Date</b>	Jan 2021



### DECATHLON BANGNA, SAMUT PRAKAN

<b>PPA</b>	Energreen ESCO
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	298 kWp
<b>Annual Energy Yield</b>	430 MWh
<b>Avoided CO<sub>2</sub></b>	220 Tons
<b>Solar Panels</b>	Jinko Solar 400 Watts
<b>PV Inverters</b>	Huawei SUN2000 60 KTL
<b>Commission Date</b>	May 2020





## INTERNATIONAL COMMUNITY SCHOOL, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	511.5 kWp
<b>Annual Energy Yield</b>	740 MWh
<b>Avoided CO<sub>2</sub></b>	380 Tons
<b>Solar Panels</b>	JINKO JKM 550M WATTS
<b>PV Inverters</b>	Huawei SUN2000 50 KTL
<b>Commission Date</b>	August 2023





## BANGKOK PATANA SCHOOL PHASE1, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	702 kWp
<b>Annual Energy Yield</b>	1 GWh
<b>Avoided CO<sub>2</sub></b>	512 Tons
<b>Solar Panels</b>	REC 325 WATTS PE
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	August 2018



## BANGKOK PATANA SCHOOL PHASE2, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	1183.64 kWp
<b>Annual Energy Yield</b>	1676.3 MWh
<b>Avoided CO<sub>2</sub></b>	865 Tons
<b>Solar Panels</b>	Seraphim 270/330/380
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	August 2019



## BASIS INTERNATIONAL SCHOOL, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	535.9 kWp
<b>Annual Energy Yield</b>	782 MWh
<b>Avoided CO<sub>2</sub></b>	400 Tons
<b>Solar Panels</b>	Jinko Solar 460 Watts
<b>PV Inverters</b>	Huawei SUN100/60 KTL
<b>Commission Date</b>	Jan 2021



## BANGKOK PREP SCHOOL, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	3 kWp
<b>Annual Energy Yield</b>	4.2 MWh
<b>Avoided CO<sub>2</sub></b>	2.5 Tons
<b>Solar Panels</b>	REC 245 Watts PE
<b>PV Inverters</b>	SMA SB250TL
<b>Commission Date</b>	August 2013



## LE CREUSET, LAMPHUN

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	1997.04 kWp
<b>Annual Energy Yield</b>	2975 MWh
<b>Avoided CO<sub>2</sub></b>	1477 Tons
<b>Solar Panels</b>	Jinko Solar 530 Watts
<b>PV Inverters</b>	Huawei SUN2000 100KTL
<b>Commission Date</b>	April 2021



### AVERY DENNISON, FIRST PHASE, RAYONG

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	460 kWp
<b>Annual Energy Yield</b>	685 MWh
<b>Avoided CO<sub>2</sub></b>	340 Tons
<b>Solar Panels</b>	Jinko Solar 460 Watts
<b>PV Inverters</b>	SolarEdge 82.8K
<b>Commission Date</b>	May 2021





## AB FOODS, SAMUT PRAKAN

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	999 kWp
<b>Annual Energy Yield</b>	1513 MWh
<b>Avoided CO<sub>2</sub></b>	780 Tons
<b>Solar Panels</b>	Jinko Solar 600 Watts
<b>PV Inverters</b>	SolarEdge SE90K
<b>Commission Date</b>	December 2022



## ROYAL COPENHAGEN, SARABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	824 kWp
<b>Annual Energy Yield</b>	918.6 MWh
<b>Avoided CO<sub>2</sub></b>	470 Tons
<b>Solar Panels</b>	Saraphim 390 Mono
<b>PV Inverters</b>	Huawei SUN2000 60 KTL
<b>Commission Date</b>	December 2019





## AISANA HOTEL, KORAT

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	42.56 kWp
<b>Annual Energy Yield</b>	65.28 MWh
<b>Avoided CO<sub>2</sub></b>	35 Tons
<b>Solar Panels</b>	Saraphim 380 Mono
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	August 2019



## KUK COILS, NONTHABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	58.44 kWp
<b>Annual Energy Yield</b>	85 MWh
<b>Avoided CO<sub>2</sub></b>	44 Tons
<b>Solar Panels</b>	Jinko Solar 580 Watts
<b>PV Inverters</b>	Huawei SUN2000 50 KTL
<b>Commission Date</b>	March 2023



## SIRIPAT CHARAPHAISARN, SAMUT SAKHON

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	58.44 kWp
<b>Annual Energy Yield</b>	85 MWh
<b>Avoided CO<sub>2</sub></b>	44 Tons
<b>Solar Panels</b>	Jinko Solar 580 Watts
<b>PV Inverters</b>	Huawei SUN2000 50 KTL
<b>Commission Date</b>	March 2023



## TEAM PRECISION PLC, PRACHINBURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	468 kWp
<b>Annual Energy Yield</b>	655 MWh
<b>Avoided CO<sub>2</sub></b>	335 Tons
<b>Solar Panels</b>	Canadian Solar 325 Watts
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	2018



### SANGUAN WONGSE INDUSTRIES PHASE1, KORAT

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	1 MWp
<b>Annual Energy Yield</b>	1525 MWh
<b>Avoided CO<sub>2</sub></b>	785 Tons
<b>Solar Panels</b>	Suntech 72 Cells
<b>PV Inverters</b>	ABB PV800-1000 kW
<b>Commission Date</b>	December 2015



## SANGUAN WONGSE INDUSTRIES PHASE2, KORAT

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	321.44 kWp
<b>Annual Energy Yield</b>	485 MWh
<b>Avoided CO<sub>2</sub></b>	250 Tons
<b>Solar Panels</b>	Canadian Solar 72 Cells
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	July 2017



### L.I.S INTERNATIONAL, SAMUT PRAKAN

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	230.4 kWp
<b>Annual Energy Yield</b>	330 MWh
<b>Avoided CO<sub>2</sub></b>	170 Tons
<b>Solar Panels</b>	Canadian Solar 72 Cells
<b>PV Inverters</b>	Huawei SUN2000 33 KTL
<b>Commission Date</b>	August 2017



### FUJITSU THANSTRON PHASE1, PATHUM THANI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	14.4 kWp
<b>Annual Energy Yield</b>	22 MWh
<b>Avoided CO<sub>2</sub></b>	13 Tons
<b>Solar Panels</b>	Jinko Solar 400 Watts
<b>PV Inverters</b>	Huawei SUN2000 12 KTL
<b>Commission Date</b>	June 2020





## FUJITSU THANSTRON PHASE2, PATHUM THANI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	253.8 kWp
<b>Annual Energy Yield</b>	374 MWh
<b>Avoided CO<sub>2</sub></b>	192 Tons
<b>Solar Panels</b>	Jinko Solar JKM 540 Watts
<b>PV Inverters</b>	Huawei SUN2000 100 KTL
<b>Commission Date</b>	March 2023



## AGE TERMINAL, AYUTTHAYA

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	230.4 kWp
<b>Annual Energy Yield</b>	330 MWh
<b>Avoided CO<sub>2</sub></b>	170 Tons
<b>Solar Panels</b>	CSUN 320 W 72 Cells
<b>PV Inverters</b>	Huawei SUN2000 33 KTL
<b>Commission Date</b>	February 2017



## BODYSTEEL AND SILVER, NONTHABURI

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	103.68 kWp
<b>Annual Energy Yield</b>	148 MWh
<b>Avoided CO<sub>2</sub></b>	76 Tons
<b>Solar Panels</b>	Canadian Solar 72 Cells
<b>PV Inverters</b>	Huawei SUN2000 33 KTL
<b>Commission Date</b>	December 2017



## HONDA AUTOMOBILE, KORAT

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	76.23 kWp
<b>Annual Energy Yield</b>	111 MWh
<b>Avoided CO<sub>2</sub></b>	60 Tons
<b>Solar Panels</b>	Canadian Solar 72 Cells
<b>PV Inverters</b>	Huawei 30kW
<b>Commission Date</b>	January 2016



### WATTANASUK WAREHOUSE MINBURI, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	48 kWp
<b>Annual Energy Yield</b>	70 MWh
<b>Avoided CO<sub>2</sub></b>	42 Tons
<b>Solar Panels</b>	YL 250 P
<b>PV Inverters</b>	INGETEAM Smart TL
<b>Commission Date</b>	September 2013





### SOMDEJ SOLAR POWER PLANT PAKCHONG, KORAT

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	1 MWp
<b>Annual Energy Yield</b>	1466 MWh
<b>Avoided CO<sub>2</sub></b>	750 Tons
<b>Solar Panels</b>	REC 250 PE
<b>PV Inverters</b>	Schneider XC540
<b>Commission Date</b>	September 2014





## NETHERLANDS EMBASSY, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	168.96 kWp
<b>Annual Energy Yield</b>	238 MWh
<b>Avoided CO<sub>2</sub></b>	122 Tons
<b>Solar Panels</b>	Canadian Solar 330 Watts
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	May 2020



## NORWEGIAN RESIDENCE, BANGKOK

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	14 kWp
<b>Annual Energy Yield</b>	21 MWh
<b>Avoided CO<sub>2</sub></b>	12 Tons
<b>Solar Panels</b>	REC 245 PE
<b>PV Inverters</b>	Huawei SUN2000 10 KTL
<b>Commission Date</b>	December 2013





## THONGSIMA RESIDENCE

<b>EPC</b>	Energreen
<b>Application</b>	Self-Consumption
<b>Rated System Power</b>	91.52 kWp
<b>Annual Energy Yield</b>	144 MWh
<b>Avoided CO<sub>2</sub></b>	72 Tons
<b>Solar Panels</b>	Jinko Solar 460 Watts
<b>PV Inverters</b>	Huawei SUN2000 36 KTL
<b>Commission Date</b>	October 2021

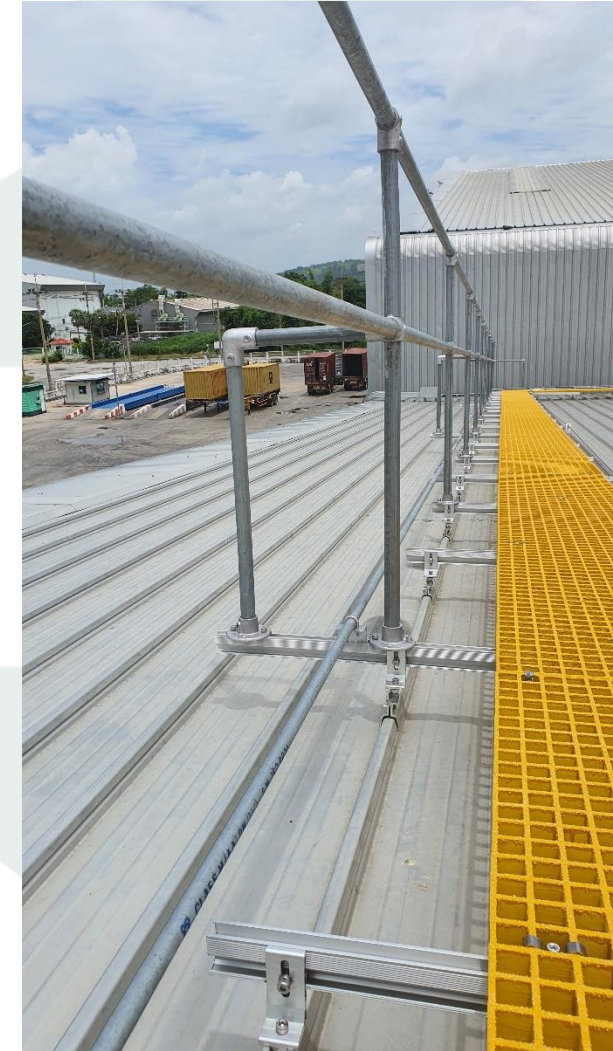
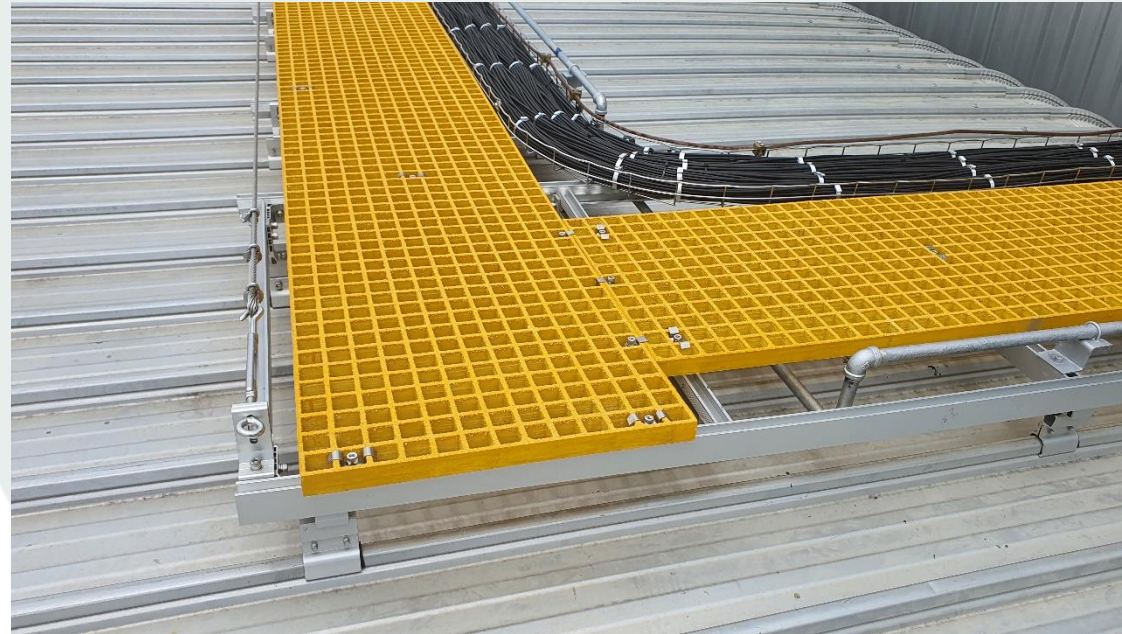


S23 Ultra

# Walkway, Lifeline, Piping



# Walkway, Lifeline, Piping



# Cleaning System



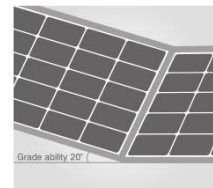
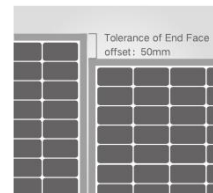
# Cleaning Robots

## Intelligent PV cleaning robot



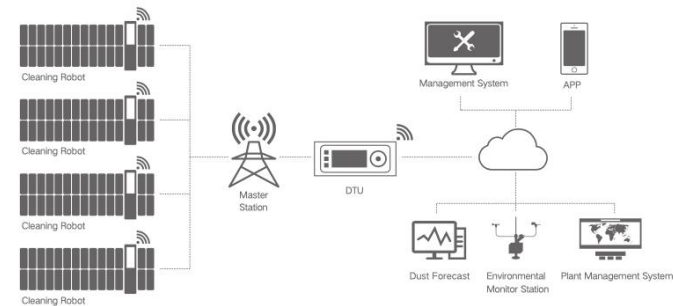
Technical Specifications of PV Intelligent Cleaning Robot

Adaptive Capability	
Tolerance of End Face offset	50 mm
Tolerance of Plane offset	50 mm
Grade ability	20°
Communication and Monitoring	
Interface	RS485, LoRa, LTE, Bluetooth
Protocol	Modbus
Control Mode	Auto, Remote, Local
Monitoring	Web, App
Power Supply	
Rated Power	84 W
Nominal Voltage	DC 24 V
Rated Current	DC 3.5 A
Battery Capacity	10.4 Ah
General Data	
Operating ambient temperature range	-30 to 60 °C
Dimension	3616*422*282 mm
Weight	50 kg
Ingress Protection	IP65 (Control part), IP54 (Drive part)
Safety Class	III
Allowable humidity range (non-condensing)	0 - 95%



## Intelligent cleaning management System

- Real-time management and control based on the technology of Internet of things.
- Smart cleaning strategy based on the integrated data.



## Highlights of Sunpure Intelligent PV Cleaning System

### Four-wheel drive

Four-wheel drive solution makes the robot more flexible, and grant it a high obstacle crossing ability for complex operating environment.

### Posture Control

The robot can recognize its real-time posture by detecting and analyzing data from sensors. With the real-time posture, robot can rectify the posture deviation and execute specified operation strategies.

### Easy O&M

Compact design and light weight for easy installation. High protection class and strict inspection for long lifecycle. A real-time and end-to-end monitoring for easy management.

### Multiple Safety Protection

Delicate mechanical structure and comprehensive control strategies keep the robot and other assets running safely.

### AI Smart Decision-making

Enabling robot smart decision-making system based on the deep self-learning technology and the integration of multi-platform data.

### Multiple Application Scenarios

Widely used in desert, gobi, fishery-PV complementary power plants, power plants in hilly areas, and agriculture-PV complementary power plants.

## Customer value



• **Save investment**  
With high quality and adaptability, CAPX and OPEX will both be saved.



• **Increase efficiency**  
Smart control and management system increase the robot operation efficiency and generating efficiency of power plant itself.





# Monitoring System

