503 GROUP ENERGY

TECHNICAL AND FINANCIAL PROPOSAL FOR CONSTRUCTION OF 20, 25MW SOLAR PV PLANT, IRAQ

Date:14 April 2025

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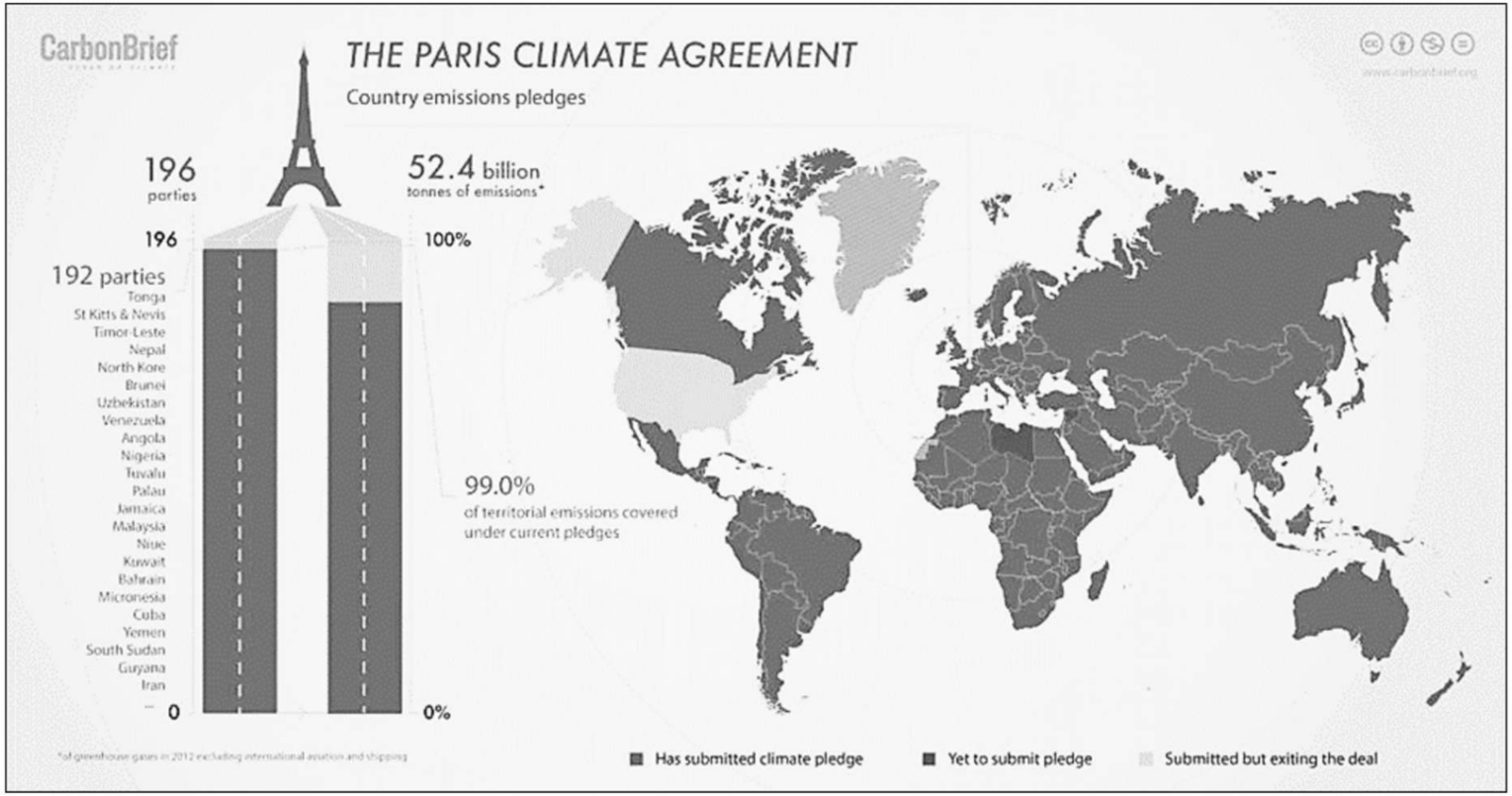
INTRODUCTION



Environmental Benefits

Climate change is a global emergency that goes beyond national borders. It is an issue that requires international cooperation and coordinated solutions at all levels.

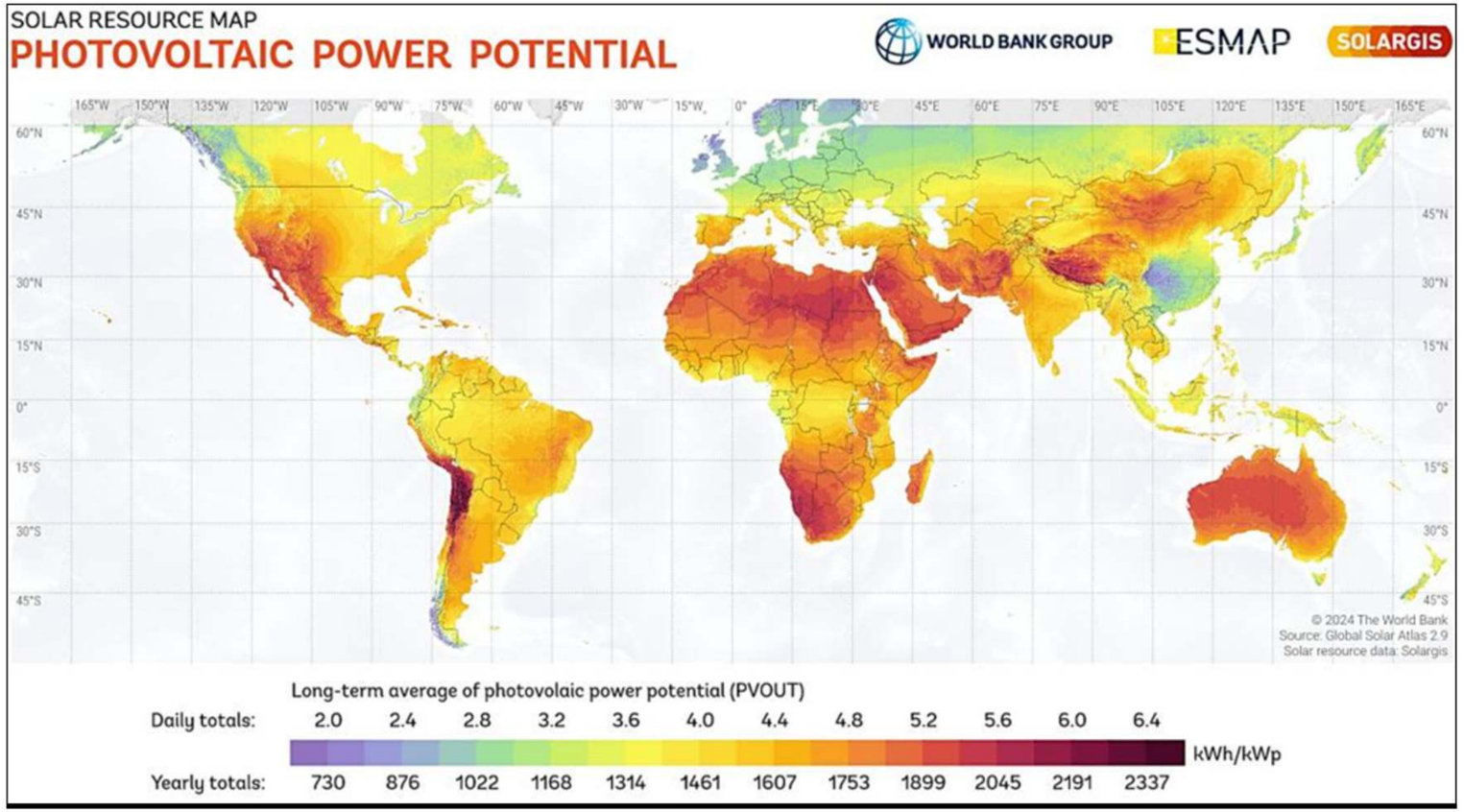
To tackle climate change and its negative impacts, world leaders at the UN Climate Change Conference (COP21) in Paris reached a breakthrough on 12 December 2015: the historic Paris Agreement.

The Agreement includes commitments from all countries to reduce their emissions and work together to adapt to the impacts of climate change, and calls on countries to strengthen their commitments over time. The Agreement provides a pathway for developed nations to assist developing nations in their climate mitigation and adaptation efforts while creating a framework for the transparent monitoring and reporting of countries' climate goals.

Iraq aims to leverage international support to reduce its greenhouse gas emissions by 15 per cent by 2030, including by reducing methane emissions from its oil and gas, agriculture, and waste sectors. Iraq demonstrated its commitment for action by signing the Global Methane Pledge, a global effort to reduce methane emissions by at least 30 per cent from 2020 levels by 2030.

The detailed global data representing the solar resource and PV power output PVOUT calculated by SolarGIS[1], released via the Global Solar Atlas is provided by World Bank as a free service to support global scale-up of solar power. It makes it possible to evaluate or compare virtually the practical PV potential map or the power output achievable by a typical configuration of the utility scale PV system for any site, region, or country. Accordingly, Iraq with high average practical PV power potential, can be considered a country with one of the most generous conditions for PV.

[1]https://solargis.com/resources/free-maps-and-gis-data?locality=world



Based on PVSyst[1] simulations of PV plant Performance, the estimated annual energy generation of 25MW solar PV plant in Iraq is 44,529,706kWh and is 35,646,136kWh for 20MW plant. By which, according to instructions of US Environmental Protection Agency[2], the estimated annual emission of 17,525 metric tons of CO_2 equivalent can be mitigated by the 25MW plant.

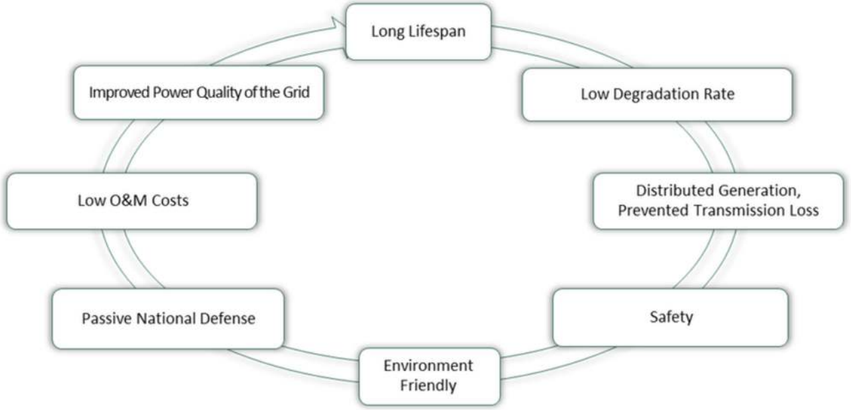
Grid-Connected Solar PV Plant

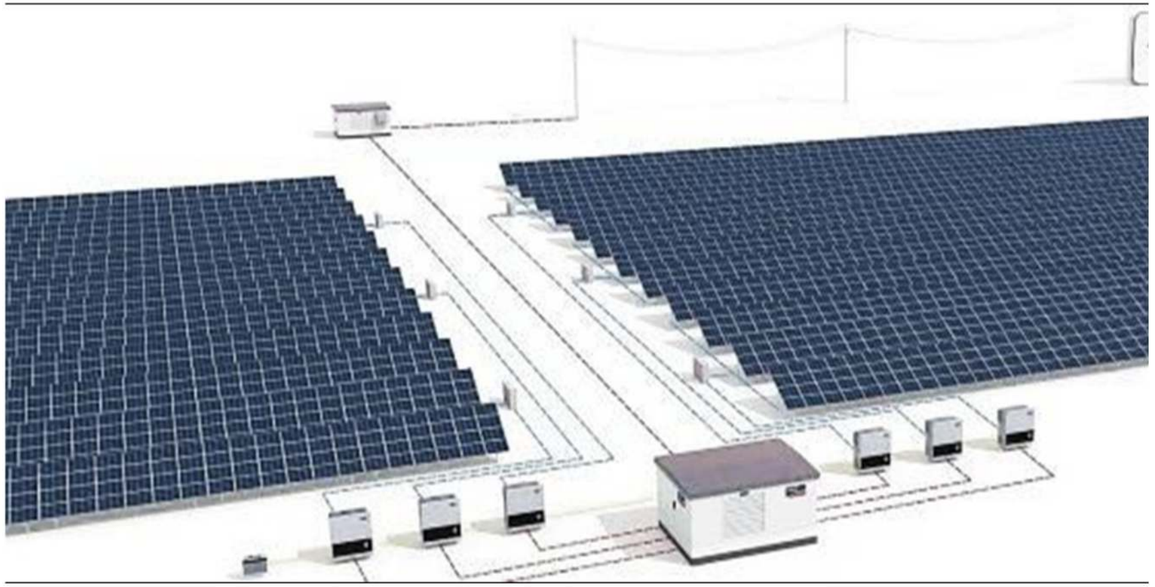
Today, most of solar PV systems are of Grid-connected type. Battery is not required in Grid-connected systems, because in the absence of solar insolation, the consumer's required energy is provided by the Grid. In the same time, the surplus energy generated by the PV plant is not wasted, being fed back into the Grid. On-Grid systems can produce electricity for a long time, without having to have too much O&M expenses. The use of PV systems as one of the distributed energy generation sources started in the 1990s.

Utility-scale power plants are developed in large (megawatt) scale and therefore have lower levelized cost of electricity LCOE compared to distributed power generators. The photovoltaic power plant converts the solar energy into electricity. This conversion takes place in solar panels. The output voltage of the solar panels is of DC type which is converted into AC power by MPPT converter in inverter. The generated electricity is injected into the Grid by transformers.

Some of main advantages of solar PV plants are as follows:

[1]https://www.pvsyst.com
[1]https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator





Utility scale solar PV plant construction considerations:

- solar insolation
- Land requirements
- Distance to Access Points
- Distance to Transmission Line
- Site topography
- Geotechnical specifications
- climatic fluctuations
- Land availability for future expansion plans

20MW PV plant constructed in Razavi Khorasan Province, Iran

10MW PV plant constructed in Kerman Province, Iran

Project: 20, 25MW Solar PV plant

Site specifications

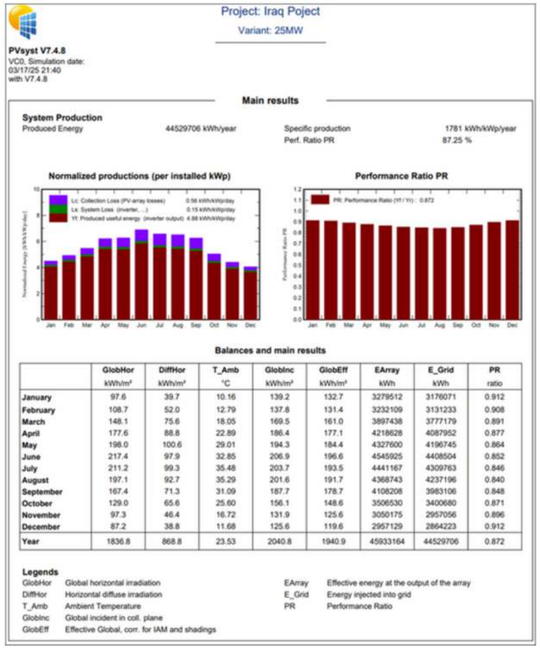
Construction site is supposed to be located in 32.38N. 44.186E geographical coordinates. The plants' capacity is 20MW and 25MW equipped with fixed 25° tilted mounting structure. PV plants are designed as integration of 5MW blocks of 54300 m2 area. Plot plan is as follows.

Technical Spec

Main material requirement and the power plant specifications are short-listed as follows:

Annual Energy Generation

The estimated specific production of PV plants, according to PVSyst simulation results (see figure below), is 1,781kWh/kWp. This corresponds to annual power generation capacity of 35,646,136kWh/Year for 20MW plant and 44,529,706kWh/Year for 25MW plant.



Project: Iraq Poject
Variant: 25MW

PVsyst V7.4.8
VC0, Simulation date:
03/17/25 21:40
with V7.4.8

Main results

System Production
Produced Energy 44529706 kWh/year
Specific production 1781 kWh/kWp/year
Perf. Ratio PR 87.25 %

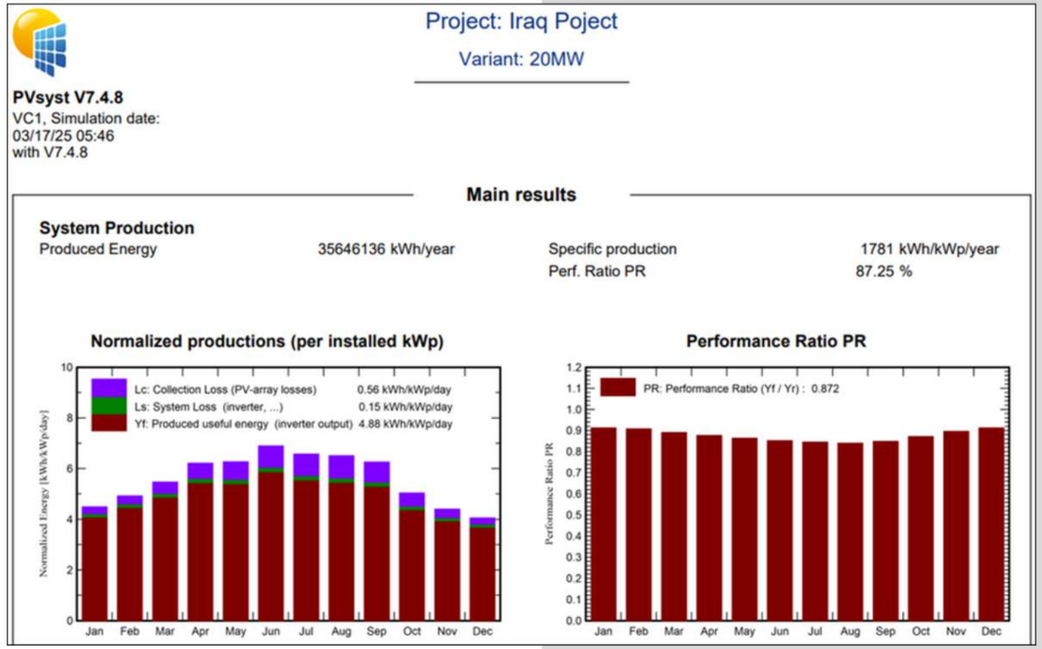
Normalized productions (per installed kWp)

Performance Ratio PR

Balances and main results

	GlobHor kWh/m²	DiffHor kWh/m²	T_Amb °C	GlobInc kWh/m²	GlobEff kWh/m²	EArray kWh	E_Grid kWh	PR ratio
January	97.6	39.7	10.16	139.2	132.7	3279512	3176071	0.912
February	108.7	52.0	12.79	137.8	131.4	3232109	3131233	0.908
March	148.1	75.6	18.05	169.5	161.0	3897438	3777179	0.891
April	177.6	88.8	22.89	186.4	177.1	4218628	4087952	0.877
May	198.0	100.6	29.01	194.3	184.4	4327600	4196745	0.864
June	217.4	97.9	32.85	206.9	196.6	4545925	4408504	0.852
July	211.2	99.3	35.48	203.7	193.5	4441167	4309763	0.846
August	197.1	92.7	35.29	201.6	191.7	4368743	4237196	0.840
September	167.4	71.3	31.09	187.7	178.7	4108206	3983106	0.848
October	129.0	65.6	25.60	156.1	148.6	3506530	3400680	0.871
November	97.3	46.4	16.72	131.9	125.6	3050175	2957056	0.896
December	87.2	38.8	11.68	125.6	119.6	2957129	2864223	0.912
Year	1836.8	868.8	23.53	2040.8	1940.9	45933164	44529706	0.872

Legends
GlobHor Global horizontal irradiation
DiffHor Horizontal diffuse irradiation
T_Amb Ambient Temperature
GlobInc Global incident in coll. plane
GlobEff Effective Global, corr. for IAM and shadings
EArray Effective energy at the output of the array
E_Grid Energy injected into grid
PR Performance Ratio



Project: Iraq Poject
Variant: 20MW

PVsyst V7.4.8
VC1, Simulation date:
03/17/25 05:46
with V7.4.8

Main results

System Production
Produced Energy 35646136 kWh/year
Specific production 1781 kWh/kWp/year
Perf. Ratio PR 87.25 %

Normalized productions (per installed kWp)
Lc: Collection Loss (PV-array losses) 0.56 kWh/kWp/day
Ls: System Loss (inverter, ...) 0.15 kWh/kWp/day
Yf: Produced useful energy (inverter output) 4.88 kWh/kWp/day

Performance Ratio PR
PR: Performance Ratio (Yf / Yr) : 0.872

NO.	Item	unit	Qty.	
			20MW	25MW
1	Solar module – Canadian solar CS7N-710TB-AG 1500V **or any other brand from tier 1 as per request**	pcs	28,196	35,224
2	Solar inverter – KACO blueplanet 165 TL3 - INT	units	126	157
3	Annual Energy generated per kW of installed capacity	kWh/kWp	1,781	
4	Annual Energy generated per total installed capacity	kWh	35,646,136	44,529,706
5	Minimum Land requirement per 5MW block	m2	54300	

Financial Analysis

Investment

No	Item Description	Category	USD	
			20MW	**25MW**
PV Plant				
1	Solar Modules	Procurement	2,240,000	2,800,000
2	KACO 165kW Inverter & LV Station (LV panel, Fire and Electrical Protection Device, DC/AC UPS, Battery, Internal Monitoring system ,...)	Procurement	650,000	812,000
4	Structure	Procurement	2,000,000	2,500,000
5	Electrical Components	Procurement	2,720,000	3,400,000
6	Electrical Installation (up to Yard Entrance)	Construction	600,000	750,000
7	Mechanical Installation	Construction	600,000	750,000
8	Engineering, Test & Commissioning	Engineering	400,000	500,000
TOTAL price (without Transformer & Grid Connection)* USD			9,210,000	11,512,000

*Price includes land preparation based on normal maximum 50cm land leveling.
*Fencing price is included if concrete wall is required by customer the price will change.

Annual O&M Expenses (20MW)

1st 5-year	Item
0	PV Module
0	Inverter
0	PV Structure
27,200	Transformer, Switchgear and cabling
38,600	Insurance
1,300	Utility and Cleaning**
71,700	Site Operators (HR)
138,800	**Total USD**

*PV modules have 10-years and inverters have 5-years guarantee period
** water consumption of 15 liter/kW is assumed for PV plant cleaning

Human Resource Expenses

.NO	Position	Qty	Monthly payment	Annual payment
1	Accountant	1	800	9600
2	Electrical Technicia	1	800	9600
3	Electrical Engineer	1	1200	14400
4	Unskilled Labor	3	600	21600
5	Security Guard	9	600	64800
Total USD				1200000

[1]Greenhouse Gas Equivalencies Calculator, United States Environmental Protection Agency (EPA.gov)

Annual O&M Expenses (25MW)

1st 5-year	Item
0	PV Module
0	Inverter
0	PV Structure
34,000	Transformer, Switchgear and cabling
48,300	Insurance
1,600	Utility and Cleaning**
71,700	Site Operators (HR)
155,600	**Total USD**

*PV modules have 10-years and inverters have 5-years guarantee period
** water consumption of 15 liter/kW is assumed for PV plant cleaning

Environmental Benefits

The offered 25MW PV plant, based on instructions of US Environmental Protection Agency for CO_2 equivalent calculation, has environmental benefits as follows:

- Annual CO_2 emission reduction of 17,525 metric tons
- 9,730 tons of coal saved
- 289,755 tree seedings grown for 10 years
- 700 garbage trucks of waste recycled instead of landfilled

Construction Timeline

Monthly Gantt chart of construction period

Description				1	2	3	4	5	6	7	8	9
Site mobilization (land preparation, access road ...)				■	■	■						
Plant construction	procurement	purchase	Invoice and contract	■	■							
			Order registration, pre-payment		■	■	■					
			Acceptance tests in supplier site		■	■	■	■	■			
		Transport and customs				■	■	■	■	■		
		Construction site initiation						■	■			
	installation	Civil works (foundations, post, trenching , ...)			■	■	■	■	■	■		
		Structures and cabling						■	■	■	■	
		PV modules						■	■	■	■	
		inverters							■	■	■	
		Construction/correction of PCC and transition line					■	■	■	■	■	■
Grid connection	Monitoring system deployment									■	■	
	PCC and transmission line commissioning									■	■	
	Monitoring system commissioning										■	■
	Inverter commissioning											■
	Meter seal											■

Technical Spec - PV module

CanadianSolar

TOPBiHiKu7

N-type Bifacial TOPCon Technology

690 W ~ 720 W

CS7N-690|695|700|705|710|715|720TB-AG

MORE POWER

- 720 W — Module power up to 720 W, Module efficiency up to 23.2 %
- EXTRA POWER — Up to 85% Power Bifaciality. more power from the back side
- Excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield
- Lower temperature coefficient (Pmax): -0.29%/°C, increases energy yield in hot climate
- Lower LCOE & system cost

MORE RELIABLE

- Tested up to ice ball of 35 mm diameter according to IEC 61215 standard
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

12 Years — **Enhanced Product Warranty on Materials and Workmanship***

30 Years — **Linear Power Performance Warranty***

1st year power degradation no more than 1%
Subsequent annual power degradation no more than 0.4%

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001: 2015 / Quality management system
ISO 14001: 2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way

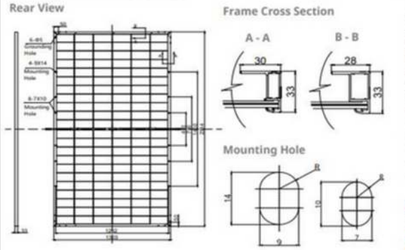
* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 23 years, it has successfully delivered over 125 GW of premium-quality solar modules across the world.

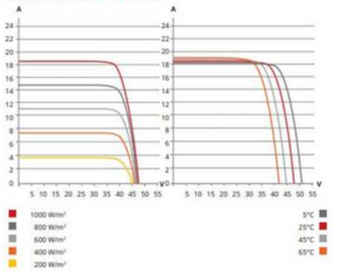
* For detailed information, please refer to the Installation Manual.

CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

ENGINEERING DRAWING (mm)



CS7N-695TB-AG / I-V CURVES



ELECTRICAL DATA | STC*

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS7N-690TB-AG		690 W	39.6 V	17.43 A	47.5 V	18.39 A	22.2%
Bifacial Gain**	5%	725 W	39.6 V	18.30 A	47.5 V	19.31 A	23.3%
	10%	759 W	39.6 V	19.17 A	47.5 V	20.23 A	24.4%
	20%	828 W	39.6 V	20.92 A	47.5 V	22.07 A	26.7%
CS7N-695TB-AG		695 W	39.8 V	17.47 A	47.7 V	18.44 A	22.4%
Bifacial Gain**	5%	730 W	39.8 V	18.34 A	47.7 V	19.36 A	23.5%
	10%	765 W	39.8 V	19.22 A	47.7 V	20.28 A	24.6%
	20%	834 W	39.8 V	20.96 A	47.7 V	22.13 A	26.8%
CS7N-700TB-AG		700 W	40.0 V	17.51 A	47.9 V	18.49 A	22.5%
Bifacial Gain**	5%	735 W	40.0 V	18.39 A	47.9 V	19.41 A	23.7%
	10%	770 W	40.0 V	19.26 A	47.9 V	20.34 A	24.8%
	20%	840 W	40.0 V	21.01 A	47.9 V	22.19 A	27.0%
CS7N-705TB-AG		705 W	40.2 V	17.55 A	48.1 V	18.54 A	22.7%
Bifacial Gain**	5%	740 W	40.2 V	18.43 A	48.1 V	19.47 A	23.8%
	10%	776 W	40.2 V	19.31 A	48.1 V	20.39 A	25.0%
	20%	846 W	40.2 V	21.06 A	48.1 V	22.25 A	27.2%
CS7N-710TB-AG		710 W	40.4 V	17.59 A	48.3 V	18.59 A	22.9%
Bifacial Gain**	5%	746 W	40.4 V	18.47 A	48.3 V	19.52 A	24.0%
	10%	781 W	40.4 V	19.35 A	48.3 V	20.45 A	25.1%
	20%	852 W	40.4 V	21.11 A	48.3 V	22.31 A	27.4%
CS7N-715TB-AG		715 W	40.6 V	17.63 A	48.5 V	18.64 A	23.0%
Bifacial Gain**	5%	751 W	40.6 V	18.51 A	48.5 V	19.57 A	24.2%
	10%	787 W	40.6 V	19.39 A	48.5 V	20.50 A	25.3%
	20%	858 W	40.6 V	21.16 A	48.5 V	22.37 A	27.6%
CS7N-720TB-AG		720 W	40.8 V	17.67 A	48.7 V	18.69 A	23.2%
Bifacial Gain**	5%	756 W	40.8 V	18.55 A	48.7 V	19.62 A	24.3%
	10%	792 W	40.8 V	19.44 A	48.7 V	20.56 A	25.5%
	20%	864 W	40.8 V	21.20 A	48.7 V	22.43 A	27.8%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.
** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	80 %

* Power Bifaciality = $P_{max,rear}$ / $P_{max,front}$, both $P_{max,rear}$ and $P_{max,front}$ are tested under STC. Bifaciality Tolerance: ± 5 %

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-690TB-AG	522 W	37.4 V	13.94 A	45.0 V	14.83 A
CS7N-695TB-AG	526 W	37.6 V	13.97 A	45.2 V	14.87 A
CS7N-700TB-AG	529 W	37.8 V	14.00 A	45.4 V	14.91 A
CS7N-705TB-AG	533 W	38.0 V	14.03 A	45.5 V	14.95 A
CS7N-710TB-AG	537 W	38.2 V	14.06 A	45.7 V	14.99 A
CS7N-715TB-AG	541 W	38.4 V	14.09 A	45.9 V	15.03 A
CS7N-720TB-AG	544 W	38.6 V	14.12 A	46.1 V	15.07 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m² spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
Cell Arrangement	132 [2 × (11 × 6)]
Dimensions	2384 × 1303 × 33 mm (93.9 × 51.3 × 1.30 in)
Weight	37.8 kg (83.3 lbs)
Front Glass	2.0 mm heat strengthened glass with anti-reflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	360 mm (14.2 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 495 pieces (only for US & Canada)

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

Technical Spec - Inverter

KACO new energy.

blueplanet 155 + 165 TL3

String inverters for utility-scale solar power plants up to multi-megawatt solar parks.

Pushing the limits.

Superior efficiencies and overload capacity through silicon carbide technology

Outstanding power density for easy logistics and installation

Decentralised design or ‚Virtual Central' concept possible

Overvoltage protection AC/DC and for communication interfaces available

Lean commissioning and updates via remote services

EUPD RESEARCH TOP BRAND PV INVERTERS EUROPE 2021

www.kaco-newenergy.com

Technical Data

DC input data	155 TL3	165 TL3
Max. recommended PV generator power	232 500 W	247 500 W
MPP range	875 – 1 300 V	960 – 1 300 V
Operating range	875 – 1 450 V	960 – 1 450 V
Rated DC voltage / start voltage	900 V / 1 000 V	1000 V / 1 100 V
Max. no-load voltage	1 500 V	1 500 V
Max. input current	183 A	183 A
Max. short circuit current $I_{sc\,max}$	300 A	300 A
Number of MPP tracker	1	1
Connection per tracker	1 - 2	1 - 2
AC output data		
Rated output	155 000 VA	165 000 VA
Max. power	155 000 VA	165 000 VA
Line voltage	600 V (3P+PE)	660 V (3P+PE)
Voltage range (Ph-Ph)	480 – 690 V	480 – 760 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 149.5 A	3 x 144.5 A
Max. current	3 x 152.0 A	3 x 152.0 A
Reactive power / cos phi	0 – 100 % Snom / 0,30 ind. – 0,30 cap.	
Max. total harmonic distortion (THD)	≤ 3 %	≤ 3 %
Number of grid phases	3	3
General data		
Max. efficiency	99.1 %	99.1 %
Europ. efficiency	98.9 %	99.0 %
CEC efficiency	98.9 %	99.0 %
Standby consumption	< 10 W	< 10 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	LEDs	LEDs
Control units	webserver, supports mobile devices	webserver, supports mobile devices
Interfaces	Ethernet (Modbus TCP, Sunspec), RS485 (KACO-protocol), USB, optional: 4-DI	
Fault signalling relay	potential-free NOC max. 30 V / 1 A	potential-free NOC max. 30 V / 1 A
DC connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al	
AC connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al	
Ambient temperature	-25 °C – +60 °C [1]	-25 °C – +60 °C [1]
Humidity	0 – 100 %	0 – 100 %
Max. installation elevation (above MSL)	3 000 m	3 000 m
Min. distance from coast	500 m	500 m
Cooling	temperature controlled fan	temperature controlled fan
Protection class	IP66 / NEMA 4X	IP66 / NEMA 4X
Noise emission	59.2 db (A)	59.2 db (A)
H x W x D	719 x 699 x 460 mm	719 x 699 x 460 mm
Weight	78.2 kg	78.2 kg
Certifications		
Safety	IEC 62109-1/-2, EN 61000-6-1/-2/-4, EN 61000-3-11/-12, EN 55011 group 1, class A EN 62920 Emission class A / Immunity class A UL62109-1, UL1741, CSA-C22.2 No.107.1, CSA-C22.2 No.62109-1, CSA-C22.2 No.62109-2	
Grid connection rule	overview see homepage / download area	

[1] Power derating at high ambient temperatures

Versions	S	XL
Number of DC inputs	1 - 2	1 - 2
DC switch	-	✓
DC SPD	Type 1 + 2	Type 1 + 2
AC SPD	○	○
RS485 interface SPD	○	○
Ethernet interface SPD	○	○
PID Set	○	○

standard = ✓ upgradeable = ○

KACO new energy GmbH | Werner-von-Siemens-Allee 1 | 74172 Neckarsulm | Germany

▼ Project Reference

Capacity: 20+20 MW
Location: Jovein, Sabzevar, Iran
Solar Panels: Canadian Solar 660W
Inverters: Solis 250kW
Status: 20MW Connected to the Grid- 20MW under Construction

▲ Project Reference

Capacity: 100 MW
Location: Yazd, Iran
Solar Panels: Trina Solar 665W
Inverters: Kaco 165 kW
Status: under Construction

▼ Project Reference

Capacity:	10+2.5 MW
Location:	Momtazan Cement, Kerman, Iran
Solar Panels:	Canadian Solar 660W
Inverters:	Solis 110 kW
Status:	Connected to the Grid

▲ Project Reference

Capacity:	5/3MW
Location:	Delijan Cement, Isfahan, Iran
Solar Panels:	Canadian Solar
Inverters:	Solis
Status:	Under Construction

▼ Project Reference

Capacity:	1.2 MW
Location:	Mashhad, Iran
Solar Panels:	Canadian Solar 660W monofacial
Inverters:	Solis 110kW
Status:	Connected to the Grid, April 2024

▲ Project Reference

Capacity:	10 MW
Location:	Esfandqeh, Kerman, Iran
Solar Panels:	Longi Solar 455W
Inverters:	Solis 110kW
Status:	Connected to the Grid

▼ Project Reference

Capacity:	2 MW
Location:	Khormoj, Bushehr, Iran
Solar Panels:	SHARP 330W
Inverters:	Sungrow 60kW
Status:	Connected to the Grid

▲ Project Reference

Capacity:	1.5 MW
Location:	Shahrekord, Charmahal va Bakhtiari, Iran
Solar Panels:	SHARP 315W
Inverters:	Fronius 20kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	10 MW
Location:	Lamerd, Fars, Iran
Solar Panels:	SHARP poly-c 320W
Inverters:	Fronius 25kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	2 MW
Location:	Qale Ganj, Kerman, Iran
Solar Panels:	SHARP 330W
Inverters:	Fronius 20kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	1 MW
Location:	Bardsir, Kerman, Iran
Solar Panels:	LG 330W
Inverters:	Fronius 27kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	10 MW
Location:	Khusf, Khorasan, Iran
Solar Panels:	SunTech 325W
Inverters:	Huawei 55kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	200kW
Location:	Tehran, Iran
Solar Panels:	Longi 455W
Inverters:	Solis 110kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	120 kW
Location:	Khoramdareh, Zanjan, Iran
Solar Panels:	Longi 455W
Inverters:	Kaco 105kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	100 kW
Location:	Parand, Iran
Solar Panels:	Longi 455W
Inverters:	Kaco 50kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	150 KW
Location:	Sirjan, Iran
Solar Panels:	Longi 455W
Inverters:	Kaco 50kW
Status:	Connected to the Grid

▼ Project Reference

Capacity:	200 kW
Location:	Zanjan, Iran
Solar Panels:	SHARP 320W
Inverters:	Fronius 25kW
Status:	Connected to the Grid

▲ Project Reference

Capacity:	100 kW
Location:	Birjand, Iran
Solar Panels:	SHARP 320W
Inverters:	Fronius 25kW
Status:	Connected to the Grid

▼ Project Reference

Capacity:	100 kW
Location:	Yazd, Iran
Solar Panels:	SHARP 320W
Inverters:	Fronius 25kW
Status:	Connected to the Grid

▲ Project Reference

Capacity:	200 kW
Location:	Hamedan, Iran
Solar Panels:	SHARP 330W
Inverters:	Fronius 25kW
Status:	Connected to the Grid

▼ Project Reference

Capacity:	20 kW
Location:	Tehran, Iran
Solar Panels:	SHARP 360W
Inverters:	Fronius 20kW
Status:	Connected to the Grid

▲ Project Reference

Capacity:	30 kW
Location:	Jam, Bushehr, Iran
Solar Panels:	Talesun 270W
Inverters:	Fronius 27kW
Status:	Connected to the Grid

▶ Project Reference

Capacity: 10 kW
Location: Tehran, Iran
Solar Panels: SHARP 330W
Inverters: Fronius 5kW
Status: Connected to the Grid

▶ Project Reference

Capacity: 20 kW
Location: Tehran, Iran
Solar Panels: SHARP 330W
Inverters: Fronius 20kW
Status: Connected to the Grid

▶ Project Reference

Capacity:	10 kW
Location:	Damavand, Iran
Solar Panels:	SHARP 270W
Inverters:	Fronius 10kW
Status:	Connected to the Grid

▶ Project Reference

Capacity:	20 kW
Location:	Khoramdasht, Tehran, Iran
Solar Panels:	SHARP 250W
Inverters:	Fronius 20kW
Status:	Connected to the Grid

▶ Project Reference

Capacity: 145 kW
Location: Shiraz, Iran
Solar Panels: CSUN 250W
Inverters: Eltek 5kW
Status: Connected to Diesel

▶ Project Reference

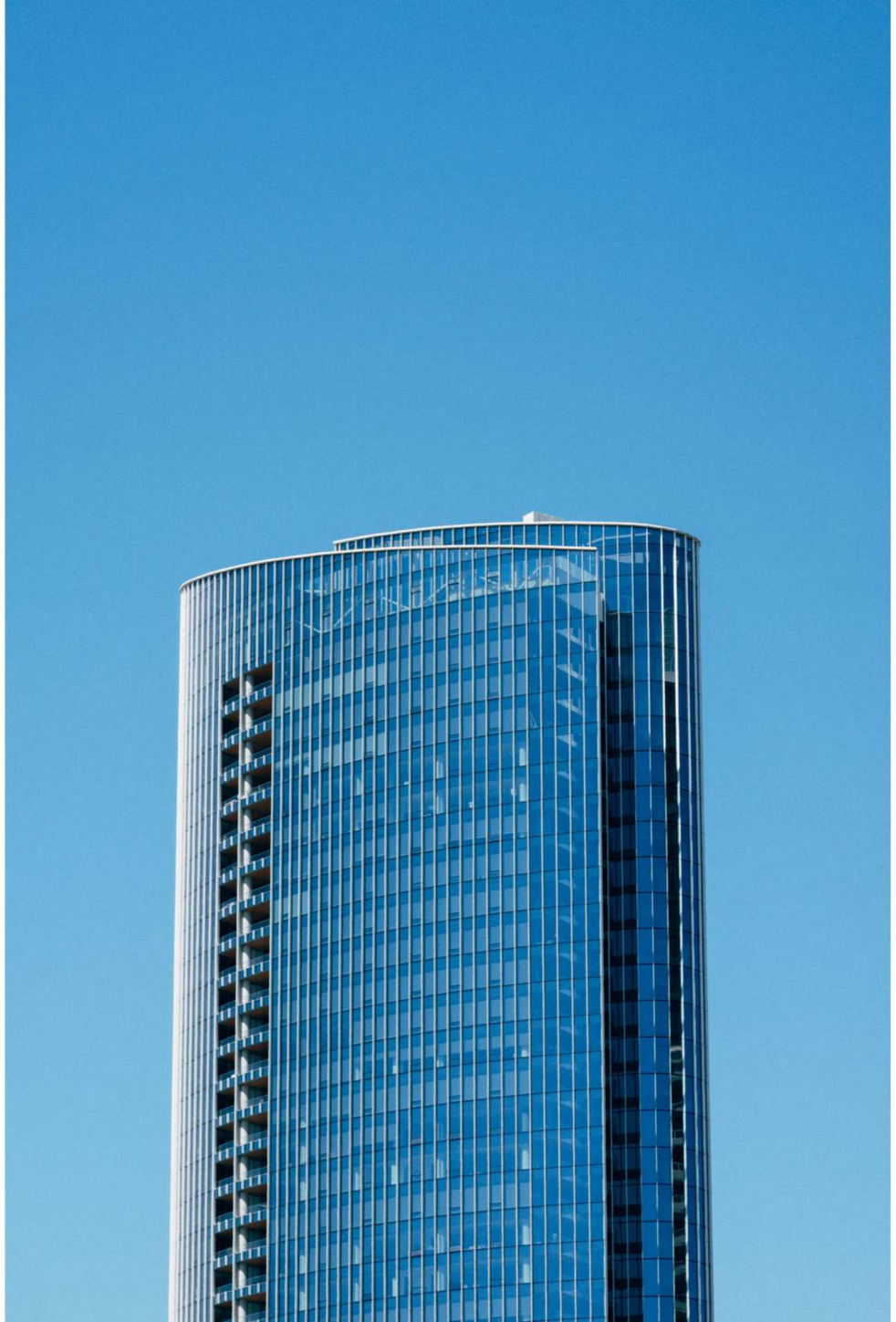
Capacity: 8 kW
Location: Ahvaz, Iran
Solar Panels: CSUN 250W
Inverters: SMA 8kW
Status: Connected to Diesel

▶ Project Reference

Capacity: 1 kW
Location: Parand, Tehran, Iran
Solar Panels: CSUN 250W
Inverters: Studer 1kW
Status: Connected to CCTV

▶ Project Reference

Capacity: 7 kW
Location: Jandaq, Semnan, Iran
Solar Panels: CSUN 250W
Inverters: Studer 3kW
Status: Connected to BTS



Contact Us

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THANK YOU