

Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park
Supplemental Responses to Siting Board Staff’s First Request for Information
Case No. 2024-00253

Request No. 14:

Provide a list of permits that will be required from any other local, state, or federal agencies for the project. Include in the response the status of those permits.

Original Response to Request No. 14:

All necessary air, water, and waste permits and authorizations will be obtained before construction and operation of the Project. The Project's final site design will determine which permits will be required. Please see the attached list of potential permit authorizations that may be required for Project development.

Additionally, Breckenridge County currently has an ordinance that references three types of solar energy systems (SES) with correlating requirements for each type. However, this ordinance does not define the types of SES or give guidance as to what constitutes an SES, and it further does not contain any processes or procedures for preparing or filing an application for an SES. As such, Breckenridge County does not have a local permitting process that applies to the Clover Creek Solar Project at this time. Notably, the Project meets or exceeds the setbacks described in the ordinance. Breckenridge County does not have a comprehensive plan or a Planning Commission.

Supplemental Response to Request No. 14:

The Kentucky Public Protection Cabinet (“Cabinet”) issued Formal Interpretation #2024-1 on February 8, 2024, interpreting Section 2703.2.3 of the Kentucky Building Code (KBC) to exclude non-utilities from the definition of a “power company” and the related exemption from electrical permitting requirements. In light of the Cabinet’s interpretation, please find attached the Project’s revised list of potential permit authorizations to include obtaining an electrical permit from the Cabinet.

Responding Witness: Jesse Eick

Clover Creek Solar Project Permit Matrix

Permit	Agency	Status	Notes
Federal			
Clean Water Section 401/404 Permit(s)	U.S. Army Corps of Engineers	Start: December 2024 (if applicable) End: March 2025 (target)	
Endangered Species Act (ESA) Section 7 Consultation	U.S. Fish & Wildlife Service	Start: Summer 2024 (coordination in progress) End: March 2025 (target)	Submitted contribution to imperiled bat fund mitigation; commenced coordination with Kentucky Department of Fish and Wildlife Resources.
Migratory Bird Treaty Act (MBTA)	U.S. Fish & Wildlife Service	No permit anticipated, general USFWS coordination in progress.	
Bald and Golden Eagle Protection Act (BGEPA)	U.S. Fish & Wildlife Service	No permit anticipated, general USFWS coordination in progress.	
State			
Construction Certificate	Kentucky State Board on Electric Generation and Transmission Siting	Start: November 4th, 2024 End: May 3rd, 2025	Certificates will be for generation facility and nonregulated electric transmission line.
KPDES KYR10 Stormwater Construction General Permit	Kentucky Energy and Environment Cabinet, Division of Water	Not yet submitted; anticipated submittal 90 days prior to construction.	Includes submittal of Storm Water Pollution Prevention Plan.
Floodplain Construction Permit	Kentucky Energy and Environment Cabinet, Division of Water	Not yet submitted.	
National Historic Preservation Act - Section 106 Consultation	Kentucky Heritage Council - State Historic Preservation Office	Not yet submitted; no permit anticipated.	
Threatened & Endangered Species Consultation	Kentucky Department of Fish and Wildlife Resources	Start: November 2024 End: January/February 2025	No permit anticipated, coordination in progress.
Road Encroachment Permit(s)	Kentucky Transportation Cabinet	Not yet submitted.	
Utility Crossing Permit(s)	Kentucky Transportation Cabinet	Not yet submitted.	
Overweight/Over-Dimensional Permit	Kentucky Transportation Cabinet	Not yet submitted.	
Building Permit	Kentucky Dept. of Housing, Building and Construction	Not yet submitted.	For O&M building.
Electrical Permit	Kentucky Dept. of Housing, Building and Construction	Not yet submitted.	

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Request No. 80:

Provide information on the specifications, model number, and cutsheets of the photovoltaic (PV) cell/solar panels to be used.

Original Response to Request No. 80:

Please see the attached informational sheets from Canadian Solar and QCells.

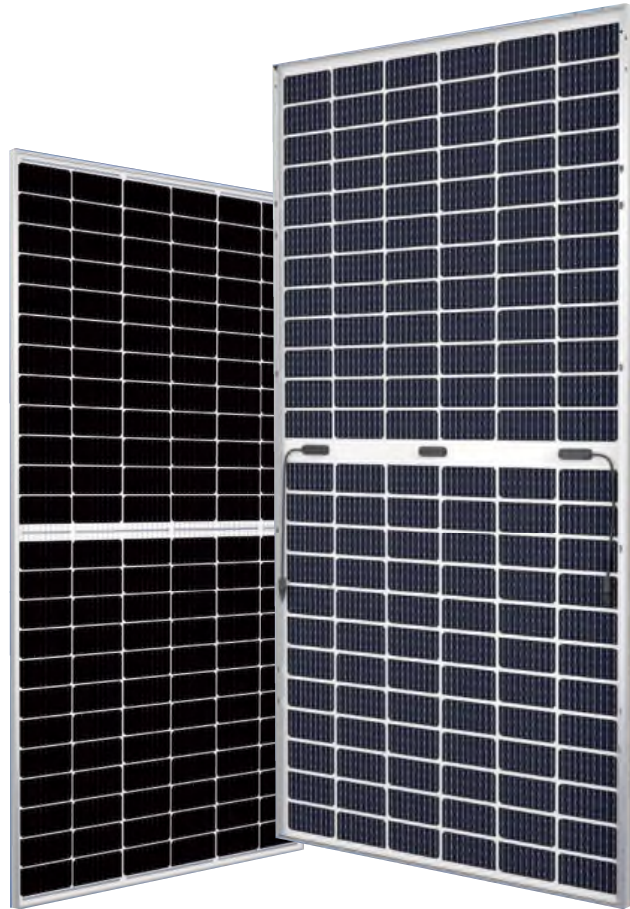
Supplemental Response to Request No. 80:

Please see the attached informational sheet for Elite Solar showing the solar panels to be used. The Project will still incorporate QCell panels, but will no longer be utilizing those from Canadian Solar.

Responding Witness: Jesse Eick



M/ET-PD-EN2024V2.1
info@elite-solar.com



ET-M772BHTW/TB
540W-560W

PERC BIFACIAL MODULE



Increased Power Generation
Bifacial technology enables additional energy harvesting from rear side (up to 25%).



Increased Efficiency
Increased module conversion efficiency from half-cut cell structure (low resistance characteristic, decreased mismatch loss).



Severe Weather Resilience
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



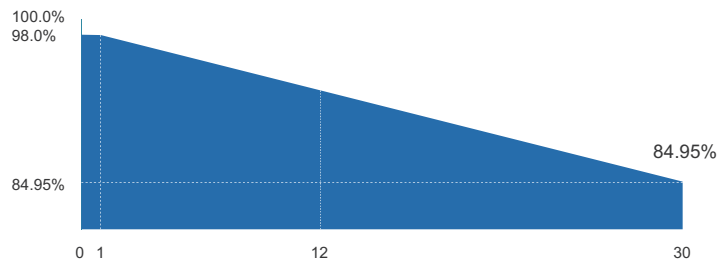
PID Resistance
Excellent Anti-PID performance guarantees limited power degradation for mass production.



Durability Against Extreme Environmental Conditions
Exceptional durability against salt mist and ammonia exposure.

WARRANTY

■ Elite Solar Mono Module Linear Performance Warranty



1st year ≤ 2%, 2nd~30th years ≤ 0.45% / year



Guarantee on product material and workmanship



Linear power output warranty

IEC61215
IEC61730
UL61215
UL61730



ELECTRICAL SPECIFICATIONS

Module Type	ET-M772BH540TW/TB		ET-M772BH545TW/TB		ET-M772BH550TW/TB		ET-M772BH555TW/TB		ET-M772BH560TW/TB	
STC/NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -P _{mp} (W)	540	405	545	409	550	413	555	417	560	421
Open Circuit Voltage -V _{oc} (V)	49.60	46.28	49.75	46.32	49.90	46.36	50.05	46.40	50.20	46.44
Short Circuit Current -I _{sc} (A)	13.86	11.46	13.93	11.54	14.00	11.62	14.07	11.70	14.14	11.78
Maximum Power Voltage -V _{mp} (V)	41.64	37.30	41.80	37.36	41.96	37.42	42.11	37.48	42.27	37.54
Maximum Power Current -I _{mp} (A)	12.97	10.86	13.04	10.94	13.11	11.03	13.18	11.12	13.25	11.21
Module Efficiency STC-η _m (%)	20.9%		21.1%		21.3%		21.5%		21.7%	
Power Tolerance (W)					0+3%					
Pmax Temperature Coefficient					-0.339%/°C					
Voc Temperature Coefficient					-0.251%/°C					
Isc Temperature Coefficient					+0.046%/°C					
Fire Performance	Class C(IEC)/Type 1(UL)									

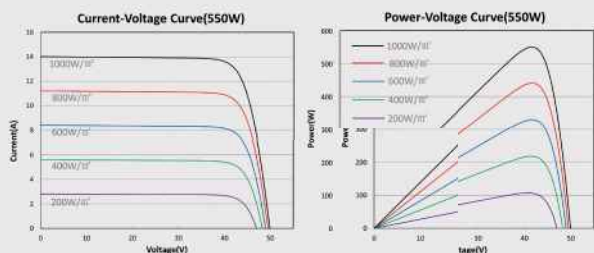
REAR SIDE POWER GAIN (ET-M772BH550TW)

Power Gain	10%	15%	20%	25%
Maximum Power -P _{mp} (W)	605	633	660	688
Open Circuit Voltage -V _{oc} (V)	49.90	49.90	49.90	49.90
Short Circuit Current -I _{sc} (A)	15.24	15.97	16.64	17.34
Maximum Power Voltage -V _{mp} (V)	41.96	41.96	41.96	41.96
Maximum Power Current -I _{mp} (A)	14.42	15.09	15.73	16.40

MECHANICAL SPECIFICATIONS

External Dimension	2279 x 1134 x 33mm
Weight	27.5kg
Solar Cells	PERC Mono crystalline (144pcs)
Front Glass	3.2mm AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cable Length (Including Connector)	4.0 mm ² (12AWG), Portrait:200mm(+)/400mm(-);Or customized
Connector	MC4 Compatible
Power Bifaciality*	70%±10%

CURVE

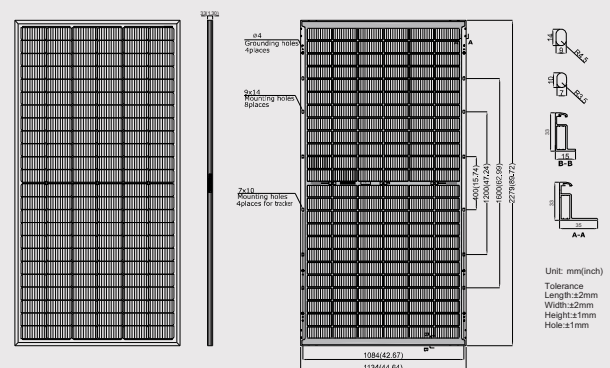


APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Mechanical Load	5400Pa/2400Pa

PHYSICAL CHARACTERISTICS

Unit:mm



* The above drawing is a graphical representation of the product. For engineering quality drawings please contact Elite Solar.

PACKING MANNER

Container	40'HQ
Pieces per Pallet	33
Size of packing (mm)	2300*1130*1264
Weight of packing (kg)	949.5
Pieces per Container	660

Note: The specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The NOCT is obtained under the Test Conditions: 800 W/m², 20°C ambient temperature, 1m/s wind speed, AM 1.5 spectrum.

Please contact info@elite-solar.com for technical support. The actual transactions will be subject to the contracts. This parameter is for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.