Filing Receipt

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ItemNumber - 2

Procedure for Certifying Renewable Energy Credit Generators

NOTE: Do not use this form if you intend to file for REC offsets or in association with a REC aggregation company. Contact the Commission to obtain the appropriate certification form.

A. A completed application shall consist of the following.

1. A completed Certification Form for Renewable Energy Credit Generators.

2. A map showing the location of the facility and, if applicable, its boundary (for example, the boundary of the wind farm area metered at the point specified in Item 10). The map must also show the facility's interconnection point(s) with the local distribution or transmission system, and the location of all generation units listed under Item 13 of the application.

3. If one or more of the metering points specified in Item 10 are not part of the transmission or distribution system of ERCOT, an Independent System Operator, a Regional Transmission Organization, or an Independent Organization as defined in PURA Section 39.151(b), a narrative explaining where and how the output of the facility may be physically metered and verified in Texas by the Program Administrator.

4. For fossil fuels listed under Item 8, a narrative describing the role of such fuels in the generation technology. The narrative should explicitly state the heat input value of the fossil fuels relative to the heat input value of the renewable fuels specified in Item 7, and must include references to industry standards.

5. For previously existing renewable energy units that were upgraded and repowered at a greater capacity after Sept. 1, 1999, a narrative specifying the shutdown date, restart date, previous rated nameplate capacity, and new rated nameplate capacity, including references to industry standards.

B. Each certification shall pertain to a single facility. A facility may have multiple metering points, which shall be designated under Item 10. The metering points listed must represent the only locations through which generation from units included in the certification may enter an ISO grid.

C. If a facility includes units that separately would be ineligible to produce RECs the application must include a number or formula approved by the Commission that permits the Program Administrator to subtract the output of such units from the aggregated output recorded at the metering point in Item 10.

D. If an existing renewable energy unit is upgraded and repowered after Sept. 1, 1999, the unit must be included **twice** under Item 13. One entry shall designate the pre-upgrade rated nameplate capacity. The other shall show the **difference** between the new capacity and the pre-upgrade capacity and shall show the repower date as the date commercial operation begins / began.

E. Item 11 shall be the generation of all units listed under Item 13 that have been included in a nomination for REC offsets.

F. Eligible units are those which

1. Are not fossil fuel units that have been repowered to use a renewable fuel,

2. Were not developed as part of an emissions reduction project described in Health and Safety Code §382.05193, that is being used to satisfy the permit requirements in Health and Safety Code §382.0519,

3. Are not included in the rates of any utility, municipally owned utility or distribution cooperative through base rates, a power cost recovery factor, stranded cost recovery mechanism or any other fixed or variable rate element charged to end users, and

4. Are not capacity that was in operation before Sept. 1, 1999 unless the nameplate capacity is less than 2 MW.

G. The owner's designated representative and alternate representative must be based in Texas.

H. The owner of a facility certified to produce RECs may amend an existing application package if the facility's output is metered by an ISO. Amendment may be made by certified letter to the Commission describing the changes to be reflected in the facility's REC certification. If the amendment results in material change to the facts represented in any narrative or map submitted with the original application, updated narratives and maps must be included with the letter requesting the amendment. Narratives and maps that do not require revisions need not be resubmitted.

If the capacity of the facility changes at a later date, the owner of the facility shall file with the Commission any updated information on the facility by the 15th of the month following the end of the calendar quarter. The information filed shall reflect the change in nameplate capacity of the facility during the quarter just completed and the total capacity of the facility as of the last business day of the calendar quarter.

J. The owner of the facility shall provide the annual historical output of the facility (in MWh) from the start of commercial operations up to the date of filing this application. The annual period for historical output shall be from October 1 through September 30.

Certification Form for Renewable Energy Credit Generators

Information about Generating Unit(s)

1.	Facility Name or Description	Ganado Solar, LLC
2.	Street Address or Legal Geographical Location	962 County Road 260 Ganado, TX 77962
3.	Name of Owner	Ganado Solar, LLC
4.	Owner PUC Registration (*for Subst. Rule §25.109*)	20659
5.	On-site Contact Person (if applicable)	
6.	On-site Telephone Number (if applicable)	
7.	Type of Renewable Generating Technology	____ Biomass _____Hydroelectric X ____ Solar _____Wind ____ Other (specify):
8.	Fossil Fuels Used (*if any*)	
9.	TNRCC Air Permit Number (*if any*)	
10.	Meters (*ISO Numbers or Other Identifiers*)	M1 WSL_MET1 WSL_MET2
11.	Percentage to be Subtracted from Annual Metered Generation	0
12.	Metered Generation Eligible for Renewable Energy Credits (in MW)	152.25MW

13.	Please complete the following for each generating unit operating at this facility. Include additional pages as necessary. For sites with large numbers of individual units, complete the attachment entitled "List of Generating Units at Facility" and enter "See attached list" in the first three blanks of this section. For older units upgraded and repowered after Sept. 1999, include one page describing the unit before the upgrade, and another page describing the incremental addition to capacity resulting from the upgrade.		
	Manufacturer	see attached list	
	Serial Number(s)	see attached list	
	Date Commercial Operation Began / Will Begin	12/1/2022	
	Total Rated Nameplate Capacity	208.4MWdc	
	Is this a fossil fuel unit that has been or will be repowered to use a renewable fuel?		**Yes** _____ **No** X
	Is this unit developed as part of an emissions reduction project described in Health and Safety Code §382.05193, that is being used to satisfy the permit requirements in Health and Safety Code §382.0519?		**Yes** _____ **No** X
	If the generating unit is owned by or under contract to a utility, an electric cooperative, municipally-owned utility, competitive retailer, or river authority, is any portion of this unit's above-market costs included in the rates of any utility, municipally owned utility or distribution cooperative through base rates, a power cost recovery factor, stranded cost recovery mechanism or any other fixed or variable rate element charged to end users? If the answer is "yes" at the date this application is filed, state the date when the answer would become "no." Provide documentation to support this change of status.		**Yes** _____ **No** X **Date**_____ _____
	Does this unit qualify for Renewable Energy Credit Offsets?		**Yes** _____ **No** X

Name, Mailing Address and Telephone of Generating Facility Owner

Ganado Solar, LLC
c/o Enel Green Power, NA
100 Brickstone Square
Suite 300
Andover, MA 01810
978-681-1900

Name, Mailing Address and Telephone of Owner's Designated Representative

Ganado Solar, LLC
c/o Enel Green Power, NA
100 Brickstone Square
Suite 300
Andover, MA 01810
Attn: Jennifer Reilly
978-935-3136

Name, Mailing Address and Telephone of Alternate Representative

Ganado Solar, LLC
c/o Enel Green Power, NA
100 Brickstone Square
Suite 300
Andover, MA 01810
978-681-1900

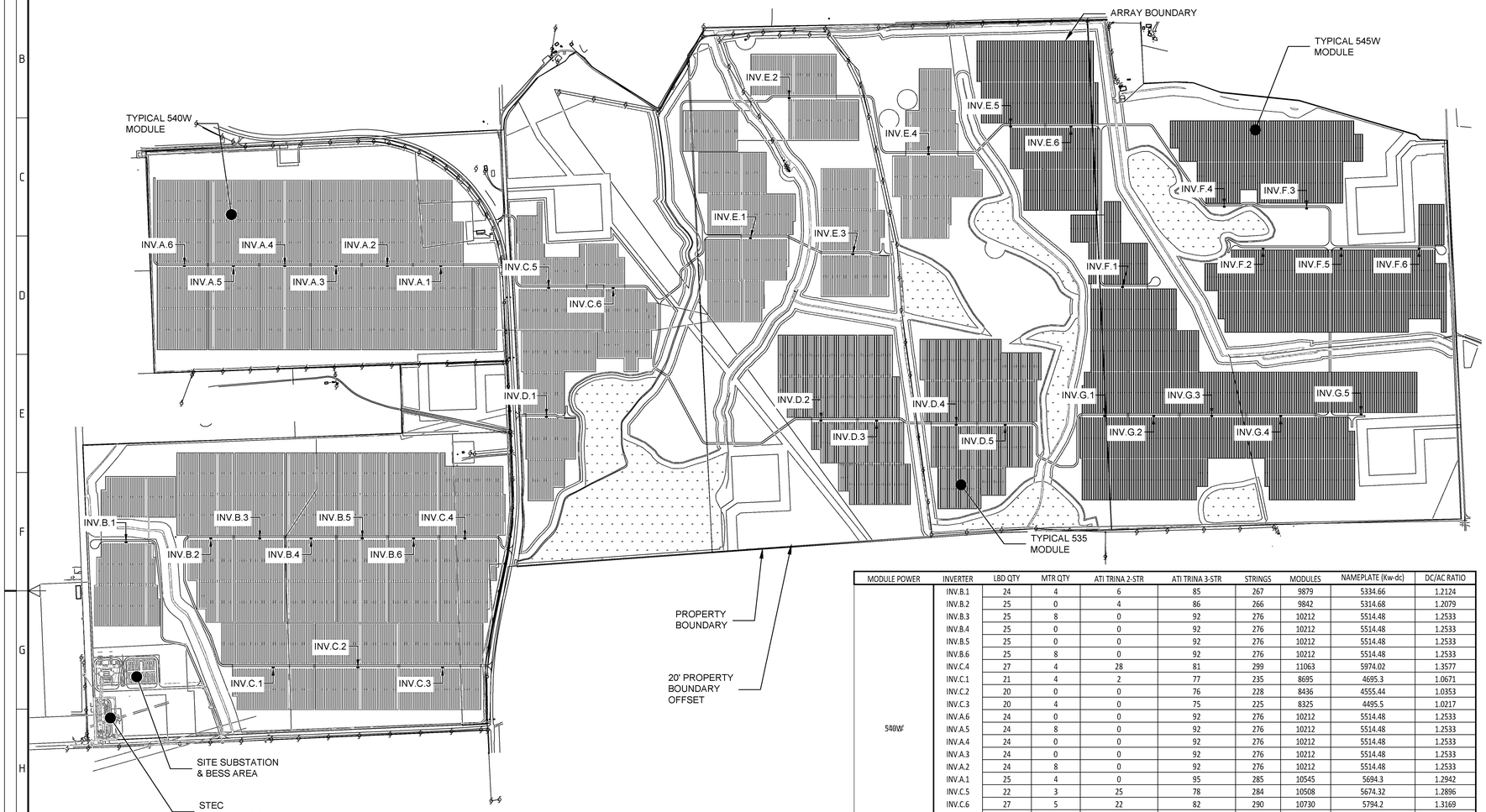
I certify that I have reviewed and will comply with the provisions in Section 14, "Renewable Energy Credit Trading Program" of the ERCOT Protocols. I certify that the information presented in this Certification Form is correct. I further certify that the generating facility owner (or designated representative) shall inform the Project Administrator of any change that renders the information contained in this certification obsolete, and that such notification will be provided in writing no later than 30 days after the change is discovered by the owner.

Jennifer Reilly 11/08/2022

Owner of Generating Facility or Designated Representative **Date**

List of Generating Units at Facility

Manufacturer and Make	Serial Number(s)	Date Commercial Operation Began/Begins	Capacity per Unit (in MW)	Number of Units	Capacity (in MW)
see attached list	see attached list	12/1/2022	3.80625	40	152.25



MODULE POWER	INVERTER	LBD QTY	MTR QTY	ATI TRINA 2-STR	ATI TRINA 3-STR	STRINGS	MODULES	NAMEPLATE (Kw-dc)	DC/AC RATIO
540W	INV.B.1	24	4	6	85	267	9879	5334.66	1.2124
	INV.B.2	25	0	4	86	266	9842	5314.68	1.2079
	INV.B.3	25	8	0	92	276	10212	5514.48	1.2533
	INV.B.4	25	0	0	92	276	10212	5514.48	1.2533
	INV.B.5	25	0	0	92	276	10212	5514.48	1.2533
	INV.B.6	25	8	0	92	276	10212	5514.48	1.2533
	INV.C.4	27	4	28	81	299	11063	5974.02	1.3577
	INV.C.1	21	4	2	77	235	8695	4695.3	1.0671
	INV.C.2	20	0	0	76	228	8436	4555.44	1.0353
	INV.C.3	20	4	0	75	225	8325	4495.5	1.0217
	INV.A.6	24	0	0	92	276	10212	5514.48	1.2533
	INV.A.5	24	8	0	92	276	10212	5514.48	1.2533
	INV.A.4	24	0	0	92	276	10212	5514.48	1.2533
	INV.A.3	24	0	0	92	276	10212	5514.48	1.2533
	INV.A.2	24	8	0	92	276	10212	5514.48	1.2533
	INV.A.1	25	4	0	95	285	10545	5694.3	1.2942
	INV.C.5	22	3	25	78	284	10508	5674.32	1.2896
	INV.C.6	27	5	22	82	290	10730	5794.2	1.3169
	INV.D.1	24	4	5	88	274	10138	5474.52	1.2442
	INV.E.2	25	5	0	96	288	10656	5754.24	1.3078
	INV.E.1	24	5	17	81	277	10249	5534.46	1.2578
	INV.E.3	23	3	3	83	255	9435	5094.9	1.1579
	INV.E.4	28	5	6	97	303	11211	6053.94	1.3759
				118	2008	6260	231620	125074.8	
535W	INV.D.2	24	5	8	85	271	10027	5364.445	1.2192
	INV.D.3	23	2	5	84	262	9694	5186.29	1.1787
	INV.D.4	24	1	0	89	267	9879	5285.265	1.2012
	INV.D.5	23	7	29	65	253	9361	5008.135	1.1382
				42	323	1053	38961	20844.135	
545W	INV.E.5	23	0	0	85	255	9435	5142.075	1.1687
	INV.E.6	25	8	0	95	285	10545	5747.025	1.3061
	INV.F.4	19	2	15	61	213	7881	4295.145	0.9762
	INV.F.3	20	4	4	73	227	8399	4577.455	1.0403
	INV.F.1	20	6	12	71	237	8769	4779.105	1.0862
	INV.F.2	19	4	15	59	207	7659	4174.155	0.9487
	INV.F.5	18	0	0	72	216	7992	4355.64	0.9899
	INV.F.6	20	5	19	57	209	7733	4214.485	0.9578
	INV.G.1	23	0	1	80	242	8954	4879.93	1.1091
	INV.G.2	23	8	0	92	276	10212	5565.54	1.2649
	INV.G.3	22	0	5	77	241	8917	4859.765	1.1045
	INV.G.4	22	6	2	83	253	9361	5101.745	1.1595
	INV.G.5	26	2	3	78	240	8880	4839.6	1.0999
				76	914	3401	125737	68541.685	
TOTAL				236	3314	10414	385318	208450.6	

SYSTEM INFORMATION

MW-AC @ POI:	150
NAMEPLATE MVA:	176
POI VOLTAGE (KV):	138
COLLECTION SYSTEM VOLTAGE (KV)	34.5
MW-DC:	208.43

SITE INFORMATION

MAX. TEMPERATURE:	37.6°C
MIN. TEMPERATURE:	-3.4°C
LATITUDE:	29.118
LONGITUDE:	-96.518

MODULE

MODULE MANUFACTURER:	TRINA
MODULE MODEL #:	TSM-DEG19C.20
STC WATTAGE (W):	535, 540, & 545
VOLTAGE RATING (V):	1500
MODULES PER STRING:	37

PV ARRAY

MODULE QUANTITY (535W):	38,961
MODULE QUANTITY (540W):	231,620
MODULE QUANTITY (545W):	114,737
TOTAL STRINGS:	10,414
GROUNDING:	NEGATIVE

INVERTER

INVERTER MANUFACTURER:	SMA
INVERTER MODEL #:	SMA SC 4400-UP
MVA @ 35°C:	4.40
MVA @ 50°C:	3.96
MAX. INPUT VOLTAGE (VDC):	1500
INVERTER OUTPUT VOLTAGE (KV):	0.660
INVERTER QUANTITY:	40

TRACKER

MANUFACTURER	ATI
AZIMUTH (DEG):	0°
CONFIGURATION:	1-HIGH PORTAIT
ROTATION ANGLE LIMITS:	52°±
111 MODULE (3-STRING) TRACKER QTY:	3,313
74 MODULE (2-STRING) TRACKER QTY:	237
TOTAL TRACKER QTY:	3,550
GCR/PITCH (FT):	35.15%/22.25
HEIGHT ABOVE GRADE (FT)	5.5

LEGEND

- PROJECT BOUNDARY
- PROPERTY SETRBACK
- PROPOSED FENCE
- PROJECT CONSTRAINTS / EASEMENTS
- BLOCK BOUNDARY

GENERAL NOTES:

1. INSTALLATION AND METHODS SHALL COMPLY WITH THE MOST CURRENT VERSION OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND NATIONAL ELECTRICAL CODE (NEC), AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
2. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON OWNER PROVIDED DOCUMENTION.

N

E01-04 OVERALL SITE LAYOUT

600' 300' 0 600' 1200' 1800'

SCALE: 1"=600'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
0	4/01/22	ISSUED FOR CONSTRUCTION	J0 4/01/22	RWM 4/01/22	NCB 4/01/22

CONTRACTOR'S LOGO

PROJECT:

GANADO SOLAR

JACKSON COUNTY, TX & WHARTON COUNTY, TX

FILE NAME: 04012022_GANADO_NEI_A005R1

CLASSIFICATION: | FORMAT: | SCALE: | PLOT SCALE: | SHEET: -/-

UTILIZATION SCOPE:

TITLE: **E01-04 OVERALL SITE LAYOUT**

CCI Green Power
Engineering & Construction
EGP VALIDATION

VALIDATED BY
VERIFIED BY
COLLABORATORS

EGP CODE

GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION
GRE	EEC	D	9	9	U	S P 1 4 6 4 6	0 0 0	0 4 9	0 0

STATE OF TEXAS · NICK CARSON BATES · 133550 · LICENSED PROFESSIONAL ENGINEER
04/01/22

nei
ELECTRIC POWER ENGINEERING, INC.
12600 W. COLFAX AVE, STE. C500
LAKEWOOD, CO 80215
(303) 431-7895
www.neieng.com

The following files are not convertible:

Ganado Serial numbers.xlsx

Please see the ZIP file for this Filing on the PUC Interchange in order to access these files.

Contact centralrecords@puc.texas.gov if you have any questions.