Document Number	Document Title
	CONDITIONAL USE ORDER

Recording Area

Name and Return Address:

Town of Trenton
Attn: Zoning Administrator
1071 Highway 33
West Bend, WI 53095

Parcel Identification Numbers:
T11_0753 (40.77 acres)
T11_0747 (40 acres)

This instrument was drafted by

Cindy Komro

Town Administrator

Town of Trenton

1071 Highway 33

West Bend, WI 53095

Town of Trenton
1071 Highway 33
West Bend, WI
53095

CONDITIONAL USE ORDER

THIS IS NOT A PERMIT: FAILURE TO OBTAIN PERMIT(S) MAY RESULT IN THE ISSUANCE OF CITATIONS.

(insert date of adoption)

Dennis R Schloemer Family Trust
Lynn A Schloemer Family Trust
5510 River Road
West Bend, WI 53095

Parcel Identification Number(s):

T11_0753 (40.77 acres) and T11_0747 (40 acres)

FINDINGS OF FACT[1]

SV CSG Linde Solar, LLC, ("Petitioner"), for the property located at 5510 River Road, Town of Trenton, Washington County, Wisconsin, owned by Dennis R Schloemer Family Trust and Lynn A Schloemer Family Trust ("Property Owner"), as further described in Exhibit A attached hereto and incorporated herein by reference (the "Subject Property"), has made application for a conditional use permit.

1. The Petitioner requested the issuance of a conditional use permit for a large scale (4.95 MW) solar energy system pursuant to Section 380-35(H) of the Town of Trenton Zoning Code ("Zoning Code")
2. The project area is approximately 25 acres.
3. The Project facilities will include: Solar modules, inverters, steel racking, fencing, access road, one weather station, and interconnection poles.[1]
4. The petitioner has submitted a Vegetation Management Plan for the establishment, maintenance and restoration of vegetation within the project area.[2]
5. The petitioner has submitted a Decommissioning Plan for the project area.[3]
6. Wisconsin Statutes 66.0401 provides regulations relating to solar energy systems.
7. On May 18, 2026 the Town of Trenton adopted Ordinance Z2026.05.01, allowing large scale solar projects as a conditional use in the C-1, Conservancy zoning district.

[1] Source: conditional use permit application
[2] Vegetation Management Plan for SV CSG Line Solar, LLC prepared by Natural Resource Services (January 21, 2026)
[3] Decommissioning Plan – SV CSG Line Solar, LLC Project prepared by Westwood Professional Services (February 4, 2026)

8. The C-1, Conservancy zoning district is regulated by Section 380-35 of the Zoning Code. Section 380-53B.(2)(a)[8][e] permits large scale solar energy as a conditional use.
9. Upon due notice, a public hearing for a conditional use for large scale solar energy on the property was held by the Town of Trenton Plan Commission on *June 22, 2026 and October 12, 2026,* as required by Section 380-40 of the Town of Trenton Zoning Ordinance.
10. All persons present were given an opportunity to be heard. The Town of Trenton Staff Review, dated *(insert date of staff report)* as received in the evidence of the conditional use hearing.
11. The matter came before the Town of Trenton Plan Commission on *June 22, 2026 and October 12, 2026*, for deliberation.
12. The Plan Commission finds that the Petitioner and Property Owner have shown by substantial evidence that all standards of the Town of Trenton Zoning Ordinance related to the proposed use will be met, and substantial evidence to the contrary has not been provided.

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[1] To the extent that findings of fact shown herein represent conclusions of law, these shall be deemed to be conclusions of law. To the extent that conclusions of law shown herein represent findings of fact, these shall be deemed to be findings of fact. The heading under which the statements are made shall not be controlling.

CONCLUSIONS OF LAW[5]

1. Section 380-53B. of the Town of Trenton Zoning Code describes certain standards applicable to the proposed use, and the Town Plan Commission determines that the standards are met in this case by substantial evidence.
2. The Town has proposed numerous conditions upon the use consistent with Section 380-53B.(2)[8] of the Zoning Code and the Town Plan Commission determines that the conditions are reasonable, and are based upon substantial evidence, and the Petitioner has demonstrated that the Petitioner and Property Owner will comply with the conditions required by the Town and required by this Conditional Use Order.

[5] See footnote 1

THEREFORE, IT IS ORDERED AS FOLLOWS:

CONDITIONS

Commencing on the date hereof, a Conditional Use Order for the Subject Property is hereby granted. The Conditional Use granted applies only to the use of the Subject Property as described below and shall continue in existence only so long as the conditional use is operated in compliance with these conditions. The Conditional Use is subject to initial and continued compliance with each and every one of the following conditions, restrictions and limitations.

1. The conditional use approval is limited to the uses described in the Petitioner's Application for Conditional Use Permit, as further restricted herein. The conditional use approval applies to the parcels at 5510 River Road, as further identified by the included legal description in Exhibit A (note: applicant must provide legal description of project area – asked Petitioner for this).

2. The conditional use permit and the privileges granted by the permit run with land and remain in effect, despite a change in ownership of the property, if the new owner or operator does not violate the terms of the local approval. Upon change of ownership of the facility, the new owner or operator of the facility shall file information with the Town Clerk providing pertinent information, including but not limited to such information as the name and address of the new owner and date of transfer of ownership.

3. Petitioner and Owner Agreement. As a condition precedent to the issuance of the conditional use permit, the owner of the Subject Property shall approve the issuance of this conditional use permit upon the terms and conditions described herein in writing, and the Petitioner is required to accept the terms and conditions of the same in its entirety in writing.
4. This approval is limited to a large-scale solar facility of approximately 25 acres. No other uses are permitted other than those permitted in the C-1 Conservancy zoning district under Section 380-35 of the Zoning Code.
5. Minimum setbacks shall be provided and maintained as required by Section 380-53B.(2)[8][c] and 380-35G. of the Zoning Code as further illustrated in Exhibit B.
6. The Vegetation Management Plan dated January 21, 2026, prepared by Natural Resource Services is incorporated by reference and that the vegetation within the project area be installed, managed and monitored in accordance with that plan.
7. To the extent practicable the existing tree lines on the east and west sides of the project area remain in place and undisturbed.
8. The tree line on the south adjacent to Prairie Meadow Park be preserved and augmented as part of a landscape plan to be reviewed by the Town Administrator.
9. A fence permit be obtained for the perimeter fencing prior to or concurrent with the commencement of construction. Fences shall meet all standards of Section 380-109 of the Zoning Code.
10. The conditional use shall be valid for *40 years* from the date of approval with an extension granted after that if the conditions of the conditional use permit are met and followed.

11. The Decommissioning Plan dated February 4, 2026 prepared by Westwood Professional Services is incorporated by reference and should the project be discontinued, or should the conditional use permit no longer remain in effect the petitioner shall be responsible for the decommissioning of the facility and the restoration of the project area in accordance with that plan.
12. Applicant must furnish financial assurance to guarantee compliance with all terms, conditions, and provisions of this conditional use permit, including the cost of decommissioning. At the applicant's option, such security shall be provided in the form of a performance bond issued by a surety licensed to do business in the State of Wisconsin, an irrevocable letter of credit, or a cash escrow. The security shall be in an amount determined by the Town Engineer to equal 110% of the estimated cost of the decommissioning and shall remain in full force and effect until formal release by the Town of Trenton. If the applicant fails to comply with the conditions of decommissioning within the timeframe specified, the Town of Trenton may draw upon the security to complete the work or remedy the non-compliance. The estimated cost of decommissioning shall be reviewed every ten years, and the security shall be adjusted if necessary.
13. Any and all technical deficiencies identified by Town staff or any approving or objecting authority shall be corrected.
14. The Applicant shall address any other issues which are raised by any approving or objecting authority, which the Town Plan Commission deems necessary for the applicant to address in the application materials.
15. The Town reserves the right, but not the obligation to monitor compliance with the terms of this conditional use order.
16. Other Conditions.
    a. No use is hereby authorized unless the use is conducted in a lawful, orderly and peaceful manner. Nothing in this order shall be deemed to authorize any public or private nuisance or to constitute a waiver, exemption or exception to any law, ordinance, order or rule of either the municipal governing body, Washington County, the State of Wisconsin, the United States of America or other duly constituted authority, except only to the extent that it authorizes the use of the subject property above described in any specific respects described herein. This order shall not be deemed to constitute a building permit, nor shall this order constitute any other license or permit required by Town ordinance or other law.
    b. This Conditional Use hereby authorized shall be confined to the subject property within the project area described, without extension or expansion other than as noted herein, and shall not vary from the purposes herein mentioned unless expressly authorized in writing by the Town Plan Commission as being in compliance with all pertinent ordinances.
    c. Should the permitted Conditional Use be abandoned in any manner, or discontinued in use for twelve (12) months, or continued other than in strict conformity with the conditions of the original approval, or should the petitioner be delinquent in payment of any monies due and owing to municipality, the Conditional Use may be terminated by action of the Town Plan Commission, after first allowing the Applicant an opportunity to be heard.

d. Any substantial change, addition, modification, alteration and/or amendment of any aspect of this Conditional Use, other than as specifically authorized herein, shall require a new permit and all procedures in place at the time must be followed. The operator may make reasonable changes that maintain compliance with the standards in this chapter, and the Town Board shall not withhold authorization for those changes.

e. Unless this Conditional Use Permit expressly states otherwise, plans that are specifically required by this Conditional Use Order may be amended upon the prior approval of the Town Plan Commission if the Town Plan Commission finds the plan amendment to be minor and consistent with the Conditional Use Permit. Any change in any plan that the Town Plan Commission feels, in its sole discretion, to be substantial, shall require a new permit, and all procedures in place at the time must be followed.

f. Should any paragraph or phrase of this Conditional Use Permit be determined by a Court to be unlawful, illegal or unconstitutional, said determination as to the particular phrase or paragraph shall not void the rest of the Conditional Use and the remainder shall continue in full force and effect.

g. If any aspect of this Conditional Use Permit or any aspect of any plan contemplated and approved under this Conditional Use conflicts with any other aspect of the Conditional Use or any aspect of any plan of the Conditional Use, the more restrictive provision shall be controlling as determined by the Town Plan Commission.

The Petitioner and Property Owner provided substantial evidence of meeting or agreeing to meet these conditions. There was no substantial evidence from opponents to the contrary. *Verify after public hearing.*

[*signatures on following pages*]

APPROVAL AND ACCEPTANCE

I hereby approve the issuance of this Conditional Use Permit on the terms and conditions described in their entirety herein.

PROPERTY OWNER:
Dennis R Schloemer Family Trust
Lynn A Schloemer Family Trust

By:_____
(Authorized Signatory)

Title:_____

Date:_____

PETITIONER:
SV CSG Linde Solar, LLC

By:_____
(Authorized Signatory)

Title:_____

Date:_____

STATE OF WISCONSIN)
) ss.
COUNTY OF WASHINGTON)

Personally came before me on this_____day of_____, 20_____, the above-named executed the foregoing instrument and acknowledged the same.

_____
NOTARY PUBLIC, STATE OF WI
Print Name: _____
My Commission Expires: _____

Dated this_____day of_____, 20___.

Dated this_____day of_____, 20___.

TOWN OF TRENTON

By:_____
Mike Lipscomb, Town Chairman

ATTEST:

_____
Cindy Komro, Town Clerk

STATE OF WISCONSIN)
) ss.
COUNTY OF WASHINGTON)

Personally came before me on this_____day of_____, 20_____, the above-named executed the foregoing instrument and acknowledged the same.

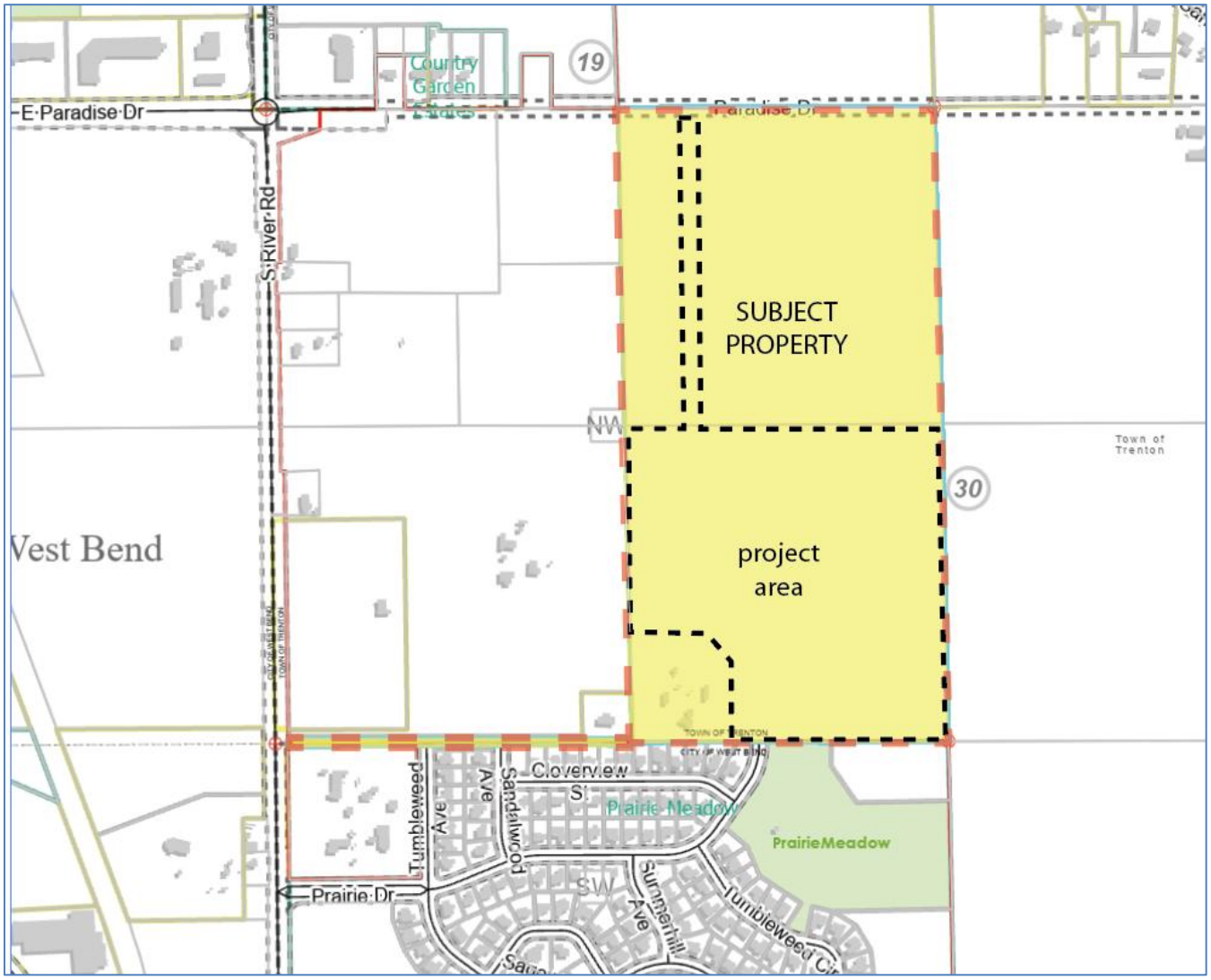
_____
NOTARY PUBLIC, STATE OF WI
Print Name: _____
My Commission Expires: _____

EXHIBIT A

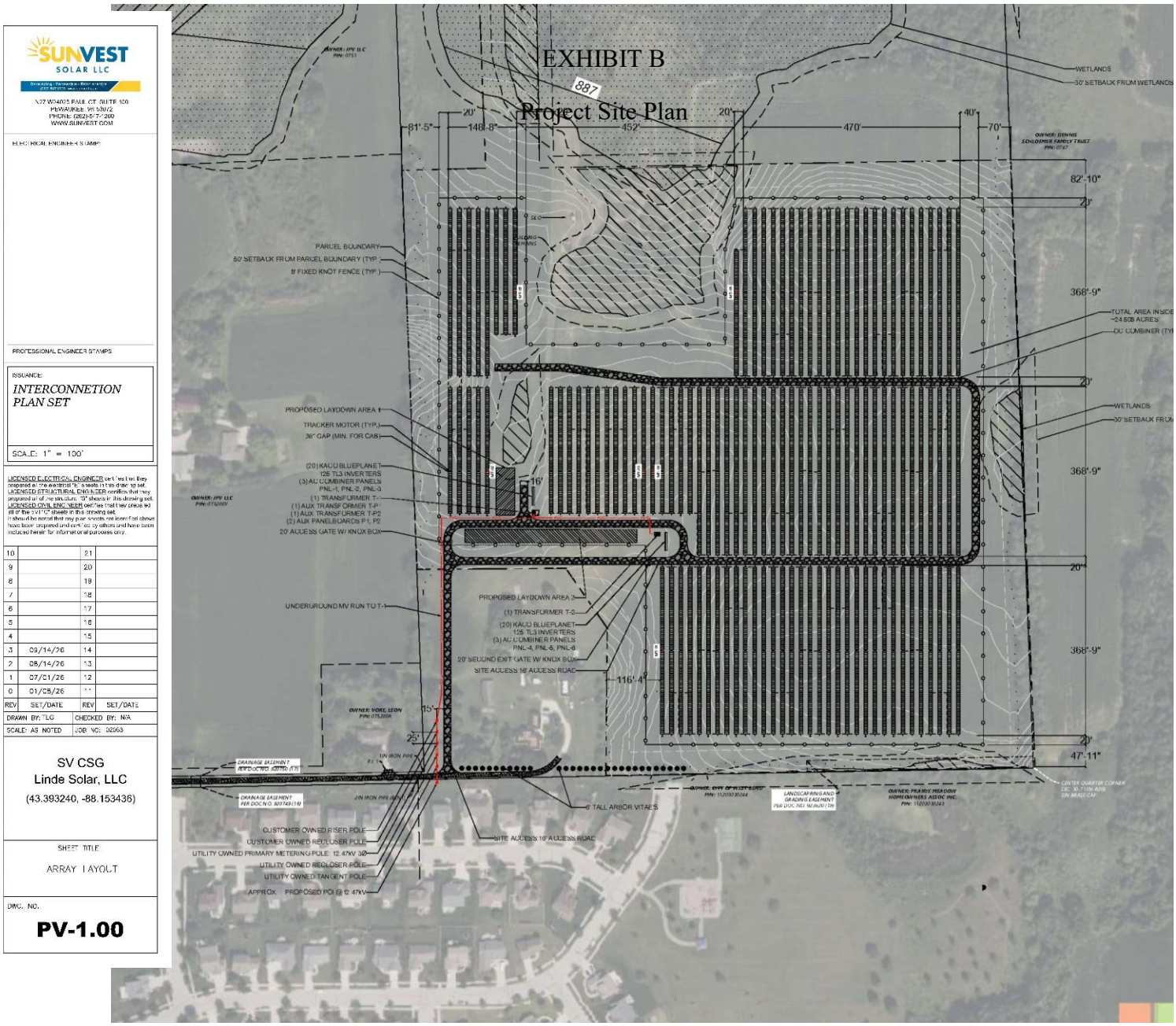
Legal Description (from Washington County, WI GIS and application)

Parcel Identification Numbers (acres): T11_0753 (40.77 acres) and T11_0747 (40 acres)
Zoning Classification of the premises is C-1 Conservancy District
Mailing address of premises is 5510 River Road, West Bend, WI 53095

Legal description of the property which is the subject of this application: (NOTE: Legal description of project area to be provided by applicant)



source: Washington Co. GIS



Source: Project Application, as revised on 09/25/2026

Conditional Use Permit Application Addendum

To: Town of Trenton Planning Commission

Date: October 1, 2026

Project: SV CSG Linde Solar, LLC

Applicant: SunVest Solar, LLC d/b/a SV CSG Linde Solar, LLC

Property: 5510 S River Road, West Bend, WI 53095

This addendum is submitted to amend the previously submitted conditional use permit application for the above-referenced project. We request that the Town of Trenton Planning Commission consider the following two revisions as part of its review of the application.

1. **Operating Term**

   We request an operating term of forty (40) years, commencing on the date the project begins operation. The requested 40-year operating term begins when the project is up and operating, rather than on the date the conditional use permit is approved. This has increased from 35 years in the original application.

2. **Removal of Tree in Southeast Corner**

   We now propose removal of the large tree outlined on the originally submitted site plan in the southeast corner of the property. Removal is proposed due to shading concerns affecting the project, as well as concerns regarding the tree's health and safety. This addendum revises the application to identify that tree for removal.

3. **Tree Screening Along the South Side**

   We have since incorporated tree screening along the south side of the project to adequately screen the project from neighboring properties.

4. **Access for Emergency Services**

   We have also incorporated a fire road, as shown on the submitted site plan, and a second exit for emergency services. Both the fire road and the second emergency exit were requested by Brad Karnitz, Newburg Fire Chief.

5. **Emergency Water Cost Agreement**

   We have discussed with Mike Lipscomb, Cindy Komro, and Brad Karnitz the use of City of West Bend water by Newburg in the event of an emergency at the project. The project company will enter into an agreement with Newburg to pay any costs Newburg incurs from opening a City of West Bend fire hydrant in response to such an emergency. Execution of this agreement by the project company will be a condition that must be satisfied before issuance of the project's building permit.

6. **Relocation of Access Road and Equipment**

   The most recent site plan relocates the project access road so that the access is now located before the landowner's residence, rather than after it, along the approach to the property. The project equipment has also been relocated to a distance from the residence that is twice the distance shown in the earlier site plan.

We request that this addendum be included in the application record and that these revisions be reflected in the Commission's review and any resulting approval conditions.

Conditional Use Permit Application for SV CSG Linde Solar, LLC

Prepared by: Jacob Van Domelen (SunVest Solar, LLC)

Project Summary

SV CSG Linde Solar, LLC ("The Project" or "Linde CSG ") respectively submits this application for a Conditional Use Permit ("CUP") to the Town of Trenton. Linde CSG requests that the Town of Trenton Planning and Zoning Commission, upon review, recommends approval, and that the Town Board approves for the Project to be permitted, constructed, own and operated by Linde CSG.

The Project will be located off of South River Road.

PROJECT FACILITIES

The Project facilities will include: Solar modules, inverters, steel racking, fencing, access road, one weather station, and interconnection poles. The project footprint is approximately 25 acres. Linde CSG selected the specific development area based on available land use guidance, significant landowner interest, interconnection suitability and optimal solar resource.

Project Specifications

SCREENING

This application has not proposed a screening plan due to the existing tree line and shrubbery in the location that any screening would be necessary. Pictured below are both aerial and street view images of the existing screening that would suffice.

5510
1810
1816
1822
1828
1834
Cloverview St
Cloverview St
Prairie Dr

Prairie Dr

SV CSG Linde Solar, LLC

(43.393240, -88.153436)

PV SYSTEM DETAILS

ARRAY TYPE:	SINGLE AXIS TRACKER (SAT)
DC SYSTEM SIZE:	6.21624 MW DC
DC SYSTEM VOLTAGE:	1500 V
AC SYSTEM SIZE:	4.950 MVA @PF=1
DC/AC RATIO:	1.25581
MODULE QTY/TYPE:	(10,536) HANWHA QCELL:Q.PEAK DUO XL-G11S
MODULE WATTAGE:	590 W
INVERTER QTY/TYPE:	(40) KACO -125 TL3 M1 WM OD (XL) 600V:120.3A
INVERTER AC OUTPUT :	(39) 125 KW (01) 75 KW ***POWER LIMITED***
STRING SIZE:	(24) MODULES PER STRING (439) TOTAL STRINGS
OPTIMIZER TYPE:	N/A
RACKING:	TBD
CLAMPS:	NA
AZIMUTH:	90°
INTER-ROW SPACING:	20'-1" (CENTER TO CENTER SPACING)
ARRAY TILT:	+/- 52° (SAT) OR 25° (GFT)

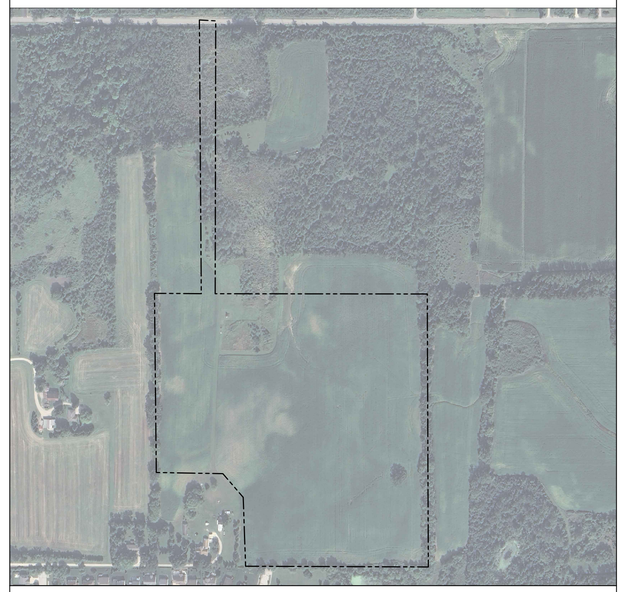
SITE INFORMATION

FENCE LINEAR FEET:	5349 L.F.
APPROXIMATE SITE ACREAGE:	24.508 ACRES (INSIDE FENCE)

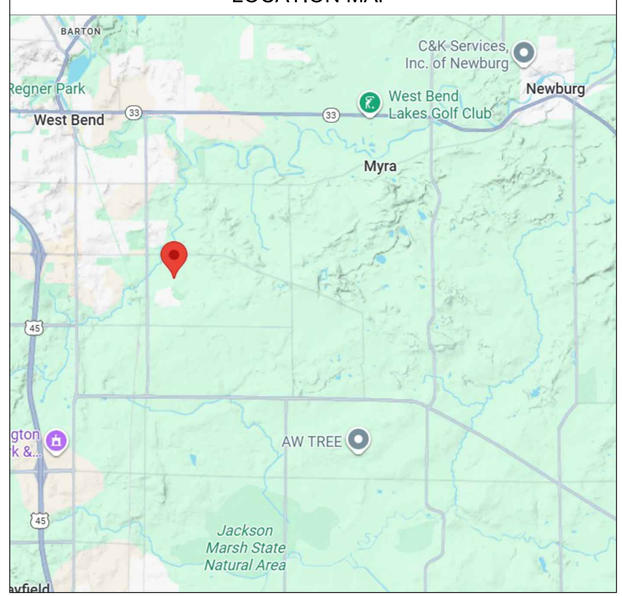
UTILITY INFORMATION

UTILITY COMPANY:	WE Energies
UTILITY COMPANY CONTACT: TBD	PHONE: NA
UTILITY PROJECT MANAGER: TBD	PHONE: NA
INTERCONNECTION VOLTAGE:	12.47 KV

AERIAL SITE LOCATION



LOCATION MAP



SHEET INDEX

DWG #:	SHEET TITLE:
T-1.00	TITLE SHEET
G-1.00	GENERAL NOTES AND SYMBOLS
G-2.00	GENERAL NOTES
PV-1.00	ARRAY LAYOUT
E-1.00	ONE-LINE DIAGRAM
E-4.00	SPEC SHEETS

SUNVEST SOLAR LLC
Developing • Renewable • Relationships
(262) 547-1200 www.sunvest.com

N27 W24025 PAUL CT. SUITE 100
PEWAUKEE, WI 53072
PHONE: (262)-547-1200
WWW.SUNVEST.COM

ELECTRICAL ENGINEER STAMP:

PROFESSIONAL ENGINEER STAMPS

ISSUANCE:

INTERCONNETION PLAN SET

LICENSED ELECTRICAL ENGINEER certifies that they prepared all the electrical "E" sheets in this drawing set.
LICENSED STRUCTURAL ENGINEER certifies that they prepared all of the structural "S" sheets in this drawing set.
LICENSED CIVIL ENGINEER certifies that they prepared all of the civil "C" sheets in this drawing set.
It should be noted that any plan sheets not identified above have been prepared and certified by others and have been included herein for informational purposes only.

10		21	
9		20	
8		19	
7		18	
6		17	
5		16	
4		15	
3		14	
2	09/25/26	13	
1	07/01/26	12	
0	01/08/26	11	
REV	SET/DATE	REV	SET/DATE

DRAWN BY: TLG | CHECKED BY: N/A
SCALE: AS NOTED | JOB NO: 02063

SV CSG
Linde Solar, LLC
(43.393240, -88.153436)

SHEET TITLE

TITLE SHEET

DWG. NO.

T-1.00

SYMBOLS LEGEND:

FUSE

SURGE PROTECTION DEVICE/ SURGE ARRESTER MOV STYLE

CIRCUIT BREAKER

GROUND

GROUNDED WYE

DELTA

MV DISCONNECT

NON-FUSED CUTOUT

POTENTIAL TRANSFORMER (PT)

CPT — CONTROL POWER TRANSFORMER

CT — CURRENT TRANSFORMER (CT)

CS — CURRENT SENSOR (CS)

VS — VOLTAGE SENSOR (VS)

METER — METER

INVERTER

INVERTER WITH INTEGRATED DISCONNECT

PANELBOARD

MAIN DISTRIBUTION SWITCHBOARD

FUSED DISCONNECT

NON FUSED DISCONNECT

AIRBREAK (GOAB) DISCONNECT SWITCH

ELECTRIC SYMBOLS:

AUXILIARY TRANSFORMER

WYE/WYE TRANSFORMER W/ INTERNAL FUSING AND SURGE ARRESTERS

WYE/DELTA TRANSFORMER W/ INTERNAL FUSING AND SURGE ARRESTERS

25A, XXXA 100%, 25A, SPD TYP. — STRING COMBINER BOX

R — RESISTOR

R — RECLOSER W/ VACUUM INTERRUPTER

R — RECLOSER W/ MULTIFUNCTIONAL RELAY

M — TRACKER MOTOR

1 — PV MODULE

L — INDICATING LIGHT

SPECIAL PURPOSE OUTLET CONNECTION

ST — SHUNT-TRIP

XXXA FUSE, XXXA/3P 100% BPS, GFP — FUSED BOLTED-PRESSURE SWITCH (BPS) W/ GROUND-FAULT-PROTECTION (GFP)

DC, DC — DC/DC OPTIMIZER/CONVERTER

METER — PRIMARY REVENUE METER POLE

LV CONNECTION/TERMINATION

MV LIVE-FRONT BUSHING/TERMINATION

MV DEAD-FRONT BUSHING/ TERMINATION

MEDIUM VOLTAGE- UNDERGROUND

OHE — EXISTING OVERHEAD CONDUCTORS

DC CONDUCTORS- ABOVE GROUND

AC — AC CONDUCTORS ABOVE GROUND

DC CONDUCTORS- UNDERGROUND

AC CONDUCTORS- UNDERGROUND

COMMUNICATION

(2 STRING) MODULE TRACKER

(3 STRING) MODULE TRACKER

(4 STRING) MODULE TRACKER

SITE LAYOUT SYMBOLS:

PARCEL BOUNDARY

PARCEL SETBACKS

ARRAY FENCE

WETLANDS

WETLAND SETBACK

FLOODPLAIN

FLOODPLAIN SETBACK

BUILDING

BUILDING SETBACK

INVERTER STRINGING (11 STRINGS)

INVERTER STRINGING (12 STRINGS)

INVERTER STRINGING (13 STRINGS)

DC TRENCHING

AC TRENCHING

POWER UNDERGROUND

POWER OVERHEAD

ACCESS ROAD

MODULE

TORQUE TUBE

ACCESS GATE

UTILITY/CUSTOMER POLES

EQUIPMENT PAD

INVERTER RACK

MAIN SWITCHBOARD

TRANSFORMER

TRACKER MOTOR

DC COMBINER BOX

POLLINATOR

TREE (VEGETATION)

SHRUB (VEGETATION)

AUXILLARY TRANSFORMER

BESS EQUIPMENT PAD

GENERAL NOTES/REQUIREMENTS:

1.1 THE WORK TO BE DONE UNDER THIS PROJECT INCLUDES PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES NOT INCLUDED IN THE B.O.M, AND PERFORMING ALL OPERATIONS FOR COMPLETE AND OPERATING SYSTEMS. ANY WORK NOT SPECIFICALLY COVERED BUT NECESSARY TO COMPLETE THIS INSTALLATION, SHALL BE PROVIDED. ALL EQUIPMENT AND WIRING TO BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED.

1.2 ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AS WELL AS ALL APPLICABLE LAWS AND REGULATIONS AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK:

1.3 THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "CONTRACTOR" SHALL MEAN ELECTRICAL CONTRACTOR.

1.4 ONLY WRITTEN CHANGES AND/OR MODIFICATIONS APPROVED BY THE ENGINEER, CONSULTING ENGINEER OR OWNER'S REPRESENTATIVE WILL BE RECOGNIZED.

1.5 THE ELECTRICAL CONTRACTOR SHALL SUBMIT, FOR THE ENGINEER'S APPROVAL, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT SPECIFIED.

1.6 CONTRACTOR SHALL COORDINATE WITH SPECIFICATIONS PROVIDED BY OTHER TRADES.

1.7 PROVIDE OPERATING AND MAINTENANCE MANUALS, PER SPECIFICATIONS, AND GIVE INSTRUCTIONS TO USER FOR ALL EQUIPMENT AND SYSTEMS PROVIDED UNDER THIS CONTRACT AFTER ALL ARE CLEANED AND OPERATING.

1.8 KEEP PREMISES FREE FROM RUBBISH. REMOVE ALL ELECTRICAL RUBBISH FROM SITE.

1.9 ALL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

1.10 THE WORK SHALL INCLUDE ALL PANELS, DEVICES, FEEDERS AND BRANCH CIRCUIT WIRING AS REQUIRED FOR THE DISTRIBUTION SYSTEM INDICATED AND CALLED FOR ON THE DRAWINGS, REQUIRED BY SPECIFICATIONS AND AS NECESSARY FOR COMPLETE FUNCTIONAL SYSTEMS PRESENTED AND INTENDED.

1.11 THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, TOOLS, EQUIPMENT, CONSUMABLES AND SERVICES REQUIRED FOR OBTAINING, DELIVERY, INSTALLATION, CONNECTION, DISCONNECTION, REMOVAL, RELOCATION, REPAIR, REPLACEMENT, TESTING AND COMMISSIONING OF ALL EQUIPMENT AND DEVICES INCLUDED IN OR NECESSARY FOR THE WORK, AS APPLICABLE. THIS INCLUDES SCAFFOLDING, LADDERS, RIGGING, HOISTING, ETC.

1.12 ELECTRICAL WORK SHALL INCLUDE ALL REQUIRED CUTTING, PATCHING AND THE FULL RESTORATION OF WALL AND FLOOR STRUCTURE AND SURFACES. ALL EQUIPMENT, WALLS, FLOORS, ETC., DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTORS EXPENSE.

1.13 BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL FULLY AQUAINT HIMSELF/HERSELF WITH THE JOB CONDITIONS AND DIFFICULTIES THAT WILL PERTAIN TO THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

1.14 THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES.

1.15 UPON COMPLETION OF THE ELECTRICAL WORK, THE CONTRACTOR SHALL TEST THE COMPLETE ELECTRICAL SYSTEM FOR SHORTS, GROUNDS, AND PROPER OPERATION, IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

1.16 UPON COMPLETION OF WORK, THE CONTRACTOR SHALL CLEAN AND ADJUST ALL EQUIPMENT AND LIGHTING AND TEST SYSTEMS TO THE SATISFACTION OF OWNER AND ENGINEER. RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

1.17 THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.

1.18 EXACT ROUTING OF CONDUITS AND "MC" CABLES SHALL BE DETERMINED IN THE FIELD.

1.19 IF THE OWNER AND/OR HIS REPRESENTATIVE CONSIDERS ANY WORK TO BE INFERIOR, THE RESPECTIVE CONTRACTOR SHALL REPLACE SAME WITH CONTRACT STANDARD WORK WITHOUT ADDITIONAL CHARGE. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE MANNER, LEFT CLEAN AND FREE FROM DEFECTS, AND COMPLETELY OPERABLE.

1.20 THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED. ALL MATERIALS SHALL BE NEW, AND BEAR THE UL LABEL. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.

1.21 DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AND SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT OF THE CONTRACT. THE DRAWINGS AND SPECIFICATIONS COMPLIMENT ONE ANOTHER, AND WHAT IS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, AND VICE VERSA, IS TO BE INCLUDED IN THE SCOPE OF WORK.

1.22 ALL EQUIPMENT CONNECTIONS SHALL BE INSTALLED PER APPLICABLE SEISMIC REQUIRMENTS.

1.23 ENGINEER WILL MAKE A FINAL INSPECTION WITH THE OWNER AND CONTRACTOR AND WILL NOTIFY THE CONTRACTOR IN WRITING OF ALL PARTICULARS IN WHICH THIS INSPECTION REVEALS THAT THE WORK IS INCOMPLETE OR DEFECTIVE. THE CONTRACTOR SHALL IMMEDIATELY TAKE SUCH MEASURES AS ARE NECESSARY TO COMPLETE SUCH WORK OR REMEDY SUCH DEFICIENCIES.

1.24 THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR ELECTRICAL WORK. BACKFILL SHALL BE SUITABLE MATERIAL PROPERLY COMPACTED TO 95% DENSITY IN EACH LAYER OF SIX (6) INCH DEPTH. CONDUIT SHALL BE MINIMUM 30" BELOW FINISHED GRADE.

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ELECTRICAL ENGINEER STAMP:

PROFESSIONAL ENGINEER STAMPS

ISSUANCE:

INTERCONNETION PLAN SET

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DRAWN BY: TLG | CHECKED BY: N/A
SCALE: AS NOTED | JOB NO: 02063

SV CSG
Linde Solar, LLC
(43.393240, -88.153436)

SHEET TITLE

GENERAL NOTES AND SYMBOLS

DWG. NO.

G-1.00

GENERAL NOTES/REQUIREMENTS:

2. PROJECT COORDINATION:

2.1 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH THE WORK.

2.2 THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH THE DOCUMENTS OF ALL TRADES.

2.3 THE CONTRACTOR SHALL FURNISH A SCHEDULE INDICATING HIS PORTION OF TIME, WITHIN THE OVERALL SCHEDULE, REQUIRED TO COMPLETE THE WORK, IN CONJUNCTION WITH ALL TRADES. ALL WORK THAT MAY AFFECT OPERATION OF BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

2.4 SHUT DOWN OF POWER SHALL BE COORDINATED WITH THE OWNER, ARCHITECT AND PROJECT MANAGER AT LEAST 14 WORKING DAYS PRIOR TO SHUT DOWN. SHUT DOWNS LONGER THAN 2 DAYS SHALL BE COORDINATED WITH THE ABOVE PERSONNEL AT LEAST ONE MONTH IN ADVANCE. TEMPORARY POWER FOR CONSTRUCTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR SHUT DOWNS OVER 2 DAYS.

2.5 ALL CONDUITS AND DEVICE BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL TECHNOLOGY CONDUITS AND BOXES.

2.6 EXACT LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL AND MILLWORK PLANS. ALL OUTLET AND EQUIPMENT LAYOUTS SHALL BE VERIFIED AND COORDINATED WITH WORK OF OTHER TRADES.

2.7 PROVIDE TEMPORARY LIGHTING AND POWER IN ACCORDANCE WITH ARTICLE 305 OF THE NEC. TEMPORARY LIGHTING FIXTURES IN UNFINISHED AREAS SHALL REMAIN CONNECTED UNTIL REMOVAL IS REQUESTED BY THE CONTRACTOR.

2.8 THE CONTRACTOR SHALL CONTACT THE BUILDING MANAGER TO OBTAIN A COPY OF THE GENERAL REQUIREMENTS AND/OR CONDITIONS TO BE USED FOR THIS PROJECT.

3. CONNECTORS:

3.1 DO NOT CROSS MATE CONNECTORS ON ANY SYSTEM. ENSURE THAT CONNECTOR SELECTION MEETS THE LEGAL BASIS THE EXCLUDE CROSS-CONNECTIONS OF:

- PRODUCT NORMS ((IEC 62852 (EN62852)) AND UL 6703 PRODUCT NORM RESP. UL 1703 MODULE NORM
- INSTALLATION NORMS AND LOCAL REGULATIONS
- ASSEMBLY INSTRUCTIONS OF THE MANUFACTURER

VALID PV STANDARDS (IEC 60364-7-712:2017; E343181) STATE THAT "MALE AND FEMALE CONNECTORS [...] SHALL BE OF THE SAME TYPE FROM THE SAME MANUFACTURER" AND THAT UL CERTIFICATION FOR CONNECTORS ONLY APPLIES IF PRODUCTS FROM THE SAME PRODUCT FAMILY HAVE BEEN MATED

4. WARRANTIES:

4.1 ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED IN WRITING FOR A MINIMUM OF ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER.

4.2 WORKMANSHIP SHALL BE GUARANTEED IN WRITING FOR A MINIMUM OF 5 YEARS AFTER FINAL ACCEPTANCE BY OWNER

4.3 OBTAIN AND DELIVER TO THE OWNER'S REPRESENTATIVE ALL GUARANTEES AND CERTIFICATES OF COMPLIANCE.

5. PERMITS:

5.1 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES FOR ELECTRICAL WORK.

6. RACEWAYS:

6.1 ALL CONDUIT SHALL BE MINIMUM SIZE OF 1/2" FOR POWER CIRCUITS AND CONTROL CIRCUITS EXCEPT WHERE FLEXIBLE CONDUIT IS CALLED FOR ON PROJECT DOCUMENTS. ALL EXTERIOR EXPOSED CONDUIT SHALL BE PVC. ALL UNDERGROUND, IN SLAB OR UNDER SLAB SHALL BE SCH. 40 PVC. CHANGE TO SCH. 80 PVC CONDUIT BEFORE EXITING OUT OF UNDERGROUND SECTIONS. EMT IS ALLOWED IN INTERIOR DRY LOCATIONS WHERE NOT SUBJECT TO DAMAGE.

6.2 ALL FLEXIBLE CONDUIT IN WET OR DRY AREAS SHALL BE LIQUID TIGHT CONDUIT. NONMETALLIC FLEXIBLE CONDUIT IS SPECIFICALLY PROHIBITED.

6.3 CONDUIT SHALL BE RUN AT RIGHT ANGLES AND PARALLEL TO BUILDING LINES, SHALL BE NEATLY RACKED AND SECURELY FASTENED. JUNCTION BOXES SHALL BE PROVIDED WHERE REQUIRED TO FACILITATE INSTALLATION OF WIRES.

6.4 ALL CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER.

6.5 ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH A 200 LB. TEST NYLON DRAG LINE.

6.6 ARRANGEMENT OF CONDUIT AND EQUIPMENT SHALL BE AS INDICATED, UNLESS MODIFICATION IS REQUIRED TO AVOID INTERFERENCES.

6.7 ALL RACEWAY AND WIRING SHALL BE CONCEALED IN FINISHED AREAS. RACEWAY IN MECHANICAL ROOMS, BASEMENTS AND CRAWL SPACES MAY BE SURFACE MOUNTED.

6.8 FOR CONDUITS CROSSING EXPANSION JOINTS, PROVIDE EXPANSION FITTINGS FOR SIZE 1-1/4", AND LARGER. PROVIDE SECTIONS OF FLEXIBLE CONDUIT WITH GROUNDING JUMPERS FOR SIZES 1" AND SMALLER.

6.9 THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS WITH APPROVED FIRE RATED SEALANT. ALL PENETRATIONS THROUGH ALL WALLS AND FLOORS SHALL BE SEALED. FOR ALL SLAB PENETRATIONS THE METHOD, DEPTHS AND LOCATIONS SHALL BE PRE-APPROVED BY THE BUILDING ENGINEER PRIOR TO THE START OF WORK.

6.10 THE CONTRACTOR SHALL INSTALL DETECTABLE UNDERGROUND TAPES FOR THE PROTECTION, LOCATION AND IDENTIFICATION OF UNDERGROUND CONDUIT INSTALLATION.

6.11 EXACT ROUTING OF CONDUITS AND CABLES SHALL BE DETERMINED IN FIELD.

6.12 ALL PENETRATIONS THROUGH FLOORS SHALL BE FIRE STOPPED AND SEALED WITH APPROVED SEALANT.

6.13 ELECTRICAL RACEWAY CONNECTIONS TO VIBRATING EQUIPMENT AND MACHINERY, SHALL BE MADE WITH FLEXIBLE LIQUID TIGHT METALLIC CONDUIT.

6.14 SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK. MACHINE SCREWS IN METAL, BEAM CLAMPS IN FRAMEWORK AND WOOD SCREWS IN WOOD. NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES.

6.15 DO NOT RUN RACEWAYS CLOSER THAN 6 INCHES WHEN PARALLEL TO HOT WATER OR STEAM PIPES. WHEN CROSSING WATER OR STEAM PIPES CROSS A MINIMUM OF 3 INCHES ABOVE. IF CROSSING BELOW IS UNAVOIDABLE, PROVIDE DRIP SHIELDS EXTENDING 6 INCHES BEYOND THE WATER OR STEAMPIPE. BOXES INSTALLED IN PROXIMITY TO WATER OR STEAM PIPE SHALL BE RATED NEMA 4X.

7. BOXES:

7.1 INTERIOR JUNCTION BOXES SHALL BE SHEET STEEL. EXTERIOR JUNCTION BOXES SHALL BE NONMETALLIC, WITH SCREW COVERS. BOXES SHALL BE SUPPORTED INDEPENDENTLY OF CONDUITS.

8. WIRING:

8.1 ALL WIRE SHALL BE MADE OF COPPER WITH INSULATION SUITABLE FOR THE APPLICABLE ENVIRONMENT AND VOLTAGE. CONTRACTOR SHALL GET APPROVAL FOR ANY OTHER WIRE TYPE.

8.2 UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED.

8.3 ALL ELECTRICAL TERMINAL TEMPERATURE RATINGS ASSUMED TO BE 75° C UNLESS SITE CONDITIONS REQUIRE OTHERWISE.

8.4 WIRE SIZES SHALL BE INCREASED WHERE NECESSARY TO LIMIT AC VOLTAGE DROP TO 1.5% TOTAL FROM INVERTER TO POINT OF COMMON COUPLING

9. GROUNDING:

9.1 PROVIDE A COMPLETE EQUIPMENT GROUND SYSTEM FOR THE ELECTRICAL SYSTEM AS REQUIRED BY ARTICLE 250 AND 690, OF THE NEC, AND AS SPECIFIED HEREIN.

9.2 ALL BRANCH CIRCUITS AND FEEDERS FOR POWER WIRING SHALL CONTAIN A COPPER GROUND WIRE. NO FLEXIBLE METAL CONDUIT OF ANY KIND OR LENGTH SHALL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.

10. MECHANICAL SYSTEMS POWER:

10.1 DISCONNECT SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE, QUICK BREAK TYPE, ENCLOSED IN A HEAVY SHEET METAL ENCLOSURE WITH HINGED INTERLOCKING COVER, IN PROPER NEMA RATED ENCLOSURES. FUSED OR NON-FUSED AS REQUIRED. DISCONNECT SWITCHES SHALL BE PROVIDED BY CONTRACTOR, EXCEPT AS NOTED ON DRAWINGS.

10.2 THE RATING FOR DISCONNECT SWITCHES SHALL BE THE SAME AS, OR GREATER THAN, THE PROTECTIVE DEVICE SERVING THE EQUIPMENT.

10.3 A STRUT FRAME SHALL BE PROVIDED AT ALL LOCATIONS WHERE STRUCTURE WILL NOT ADEQUATELY SUPPORT EQUIPMENT, OR FOR FREESTANDING EQUIPMENT.

11. PANEL BOARDS:

11.1 PANELBOARDS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, AND SILVER OR TIN-PLATED JOINTS. CABINETS SHALL BE GALVANIZED SHEET STEEL BACK BOX, WITH DOOR AND TRIM AND LAPPED AND WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/LATCH HANDLE ASSEMBLY (UP TO 48 IN. HIGH DOORS) OR VAULT HANDLE, LOCK AND 3-POINT CATCH (LARGER THAN 48 IN. HIGH DOORS). HINGES SHALL BE SEMI-CONCEALED, 5-KNUCKLE STEEL WITH NONFERROUS PINS, 180-DEG OPENING, LOCATED A MAXIMUM 26 IN. ON CENTERS. PROVIDE DOOR-IN-DOOR CONSTRUCTION. MINIMUM GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5- BOTTOM. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC, TRANSPARENT COVER.

11.2 PROVIDE A NEW TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANEL AFFECTED BY THIS PROJECT.

11.3 WHEREVER POSSIBLE, PANELBOARDS SHALL BE RECESSED IN WALL. SURFACE MOUNTED PANELBOARDS SHALL BE MOUNTED ON A PLYWOOD BACKBOARD. PLYWOOD SHALL BE MOUNTED ON TOP OF GYMPSUM BOARD. PLYWOOD SHALL BE PAINTED ON ALL SIDES AND EDGES. COORDINATE WITH OWNER FOR COLOR.

11.4 PROVIDE LIGHTNING SURGE PROTECTION FOR MAIN SWITCHBOARD OR MAIN SERVICE PANEL BOARD. PROVIDE GROUNDING OF SURGE DEVICE PER THE NEC.

11.5 CONTRACTOR IS RESPONSIBLE FOR BALANCING LOADS ON ALL PHASES AND MAY ALTER ASSIGNMENT OF CIRCUITS FOR BALANCING PHASES.

11.6 CIRCUIT SCHEDULES ARE INTENDED TO REPRESENT THE GENERAL WIRING NEEDS OF THE EQUIPMENT SERVICED FROM THE PANEL. THE EXACT CIRCUIT ARRANGEMENT WILL BE DETERMINED BY PANEL SHOP DRAWING AND ARRANGEMENT WILL BE DETERMINED BY PANEL SHOP DRAWING AND PANELS ACTUALLY FURNISHED.

12. IDENTIFICATION:

12.1 REFER TO NEC LABELS DRAWING FOR LABELING REQUIREMENTS

12.2 INSTALL NAMEPLATES ON ALL MAJOR EQUIPMENT, INCLUDE STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECT SWITCHES AND OTHER ELECTRICAL BOXES AND CABINETS INSTALLED UNDER THIS CONTRACT.

12.3 APPLY CABLE/CONDUCTOR IDENTIFICATION MARKERS ON EACH CABLE AND CONDUCTOR IN EACH BOX, ENCLOSURE OR CABINET.

13. RECORD DRAWINGS:

13.1 THE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAWINGS. THE APPROVAL OF SHOP DRAWINGS SHALL ONLY BE CONSTRUED TO APPLY TO THE GENERAL LAYOUT AND CONFORMANCE TO THE DESIGN CONCEPT OF THE PROJECT AND FOR THE COMPLIANCE WITH THE GENERAL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

13.2 PROVIDE SHOP DRAWINGS FOR THE LIGHTING FIXTURES, PANEL BOARDS, CIRCUIT BREAKERS, WIRING DEVICES, FIRE ALARM DEVICES AND SEALS FOR FIRE AND WATER STOPPING.

13.3 DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF INSTALLATION PRINTS. HE SHALL NEATLY AND CLEARLY RECORD ON THESE PRINTS ALL DEVIATIONS FROM THE CONTRACT DRAWINGS IN SIZES, LOCATIONS AND DETAILS.

13.4 UPON PROJECT COMPLETION, THE CONTRACTOR SHALL COMPLETE THE MARK UP OF ALL PROJECT DRAWINGS TO RECORD INSTALLED CONDITIONS.

13.5 REPRODUCIBLE "RECORD" DRAWINGS PREPARED IN CAD FORMAT SHALL BE PROVIDED AS INSTALLED CONDITIONS OF THE WORK. A FULL SIZE PRINT OUT OF THE "RECORD" DRAWING FILE SHALL BE PROVIDED AFTER COMPLETION OF THE INSTALLATION.

13.6 UPON COMPLETION AND ACCEPTANCE OF WORK, THE CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE THE PROPER OPERATIONS AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.

14. PROTECTION OF WORK:

14.1 EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.

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DRAWN BY: TLG | CHECKED BY: N/A
SCALE: AS NOTED | JOB NO: 02063

SV CSG
Linde Solar, LLC
(43.393240, -88.153436)

SHEET TITLE
GENERAL NOTES

DWG. NO.
G-2.00

SITE LAYOUT SYMBOL LEGEND:

- PARCEL BOUNDARY
- PARCEL SETBACKS
- ARRAY FENCE
- WETLANDS
- WETLAND SETBACK
- FLOODPLAIN
- FLOODPLAIN SETBACK
- BUILDING
- BUILDING SETBACK
- INVERTER STRINGING (11 STRINGS)
- INVERTER STRINGING (12 STRINGS)
- INVERTER STRINGING (13 STRINGS)
- DC TRENCHING
- AC TRENCHING
- POWER UNDERGROUND
- POWER OVERHEAD
- ACCESS ROAD
- MODULE
- TORQUE TUBE
- ACCESS GATE
- UTILITY/CUSTOMER POLES
- EQUIPMENT PAD
- INVERTER RACK
- MAIN SWITCHBOARD
- TRANSFORMER
- TRACKER MOTOR
- DC COMBINER BOX
- POLLINATOR
- TREE (VEGETATION)
- SHRUB (VEGETATION)
- AUXILLARY TRANSFORMER
- BESS EQUIPMENT PAD

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SCALE: 1" = 100'

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SHEET TITLE

ARRAY LAYOUT

DWG. NO.

PV-1.00

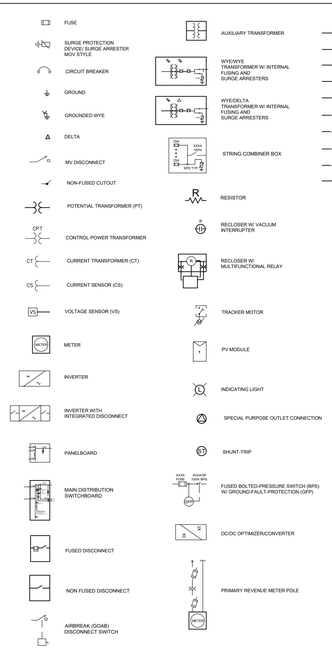
PV SYSTEM DETAILS

ARRAY TYPE:	SINGLE AXIS TRACKER (SAT)
DC SYSTEM SIZE:	6.21624 MW DC
DC SYSTEM VOLTAGE:	1500 V
AC SYSTEM SIZE:	4.950 MVA @PF=1
DC/AC RATIO:	1.25581
MODULE QTY/TYPE:	(10,536) HANWHA QCELL:Q.PEAK DUO XL-G11S
MODULE WATTAGE:	590W
INVERTER QTY/TYPE:	(40) KACO 125 TL3 M1 WM OD (XL) 600V:120.3A
INVERTER AC OUTPUT :	(39) 125KW (01) 75KW ***POWER LIMITED***
STRING SIZE:	(24) MODULES PER STRING (439) TOTAL STRINGS
OPTIMIZER TYPE:	N/A

ELECTRICAL NOTES

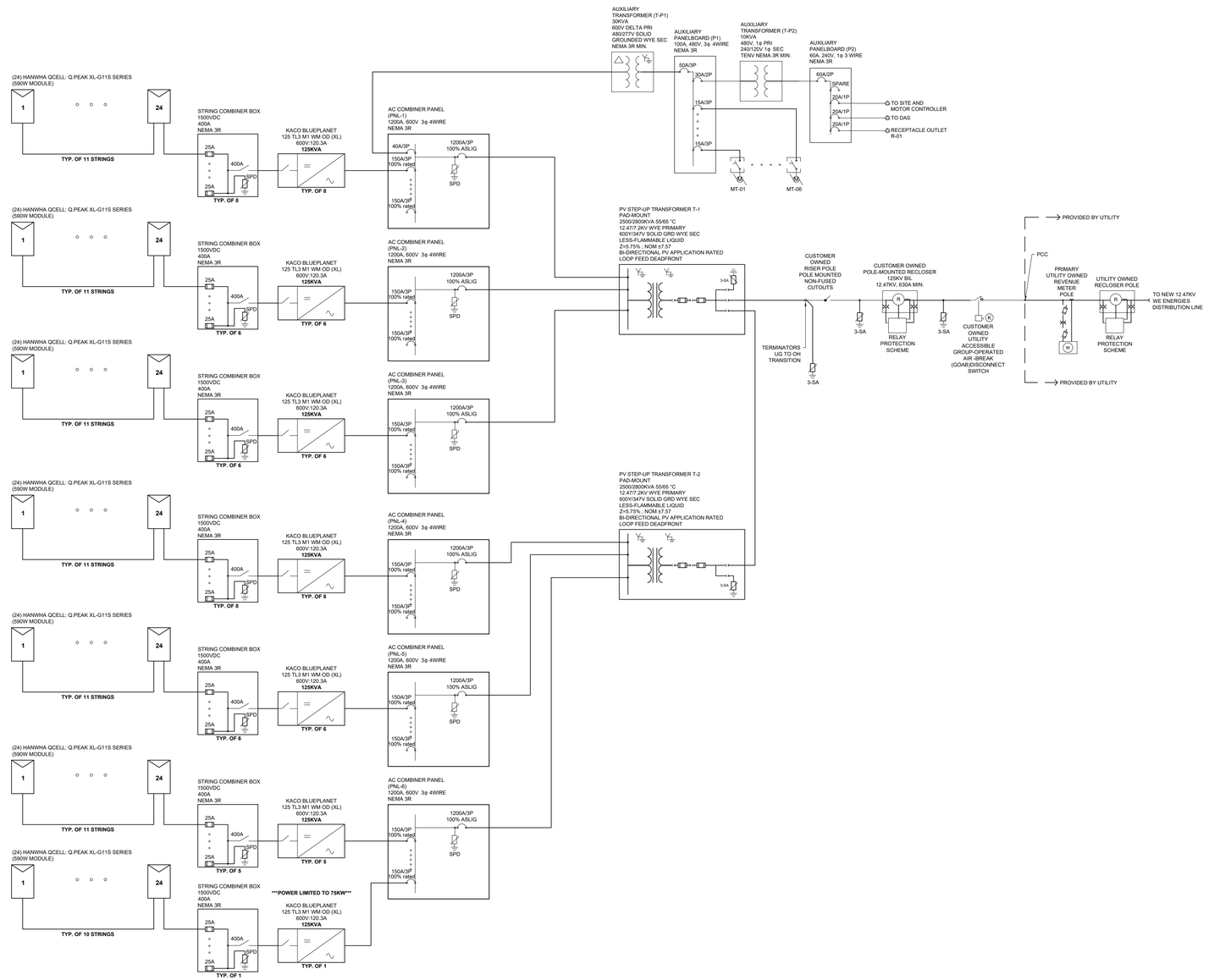
1. INVERTER UNDERFREQUENCY AND OVER FREQUENCY SETTINGS SHALL BE COORDINATED WITH THE UTILITY STANDARDS.
2. COORDINATE INVERTER SETTINGS WITH RECLOSING SETTINGS.
3. INVERTERS SHALL COMPLY WITH IEEE 1547, IEEE 519 AND UL1741.
4. PROVIDE A POLE MOUNTED VISIBLE OPEN, GANG OPERATED AIR BREAK, LOAD BREAK DISCONNECT SWITCH THAT IS VISIBLY MARKED "GENERATING FACILITY GENERATION DISCONNECT " AND IS ACCESSIBLE TO AND LOCABLE BY THE UTILITY AT ALL TIMES. LOCATE DISCONNECT IN CLOSE PROXIMITY TO THE UTILITY METER.
5. PROVIDE VISIBLE LABEL "QF GENERATION BREAKER" ON MAIN BREAKERS. BREAKERS SHALL HAVE LOTO PROVISIONS.
6. PROVIDE A POLE MOUNTED 3-PHASE VACUUM INTERRUPTER POLYMER RECLOSER, 15kV, 630A MIN, WITH INTEGRAL CURRENT TRANSFORMERS & (6) LEA VOLTAGE SENSORS ON BOTH SIDES OF RECLOSER. VOLTAGE SENSOR SHALL HAVE A MIN. ACCURACY PER IEEE1547. PROVIDE RECLOSER WITH 120V CPT AND SURGE ARRESTERS ON BOTH SOURCE & LOAD SIDE. PROVIDE WITH MANUFACTURER FURNISHED ADVANCED RECLOSER CONTROL RELAY WITH MINIMUM PROTECTION FUNCTIONS SHOWN AND WITH CONTROL CABLE AND POWER CABLE. PROVIDE WILDLIFE PROTECTORS. RECLOSER SHALL BE TAVRIDA ELECTRIC WITH SEL-651R RECLOSER OR APPROVED EQUAL IN STAINLESS STEEL CONTROL CABINET WITH BATTERY BACKUP AND HEATER PACKAGE. COMMUNICATE STATUS OF RECLOSER TO DAS.
7. PROVIDE A PERMANENT AND WEATHERPROOF ONE-LINE DIAGRAM OF THE GENERATING FACILITY LOCATED AT THE POINT OF SERVICE CONNECTION TO THE UTILITY.
8. PROVIDE MAIN TRANSFORMERS WITH EXTERNALLY ACCESSIBLE AND REPLACEABLE BAY-O-NET FUSES OR EQUIVALENT WITH SERIES CURRENT LIMITING FUSE.
9. MAIN TRANSFORMERS SHALL BE RATED FOR PV APPLICATION WITH BI-DIRECTIONAL POWER FLOW CAPABILITY.
10. INTERRUPTING AND WITHSTAND RATINGS SHALL BE CONFIRMED DURING CONSTRUCTION DESIGN PROCESS.
11. DESIGN SHALL BE IN COMPLIANCE WITH NEC, WE Energies AND ALL OTHER APPLICABLE CODES AND STANDARDS.

ELECTRICAL SYMBOLS



UTILITY INFORMATION

UTILITY COMPANY:	WE Energies
UTILITY COMPANY CONTACT: TBD	PHONE: NA
UTILITY PROJECT MANAGER: TBD	PHONE: NA
INTERCONNECTION VOLTAGE:	12.47 KV



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SHEET TITLE

ONE LINE DIAGRAM

DWG. NO.

E-1.00

Q.PEAK DUO XL-G11S SERIES

qcells

590 - 605 Wp | 156 Cells
21.7 % Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11S.3 / BFG

Bifacial energy yield gain of up to 21%
Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.

Low electricity generation costs
Q.ANTUM DUO technology with optimized module layout to boost module power and improve LCOE.

A reliable investment
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty[1].

Enduring high performance
Long-term yield security with Anti LID and Anti PID Technology[2], Hot-Spot Protect.

Frame for versatile mounting options
High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (3750 Pa)[3].

Innovative all-weather technology
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

[1] See data sheet on rear for further information.
[2] APT test conditions according to IEC TS 62804-1:2015, method B (−1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (C2)
[3] See Installation Manual for instructions

The ideal solution for:
Ground-mounted solar power plants

The trendsetter among inverters

Features

125 TL3
- Optimized for solar power plants with 1500 volt modules
- Extensive grid management functions
- Special properties for extreme climatic conditions
- Farsighted technical features for future requirements
- Lean commissioning and maintenance via remote services
- 5 year standard warranty; optional 10 year warranty available

155 TL3
- Optimized for solar power plants with 1500 volt modules
- Extensive grid management functions
- Farsighted technical features for future requirements
- Lean commissioning and maintenance via remote services
- 5 year standard warranty; optional 10 year warranty available

Technical Data

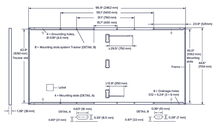
DC Input data	125 TL3	155 TL3
MPP range	875 – 1300 V	875 – 1300 V
Operating range	875 – 1450 V	875 – 1450 V
Rated DC voltage / start voltage	900 V / 1000 V	900 V / 1000 V
Max. no-load voltage	1500 V	1500 V
Max. input current	160 A	183 A
Max. short circuit current $I_{sc\ max}$	300 A	300 A
Number of MPP tracker	1	1
Connection per tracker	1 – 2	1 – 2

AC output data	125 TL3	155 TL3
Rated output	125 000 VA	155 000 VA
Max. power	137 500 VA	155 000 VA
Line voltage	600 V (3P+PE)	600 V (3P+PE)
Voltage range (Ph-Ph)	480 – 760 V	480 – 690 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 120.3 A	3 x 149.5 A
Max. current	3 x 132.3 A	3 x 152.0 A
Reactive power / cos phi	0 – 100 % Snom / 0.3 ind. – 0.30 cap.	0 – 100 % Snom / 0,30 ind. – 0,30 cap.
Max. total harmonic distortion (THD)	≤ 3 %	≤ 3 %
Number of grid phases	3	3

Q.PEAK DUO XL-G11S SERIES

Mechanical Specification

Format	96.9 in × 44.6 in × 1.38 in (including frame) (2462 mm × 1134 mm × 35 mm)
Weight	76.9 lbs (34.9kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 29.5 in (750 mm), (−) ≥ 13.8 in (350 mm)
Connector	Stäubli MC4; Stäubli MC4 Evo2; - IP68


56.9 (1446) max
55.7 (1415) max
51.2 (1300)
50.7 (1287) max
1.38 (35)
2.13 (54) max
0.59 (15) max
A – Grounding hole: M8 (8 mm) deep
B – Mounting slots system T-bolts (ISO 7380-1)
4.33 (110) max
4.33 (110) max
0.47 (12) max
0.47 (12) max
0.47 (12

Vegetation Management Plan for

SV CSG Linde Solar, LLC

Prepared January 21, 2026 by:

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1. SV CSG Linde Solar, LLC Vegetation Management Plan (VMP) Overview

1.1. Site Developer

SunVest Solar
N27 W24025 CT, Suite 100
Pewaukee, WI 53072
262.547.1200

1.2. Vegetation Restoration Consultant

Natural Resource Services, Inc
2885 Quail Road NE
Sauk Rapids, MN 56379
320.290.5363

and

9542 Sharkey Highway
Wyoming, IL 61491

1.3. Project Description

The proposed SV CSG Linde Solar is a 4.95 MW AC project planned for approximately 25.18 acres of land in the fenced project area in West Bend, Washington County, Wisconsin. A Single-Axis Tracker system with approximately 36" ground-panel clearance at max tilt and above-ground drivelines are planned. The site will be planted with a native pollinator mix in the array. Wetlands are located within the parcel boundary, outside of the fenced array. A setback around a 200 year old tree identified on site will be maintained and the tree will be left undisturbed. No vegetative screening is proposed at the time.

1.4. VMP Use and Objectives

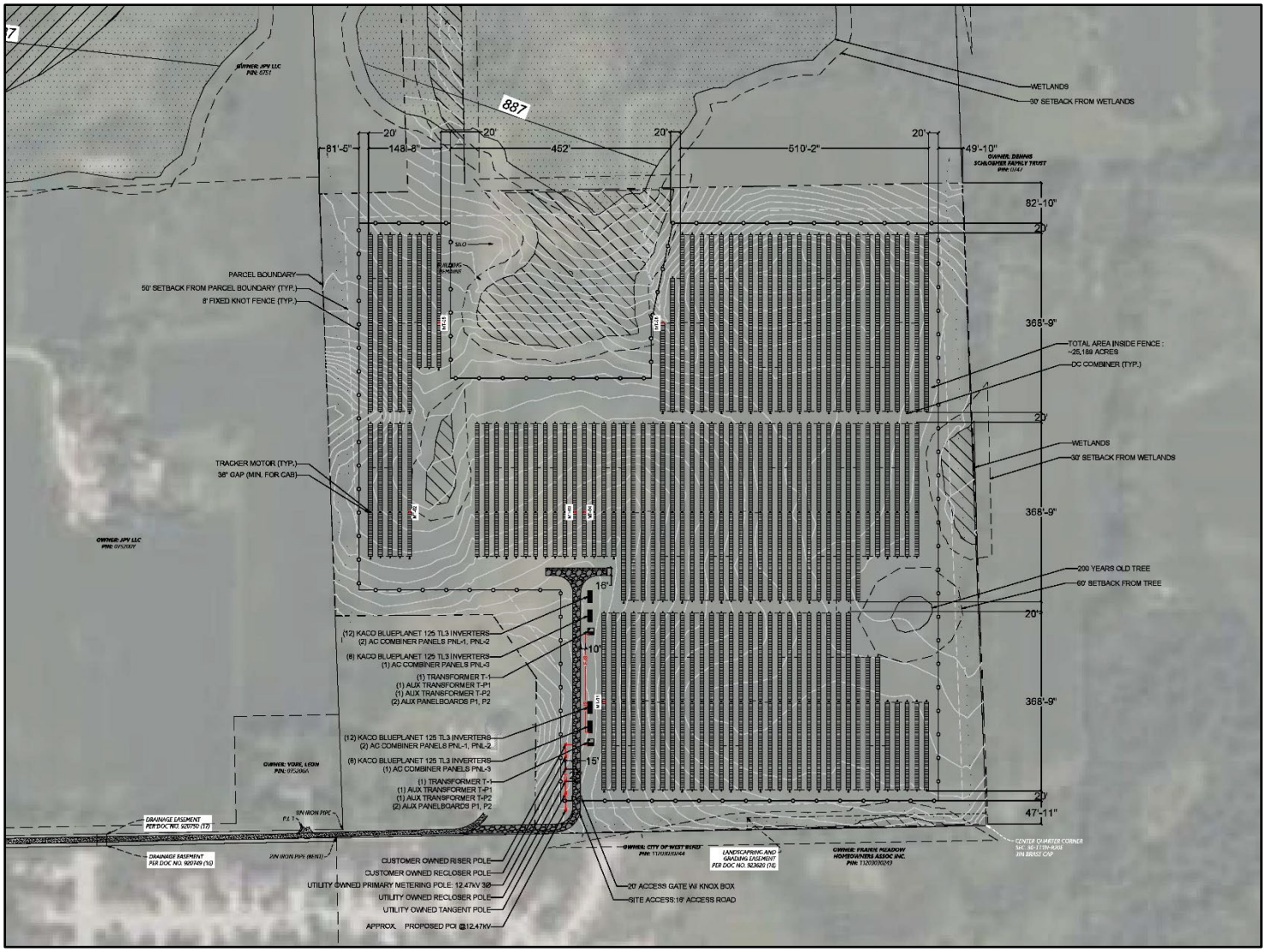
The VMP was written to provide a brief overview and description of the project and to act as a guide for vegetation installation and management. It has been custom-written based on information known at the time of writing. The VMP should be treated as a living document and adjusted as additional information about the site is gathered both pre and post construction. A qualified native vegetation contractor with a history of success working on native vegetation restorations should be contracted to implement the procedures outlined in this document and to provide feedback and suggestions for the VMP during the lifespan of the project.

2. Site Information

2.1. Site Location

The proposed SV CSG Linde Solar site is located on the east side of South River Drive, approximately ½ of a mile to the northeast of the Prairie Drive and South River Drive intersection. The GPS coordinates for the site are 43.393240, -88.153436.

2.2. Map of Array Layout



2.3. Site Conditions

A review of historical aerial photos shows that the entire site has been in traditional agricultural row crops for the last 30 years. No ponding can be seen from the aerial images. A review of the soils on the USDA/NRCS Web Soil Survey shows poorly drained to well drained soils, with a majority of the site classified as Yahara silt loam and Boyer loamy sand. Keowns silt loam, also present in the array, is classified as a hydric soil.

3. Overview of Vegetation Establishment and Management

3.1. Vegetative Goals

The primary vegetative goal is to establish permanent vegetation that does not interfere with solar production. This solar site is being planted with 100% native species. The species chosen produce an emphasis on native pollinator habitat.

3.2. Contribution of Native Habitat on Solar Sites

Economical production of power is the foremost goal of solar sites. There is a parallel opportunity to provide critically important native pollinator-friendly habitat throughout the array while capitalizing on the long-term low maintenance needs of native vegetation.

Establishing prairies and other native plant communities within the confines of solar sites provides a tremendous opportunity to restore ecosystems that have been severely degraded or eliminated across all areas of the country.

Native plants have profound root systems, many reaching 12 or more feet deep into the soil. Rainwater follows those roots into the ground, helping to reduce water runoff and promote the drainage of standing water into an aquifer. Those deep roots also stabilize the soil, preventing erosion from rain and wind. The plants provide seeds for songbirds, cover for game birds and, of course, provide blossoms and host plants for our beloved butterflies and other nectar-loving insects.

Native grasses and forbs will be selected based on their ecological appropriateness to the specific conditions of this site, with consideration to their mature height to not interfere with panel productivity. These species will not require irrigation, fertilizer, or other soil amendments.

The contribution to habitat restoration cannot be overstated given the acreage impacted and lifespan of the project.

3.3. Vegetation Installation Overview

The native mix planned for this array is selected for ecological appropriateness to the soil moisture, types and site conditions as well as the mature plant height of 24” to 36” so as to not interfere with panel productivity. The habitat provides low-maintenance vegetation that won’t require fertilizer, amended soils or irrigation on this site.

It is important to note that the species selected for this site are based on their ability to successfully establish from seed and thrive within the unique conditions found on solar sites. From a practical standpoint, the species contained in these mixes are generally available in the marketplace and, as a whole, have reasonable price points. Ultimately, the list consists of well-performing, workhorse species coupled with smaller amounts of more unique species for a robust mixture.

3.4. Vegetation Management Overview

Maintenance plays a vital role in the eventual success of any native landscape installation, especially during the establishment period of years one through three. Active management is similar in all areas of the project site. All areas of the site are inspected annually followed by maintenance necessary to encourage healthy native species while discouraging non-native/invasive species. During the growing season of the first year of establishment, the site shall be inspected a minimum of three times.

4. Vegetation Installation Procedures

4.1. Site Inspections and Monitoring

Site inspections and monitoring throughout the installation process are vital to continually assess site conditions and determine what procedures are needed and the timing of those procedures. The pre-construction site inspection is particularly important to determine the need for any herbicide application or mowing prior to soil preparation and seeding.

4.2. Site Preparation Herbicide Application

A site preparation herbicide application, if deemed necessary, should be performed by a licensed, qualified contractor using appropriate herbicides to kill all actively growing weeds on the project site. Typically, only glyphosate herbicide is necessary, but if certain perennial weed species are present such as Canada thistle, a broadleaf additive may be necessary. The contractor should carefully select an herbicide with a short soil residual, such as Garlon 3A, to minimize the impact on germination of the permanent seeding. The vegetation should not be disturbed for a minimum of 14 days after an herbicide application to allow time for effective weed elimination.

4.3. Site Preparation Mowing

Site preparation mowing may be required to reset vegetative growth to prepare for an herbicide application. Additionally, site preparation mowing may be needed to cut and mulch vegetation to simplify the soil preparation and seeding process.

4.4. Soil and Seedbed Preparation

Soil and seedbed preparation is vital to the success of any planting. Disking and harrowing (or raking) the site is common and extremely effective. If extreme compaction is present on site, a ripper may be needed to mitigate the compaction. The seedbed should be relatively smooth and firm prior to seeding. Soil that is too clumpy or too fluffy may result in seeds being planted too deep in the soil to germinate and survive.

4.5. Seed and Seeding

A custom native pollinator seed mix has been designed for use on this project and is found in Section 8. Seeding will be completed through broadcasting by using a mechanical spreader appropriate for the specified seed mixes. Large and fluffy seeds (such as most grasses and cover crop) should be broadcast first and then lightly harrowed/raked into the soil. Following the harrowing, small seeds (such as most forbs, sedges, and rushes) should be broadcast on top of the soil.

4.6. Erosion control

Erosion control measures should be implemented as required after permanent seeding is completed.

5. Vegetation Management Procedures

5.1. Adaptive Management

An adaptive management strategy is vital to the success of any project, but especially so for native pollinator restorations. Adaptive management consists of continual monitoring and adjusting maintenance strategies based on the site conditions in order to achieve the best outcomes. No two sites are exactly the same and responding to changing site conditions, weed pressures, weather, and a multitude of other variables is essential to the success of the planting.

5.2. Complete Site Maintenance Mowing

Complete site maintenance mowing consists of mowing the entire project area during the growing season, including trimming as appropriate around equipment or in inaccessible areas. Complete site maintenance mowing is implemented primarily during the establishment phase of the restoration (years 1-3) for several reasons. First, if a closed canopy of vegetation develops, mowing is implemented to knock back the taller vegetation and allow sunlight to reach the native seedlings below. Second, if weed species are present and actively nearing their seed set, mowing is implemented to prevent those weeds from producing viable seed. Third, vegetation has become tall enough to shade the panels or impact other solar equipment on site and must be cut down.

5.3. Integrated Vegetation Maintenance

Integrated vegetation maintenance or IVM is a method using a combination of targeted mowing/trimming and herbicide application aimed at reducing or eliminating weed species and promoting the desired vegetation. No systemic insecticides, including neonicotinoids, will be applied on vegetation. IVM is implemented starting towards the end of the 2nd full growing season typically and is used throughout the life of the project. 3 IVM visits are typical on most sites until year 5 when a reduction to 1-2 visits per year can be made if site conditions allow.

5.4. Dormant Mowing

Dormant mowing is a type of complete site mow implemented when vegetation is not actively growing on site. This method is typically performed in early spring or fall. Oftentimes, dormant mows are completed in the fall to mulch up dead vegetation and encourage decomposition. This practice also has a dual purpose of cleaning up the site to make electrical maintenance easier and to reduce the chance of accidental fire.

6. Vegetation Installation and Management Timeline

6.1. Site Prep and Installation Phase

Site Preparation:

1. Prior to the start of construction, a cover crop may be seeded to aid in erosion control, soil moisture management, and weed suppression.
2. Inspection of the project area to assess site conditions and determine the need for any site prep mowing or spraying activities.
3. If necessary, an herbicide application will be completed using glyphosate (Round-up® or equivalent) as per manufacturer's directions in areas with actively growing vegetation. Allow a minimum of 14 days before disturbing the soil or completing seeding activities.
4. When perennial broadleaf vegetation is present a triclopyr herbicide will be added (Garlon 3A® or equivalent) as per manufacturer's directions. When a broadleaf herbicide is used allow a minimum of 30 days before disturbing the site or completing seeding.
5. Depending on the density and type of undesirable vegetation present (i.e., annual vs perennial) a complete site mowing might be advisable in lieu of an herbicide application. For instance, if the site is dominated by Foxtail (an annual), mowing would be preferrable to an herbicide application.

Soil Prep and Seeding:

1. Construction debris, garbage, and building materials will be removed and/or staged outside the intended seeding areas.
2. Disk soil within the project area in preparation for seeding. Harrow or rake the soil to achieve the proper seedbed.
3. Broadcast the large and fluffy seed (mostly grasses) along with a cover crop of winter wheat or oats.
4. Harrow or rake the soil to work the seed to a proper depth.
5. Broadcast the small seeds (forbs, sedges, rushes, small grass seeds) on top of the soil.

Installation Phase Maintenance

If the site is seeded in the summer or early fall, 1-2 complete site mowings may be needed during this first partial growing season.

6.2. Establishment Phase

Year 1 is defined as the 1st full growing season for the vegetation. A recommendation of 3 complete site mowings is most common for this phase. Depending on site conditions and vegetation growth, more or less may be needed.

Year 2 is the second full growing season. 3 total visits are typical with 2 complete site mowings and 1 Integrated Vegetation Maintenance visit the most likely combination.

Year 3 typically requires 3 IVM site visits depending on vegetation status.

6.3. Maintenance Phase

Year 4 – 34. During the maintenance phase, 2 IVM visits are typical.

7. Monitoring

Consistent project monitoring is essential to evaluate vegetative establishment, weed presence, and possible erosion concerns. This information helps determine which management procedures to utilize, the proper timing for those procedures, and whether any other remedial action is required such as reseeding or replanting. As the site's vegetation matures, adaptive management should be utilized as previously described.

8. Seed Mix

Natural Resource Services

SV CSG Linde Native Pollinator Mix

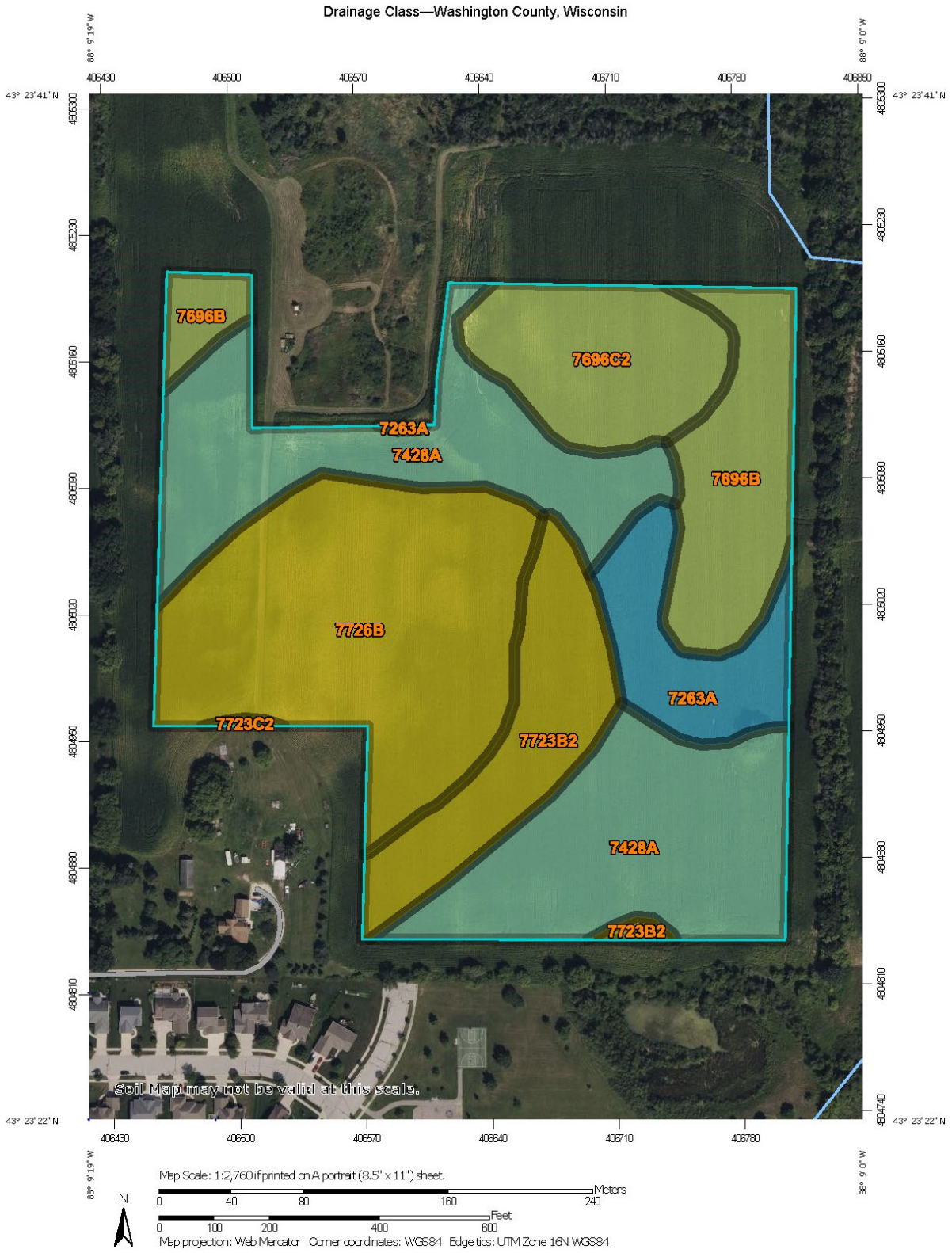
Seeding Rate - 13.50 lb/acre - 85.10 seeds/ft^2

Latin Name	Common Name	PLS Lbs/Acre	% of Mix by Weight	Seeds/ft^2	% of Mix by Seeds/ft^2
Sideoats Grama	Bouteloua curtipendula	4.26	31.53%	9.38	10.90%
Slender Wheatgrass	Elymus trachycaulus	1.24	9.18%	3.14	3.65%
Plains Oval Sedge	Carex brevior	0.35	2.59%	3.72	4.33%
Wood Gray Sedge	Carex grisea	0.12	0.86%	0.38	0.45%
Troublesome Sedge	Carex molesta	0.16	1.18%	1.46	1.70%
Brown Fox Sedge	Carex vulpinoidea	0.24	1.80%	8.93	10.37%
Virginia Wild Rye	Elymus virginicus	0.22	1.65%	0.34	0.40%
Little Bluestem	Schizachyrium scoparium	3.39	25.10%	18.67	21.69%
Prairie Dropseed	Sporobolus heterolepis	0.05	0.39%	0.31	0.36%
Graminoid Total		**10.03**	**74.28%**	**46.34**	**53.83%**
Common Yarrow	Achillea millefolium	0.09	0.63%	5.57	6.47%
Nodding Onion	Allium cernuum	0.03	0.24%	0.09	0.11%
Lead Plant	Amorpha canescens	0.18	1.33%	1.06	1.23%
Canada Anemone	Anemone canadensis	0.01	0.04%	0.02	0.02%
Wild Columbine	Aquilegia canadensis	0.01	0.04%	0.08	0.09%
Whorled Milkweed	Asclepias verticillata	0.01	0.05%	0.03	0.03%
Common Milkweed	Asclepias syriaca	0.04	0.31%	0.06	0.07%
Butterfly Milkweed	Asclepias tuberosa	0.04	0.31%	0.07	0.08%
Partridge Pea	Chamaecrista fasciculata	0.61	4.55%	0.61	0.71%
White Prairie Clover	Dalea candida	0.67	4.98%	4.69	5.45%
Purple Prairie Clover	Dalea purpurea	0.79	5.88%	5.25	6.10%
Cream Gentian	Gentiana flavida	0.04	0.26%	1.80	2.10%
Virginia Mountain Mint	Pycnanthemum virginianum	0.02	0.16%	1.75	2.03%
Prairie Wild Rose	Rosa arkansana	0.04	0.31%	0.04	0.04%
Black-eyed Susan	Rudbeckia hirta	0.25	1.88%	8.58	9.96%
Gray Goldenrod	Solidago nemoralis	0.05	0.37%	5.50	6.39%
Calico Aster	Symphyotrichum lateriflorum	0.01	0.04%	0.50	0.58%
Sky Blue Aster	Symphyotrichum oolentangiense	0.02	0.16%	0.63	0.74%
Ohio Spiderwort	Tradescantia ohiensis	0.03	0.24%	0.10	0.11%
Hoary Vervain	Verbena stricta	0.19	1.41%	1.96	2.27%
Golden Alexanders	Zizia aurea	0.34	2.53%	1.38	1.60%
Forb Total		**3.47**	**25.72%**	**39.74**	**46.17%**
Mix Total		**13.50**	**100.00%**	**86.1**	**100.00%**

January 2026

Eastern WI, poorly drained to well drained soils mix

9. Soils Maps



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Natural Resource Services

Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7263A	Keowns silt loam, 0 to 2 percent slopes	Poorly drained	1.9	7.3%
7428A	Yahara silt loam, 0 to 3 percent slopes	Somewhat poorly drained	8.6	33.0%
7696B	Zurich silt loam, 2 to 6 percent slopes	Moderately well drained	3.2	12.3%
7696C2	Zurich silt loam, 6 to 12 percent slopes, eroded	Moderately well drained	2.7	10.2%
7723B2	Sisson-Casco-Hochheim complex, 2 to 6 percent slopes, eroded	Well drained	2.8	10.6%
7723C2	Sisson-Casco-Hochheim complex, 6 to 12 percent slopes, eroded	Well drained	0.0	0.1%
7726B	Boyer loamy sand, 2 to 6 percent slopes	Well drained	6.9	26.4%
Totals for Area of Interest			**26.2**	**100.0%**

Description

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Subaqueous

Not rated or not available

Soil Rating Lines

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Subaqueous

Not rated or not available

Soil Rating Points

Excessively drained

Somewhat excessively drained

Well drained

Moderately well drained

Somewhat poorly drained

Poorly drained

Very poorly drained

Subaqueous

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Washington County, Wisconsin
Survey Area Data: Version 25, Sep 10, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 4, 2022—Sep 13, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

A DECOMMISSIONING PLAN FOR

SV CSG Linde Solar, LLC Project

Washington County, Wisconsin

FEBRUARY 4, 2026

PREPARED FOR:

SUNVEST SOLAR LLC®

PREPARED BY:

Westwood

Westwood

Decommissioning Plan

SV CSG Line Solar, LLC Project

Washington County, Wisconsin

Prepared for:

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Project Number: 0071681.00

Date: February 4, 2026

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Attachments

Attachment A: Decommissioning Cost Estimate

1.0 Introduction / Project Description

This Decommissioning Plan ("Plan") has been prepared for the SV CSG Linde Solar, LLC Project in accordance with the Wisconsin Public Service Commission and Wisconsin DNR. The purpose of the Plan is to describe the means and methods that can be used to remove all structures, foundations, underground cables, and equipment and to reclaim and restore the land altered during the construction and operation of the solar project to its predevelopment condition to the extent feasible.

The SV CSG Line Solar, LLC Project ("Project") is a solar power generation project proposed by SunVest Solar, LLC ("Applicant") in Washington County, Wisconsin. The Project will have an aggregate nameplate capacity of up to 4.95-megawatt (MW) alternating current (AC), 6.216-MW direct current (DC). Upon completion, the Project will comprise a solar array consisting of solar modules, tracking systems, inverters, transformers, underground and overhead collection lines, the access road, and fencing. The Project will be built within a general Project Area of approximately 25 acres.

The useful life of solar panels is generally considered to be 35 years. At that time, the Project will either be decommissioned or repowered with newer technology. The Plan identifies components which may be removed and areas that may be restored once the Project has not operated for twelve consecutive months, or when the Project has surpassed the useful lifespan of the modules and facilities.

2.0 Proposed Future Land Use

Prior to the development of the Project, the land use of the Project Area was primarily agricultural production. After all equipment and infrastructure is removed during decommissioning, any holes or voids created by poles, concrete pads, and other equipment will be filled in with native soil to the surrounding grade, and the site will be restored to pre-construction conditions to the extent practicable. Access roads and other areas compacted by equipment may be decompacted to a depth necessary to ensure drainage of the soil and root penetration prior to fine grading and tilling to a farmable conditionto match preconstruction conditions. Please refer to Section 3.3 for a detailed description of reclamation activities.

3.0 Decommissioning Activities

Decommissioning of the Project will include removing the solar panels, solar panel racking, steel foundation posts and beams, inverters, transformers, overhead and underground cables and lines, equipment pads and foundations, equipment cabinets, and ancillary equipment. The civil facilities, access roads, security fencing, are included in the scope. Standard decommissioning practices will be utilized, including dismantling and repurposing, salvaging/recycling, or disposing of the solar energy improvements.

During decommissioning, the landowners will be consulted to identify the extent and type of work to be completed. Some Project infrastructure, such as the access road, and fencing, may be removed at the discretion of the landowner(s).

Decommissioning will include the removal and transportation of all Project components from the

Project site. All dismantling, removal, recycling, and disposal of materials generated during decommissioning will comply with rules, regulations, and prevailing Federal, State, and local laws at the time decommissioning is initiated and will use approved local or regional disposal or recycling sites as available. Recyclable materials will be recycled to the furthest extent practicable. Non-recyclable materials will be disposed of in accordance with State and Federal law.

3.1 Decommissioning of Project Components

3.1.1 Solar Panels

Solar panels will be inspected for physical damage, tested for functionality, and disconnected and removed from racking. Functioning panels will be packed, palletized, and shipped to an off-site facility for reuse or resale. Non-functioning panels will be shipped to the manufacturer or a third party for recycling or disposal.

3.1.2 Tracker Racking System

The tracker racking system and racking components will be disassembled and removed from the steel foundation posts, processed to appropriate size, and sent to a metal recycling facility.

3.1.3 Steel Foundation Posts

Structural foundation steel posts will be pulled out to full depth, removed, processed to appropriate size, and shipped to a recycling facility. The posts can be removed using back hoes or similar equipment. During decommissioning, the area around the foundation posts may be compacted by equipment and, if compacted, the area will be decompacted in a manner to adequately restore the topsoil and sub-grade material to a density consistent for vegetation.

3.1.4 Overhead and Underground Cables and Lines

All underground cables and conduits will be removed to a depth of 4 feet. Topsoil will be segregated and stockpiled for later use prior to any excavation and the subsurface soils will be staged next to the excavation. The subgrade will be compacted per standards. Topsoil will be redistributed across the disturbed area. Overhead lines, support poles, and attachments will be removed from the Project and taken to a recycling facility.

3.1.5 Inverters, Transformers, and Ancillary Equipment

All electrical equipment will be disconnected and disassembled. All parts will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant’s sole discretion, consistent with applicable regulations and industry standards.

3.1.6 Equipment Foundations and Ancillary Foundations

The ancillary foundations are pile foundations for the equipment pads. As with the solar array steel foundation posts, the foundation piles will be pulled out completely. Duct banks will be excavated to full depth. All unexcavated areas compacted by equipment used in decommissioning will be decompacted in a manner to adequately restore the topsoil and sub-grade material to a density similar to the surrounding soils. All materials will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant’s sole discretion, consistent with

applicable regulations and industry standards.

3.1.7 Fence

Fence parts and foundations will be removed from the site and reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards. The surrounding areas will be restored to pre-solar farm conditions to the extent feasible.

3.1.8 Access Road

The Project access road will be used for decommissioning purposes, after which removal of the road will be discussed with the landowner(s) and one of the following options will be pursued:

1. After final clean-up, the road may be left intact through mutual agreement of the landowner and the Applicant unless otherwise restricted by federal, state, or local regulations.
2. If a road is to be removed, aggregate will be removed and shipped from the site to be reused, sold, or disposed of appropriately, at the Applicant's sole discretion, consistent with applicable regulations and industry standards. Clean aggregate can often be used as "daily cover" at landfills for no disposal cost. The access road is assumed to be constructed with geotextile fabric and eight inches of aggregate over compacted subgrade. Any ditch crossing connecting the access road to public roads will be removed unless the landowner requests it remains. The subgrade will be decompacted in a manner to adequately restore the topsoil and sub-grade material to a density consistent for reintroduction of farming. Topsoil that was stockpiled during the original construction will be distributed across the open area. Finally, the access road corridor will be tilled to an agricultural condition.

3.2 Component Disposal

Project components removed from the Project site will be resold, reused, recycled, or scrapped to the greatest extent possible.

- Metal components will be processed to size, sorted, and hauled to a recycling facility (Quincy Recycle in West Bend, WI, approximately two miles from the Project site) to be processed as scrap. This includes:
    - Steel components, including steel piles and trackers, fixed knot fencing, and smaller components from recycled equipment.
    - Underground and overhead collection and grounding cables; typically composed of aluminum and copper.
    - Copper windings from transformers and inverters.
- Other electrical equipment may be assessed for its condition and either sold for reuse or scrapped from its components.
- Fluids, such as transformer oils, will be drained and shipped off-site to an approved recycling facility.
- Solar panels will be resold or recycled to the greatest extent possible, based on their age and condition, as well as market conditions around resale of solar panels and advancements in recycling technologies. For the purposes of this cost estimate, it is assumed that 95% of panels

will be resold to another party for reuse or recycling. The estimate further assumes that 5% will be damaged beyond repair and will be hauled to a landfill that accepts solar module components as approved wastes.

- If possible, clean gravel removed from the site may be re-used to improve public roads or used by local landowners to improve driveways or be used as clean fill. For the purposes of this cost estimate, it's assumed that the gravel will be hauled to a landfill, where it may be accepted as "daily cover" at no charge.

Project components that are not recyclable may include items composed of mixed materials, certain plastic components, materials that have been contaminated, and certain general municipal wastes. It may not be feasible for concrete to be recycled due to the distance between the Project site and a sufficient recycling facility. For the purposes of this Plan, it is assumed that these materials will be hauled to GFL Glacier Ridge Landfill, located in Horicon, WI, approximately 25 miles from the site.

3.3 Reclamation

The Applicant will restore and reclaim the site to the pre-solar farm condition consistent with the site lease agreement. The Applicant assumes that most of the site will be returned to farmland and/or pasture after decommissioning through implementation of appropriate measures to facilitate such uses. If no specific use is identified, the Applicant will vegetate the site with a seed mix approved by the local soil and water conservation district or similar agency. The goal of restoration will be to restore natural hydrology and plant communities to the greatest extent practicable while minimizing new disturbance and removal of native vegetation. In addition to the reclamation activities described above for each decommissioning activity, all unexcavated areas compacted by equipment and activity during the decommissioning will be decompacted as needed to ensure proper density of topsoil consistent and compatible with the surrounding area and associated land use. All materials and debris associated with Project decommissioning will be removed and properly recycled or disposed of at off-site facilities.

4.0 Best Management Practices (BMPs)

4.1 Construction Stormwater Practices

During decommissioning, erosion and sediment control BMPs will be implemented to minimize potential for erosion of site soils and sedimentation of surface waters and waters of the state. Because decommissioning will entail disturbance of more than one acre of soil, the Applicant will prepare a Erosion Control and Stormwater Management Plan (ECSWMP) and obtain coverage with the Wisconsin Department of Natural Resources (DNR) under the Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit prior to initiating soil disturbing activities. Potential BMPs to be implemented during decommissioning activities are described below and will be subject to refinement in the ECSWMP. The decommissioning team will review the permitting requirements at the time of decommissioning and obtain any other necessary permits, which may include a US Army Corps of Engineers (USACE) Section 404 Permit to Discharge Dredged or Fill Material.

4.1.1 Erosion Control

Erosion control measures will be refined based on the standard of practice current at the time the

ECSWMP is developed for decommissioning. All disturbed areas without permanent impermeable or gravel surfaces, or planned for use as crop land, will be vegetated for final stabilization. All slopes steeper than 4:1 should be protected with erosion control blankets. Restoration should include seed application prior to application of the blanket. All slopes 4:1 or flatter should be restored with seed and mulch, which will be disc anchored.

4.1.2 Sediment Control

Sediment controls, such as silt fences, fiber logs, dewatering practices, construction entrances, and sedimentation traps and/or basins will be implemented during construction to prevent the transport of sediment off-site during decommissioning activities. Street sweeping/scraping will also be implemented to mitigate potential tracking of sediment onto public roadways.

4.1.3 Controlling Stormwater Flowing onto and Through the Project

Given the low gradient of the slopes in the Project Area, controlling stormwater flow that enters the Project Area will likely require minimal effort during decommissioning activities. Only newly disturbed areas may require new, temporary stormwater control. If necessary, water may be diverted around the Project site using diversion berms.

4.2 Permitting

All decommissioning and reclamation activities will comply with Federal and State permit requirements. Decommissioning activities that will disturb more than one acre of soil will require coverage under the WPDES General Permit for construction stormwater. The permits will be applied for and received prior to decommissioning construction activities commencing. A ECSWMP will be developed prior to filing for construction stormwater permit coverage.

If necessary for decommissioning activities, wetlands and waters permits will be obtained from the USACE or Wisconsin DNR. A Spill Prevention, Control, and Countermeasure (SPCC) Plan for decommissioning will likely also be required for decommissioning work.

4.3 Health and Safety Standards

Work will be conducted in strict accordance with the Applicant’s health and safety plan. The construction contractor hired to perform the decommissioning will also be required to prepare a site-specific health and safety plan. All site workers, including subcontractors, will be required to read, understand, and abide by the plans. A site safety officer will be designated by the construction contractor to ensure compliance. This official will have stop-work authority over all activities on the site should unsafe conditions or lapses in the safety plan be observed.

5.0 Timeline

Decommissioning of the Project will be initiated if the Project has not operated for twelve consecutive months, or when the Project has surpassed the useful lifespan of the modules and facilities. It is anticipated that the decommissioning activities for the Project can be completed in a 12-week period. The estimated costs for decommissioning are tied to assumptions about the amount of equipment mobilized, the crew sizes, weather and climate conditions, and the productivity of the equipment and

crews.

6.0 Decommissioning Costs

The decommissioning costs are calculated using current pricing. Westwood recommends the estimate of net costs should be updated periodically to recognize price trends for both decommissioning costs and the salvage and resale values of the components.

There are currently active markets for scrap steel, aluminum, and copper, used transformers and electrical equipment, and used solar panels. Scrap metal prices have been discounted from posted spot prices found on www.scrapmonster.com. Pricing for used panels has been discounted from the average price of used panels, as published in EnergyBin's 2024 "Module Price Index."

The total estimated cost of decommissioning the SV CSG Linde Solar, LLC Project is approximately $439,791 ($70,749 per MW-DC). Estimated salvage/scrap value of the modules, racking, transformers, and other materials is approximately $684,113. The net decommissioning costs after accounting for resale and salvage values is approximately $244,400 in surplus, or $39,316 in surplus per MW-DC.

Attachment A

Decommissioning Cost Estimate

SV CSG Linde Solar, LLC Project

	Quantity	Unit	Unit Cost	Total Cost
Mobilization/Demobilization	1	Lump Sum	$20,900.00	$20,900
Mobilization was estimated to be approximately 7% of total cost of other items.				
Permitting				
County Permits	1	Lump Sum	$10,000.00	$10,000
State Permits	1	Lump Sum	$20,000.00	$20,000
Subtotal Permitting				**$30,000**
Decommissioning will require ECSWMP and SPCC Plans. Cost is an estimate of the permit preparation cost.				
Civil Infrastructure				
Remove Gravel Surfacing from Road	285	Cubic Yards (BV)	$3.29	$938
Haul Gravel Removed from Road to Landfill (Horicon, WI)	356	Cubic Yards (LV)	$23.27	$8,284
Dispose of Gravel Removed from Road (Landfill uses as Daily Cover)	461	Tons	$0.00	$0
Remove Geotextile Fabric from Beneath Access Roads	1,603	Square Yards	$1.40	$2,244
Haul Geotech Fabric to Landfill (Horicon, WI)	0.4	Tons	$17.07	$8
Dispose of Geotech Fabric	0.4	Tons	$81.00	$36
Grade Road Corridor (Re-spread Topsoil)	721	Linear Feet	$2.14	$1,543
Decompact Road Area	0.3	Acres	$249.40	$75
Remove Agricultural Fence	5,330	Linear Feet	$2.92	$15,564
Haul Agricultural Fence to Metal Recycling (West Bend, WI)	8	Tons	$7.62	$61
Subtotal Civil Infrastructure				**$28,752**
Civil removal costs are a combination of MNDOT unit costs where applicable, RSMeans cost for Milwaukee, Wisconsin, and industry standards provided to Westwood.				
Structural Infrastructure				
Remove Steel Foundation Posts (Arrays)	1,998	Each	$16.90	$33,766
Haul Steel Post to Metal Recycling (West Bend, WI)	180	Tons	$7.62	$1,372
Remove Tracker Racking per String	439	Each	$133.23	$58,488
Haul Tracker Racking to Metal Recycling (West Bend, WI)	298	Tons	$7.62	$2,271
Subtotal Structural Infrastructure				**$95,897**
Steel removal costs were calculated by using RSMeans information for demolition of steel members.				
Hauling calculations are based on the locations of metals recyclers.				
Electrical Collection System				
Remove PV Panels	10,536	Each	$9.87	$103,990
Haul PV 95% of Panels to Reseller (Carol Stream, IL)	385	Tons	$32.34	$12,451
Haul 5% of PV Panels to Recycler (Carol Stream, IL)	20	Tons	$32.34	$647
Dispose of PV Panels	20	Tons	$520.00	$10,400
Remove Equipment Skids	2	Each	$1,210.20	$2,420
Remove Steel Foundation Posts (Equipment Skids)	24	Each	$16.90	$406
Haul Steel Post to Metal Recycling (West Bend, WI)	1	Tons	$7.62	$11
Haul Equipment to Transformer Disposal (New Berlin, WI)	2	Each	$194.28	$389
Remove SCADA Equipment	1	Each	$2,000.00	$2,000
Remove DC Collector System Cables (copper)	6.22	Per MW	$2,000.00	$12,440
Remove Underground (AC) Collector System Cables & Fiber Optic	215	Linear Feet	$2.82	$606
Load and Haul Cables for Recycling	64.0	Tons	$8.76	$561
Dispose of Fiber Optic Cables	0.1	Tons	$81.00	$4
Remove Overhead Cables	125.0	Feet	$4.23	$529
Loadout Overhead Cables	2.5	Tons	$6.27	$16
Haul Overhead Cables to Metals Recycling (West Bend, WI)	2.5	Tons	$7.62	$19
Remove Insulators and Gangs	9	Each	$577.48	$5,197
Remove and Load Timber Poles	3	Each	$946.11	$2,838
Haul Timber Poles to Landfill (Horicon, WI)	3	Each	$356.71	$1,070
Subtotal Electrical Collection				**$156,354**
Electrical removal costs of PV Panels and Combiner Boxes were based industry standard installation rates. Equipment pads, MV Equipment, and SCADA Equipment removal cost are based on removal of equipment, concrete pads, and conduits using a truck mounted crane and RSMeans information on crew production rates.				

Site Restoration				
Perimeter Controls (Erosion and Sediment Control)	2,665	Linear Feet	$4.42	$11,779
Permanent Seeding on Roadway Areas	0.3	Acres	$1,371.33	$411
Till Array Areas to Agricultural Condition	25.2	Acres	$216.22	$5,446
Subtotal Site Restoration				**$17,637**
Project Management				
Project Manager	12	Weeks	$3,749.00	$44,988
Superintendent (half-time)	12	Weeks	$1,762.50	$21,150
Field Engineer (half-time)	12	Weeks	$1,634.50	$19,614
Clerk (half-time)	12	Weeks	$375.00	$4,500
Subtotal Project Management				**$90,252**
Standard industry weekly rates from RSMeans.				
Subtotal Demolition/Removals				**$439,791**
Salvage				
Fencing (Wire/Agricultural)	8	Tons	$214.32	$1,715
Steel Posts	144	Tons	$214.32	$30,862
Module Racking	298	Tons	$214.32	$63,867
PV Modules	10,009	Each	$36.40	$364,291
Transformers and Inverters	6,011	Pounds	$0.39	$2,344
Transformers (Oil)	3,000	Gallons	$0.70	$2,100
DC Collection Lines (Copper)	126,765	Pounds	$1.71	$216,768
AC Collection Lines (Aluminum)	1,927	Pounds	$0.95	$1,831
Ground Conductor Lines (Copper)	196	Pounds	$1.71	$335
Subtotal Salvage				**$684,113**
Salvage values are a combination of the following factors; current market metal salvage prices, current secondary market for solar panel module recycling, discussions with national companies that specialize in recycling and reselling electrical transformers and inverters, and the assumption that care is taken to prevent any damage or breakage of equipment.				
Total Demolition Minus Salvage				**($244,400)**

Notes:
1. Prices used in analysis are estimated based on research of current average costs and salvage values.
2. Prices provided are estimates and may fluctuate over the life of the project.
3. Contractor means and methods may vary and price will be affected by these.

Cost Estimate Assumptions

To develop a cost estimate for the decommissioning of the SV CSG Linde Solar, LLC Project, Westwood engineers made the following assumptions and used the following pricing references. Costs were estimated based on current pricing, technology, and regulatory requirements. The assumptions are listed in order from top to bottom of the estimate spreadsheet. When publicly available bid prices or Department of Transportation bid summaries were not available for particular work items, we developed time- and material-based estimates considering composition of work crews and equipment and material required. While materials may have a salvage value at the end of the Project life, the construction activity costs and the hauling/freight costs are separated from the disposal costs or salvage value to make revisions to salvage values more transparent.

1. Project quantities are based on SV CSG Linde Solar, LLC Interconnection Plan Set, dated 1/08/2025.
2. A project of this size and complexity requires a full-time project manager with half-time support staff.
3. RS Means pricing was used for the Milwaukee, WI region for the 4th quarter of 2025.
4. Common labor will be used for the majority of tasks, supplemented by electricians, steel workers, and equipment operators where labor rules may require. The labor rates reflect union labor rates.
5. Mobilization was estimated at approximately 7% of total cost of other items.
6. Permit applications will require the preparation of a ECSWMP and an SPCC Plan.
7. Road gravel removal was estimated on a time and material basis. Since the material will not remain on-site, a hauling cost is added to the removal cost. Clean aggregate can typically be used as "daily cover" at landfills without incurring a disposal cost. The road gravel may also be used to fortify local driveways and roads, lowering hauling costs but incurring placing and compaction costs. The hauling costs to a landfill represents an upper limit to costs for disposal of the road gravel.
8. The selected disposal facility (GFL Glacier Ridge Landfill) is located in Horicon, WI, approximately 25 miles from the Project site. Hauling costs to the landfill are estimated to be $17.07 per ton.
9. Erosion and sediment control along road reflects the cost of silt fences on the downgradient side of the proposed roads. As such, the length of controls has been estimated to be approximately 50% of the road length.
10. Topsoil is required to be stockpiled on-site during construction, so no topsoil replacement is expected to replace the road aggregate. Subsoiling cost to decompact roadway areas is estimated as $249.40 per acre and tilling to an agriculture-ready condition is estimated as $216.22 per acre.
11. The selected metal recycling facility (Quincy Recycle) is located in West Bend, WI, approximately two miles from the Project site. Hauling costs to the recycling facility are approximately $4.01 per ton mile, or $7.62 per ton.
12. Tracker and inverter foundation posts are lightweight "I" beam sections installed with a specialized piece of equipment and can be removed with a standard backhoe with an attachment for gripping the piles. We estimate crew productivity at 240 posts per day, resulting in a per post cost of approximately $15.31. The posts weigh approximately 150 pounds each.
13. It is assumed that the racking structures weigh approximately 15 pounds per linear foot of array. Each solar panel has a width of 44.65 inches. The Project will have approximately 10,536 modules and 39,798 feet of array. The arrays are made of steel pipes; a crew with hand tools can disassemble

and cut the pieces to sizes for recycling at a rate of about 1800 pounds per person per hour, or about $196.27 per ton.

14. The solar panels for this Project measure approximately 3.72 feet by 8.08 feet and weigh 76.94 pounds. They can easily be disconnected, removed, and packed by a three-person crew at a rate we estimate at 18 panels per hour.
15. The equipment skids will consist of transformers and a panel on a metal frame approximately 19 feet long by 8 feet wide by 8 feet 6 inches tall. The skids weigh approximately 15,700 pounds and can be disconnected by a crew of electricians. They must be lifted by a mobile crane for transport to the recycler. They contain copper or aluminum windings.
16. The transformers contain copper windings that have significant salvage value. They are typically oil filled, but most transformer recyclers will accept the transformers with oil. The estimated costs include removal of metal frame and conduits feeding the equipment.
17. The inverters and combiner panels will be mounted on pile foundations.
18. Medium voltage (MV) equipment and SCADA equipment are mounted on the same equipment skids as the transformers, and they are enclosed in weatherproof cabinets. Their size requires light equipment to remove them. The costs for the removal of the pile foundations are included in the "Remove Steel Foundation Posts" estimate.
19. The underground collector system cables are placed in trenches with a minimum of 18 inches of cover. Several cables/circuits are placed side by side in each trench. The conduits and cables can be removed by trenching.
20. Perimeter control pricing is based on silt fence installation around downgradient sides of the project perimeter.
21. Metal salvage prices (steel, aluminum, copper) are based on January 2026 quotes from www.scrapmonster.com for the Midwest Region. Posted prices are three months old. These prices are based on delivery to the recycling facility with the material prepared to meet size, thickness, cleanliness, and other specifications.
22. A reduction of 25% has been taken from all pricing obtained from www.scrapmonster.com to reflect the processing by the contractor to meet the specifications.
23. The salvage value for steel uses pricing from the Midwest Region United States at $315 per metric ton, or $285.75 for U.S. ton.
24. Solar module salvage values are shown in current values, assuming near-new conditions for the first few years of operations. Pricing for used panels has been discounted from the average resale price of used panels, as published in EnergyBin's 2024 "Module Price Index." Module values will decline over time as a function of loss of output and age.
25. There is an active market for reselling and recycling electrical transformers and inverters with several national companies specializing in recycling. However, we have assumed that the electrical equipment will be obsolete at the time of decommissioning, so we have based the pricing on a percentage of the weight that reflects the copper windings that can be salvaged. Pricing was used for Copper Transformer Scrap for the Midwest Region United States, at $0.52 per pound.
26. The collection lines are priced assuming copper conductor wire for the direct current circuits and aluminum wire for the alternating current circuits. The prices reflect a reduced yield of copper or aluminum resulting from the stripping of insulation and other materials from the wire prior to recycling. The estimate uses the Midwest Region prices of #2 insulated copper wire with a 50% recovery rate ($2.28 /pound) and E.C. Aluminum Wire ($1.26 /pound).

27. Care to prevent damage and breakage of equipment, PV modules, inverters, capacitors, and SCADA must be exercised, but removal assumes unskilled common labor under supervision.