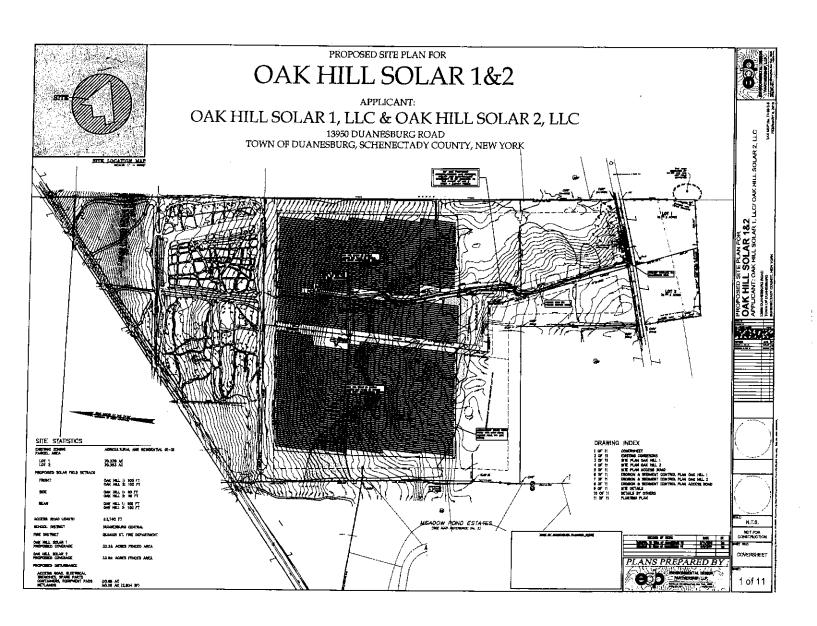
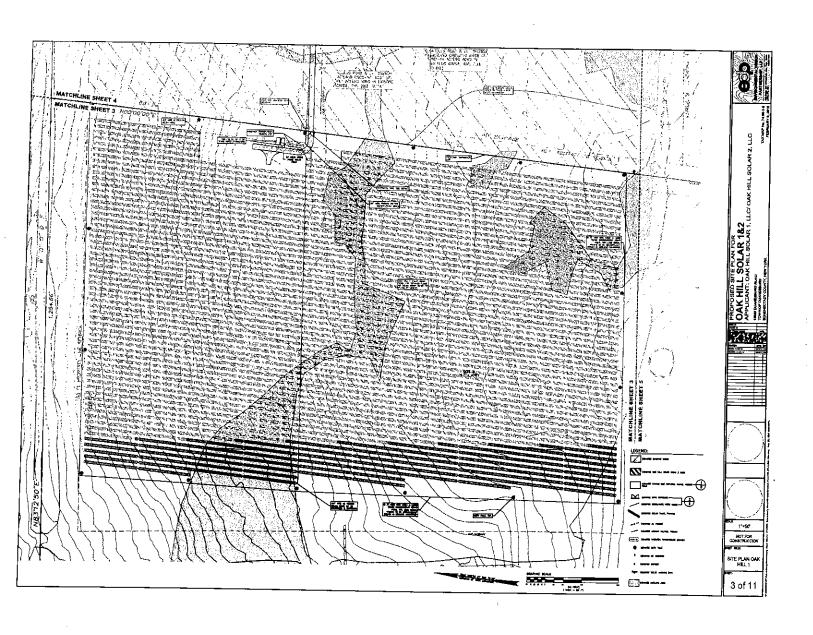
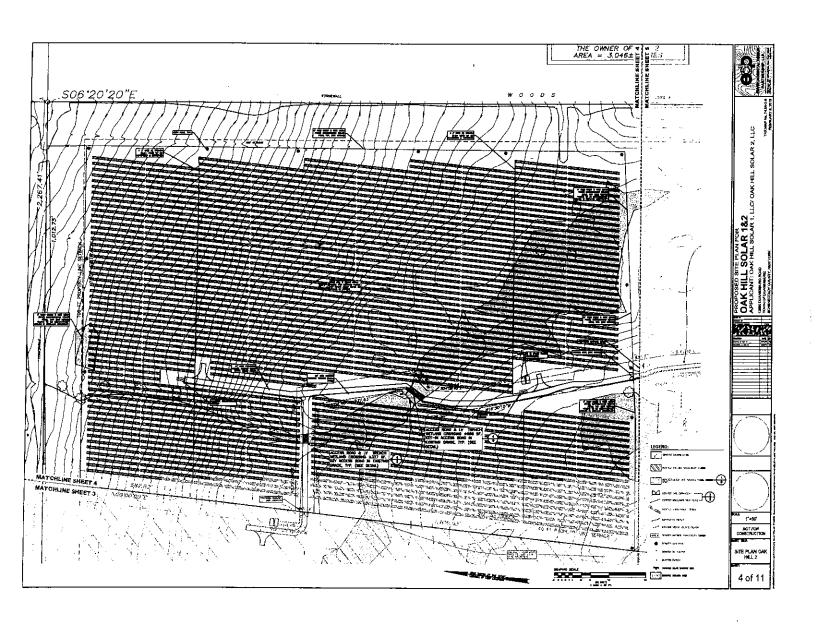
SCHEDULE A







DECOMMISSIONING AGREEMENT

This **DECOMMISSIONING AGREEMENT** (this "Agreement"), dated as of July 2020 (the "Effective Date"), is made by and among the **Town of Duanesburg**, a municipal corporation duly established in Schenectady County with a principal place of business located at 5853 Western Turnpike, Duanesburg, NY 12056 (referred to as the "Town"), **Oak Hill Solar 2 LLC**, a limited liability company formed under the laws of the State of New York with principal offices at 1550 Wewatta Street, 4th Floor, Denver, CO 80202 (referred to as the "Operator") and Richard Murray, an individual (referred to as the "Landowner"). The Town, the Operator and the Landowner may each be referred to herein as a "Party" and collectively, as the "Parties".

WHEREAS, Operator intends to permit, construct, operate and maintain a solar energy facilities with battery storage with an estimated size of five (5) megawatts of alternating-current (AC) nameplate capacity that will generate electric power (the "Project"), as shown on the Site Plans entitled "Proposed Site Plan for Oak Hill 1 and 2", prepared by Environmental Design Partnership, LLP., last revised September 5, 2019 (hereinafter, the "Site Plans"), copies of which are attached as **Schedule A**, on real property owned by the Landowner and leased to the Operator, and more particularly identified hereto in **Schedule B**, and commonly known as 13686 Duanesburg Road Delanson, NY (Tax Map 74.00-2-5) in the Town of Duanesburg, Schenectady County, New York ("the Properties"); and

WHEREAS, on September 5, 2019, based on the Operator's application, and after duly noticed public hearing(s), the Town, by its Planning Board, granted conditional special use and site plan approval (hereinafter "Approval Resolution") for the Project¹, on condition that, among other things, the applicant submit a final decommissioning plan and decommissioning security and that the applicant provided the Town with access to funds for the Decommissioning (as defined below) of the Project; and

WHEREAS, a copy of said Approval Resolution is attached hereto as Schedule C; and

WHEREAS, the Town has enacted Local Law 1-2016, which provides that Decommissioning must occur pursuant to a decommissioning plan, among other requirements (the "Local Law"); and

WHEREAS, the Parties now desire to enter into this Agreement to set forth the "Decommissioning Plan" for the Oak Hill 2 Solar Project attached hereto as Schedule D, as required by the Local Law and the Town Planning Board and to agree upon terms and conditions of the financial surety provided to the Town for the purpose of Decommissioning the Project;

NOW, THEREFORE, in consideration of the promises herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

¹ The Oak Hill Solar 1 project was also approved at this meeting.

- Prior to the issuance of a building permit for the Project (the "Start Date"), the Operator shall post a letter of credit or bond, in form and substance reasonably satisfactory to the Town or deposit cash in escrow with the Town (the "Security") in the amount of \$211381 for the benefit of the Town. In the event Operator elects to deposit cash in escrow with the Town as the Security, the Parties shall execute the Decommissioning Escrow Agreement attached hereto as Schedule E. The Parties agree that the Security shall be used solely to pay for any Decommissioning costs of the Project. At least 60 days prior to the end of each successive five (5) -year period after the execution of this Agreement, the Operator shall provide the Town with an updated decommissioning plan setting forth an updated estimate for the Decommissioning of the Project, which updated estimate shall be subject to review and approval by the Town, which approval shall not unreasonably be withheld, conditioned or delayed. Within 30 days after the Town's approval of the updated estimate, the Security shall be changed to reflect the updated estimate approved by the Town for such Decommissioning of the Project. Any such updated and approved decommissioning plan shall be deemed the "Decommissioning Plan" hereunder. For avoidance of doubt, the updated estimate will use the estimated decommissioning cost as a template in the updated decommissioning plan. Operator shall have no further payment obligations in connection with Decommissioning during the operation of the Project provided that Operator complies with posting the Security in accordance with this Agreement. Nonetheless, in the event the actual Decommissioning costs incurred by the Town exceed the amount covered by the Security, Operator or its successor in title to the Project shall be responsible for reimbursing the Town for any and all such excess costs, provided that the Town delivers to the Operator a reasonable written record of such costs.
- 2. "Decommissioning" as used in this Agreement shall mean the removal of all collectors, mounts and/or associated equipment and facilities that were installed in connection with the Project and the reasonable restoration of the Properties to either of the following, at the Operator's option ("Decommissioning"): (i) the condition the Properties was in prior to the development, construction and operation of the Project, including restoration, regrading, and reseeding, or (ii) the condition designed by a subsequent Operator or developer as agreed upon with the Town. Costs of Decommissioning under this Agreement include labor, professional services and any other costs reasonably associated with such Decommissioning.
- 3. Each of the circumstances described in clauses (a) and (b) below shall be a "Triggering Event" for purposes hereof:
 - (a) construction of the Project is not completed within eighteen (18) months of receiving a building permit, other than as a result of Force Majeure (defined below), or
 - (b) the Project, after commencing commercial operation, "ceases to be operational" (as defined below) for more than twelve (12) consecutive months.

In the event the Operator fails to initiate Decommissioning of the Project within ninety (90) days of a Triggering Event (the "Decomm Deadline"), or Operator fails to provide a reasonable explanation for the delay in the construction or cessation of operation of the Project by the Decomm Deadline, then, the Town may issue a notice to Operator (the "Town Decommissioning

Notice") and Operator shall have thirty (30) days to respond to the Town Decommissioning Notice with a reasonable explanation for the delay in the construction or the cessation of operation of the Project. In the event that (A) the Operator does not respond to the Town Decommissioning Notice in accordance with the forgoing sentence, or (B) Decommissioning is not completed, within six (6) months after a Triggering Event, then the Town shall have the right, but not the obligation, to commence Decommissioning of the Project through use of the Security.

For purposes of this Agreement, "Force Majeure" means any circumstance not within the reasonable control of the Party affected, but only if and to the extent that: (i) such event is not due to the affected Party's negligence or willful misconduct; (ii) such event is not the result of any failure of the affected Party to perform any of its obligations hereunder; and (iii) the affected Party has given the other Party prompt notice describing such event. Subject to the foregoing conditions, Force Majeure Events include, without limitation: acts of God; war; acts of the public enemy; terrorism; riot; civil commotion; sabotage; fire; floods; landslide; volcanic eruption; epidemics; global pandemics; quarantine restrictions; embargos; and governmental authority decreed official state of emergency.

For the purposes of this Agreement, "ceases to be operational" shall mean no generation of electricity, other than due to Force Majeure, repairs, upgrades, permitting matters, casualty, or other issue regarding the Project that Operator is in good faith attempting to remedy

- 4. The parties hereto acknowledge that the Decommissioning is intended to occur outside the winter months. Upon removal of the infrastructure and disposal of the components of the Project from the Properties, and restoration of the Properties to its pre-project state, or to the condition designed by a subsequent Operator or developer as agreed upon with the Town. Upon completion of Decommissioning, the Operator shall have no further obligation to the Town provided that the costs of the Decommissioning has been paid for in full by the Security or otherwise by or on behalf of the Operator.
- 5. In the event that the Town elects to complete Decommissioning under Section 3, Operator (or its successors or assigns) agrees to give the Town the right of reasonable access to the Properties to Decommission the Project. In the event the leases between Landowner and Operator are terminated or Landowner otherwise has control over the Properties at the time of the Decommissioning, Landowner (or its successors or assigns) agrees to give the Town the right of reasonable access to the Properties in order to perform Decommissioning in accordance with this Agreement.
- 6. This Agreement may not be amended or modified except by written instrument signed and delivered by the Parties. This Agreement is binding upon and shall inure to the benefit of the Parties and their respective successors and assigns. In accordance with the provisions of section 109 of the New York General Municipal Law, Operator is prohibited from assigning, transferring, conveying, subletting or otherwise disposing of this Agreement, or of any right, title or interest in this Agreement, or its power to execute this Agreement, to any other person or corporation without the previous consent in writing of the Town, which consent shall not be unreasonably withheld, conditioned or delayed.

- 7. Operator, or the operations and maintenance provider of the Operator, shall provide the Town with proof that it either carries sufficient workers' compensation insurance coverage for any employees in New York involved in the Decommissioning as required under applicable law or that it is exempt from such requirement.
- 8. The Parties agree to execute and deliver any additional documents or take any further action as reasonably requested by another Party to effectuate the purpose of this Agreement.
- 9. The Parties agree that this Agreement shall be construed and enforced in accordance with and governed by the laws of New York, without regard to its conflict of laws principles. The Parties hereby consent to exclusive venue and jurisdiction in the state and federal courts located in the State of New York. EACH PARTY WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH REGARD TO ANY DISPUTE RELATED HERETO. If one or more of the provisions hereof are deemed by a court of competent jurisdiction to be unenforceable, in whole or in part, the scope of such provisions shall be reduced to the extent necessary to make them enforceable or, if such reduction is not possible for any reason, such provisions shall be severed from this Agreement entirely, without effect upon the balance hereof.
- 10. This Agreement may be executed through separate signature pages or in any number of counterparts, and each of such counterparts shall, for all purposes, constitute one agreement binding on all Parties.
- 11. Any and all notices required to be sent by a Party to another Party hereunder shall be addressed as follows by certified mail or mail courier service:

To the Town:

Town of Duanesburg Attn: Supervisor 5853 Western Turnpike Duanesburg, NY 12056

With a copy to:

Whiteman Osterman & Hanna LLP Attn: Terresa Bakner, Esq. One Commerce Plaza Albany, New York 12260

To Operator:

Oak Hill Solar 2 LLC c/o AMP Solar Development Inc. 1550 Wewatta St., 4th Floor Denver, CO 80202

With an electronic copy to:

jdonald@amp.energy

To Landowner:

Richard Murray1206 Oak Hill Rd. Esperance, NY 12066

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, have duly executed this Agreement as of the date first written above.

| TOWN: | |
|--|---|
| Town of Duanesburg | |
| By: Name: Roger Tidball Title: Town Supervisor | - |
| OPERATOR: | |
| Oak Hill Solar 2 LLC | |
| By: AMP Solar Development Inc. Its: Manager | |
| By: | |
| LANDOWNER: | |
| By: | |
| Name: | |
| Title: | |

Schedule A

Site Plan

[to be attached]

Schedule B Description of Properties [to be attached]

$\underline{Schedule\ C}$

Approval Resolution

[to be attached]

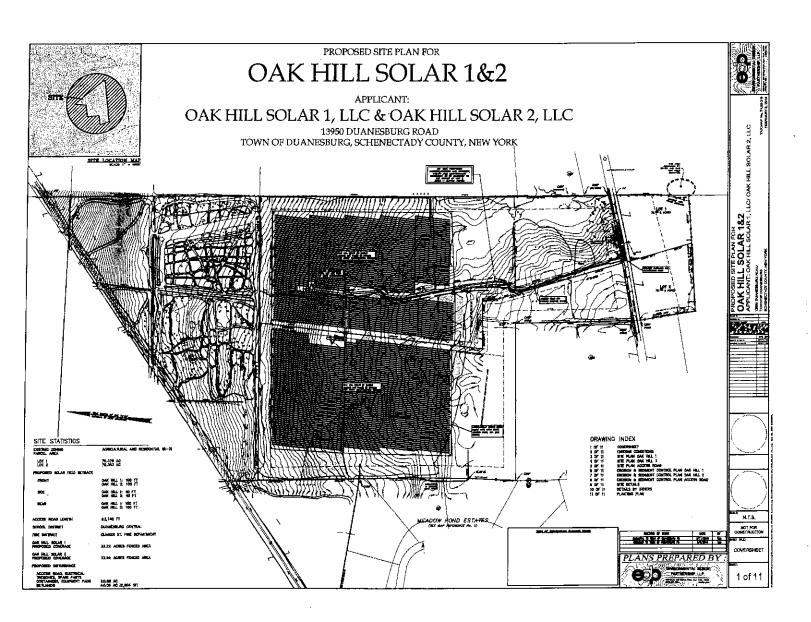
Schedule D

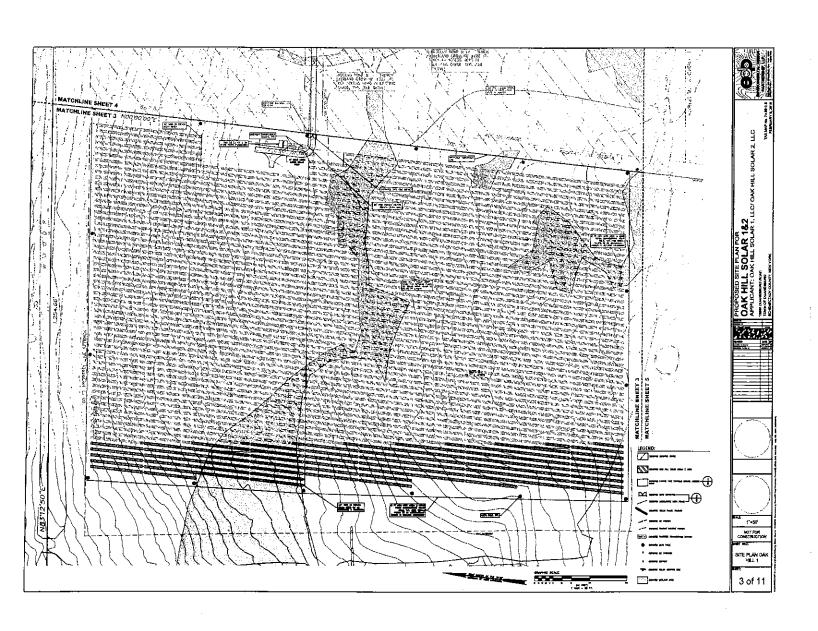
Decommissioning Plan

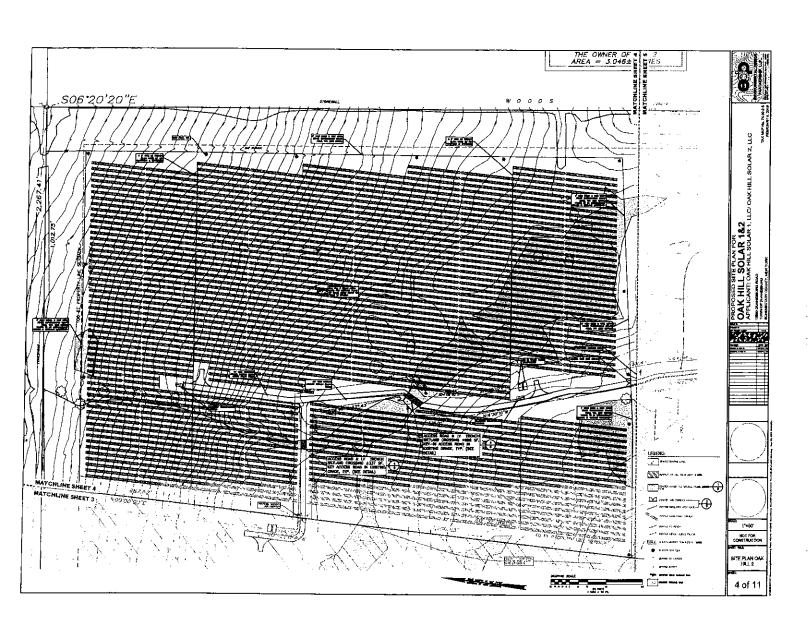
[to be attached]

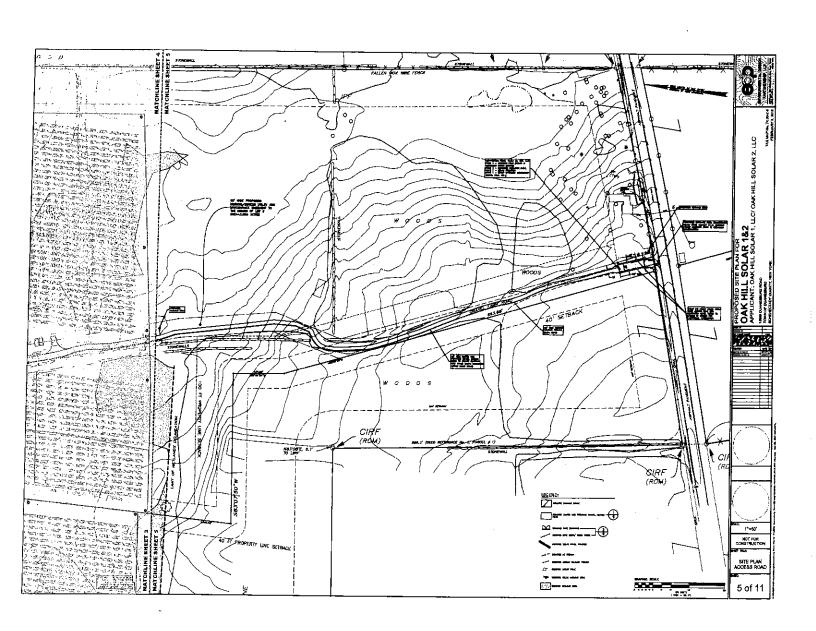
Schedule E Form of Decommissioning Escrow Agreement

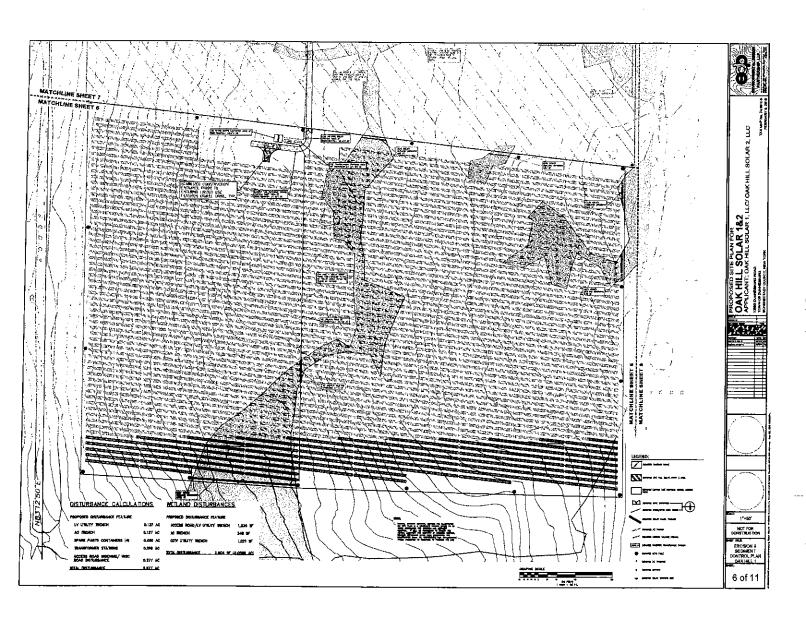
SCHEDULE A

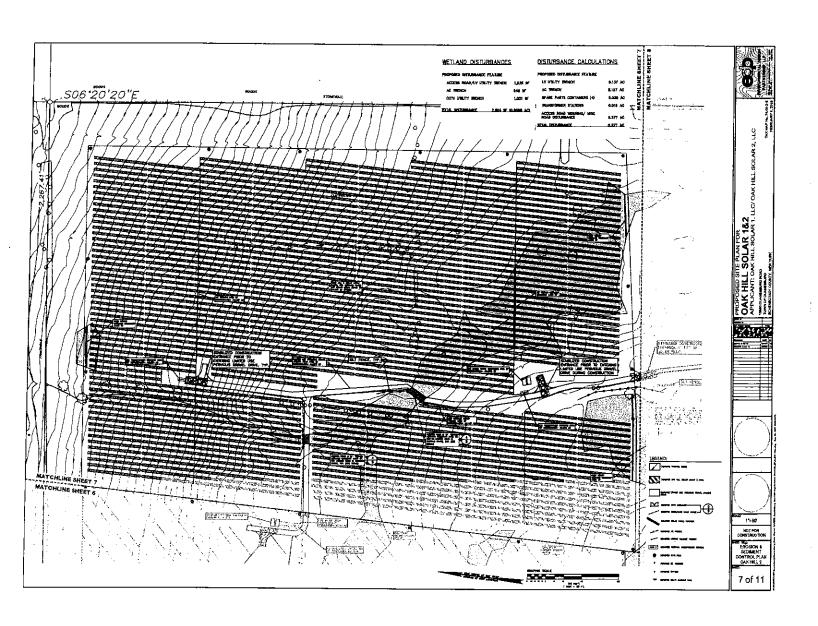


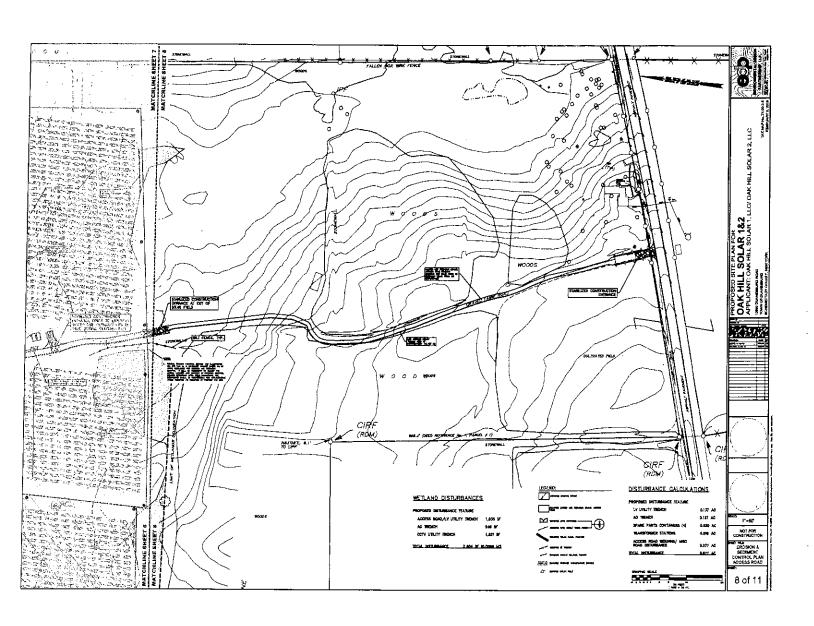












SCHEDULE B



SUGGESTED DESCRIPTION LEASE PARCEL TO BE LEASED TO OAK HILL SOLAR 1, LLC WITHIN A PRORTION OF LOT 2 OF LANDS OF RICHARD B. MURRAY TOWN OF DUANESBURG, NY

LEASE PARCEL THROUGH ALL THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 2, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

Commencing at the point of intersection of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) with the common division line of Lot 1 to the east and Lot 2 to the west as shown on said map;

Thence from said Point of Commencement along said common division line the following four (4) courses and distances:

- 1) North 22 deg. 01 min. 20 sec. West, 1,048.32 feet to a point;
- 2) North 07 deg. 06 min. 20 sec. West, 137.50 feet to a point;
- 3) South 83 deg. 07 min. 50 sec. West, 399.88 feet to a point;
- 4) North 00 deg. 00 min. 00 sec. East, 253.78 feet to the **Point of Beginning** of the herein described *lease parcel* of land;

Thence from said Point of Beginning through said Lot 2 the following four (4) courses and distances:

- 1) South 83 deg. 12 min. 50 sec. West, 883.00 feet to a point;
- 2) North 05 deg. 06 min. 10 sec. West, 890.50 feet to a point;
- 3) North 03 deg. 06 min. 30 sec. West, 590.66 feet to a point;
- 4) North 83 deg. 12 min. 50 sec. East, 995.00 feet to a point in the aforesaid common division line of Lot 1 to the east and Lot 2 to the west as shown on said map;

Thence along said common division line, South 00 deg. 00 min. 00 sec. West, 1,490.00 feet to the point or place of beginning of said *lease parcel* and containing 32.104± acres of land.

(P) 518,371,7621 (F) 518,371,9540 edpllp.com

TOGETHER WITH A 50-FOOT WIDE UTILITY & MAINTENACE, INGRESS/EGRESS AND REGRESS, EASEMENT THROUGH THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying along the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

Beginning at the point of intersection of the northerly line of Duanesburg Road, NYS Route7 (State Highway No. 1029) with the common division line of Lot 2 to the west and Lot 1 to the east as shown on said map;

Thence from said Point of Beginning and along said common division line, North 22 deg. 01 min. 20 sec. West, 893.68 feet to a point;

Thence through said Lot 1 the following seven (7) courses and distances:

- 1) North 14 deg. 45 min. 20 sec. East, 195.87 feet to a point;
- 2) North 10 deg. 43 min. 40 sec. West, 251.17 feet to a point;
- 3) North 16 deg. 30 min. 10 sec. West, 554.76 feet to a point:
- 4) North 04 deg. 08 min. 40 sec. West, 125.00 feet to a point;
- 5) North 39 deg. 45 min. 00 sec. East, 65.00 feet to a point;
- 6) North 15 deg. 04 min. 40 sec. West, 237.63 feet to a point;
- 7) South 83 deg. 20 min. 00 sec. West, 290.23 feet to a point in said common division line of Lot 2 to the west and Lot 1 to the east;

Thence along said common division line, North 00 deg. 00 min. 00 sec. East, 50.34 feet to a point; Thence through said Lot 1 the following eight (8) courses and distances:

- 1) North 83 deg. 20 min. 00 sec. East, 327.54 feet to a point;
- 2) South 15 deg. 04 min. 40 sec. East, 306.71 feet to a point;
- 3) South 39 deg. 45 min. 00 sec. West, 70.78 feet to a point;
- 4) South 04 deg. 08 min. 40 sec. East, 99.44 feet to a point;
- 5) South 16 deg. 30 min. 10 sec. East, 551.87 feet to a point;
- 6) South 10 deg. 43 min. 40 sec. East, 265,00 feet to a point;

Shaping the physical environment

- 7) South 14 deg. 45 min. 20 sec. West, 190.56 feet to a point;
- 8) South 22 deg. 01 min. 20 sec. East, 881.42 feet to a point in said northerly line of Duanesburg Road;

Thence along said northerly line of said Duanesburg Road, South 72 deg. 57 min. 40 sec. West, 50.19 feet to the point or place of beginning of said easement and containing 3.046± acres of land.

Said *lease parcel* and *easement* made subject to any and all enforceable covenants, conditions, easements and restrictions of record as they may appear.

December 5, 2019

Prepared By: Timothy J. McAlonen, PLS/ZMB



Oak Hill I Lease Parcel Description.doox



SUGGESTED DESCRIPTION LEASE PARCEL TO BE LEASED TO OAK HILL SOLAR 2, LLC WITHIN A PORTION OF LOT 1 OF LANDS OF RICHARD B. MURRAY TOWN OF DUANESBURG, NY

LEASE PARCEL THROUGH ALL THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

Commencing at the point of intersection of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) with the common division line of Lot 2 to the west and Lot 1 to the east as shown on said map;

Thence from said Point of Commencement along said common division line the following four (4) courses and distances:

- 1) North 22 deg. 01 min. 20 sec. West, 1,048.32 feet to a point;
- 2) North 07 deg. 06 min. 20 sec. West, 137.50 feet to a point;
- 3) South 83 deg. 07 min. 50 sec. West, 399.88 feet to a point;
- 4) North 00 deg. 00 min. 00 sec. East, 225.78 feet to the **Point of Beginning** of the herein described *lease parcel* of land;

Thence from said Point of Beginning continuing along said common division line, North 00 deg. 00 min. 00 sec. East, 1,518.00 feet to the point;

Thence through said Lot 1 the following four (4) courses and distances:

- 1) North 83 deg. 12 min. 50 sec. East, 908.00 feet to a point;
- 2) South 05 deg. 58 min. 10 sec. East, 1,476,00 feet to a point;
- 3) South 83 deg. 43 min. 10 sec. West, 724.00 feet to a point;
- 4) South 83 deg. 12 min. 50 sec. West, 343.00 feet to the point or place of beginning of said *lease* parcel and containing 33.891± acres of land.

(P) 518.371.7621 (F) 518.371.9540 edplip.com

TOGETHER WITH AND SUBJECT TO A 50-FOOT WIDE UTILITY & MAINTENANCE, INGRESS/EGRESS AND REGESS EASEMENT THROUGH THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

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Thence from said Point of Beginning and along said common division line, North 22 deg. 01 min. 20 sec. West, 893.68 feet to a point;

Thence through said Lot 1 the following seven (7) courses and distances:

- 1) North 14 deg. 45 min. 20 sec. East, 195.87 feet to a point;
- 2) North 10 deg. 43 min. 40 sec. West, 251.17 feet to a point;
- 3) North 16 deg. 30 min. 10 sec. West, 554.76 feet to a point;
- 4) North 04 deg. 08 min. 40 sec. West, 125.00 feet to a point;
- 5) North 39 deg. 45 min. 00 sec. East, 65.00 feet to a point;
- 6) North 15 deg. 04 min. 40 sec. West, 237.63 feet to a point;
- 7) South 83 deg. 20 min. 00 sec. West, 290.23 feet to a point in said common division line of Lot 2 to the west and Lot 1 to the east;

Thence along said common division line, North 00 deg. 00 min. 00 sec. East, 50.34 feet to a point; Thence through said Lot 1 the following eight (8) courses and distances:

- 1) North 83 deg. 20 min. 00 sec. East, 327.54 feet to a point;
- 2) South 15 deg. 04 min. 40 sec. East, 306.71 feet to a point;
- 3) South 39 deg. 45 min. 00 sec. West, 70.78 feet to a point;
- 4) South 04 deg. 08 min. 40 sec. East, 99.44 feet to a point;
- 5) South 16 deg. 30 min. 10 sec. East, 551,87 feet to a point;
- 6) South 10 deg. 43 min. 40 sec. East, 265.00 feet to a point;

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.

Shaping the physical environment

900 New York 146 Clifton Park, NY 12065 (P) 518.371.7621 (F) 518.371.9540 edpllp.com

7) South 14 deg. 45 min. 20 sec, West, 190.56 feet to a point;

8) South 22 deg. 01 min. 20 sec. East, 881.42 feet to a point in said northerly line of Duanesburg Road;

Thence along said northerly line of said Duanesburg Road, South 72 deg. 57 min. 40 sec. West, 50.19 feet to the point or place of beginning of said easement and containing 3.046± acres of land.

Said *lease parcel* and *easement* made subject to any and all enforceable covenants, conditions, easements and restrictions of record as they may appear.

December 5, 2019

Prepared By: Timothy J. McAlonen, $PLS/_{ZMB}$



Oak Hill 2 Lease Parcel Description.doox

SCHEDULE C

Phillip Sexton, Planning Board Chair Dale Warner, Town Planner Melissa Deffer, Clerk Terresa Bakner, Board Attorney



Jeffrey Schmitt, Vice Chairperson Elizaboth Novak, Board Member Martin Williams, Board Member Thomas Rulison, Board Member Michael Harris, Board Member Joshua Houghton, Board Member

Town of Duanesburg Planning Board Minutes October 17th, 2019 **Final Copy**

MEMBERS PRESENT: Phillip Sexton Chairman, Jeffery Schmitt Vice Chairman, Elizabeth Novak, Martin Williams, Thomas Rulison and Michael Harris. Also, in attending Dale Warner Town Planner, and Melissa Deffer Clerk.

INTRODUCTION: Chairman Phillip Sexton opened the meeting at 7:00pm. Phillip welcomed everyone to tonight's Planning Board meeting.

PLEDGE OF ALLEGIANCE:

OPEN FORUM: Chairman Sexton opened the forum at 7:01

Bruce O'Day of 5394 Western Turnpike wanted to state on the record that he is supporting the Andrew Lucks application.

Lynn Bruning located at 13388 Duanesburg Rd wanted to know what the status of the Comprehensive Plan?

Chairmen Sexton explained to Lynn that they have been working on the Plan for just over a year now and how in the near future he will be asking the public for comments.

Harris/Rulison made the motion to close the open forum at 7:07. Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Sexton yes. **Approved**.

SKETCH PLAN REVIEW:

PUBLIC HEARINGS:

#19-13 Lucks Andrew: SBL#66.00-3-4.1, (H) located at 5456 Western Turnpike is seeking a Special Use Permit for a retail business under the Town of Duanesburg Zoning Ordinance

Town Hall • 5853 Western Turnpike • Duanesburg, NY 12056 • (518) 895-8920

Over 🍑

adopted 6/11/15 under section 9.4.(15). Andrew Lucks gave his presentation to the board. Andrew is looking to relocate his business Outlander Survival from 6721 Duanesburg Rd to 5456 Western Turnpike. They will be in the same zone as they are in now. Andrew explained to the public how he will upgrade the building with security Systems and bars on all doors and windows (as a smash and grab is one of their main concerns), fix the parking lot and eventually reface the building. All lights on the building will be down cast with some solar lights around the driveway. Andrew is leasing for now from Bruce O'Day who will be going to have the property subdivided. Once the property is subdivided Andrew will be purchasing.

Cheryl Schrade 1619 Eaton Corners Rd asked Andrew if they will be test firing guns on the property. Andrew explained to Mrs. Schrade that with his business they do not test fire any weapons.

Harris/Rulison made a motion to close the Public Hearing for the #19-13 Lucks Andrew application at 7:09.

Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Sexton yes. Approved.

Novak/Sexton made a motion to approve the #19-13 Lucks. Andrew application for a Special Use Permit for a retail business under the Town of Duanesburg Zoning Ordinance adopted 6/11/15 under section 9.4.(15) contingent on down cast lighting. Novak yes, Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. **Approved**.

New Business:

#19-14 Perog. Steven and Cheryl: SBL#43.00-2-28, (R-2) located at 21 Lea Drive is seeking a Special Use Permit for a two family dwelling adding a single apartment over an existing garage under the Town of Duanesburg Zoning Ordinance adopted 6/11/15 under section 15.4(I); section 8.4(8); section 13.2.1; section 3.5.60. Steven gave some of his presentation to the board. Due to not enough information the board decided to table it until the November 21st meeting.

Sexton/Harris made a motion to table the <u>#19-14 Perog. Steven and Cheryl</u> application to the November 21st meeting.
Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. **Approved.**

Old Business:

None

Sketch Plan Review:

#19-15 O'Neil. Paul/O'Neil. Gerald: SBL#43.00-1-14.31, (R-2) located at 327 Hardin Road is seeking a minor subdivision under section 3.4 of the Town of Duanesburg Subdivision Ordinance. They would like to divide an existing lot of 34.30 acres into two portions lot #1 located on Hardin Road is 6.82 (+-) lot #2 located on State Highway 30 is 27.475 acres. Shannon O'Neil gave her presentation on behalf of her father Paul O'Neil.

Sexton/Williams made a motion to exempt the minor subdivision application from further planning Board review and refer to the Code Enforcement Officer to complete administratively as the proposed action neither creates nor increases any significant planning issues with respect to the existing or potential future use of any involved parcels. Sexton yes, Williams yes, Rulison yes, Harris yes, Schmitt yes, Novak yes. Approved.

OTHER:

#19-12 Murray. Richard/Eden Renewables: SBL# 74.00-2-5, (R-2) located 1206 Oak Hill Rd Under Local Law # 1-2016 of the Town of Duanesburg Zoning Ordinance Resolution revision.

Sexton/Rulison made a motion to amend the resolution approving the project to show the correct amount of lot coverage as shown on the site plans which were approved for the solar project for the #19-12 Murray. Richard/Eden Renewables application. Bullet 3B will now show that Lot 1 contains 70.378 acres with 32.8 acres of coverage which is 46 percent and that Lot 2 contains 70.353 acres with 33.0 acres of coverage which is 47 percent.

Sexton yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Harris yes. Approved.

MINUTES APPROVAL:

Novak/Harris made the motion to approve the September 19th, 2019 Planning Board minutes with minor corrections.

Novak yes, Harris yes, Sexton yes, Schmitt yes, Williams yes, Rulison yes, APPROVED.

Sexton/Harris made a motion to go into executive session to discuss the enforcement action with the CEO associated with #19-14 Perog. Steven and Cheryl application.
Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. Approved.

Sexton/Harris made a motion to come out of executive session.

Sexton yes, Harris yes, Rulison yes, Schmitt yes, Williams yes, Novak yes. Approved. NO ACTION WAS TAKEN BY THE BOARD DURING OR AFTER the EXECUTIVE Session.

ADIOURNMENT:

Harris/Novak made the motion to adjourn at 7:50pm. Harris yes, Novak yes, Schmitt yes, Sexton yes, Rulison yes, Houghton yes, Williams yes. APPROVED.

TOWN OF DUANESBURG PLANNING BOARD RESOLUTION APPROVING SPECIAL USE PERMIT, SUBDIVISION AND SITE PLAN FOR THE EDEN RENEWABLES OAK HILL SOLAR ENERGY PROJECTS – 1206 OAK HILL ROAD

Date: September 19, 2019

WHEREAS, on or about May 7, 2018, Eden Renewables ("Eden Renewables" or the "Applicant") applied to the Duanesburg Planning Board ("Planning Board") for a Special Use Permit and Site Plan Review pursuant to the Town of Duanesburg Local Law No. 1-2016, for the 5-MW Oak Hill Solar Energy Projects 1 and 2 (collectively, the "Project") to be located at 1206 Oak Hill Road in the Town of Duanesburg, Schenectady County, New York on the lands owned by Richard Murray (SBL# 74.00-2-5) ("Property"); and

WHEREAS, on or about May 17, 2018, the Applicant appeared before the Planning Board in furtherance of the proposed Project and the Planning Board requested that the Applicant meet with the Town Planner/Code Enforcement Officer to discuss the proposed application; and

WHEREAS, on or about July 18, 2018, the Applicant appeared before the Planning Board and requested a lot line adjustment and minor subdivision in order to install two 5-MW solar fields on each created parcel, in addition to the Special Use Permit sought pursuant to the Town of Duanesburg Local Law No. 1-2016; and

WHEREAS, on or about July 18, 2018, the Planning Board adopted a resolution pursuant to the State Environmental Quality Review Act [ECL Article 8 and Its implementing regulations at 6 NYCRR Part 617, collectively referred to as "SEQRA"] in which it assumed the role of SEQRA Lead Agency, declared the proposed action as a Type 1 action and conducted a coordinated review;

WHEREAS, on or about August 16, 2018, the Planning Board adopted a resolution appointing Doug Cole of Prime AE Group of NY as the Town Designated Engineer to assist in its review of the application from Eden Renewables; and

WHEREAS, on or about September 11, 2018, the Town's Designated Engineer provided written comments on the application; and

WHEREAS, on or about March 11, 2019, the Applicant submitted revised site plans, minor subdivision and lot line adjustment plans, revised applications, a revised Full Environmental Assessment Form ("Full EAF"), and a decommissioning plan, accompanied by a letter addressing comments from the Town's Designated Engineer; and

WHEREAS, on or about March 21, 2019, the Applicant appeared before the Planning Board in furtherance of the site plan review process, and the Planning Board requested receipt of additional information and other actions from the Applicant; and

WHEREAS, on or about June 6, 2019, the Applicant submitted additional information to the Planning Board and addressed the outstanding actions identified by the Planning Board; and

WHEREAS, on or about June 20, 2019, the Planning Board reviewed the materials submitted by the Applicant, issued a negative declaration of environmental significance for this Type 1 action, after reviewing Part 1 of the EAF and completing Parts 2 and 3 of the EAF, and scheduled the Public Hearing for July 18, 2019; and

WHEREAS, on or about July 11, 2019, acting on a referral of the application from the Planning Board pursuant to GML § 239-m, County Planning recommended approval of the Project;

WHEREAS, on July 18 and August 16, 2019, the Planning Board held two well-attended public hearings on the applications and heard comments for and against the Project;

WHEREAS, the Planning Board directed the applicant to respond in writing to the public comments and the applicant submitted two sets of responses after each public hearing;

WHEREAS, the Planning Board directed the Town Designated Engineer, Mr. Cole of Prime AE to review the responses to the public comments and the additional information submitted by the Applicant, all as set forth in Mr. Cole's letter of September 10, 2019 providing comments on the Applicant's materials and recommending that the Town should condition any approval on the Applicant obtaining a permit from the US Army Corps of Engineers, if one is required by the agency, advising that the supplementary Visual Impact Assessment demonstrates that the existing Biggs and Otis and any other nearby residences will be adequately screened by existing vegetation, distance and topography such that the solar array will not be visible; and finding that the revised Decommissioning Plan is reasonable for the proposed system; and

WHEREAS, the Planning Board has carefully considered the documentation in the record including the supplemental information provided by the Applicant, the comments by involved and interested agencies, the recommendation of County Planning and the comments, both oral and written, by the members of the public;

NOW, THEREFORE, BE IT RESOLVED, by the Planning Board as follows:

- That the applications for Minor Subdivision, Site Pian Review and Special Use Permit submitted by the Applicant for the Project were determined to be complete under the Town of Duanesburg Solar Law, the Duanesburg Zoning Law, and the Town of Duanesburg Subdivision Regulations; and
- 2. That having received and reviewed the application materials submitted by the Applicant, including but not limited to, site plans, subdivision plans, lot line adjustment plans, decommissioning plans, a Full Environmental Assessment Form, statements of proposed construction impacts and ongoing operation and maintenance, and having completed Parts 2 and 3 of the Full EAF, hereby determines that the Project will not have a significant adverse impact on the environment (as duly noted in the Full EAF) and, therefore, hereby confirms and issues a Negative Declaration as set forth in the EAF Part 3 and its attached reasons supporting the determination read into the record and incorporated herein based on the following findings;
 - a. The Project will not have any significant impacts on federal wetlands or waterbodies as determined by the full wetland delineation conducted on the Project site, that any necessary approvals would be covered by the ACOE nationwide permit program, and that there are no impacts on State wetlands or streams:
 - b. The Project will not create any permanent impacts from odors, noise or traffic nor to groundwater and surface waters, there will only be insignificant and temporary impacts during construction;

- c. The Project avoids and/or minimizes impacts on plants and animals, due to the very limited vegetative clearing that will result from the Project, once construction is complete vegetation will cover the ground under the panels and the property will continue to be used for limited agricultural purposes, such as sheep grazing and bee keeping;
- d. The Project will not create any impacts to historical or cultural resources as shown in the Letter of No Effect from the New York State Office of Parks, Recreation, and Historic Preservation dated June 4, 2019;
- e. The Project will minimize any visual impacts due to the existing topography, the retention of existing vegetation as shown on the final site plans and will not create any impacts from glare as demonstrated by the Applicant;
- f. The Planning Board hereby requires that the Project provide evergreen landscaping plan showing the establishment of a substantial evergreen buffer on the Applicant's property within 10 feet of the property boundary currently containing houses within approximately 600 feet of the project site boundary for a length of approximately 1600 feet at the back of the parcel with 2 staggered rows of trees planted 20 feet on center with the trees having the height at the time of planting of 6 to 7 feet and with the trees being species spruce and fir evergreens. The applicant shall also provide a maintenance and replacement agreement for the evergreen buffer to be planted;
- g. The Project does not impact any Critical Environmental Areas and is not located in a flood zone;
- h. The Project will have a positive economic benefit as it will result in revenue to the Town pursuant to a Payment-In-Lieu-Of-Taxes ("PILOT") Agreement and it will result in jobs during the construction and operation of the facility;
- The Project will provide renewable energy in the production of electricity and will contribute to the State's goal of replacing fossil fuel generated electricity with renewable sources of electricity;
- j. The Project will also not change the community character as it has been sited to not be visible to the maximum extent possible to surrounding homes and roadways, and an evergreen landscaped buffer will be created on the property containing the project as set forth above;
- k. The Project is also a use of land that will be discontinued in the future and as such a decommissioning plan is in place to return the property to its current condition; and
- The Applicant has indicated that it intends to continue to have the property in agricultural uses, such
 as sheep grazing and beekeeping, which also makes it consistent with the community which contains
 agricultural uses.
- 3. That Planning Board's findings set forth below demonstrate the proposed construction of the Project, a Solar Energy System (Major), at the Property satisfies the requirements of the Town of Duanesburg Solar Law:
 - a. The Project is in the R-2 Zoning District and as such is a permitted use subject to Special Use Permit and Site Plan approval by the Planning Board;
 - b. The projects are located on parcels in excess of 97.24 and 87.18 acres and when constructed will have a lot coverage of 45.71 and 45.63 acres, respectively, thereby satisfying the lot coverage limitation of 60%;
 - c. The Project provides the required 100' setback between its components and the boundary of the Property, provides the required minimum of 25' buffer of vegetation to screen views of the Project and, in fact, that the Project exceeds this standard to address the concerns of adjoining property owners;
 - d. A fence meeting or exceeding the applicable requirements of the Zoning Law has been proposed;
 - The Project preserves existing on site vegetation to the maximum extent practicable and does not
 propose to clear cut all trees in a single contiguous area exceeding 20,000 square feet on the
 property;
 - f. The Town of Duanesburg Planning Board reviewed the plans showing brush hogging and tree clearing that had been undertaken by the property owner and determined such tree clearing did not exceed the above requirement;

- The SEQRA regulations require that a project sponsor may not commence any physical alteration related to an action until the provisions of SEQR have been complied with and the Planning Board specifically finds that the property owner brush hogging the property and taking down some limited trees for agriculture and silviculture purposes was consistent with the past uses of the property and not directly related to the development of the solar farm;
- The Project is not located within an active farm field but is vacant hay field periodically cut by the property owner and historically used for more intensive agricultural purposes;
- i. Native grasses and vegetation will be maintained below the arrays;
- j. The site plans demonstrate that the Project:
 - Provides through its siting and through the implementation of an evergreen landscaping plan to be approved by the Town of Duanesburg, a project design that minimize visual impacts from public roads and existing residential dwellings on contiguous parcels to the satisfaction of the Planning Board;
 - ii. layout ensures that the solar panels will not reflect solar radiation or glare onto adjacent buildings, properties and roadways and that the solar panels include a non-glare coating and are designed to absorb the maximum amount of solar rays such that the panels will not misdirect or reflect solar rays onto neighboring properties or public roads in excess of that which already exists;
 - iii. existing vegetation on the site is preserved to the maximum extent practicable;
 - all transmission/interconnection lines on the Property shall be underground and within necessary easements and in compliance with applicable electrical and town codes excepting aboveground lines as required by National Grid;
 - v. no artificial lighting is proposed;
 - vi. that any signage will be in accordance with applicable town requirements and the manufacturers and/or installers identification and appropriate warning signage shall be posted;
 - vii. the average height of the solar panels are 8' feet above grade below the 20' height limitation;
 - viii. all disturbed areas shall be restored in accordance with the zoning law's requirements.
- 4. That the decommissioning plan is approved and the Planning Board requires that financial security be provided at least 30 days prior to the commencement of construction to the Town Clerk by the Applicant in the form of a bond or letter of credit in the amount \$422,752.00 (\$211,381.00 per project) with the form of financial security acceptable to the Town's attorney, with such funds to be used for decommissioning of the Project in the event that the Project is not decommissioned by the Project owner or the landowner; and
- That this project approval is conditioned upon the Applicant obtaining any other State or federal approvals
 required for the project including but not limited to any such permits required by the NYSDEC, the USACOE
 and the NYSDOT; and
- 6. That this resolution and negative declaration shall be filed in the office of the Town Clerk and shall take effect immediately and that the notice of negative declaration be published in the ENB, that the negative declaration be provided to all involved agencies and that it be filed as required by SEQRA.

| Roll Call Vote: | <u>Yes</u> | <u>No</u> | Abstain/Absent |
|-----------------|------------|-----------|----------------|
| Phillip Sexton | ~ | | |
| Jeffrey Schmitt | ✓ | | |
| Elizabeth Novak | ~ | | |
| Martin Williams | ~ | | |
| Thomas Rulison | ~ | | |
| | | | |

Michael Harris Joshua Houghton

SCHEDULE D

OAK HILL COMMUNITY SOLAR 1 AND 2 DECOMMISSIONING STATEMENT

ORIGINAL

ENTERED ON 3:35

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- 2. DECOMMISSIONING PLAN
- 3. COST OF DECOMMISSIONING
- 4. ESTABLISHMENT OF DECOMMISSIONING FUND
- 5. DEMOLITION INSTRUCTIONS

APPENDICES:

| APPENDIX 1: | SITE LOCATION PLAN |
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| APPENDIX 2: | BREAKDOWN OF DECOMMISSIONING |
| APPENDIX 3: | NYSERDA FACT SHEET |
| APPENDIX 4: | IRREVOCABLE STANDBY LETTER OF CREDIT |



ENTERED 049/5/19
BY DW 3/34

1. INTRODUCTION

Oak Hill Solar 1 & 2, LLC (the "Applicant"), a New York limited liability company, hereby submits this plan for the eventual decommissioning of the two proposed 5 MWAC/7.5 MWDC community solar electric generation facilities located at 13950 Duanesburg Road, Delanson, NY 12053, in the Town of Duanesburg (the "Town") within Schenectady County in New York State (the "Projects") and the establishment of a decommissioning fund (the "Decommissioning Fund") for review as part of the "Solar Energy Facilities Law" as adopted by the Town of Duanesburg through Resolution NO. 107-2016 (the "Solar Bylaw"), before the planning board of the Town of Duanesburg (the "Board").

A site location plan is provided at Appendix 1 for reference.

2. DECOMMISSIONING ACTIVITIES

The Projects are anticipated to operate for 25-30 years. At the time the Projects ceases to operate, Applicant will perform decommissioning which shall include removal of all energy facilities, structures and equipment including any subsurface wires and footings from the parcel. Any access roads created for building or maintaining the system shall also be removed and re-planted with vegetation. The solar panels and all other equipment removed from the project site, unless being reused or repurposed for another project, shall be recycled in accordance with all applicable New York State policies and procedures in effect at the time of decommissioning.

Further, decommissioning will include restoring the property to its pre-installed condition, including grading and vegetative stabilization to eliminate any negative impacts to surrounding properties. Specifically, such decommissioning shall include, but is not limited to, physical removal of all ground-mounted solar collectors, structures, equipment, security barriers and transmission lines from the site.

3. COST OF DECOMMISSIONING

The fully inclusive cost to decommission each Project, as defined in Section 2 herein, is estimated at \$211,381 (the "Estimated Decommissioning Cost"), as detailed in Appendix 2.

The Estimated Decommissioning Cost shall be adjusted annually to account for inflation, based upon the current Consumer Price Index ("CPI') as maintained by the Bureau of Labor Statistics (the "Revised Estimated Decommissioning Cost").

4. ESTABLISHMENT OF DECOMMISSIONING FUND

The Decommissioning Fund will be funded with either (i) a surety bond (the "Bond") or (ii) an irrevocable standby Letter of Credit (the "LC") that is solely for the benefit of the Town. No other entity, including Applicant, shall have the ability to demand payment under the Decommissioning Fund. A draft LC form is attached to this Plan as Appendix 4. The LC or other Board-approved financial security, shall be in place and filed with the Board prior to commencement of construction.

Every five years and for the Project's life, Applicant shall file a report with the Board on the effect of the annual inflation adjustment, as noted above, including a Revised Estimated Decommissioning Cost. If the Revised Estimated Decommissioning Cost exceeds the then current Estimated Decommissioning Cost, Applicant shall create a new or amended Bond (or other appropriate financial security) to be issued to reflect the Revised Estimated Decommissioning Cost. In the event the CPI has a negative value at the time the annual adjustment is calculated, the value of the Bond (or other appropriate financial security) shall not be reduced.

At the end of the Project's useful life, and in the event Applicant does not seek Board approval to repower the Project, Applicant will decommission the Project as required under the Board's Solar Bylaw. Upon completion of decommissioning, Applicant shall seek a certification of completion from the Board. The certification will be provided to the issuing bank with instructions to terminate the LC (or another appropriate financial security).

The Board shall have the right to draw on the LC (or other appropriate financial security) to pay the costs of decommissioning in the event that Applicant (or its successor) is unable or unwilling to commence decommissioning due to dissolution, bankruptcy, or otherwise. Prior to the Board drawing on the LC (or other appropriate financial security), Applicant shall have a reasonable period of time to commence decommissioning, not to exceed ninety days following issuance of a Board order requiring decommissioning of the Project.

5. DEMOLITION INSTRUCTIONS

The following list is the sequential procedure that should be followed by the town for removal of the system pursuant to this plan:

a. Project Component Removal
All control cabinets, electronic components, and internal cables will be removed
along with the panels, racks, and inverters. These components will be lowered to the
ground where they will be transported whole for reconditioning and reuse, or
disassembled/cut into more easily transportable sections for salvageable, recyclable,
or disposable components.



ь. PV Module Removal

The Project's solar photovoltaic panels are manufactured according to the regulatory toxicity requirements based on the Toxicity Characteristic Leaching Procedure (TCLP), Under these regulations, solar panels are not considered hazardous waste. The panels used in the Project will contain:

| Glass | 75% |
|----------|-----|
| Polymers | 10% |
| Aluminum | 8% |
| Silicon | 5% |
| Copper | 1% |
| Silver | 1% |
| | |

All which have recycling or resale value. Modules will be dismantled and packaged per manufacturer, approved recyclers or resellers specifications and shipped to an approved off-site solar panel recycler.

It is important to recognize that solar panels have a minimum 10 year product warranty and a minimum 25 year performance guarantee. Those warranties have a direct impact on the panels' salvage value. The earlier the decommissioning event the higher salvage value.

International Renewable Energy Agency (IRENA) and the International Energy Agency's Photovoltaic Power Systems Programme (IEA-PVPS) published a detailed report titled, "The End-of-Life Management: Solar Photovoltaic Panels" that projects the PV panel waste volumes to 2050 and highlights that recycling or repurposing of solar PV panels at the end of their 30-year lifetime will unlock a large stock of raw materials and valuable components. The report estimates that PV panel waste, comprised could total 78 million tonnes globally by 2050. The value of the recovered material could exceed \$15 billion by 2050. This potential material influx could produce 2 billion new panels or be sold into global commodity markets.

Below is a short list of American companies that already operate in the solar panel recycling or repurposing market,

http://www.tekovery.com/

http://www.morgenindustries.com/index.html

https://echoenvironmental.com/solar-panei-recycling/

http://www.glrnow.com/

http://www.intercotradingco.com/usa-solar-panel-recycling/

https://silrec.com/

http://www.solarsilicon.com/

c. Electric Wire Removal

The copper and aluminum electric wires have a value for recycling. The DC wiring can be removed manually from the panels to the inverter. Underground wire in the project will be pulled and removed from the ground. Overhead cabling for the interconnection will be removed from poles. All wire will be sent to an approved recycling facility.

d. Racking and Fencing removal

All racking and fencing material like posts that were driven into the ground will be pulled, broken down into manageable units, removed from the facility and sent to an approved recycler.

e. Concrete Slab Removal

Concrete slabs used as equipment pads will be broken and removed to a depth of two feet below grade. Clean concrete will be crushed and disposed of off-site and/or recycled and reused either on or off-site. The excavation will be filled with subgrade material of quality and compacted density comparable to the surrounding area.

f. Access Road

The last structure to be removed is the access roads. They will be stripped exposing the geotextile beneath. The geotextile will then be removed and disposed of revealing the original soil surface. The compacted soll beneath the road fill might require ripping with a subsoiler plow to loosen it before it can be returned to crop production. Some of the access road might be retained by the landowner as it will be an improvement for their farm access.

g. Site Restoration Process

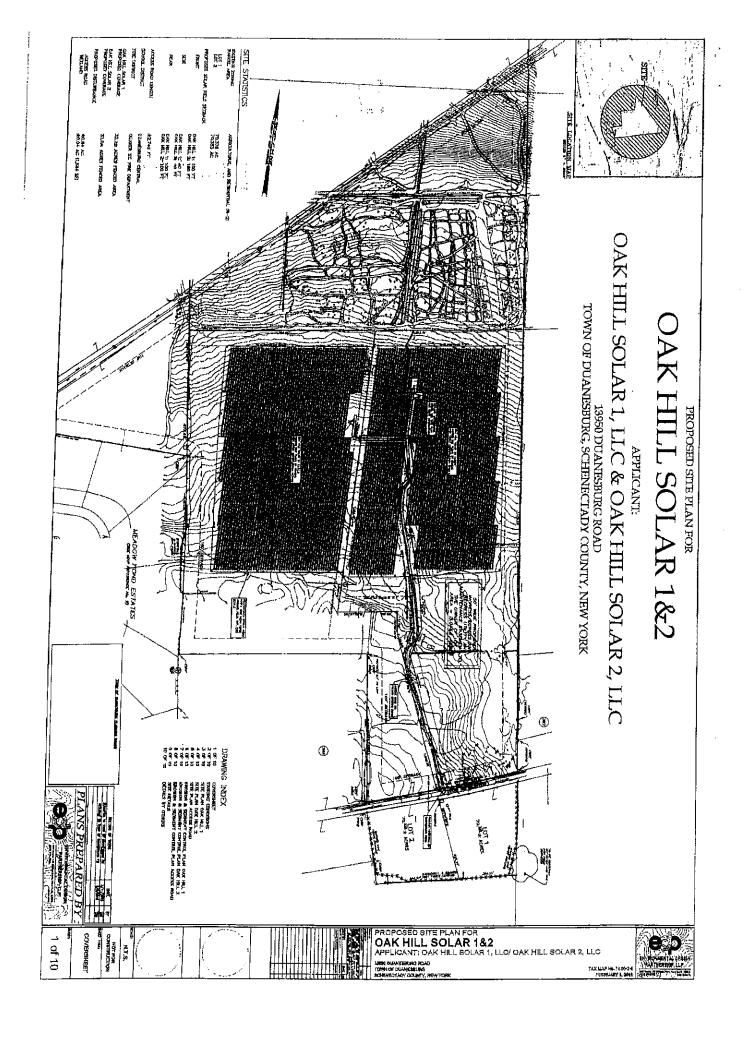
The site consists of 65.2 acres of agricultural land. Following the decommissioning activities, the sub-grade material, and topsoil from affected areas will be de-compacted and restored to a density and depth consistent with the surrounding areas. All unexcavated areas compacted by equipment used in decommissioning shall be de-compacted in a manner to adequately restore the topsoil and sub-grade material to the proper density consistent and compatible with the surrounding area.

If the subsequent use for the Project site will involve agriculture, a deep till of the project site will be undertaken. The affected areas will be inspected, thoroughly cleaned, and all construction-related debris removed. Disturbed areas will be reseeded to promote the re-vegetation of the area unless the area is to be immediately redeveloped. In all areas restoration shall include, as reasonably required, leveling, terracing, mulching, and other necessary steps to prevent soil erosion, to ensure the establishment of suitable grasses and forbs, and to control noxious weeds and pests. The future use of the land for agricultural purposes would not be prejudiced.

2 ORIGINAL

Appendix 1
Site Location Plan

ENTERED ON 9/5719
BY DW 3:35





Appendix 2 Breakdown of Decommissioning Costs

Applicant submits this breakdown of the Estimated Decommissioning Cost to support the proposed decommissioning fund of \$211,381 for each project based on 2019 cost of work estimates following the NYSERDA guidance which is based on the estimating practices followed by the State of Massauchettes and New York Southeast scrap value prices

It should be further noted that while the Decommissioning Fund is established in the amount equal to the gross decommissioning costs of \$211,381.00, there will likely be significant salvage value that would make the net system decommissioning cost lower than the proposed Decommissioning Fund amount.

To better explain the potential salvage value for this project we have completed a more detailed analysis of the current value of the main project components: solar panels, racking system aluminum/steel content and the electric cabling copper/aluminum content. The current published values for these materials can have a fairly large spread. For each item we choose the use the most conservative pricing available to assume current worst case scenario. As you can see from the summary analysis the current salvage value is 3 times higher than the proposed decommission cost.

| | Type | Quantity | Cost Per Item | Total |
|--|------------------------|--------------|---------------|-------------|
| Fence Removal With Gate and CCTV | LF | 7,618 | \$4,50 | \$34,281.0 |
| Remove Transformers & Concrete Pads | Each . | 2 | \$5,000.00 | \$10,000,0 |
| Remove Major Switch Gear & Concrete Pad | Each | 1 | \$5,000,00 | \$5,000.0 |
| Remove Modules and Racking | \$/MWac | 5 | \$9,000,00 | \$45,000.0 |
| Removal of Posts | Each | 1,975 | \$20,00 | \$39,500.0 |
| Remove & Dispose String Invertors, Storage and DC Convertors | Each | 60 | \$300,00 | \$18,000.0 |
| Removal of Underground Wires and Backfill | LF | 3,500 | \$10,00 | \$35,000.0 |
| Site Restoration, Grade and Seed | Acre | 10 | \$900.00 | \$9,000,0 |
| Removal of Gravel Access Road | Cubic Yards | 624 | \$25.00 | \$15,600.0 |
| Current Total: | | | | \$211,381.0 |
| Total after 25 years of inflation (2.5% Inflation rate) | | | | \$346,372.3 |
| Detailed Salvage Value | Solar Panels | 45,455 | \$6,60 | \$300,003,0 |
| | Racking Steel (lbs) | 1,168,100,00 | \$0,05 | \$58,405.0 |
| | Racking Aluminum (lbs) | 1,760,000.00 | \$0,15 | \$264,000.0 |
| | Project Cabling (fbs) | 75,931.00 | \$0,73 | \$55,429,6 |
| otal Salvage Valud | | | | \$677,837.6 |

Appendix 3

NYSERDA Fact Sheet

PANEL SYSTEMS

NEW YOR STATE OF OPPORTUNITY

NY-Sun

NERED 011 9/57 19

This fact sheet provides information to local governments and landowners on decommissioning of large-scale solar panel systems.

As local governments develop solar regulations and landowners negotiate land leases, it is important to understand the options for decommissioning solar panel systems and restoring project sites to their original status.

From a land use perspective, solar panel systems are generally considered large-scale when they constitute the primary use of the land, and can range from less than one acre in urban areas to 10 or more acres in rural areas. Depending on where they are sited, large-scale solar projects can have habitat, farmland, and aesthetic impacts. As a result, large-scale systems must often adhere to specific development standards.

Abandonment and decommissioning defined

Abandonment occurs when a solar array is inactive for a certain period of time.

- Abandonment requires that solar penel systems be removed after a specified period of time if they are no longer in use. Local governments establish timeframes for the removal of abandoned systems based on aesthetics, system size and complexity, and location. For example, the Town of Geneva, NY, defines a solar panel system as abandoned if construction has not started within 18 months of site plan approval, or if the completed system has been nonoperational for more than one year.
- Once a local government determines a solar panel system is abandoned, and has provided thirty (30) days prior written notice to the owner it can take enforcement actions, including imposing civil penalties/fines, and removing the system and imposing a lien on the property to recover associated costs,

Decommissioning is the process for removing an abandoned solar panel system and remediating the land.

 When describing requirements for decommissioning sites, it is possible to specifically require the removal of infrastructure, disposal of any components, and the stabilization and re-vegetation of the site.

What is a decommissioning plan?

Local governments may require to have a plan in place to remove solar panel systems at the end of their lifecycle, which is typically 20-40 years. A decommissioning plan outlines required steps to remove the system, dispose of or recycle its components, and restore the land to its original state. Plans may also include an estimated cost schedule and a form of decommissioning security (see Table 1).

What is the estimated cost of decommissioning?.....

Given the potential costs of decommissioning and land reclamation, it is reasonable for landowners and local governments to proactively consider system removal guarantees. A licensed professional engineer, preferably with solar development experience, can estimate decommissioning costs, which vary across the United States. Decommissioning costs will vary depending upon project size, location, and complexity. Table 1 provides an estimate of potential decommissioning costs for a ground-mounted 2-MW solar panel system, Figures are based on estimates from the Massachusetts solar market, Decommissioning costs for a New York solar installation may differ. Some materials from solar installations may be recycled, reused, or even sold resulting in no costs or compensation. Consider allowing a periodic reevaluation of decommissioning costs during the project's lifetime by a licensed professional engineer, as costs could decrease and the required payment should be reduced accordingly.

Table 1: Sample list of decommissioning tasks and estimated costs

| Tasks | Estimated Cost (S) |
|---|--------------------|
| Ramove Rack Wiring | \$2,459 |
| Remove Paneis | \$2,460 |
| Dismantie Racks | \$12,350 |
| Remove Electrical Equipment | \$1,850 |
| Breakupand Remove Concrete Pads or Ballasts | \$1,500 |
| Remove Racks | \$7,800 |
| Remove Cable | \$6,500 |
| Remove Ground Screws and Power Poles | \$13,850 |
| Remove fence | \$4,950 |
| Grading | \$4,000 |
| Seed Disturbed Areas | \$250 |
| Yruskto Recycling Center | \$2,260 |
| | \$ \$2,510,210 |
| omunovoyora (45.ylannila (416) | 2330000363 |



[!] Town of Geneva, N.Y. CODE § 130-4(D)(5) (2016):

Appendix 4 IRREVOCABLE STANDBY LETTER OF CREDIT DĂTE:

| Applicant: | <i>ω•</i> |
|---|---|
| | |
| Beneficiary: | - |
| Bollonolary. | |
| Town of Duanesburg | |
| 5853 Western Turnpike Duanesburg, NY 12056 | |
| | |
| Dear Sir or Madam: | |
| "Letter of Credit") in favor aggregate amount of up to Credit, the "Maximum States Credit] and expiring [insert of Credit] as may be extend Date"). We are informed be connection with the Paymen [insert date of agreement], a and Applicant and is for the be School District. | ("Applicant"), we, [insert name of issuing re established this irrevocable Standby Letter of Credit (this r of the Town of Duanesburg ("Beneficiary"), , for an second and a second pursuant to this Letter of date which is 364 days after the initial date of this Letter of ded in accordance with the terms hereof (the "Expiration by the Applicant that this Letter of Credit is provided in it in Lieu of Taxes Agreement (the "Agreement"), dated as amended from time to time, by and between Beneficiary benefit of the Town of Duanesburg and Duanesburg Central |
| The Maximum Stated Amoun and permanently reduced by herein. | t at the time of any drawing hereunder shall be immediately the amount of such drawing and otherwise as set forth |
| Letter of Credit are strictly co | e to Beneficiary, providing all terms and conditions of this omplied against Beneficiary's sight draft drawn on Issuing x A and when accompanied by Beneficiary's statement iary and reading as follows: |
| Either: | |

"An Event of Default under Section 6(a)(1) of the Agreement with respect to Applicant's due but unpaid PILOT Payments (as defined in the Agreement) has occurred, and the amount that Beneficiary is drawing under this Letter of Credit is due and owing



ENTERED 019/5/19
BY: DW. 535

by Applicant to Beneficiary as a result of such Event of Default. A copy of the unpaid PILOT Payment invoice is attached to the sight draft,"

Or

"The Letter of Credit Number is set to expire on ,20 (the "Expiration Date"). Beneficiary has received notice from Issuing Bank that this Letter of Credit will not be extended by Issuing Bank. Applicant is required to maintain a letter of credit securing Applicant's obligation to make PILOT Payments (as defined in the Agreement) under Section 3(0) of the Agreement ("Payment Security") and has failed to provide Beneficiary with alternative Payment Security at least thirty (30) calendar days prior to the Expiration Date, and as of the date of this drawing, has not provided Beneficiary with such Payment Security. As a result of the foregoing, Beneficiary is entitled to draw the Maximum Stated Amount of the Letter of Credit."

Issuing Bank hereby undertakes to honor Beneficiary's sight drafts drawn on Issuing Bank in accordance with this Letter of Credit by the date and time specified below, indicating the Letter of Credit number [insert Letter of Credit number], if presented to Issuing Bank on a Business Day occurring on or before the applicable expiration date for an aggregate amount not to exceed the Maximum Stated Amount.

Any drawings under this Letter of Credit shall be presented to Issuing Bank at its counters by personal presentation, courier or messenger service. In addition, drawings may also be presented by fax transmission to [Insert Issuing Bank fax number] or such other fax number identified by Issuing Bank in a written notice to Beneficiary. To the extent a drawing is presented by fax transmission, Beneficiary must (i) provide telephone notification to Issuing Bank at [Insert Issuing Bank telephone number] prior to or simultaneously with the sending of such fax transmission and (ii) send the original of such drawing to Issuing Bank by overnight courier at [Insert Issuing Bank address], however such original drawing documents will not be examined by us nor form part of the drawing. If a drawing is presented in compliance with the terms of this Letter of Credit to Issuing Bank at such address or fax number by 11:00 a.m., New York City Time, on any Business Day, payment will be made not later than the close of business, New York City Time, on the next Business Day and if such drawing is so presented to Issuing Bank after 11:00 a.m., New York City Time, on any Business Day, payment will be made on the second Business Day no later than the close of business, New York City Time.

If a demand for payment made hereunder does not conform to the terms and conditions of this Letter of Credit, Issuing Bank shall give Beneficiary notice in writing (or by telephone confirmed in writing) that Beneficiary's demand for payment was not effected in accordance with the terms and conditions of this Letter of Credit, stating the reasons therefore and that Issuing Bank will upon Beneficiary's instructions hold any documents at Beneficiary's written direction or return the same to Beneficiary. Upon being notified that the demand for payment was not effected in conformity with this Letter of Credit, Beneficiary may correct any such non-conforming demand if, and to the extent that

Beneficiary is entitled and able to do so on or before the Expiration Date, but in no event shall the Expiration Date of this Letter of Credit be extended.

Issuing Bank has no duty or right to inquire into the validity of, or the basis for, any draw.

This Letter of Credit shall permit multiple partial drawings.

As used herein, "Business Day" means any day on which (A) commercial banks are not closed, or authorized or required to close, in New York City or (B) with respect to a certain drawing request, the bank to which funds are requested to be transferred hereunder as set forth in such drawing request is not closed, or authorized or required to close, and may receive such funds by wire transfer as requested hereunder.

Should Beneficiary have occasion to communicate with Issuing Bank regarding this Letter of Credit, kindly direct the communication to the attention of [insert Issuing Bank address/department] mentioning the Letter of Credit number [insert letter of credit number].

This Letter of Credit, together with sight drafts submitted in accordance with the terms hereof, sets forth in full the terms of our undertaking and this undertaking shall not in any way be modified, amended, limited or amplified by reference to any document, instrument or agreement referred to herein, and any document, instrument or agreement referred to herein, and any such reference shall not be deemed to incorporate herein by reference any document or agreement.

Except as far as otherwise expressly stated herein this Letter of Credit is subject to the International Standby Practices (ISP98), International Chamber of Commerce Publication No. 590'(the "ISP"), and as to matters not governed by the ISP, shall be construed in accordance with the laws of the state of New York without regard to principles of conflicts of law that may result in the application of the laws of another jurisdiction.

As allowed by law, any payments hereunder shall be made free and clear of, and without deduction or set off for or on account of any present or future taxes, duties, charges, fees, deduction or withholding of any nature and by whomever imposed.

The Expiration Date of this Letter of Credit will be automatically extended without amendment for a period of one (1) year from the Expiration Date, or any future Expiration Date, unless at least sixty (60) days prior to the then current Expiration Date Issuing Bank sends notice to Beneficiary by overnight courier at Beneficiary's address shown above, that Issuing Bank elects not to extend the Expiration Date of this Letter of Credit for any such additional period.

ISSUING BANK

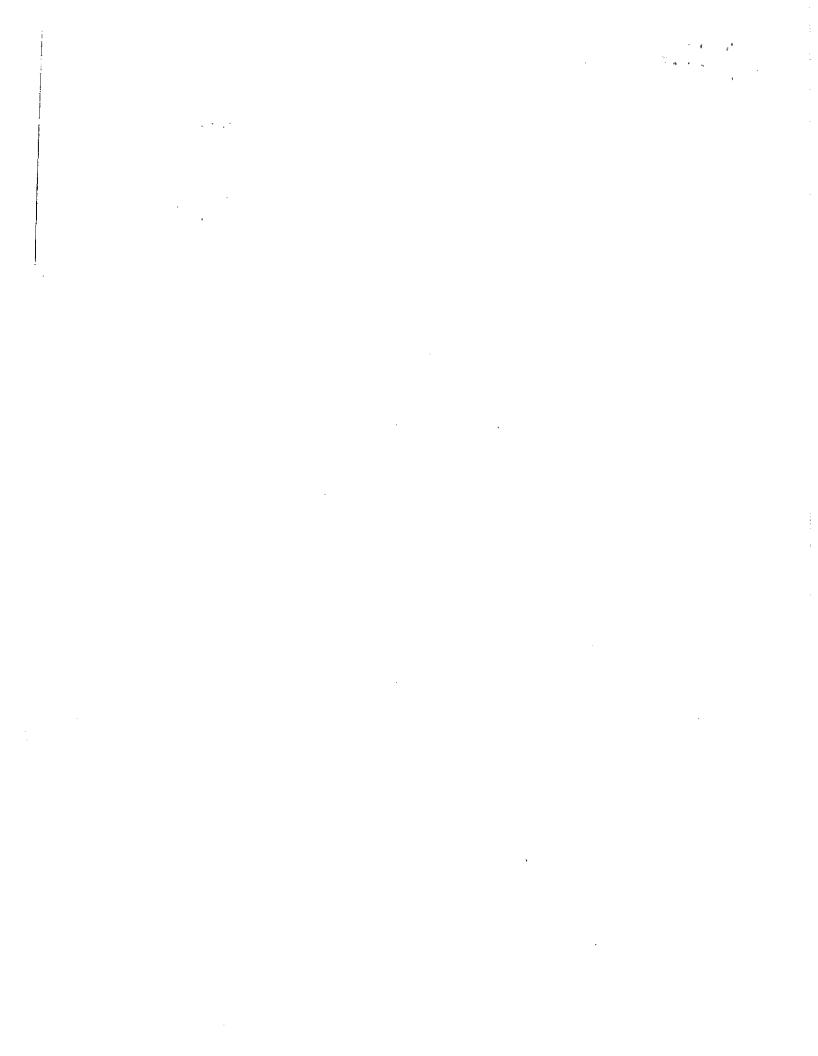
Authorized Signature

ANNEX A



| IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER | |
|--|------|
| Date | |
| ENTERED ON: | 9. |
| BR DW 5 | ' 5° |
| Sight Draft | |
| Pay to the order of the County of Chautauqua Industrial Development Agency it amount of \$ drawn under [Name of issuing bank] Irrevocable Standby Lette of Credit Number dated, 20, A copy of the unpaid PILO Payment invoice is attached hereto [For a payment default]. [INSERT BENEFICIARY PAYMENT INSTRUCTIONS] | er |
| Town of Duanesburg By: Name; Title: | |
| | |

cc:



DECOMMISSIONING AGREEMENT

This **DECOMMISSIONING AGREEMENT** (this "Agreement"), dated as of July 2020 (the "Effective Date"), is made by and among the **Town of Duanesburg**, a municipal corporation duly established in Schenectady County with a principal place of business located at 5853 Western Turnpike, Duanesburg, NY 12056 (referred to as the "Town"), **Oak Hill Solar 2 LLC**, a limited liability company formed under the laws of the State of New York with principal offices at 1550 Wewatta Street, 4th Floor, Denver, CO 80202 (referred to as the "Operator") and Richard Murray, an individual (referred to as the "Landowner"). The Town, the Operator and the Landowner may each be referred to herein as a "Party" and collectively, as the "Parties".

WHEREAS, Operator intends to permit, construct, operate and maintain a solar energy facilities with battery storage with an estimated size of five (5) megawatts of alternating-current (AC) nameplate capacity that will generate electric power (the "Project"), as shown on the Site Plans entitled "Proposed Site Plan for Oak Hill 1 and 2", prepared by Environmental Design Partnership, LLP., last revised September 5, 2019 (hereinafter, the "Site Plans"), copies of which are attached as **Schedule A**, on real property owned by the Landowner and leased to the Operator, and more particularly identified hereto in **Schedule B**, and commonly known as 13686 Duanesburg Road Delanson, NY (Tax Map 74.00-2-5) in the Town of Duanesburg, Schenectady County, New York ("the Properties"); and

WHEREAS, on September 5, 2019, based on the Operator's application, and after duly noticed public hearing(s), the Town, by its Planning Board, granted conditional special use and site plan approval (hereinafter "Approval Resolution") for the Project¹, on condition that, among other things, the applicant submit a final decommissioning plan and decommissioning security and that the applicant provided the Town with access to funds for the Decommissioning (as defined below) of the Project; and

WHEREAS, a copy of said Approval Resolution is attached hereto as Schedule C; and

WHEREAS, the Town has enacted Local Law 1-2016, which provides that Decommissioning must occur pursuant to a decommissioning plan, among other requirements (the "Local Law"); and

WHEREAS, the Parties now desire to enter into this Agreement to set forth the "Decommissioning Plan" for the Oak Hill 2 Solar Project attached hereto as Schedule D, as required by the Local Law and the Town Planning Board and to agree upon terms and conditions of the financial surety provided to the Town for the purpose of Decommissioning the Project;

NOW, THEREFORE, in consideration of the promises herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

¹ The Oak Hill Solar 1 project was also approved at this meeting.

- Prior to the issuance of a building permit for the Project (the "Start Date"), the 1. Operator shall post a letter of credit or bond, in form and substance reasonably satisfactory to the Town or deposit cash in escrow with the Town (the "Security") in the amount of \$211,381 for the benefit of the Town. In the event Operator elects to deposit cash in escrow with the Town as the Security, the Parties shall execute the Decommissioning Escrow Agreement attached hereto as Schedule E. The Parties agree that the Security shall be used solely to pay for any Decommissioning costs of the Project. At least 60 days prior to the end of each successive five (5) -year period after the execution of this Agreement, the Operator shall provide the Town with an updated decommissioning plan setting forth an updated estimate for the Decommissioning of the Project, which updated estimate shall be subject to review and approval by the Town, which approval shall not unreasonably be withheld, conditioned or delayed. Within 30 days after the Town's approval of the updated estimate, the Security shall be changed to reflect the updated estimate approved by the Town for such Decommissioning of the Project. Any such updated and approved decommissioning plan shall be deemed the "Decommissioning Plan" hereunder. For avoidance of doubt, the updated estimate will use the estimated decommissioning cost as a template in the updated decommissioning plan. Operator shall have no further payment obligations in connection with Decommissioning during the operation of the Project provided that Operator complies with posting the Security in accordance with this Agreement. Nonetheless, in the event the actual Decommissioning costs incurred by the Town exceed the amount covered by the Security, Operator or its successor in title to the Project shall be responsible for reimbursing the Town for any and all such excess costs, provided that the Town delivers to the Operator a reasonable written record of such costs.
- 2. "Decommissioning" as used in this Agreement shall mean the removal of all collectors, mounts and/or associated equipment and facilities that were installed in connection with the Project and the reasonable restoration of the Properties to either of the following, at the Operator's option ("Decommissioning"): (i) the condition the Properties was in prior to the development, construction and operation of the Project, including restoration, regrading, and reseeding, or (ii) the condition designed by a subsequent Operator or developer as agreed upon with the Town. Costs of Decommissioning under this Agreement include labor, professional services and any other costs reasonably associated with such Decommissioning.
- 3. Each of the circumstances described in clauses (a) and (b) below shall be a "Triggering Event" for purposes hereof:
 - (a) construction of the Project is not completed within eighteen (18) months of receiving a building permit, other than as a result of Force Majeure (defined below), or
 - (b) the Project, after commencing commercial operation, "ceases to be operational" (as defined below) for more than twelve (12) consecutive months.

In the event the Operator fails to initiate Decommissioning of the Project within ninety (90) days of a Triggering Event (the "Decomm Deadline"), or Operator fails to provide a reasonable explanation for the delay in the construction or cessation of operation of the Project by the Decomm Deadline, then, the Town may issue a notice to Operator (the "Town Decommissioning

Notice") and Operator shall have thirty (30) days to respond to the Town Decommissioning Notice with a reasonable explanation for the delay in the construction or the cessation of operation of the Project. In the event that (A) the Operator does not respond to the Town Decommissioning Notice in accordance with the forgoing sentence, or (B) Decommissioning is not completed, within six (6) months after a Triggering Event, then the Town shall have the right, but not the obligation, to commence Decommissioning of the Project through use of the Security.

For purposes of this Agreement, "Force Majeure" means any circumstance not within the reasonable control of the Party affected, but only if and to the extent that: (i) such event is not due to the affected Party's negligence or willful misconduct; (ii) such event is not the result of any failure of the affected Party to perform any of its obligations hereunder; and (iii) the affected Party has given the other Party prompt notice describing such event. Subject to the foregoing conditions, Force Majeure Events include, without limitation: acts of God; war; acts of the public enemy; terrorism; riot; civil commotion; sabotage; fire; floods; landslide; volcanic eruption; epidemics; global pandemics; quarantine restrictions; embargos; and governmental authority decreed official state of emergency.

For the purposes of this Agreement, "ceases to be operational" shall mean no generation of electricity, other than due to Force Majeure, repairs, upgrades, permitting matters, casualty, or other issue regarding the Project that Operator is in good faith attempting to remedy

- 4. The parties hereto acknowledge that the Decommissioning is intended to occur outside the winter months. Upon removal of the infrastructure and disposal of the components of the Project from the Properties, and restoration of the Properties to its pre-project state, or to the condition designed by a subsequent Operator or developer as agreed upon with the Town. Upon completion of Decommissioning, the Operator shall have no further obligation to the Town provided that the costs of the Decommissioning has been paid for in full by the Security or otherwise by or on behalf of the Operator.
- 5. In the event that the Town elects to complete Decommissioning under Section 3, Operator (or its successors or assigns) agrees to give the Town the right of reasonable access to the Properties to Decommission the Project. In the event the leases between Landowner and Operator are terminated or Landowner otherwise has control over the Properties at the time of the Decommissioning, Landowner (or its successors or assigns) agrees to give the Town the right of reasonable access to the Properties in order to perform Decommissioning in accordance with this Agreement.
- 6. This Agreement may not be amended or modified except by written instrument signed and delivered by the Parties. This Agreement is binding upon and shall inure to the benefit of the Parties and their respective successors and assigns. In accordance with the provisions of section 109 of the New York General Municipal Law, Operator is prohibited from assigning, transferring, conveying, subletting or otherwise disposing of this Agreement, or of any right, title or interest in this Agreement, or its power to execute this Agreement, to any other person or corporation without the previous consent in writing of the Town, which consent shall not be unreasonably withheld, conditioned or delayed.

- 7. Operator, or the operations and maintenance provider of the Operator, shall provide the Town with proof that it either carries sufficient workers' compensation insurance coverage for any employees in New York involved in the Decommissioning as required under applicable law or that it is exempt from such requirement.
- 8. The Parties agree to execute and deliver any additional documents or take any further action as reasonably requested by another Party to effectuate the purpose of this Agreement.
- 9. The Parties agree that this Agreement shall be construed and enforced in accordance with and governed by the laws of New York, without regard to its conflict of laws principles. The Parties hereby consent to exclusive venue and jurisdiction in the state and federal courts located in the State of New York. EACH PARTY WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH REGARD TO ANY DISPUTE RELATED HERETO. If one or more of the provisions hereof are deemed by a court of competent jurisdiction to be unenforceable, in whole or in part, the scope of such provisions shall be reduced to the extent necessary to make them enforceable or, if such reduction is not possible for any reason, such provisions shall be severed from this Agreement entirely, without effect upon the balance hereof.
- 10. This Agreement may be executed through separate signature pages or in any number of counterparts, and each of such counterparts shall, for all purposes, constitute one agreement binding on all Parties.
- 11. Any and all notices required to be sent by a Party to another Party hereunder shall be addressed as follows by certified mail or mail courier service:

To the Town:

Town of Duanesburg Attn: Supervisor 5853 Western Turnpike Duanesburg, NY 12056

With a copy to:

Whiteman Osterman & Hanna LLP Attn: Terresa Bakner, Esq. One Commerce Plaza Albany, New York 12260

To Operator:

Oak Hill Solar 2 LLC c/o AMP Solar Development Inc. 1550 Wewatta St., 4th Floor Denver, CO 80202

With an electronic copy to:

jdonald@amp.energy

To Landowner:

Richard Murray1206 Oak Hill Rd. Esperance, NY 12066

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned, intending to be legally bound hereby, have duly executed this Agreement as of the date first written above.

| TOV | VN: |
|----------------|---|
| Town | n of Duanesburg |
| 1 | Name: Roger Tidball Fitle: Town Supervisor |
| | RATOR: |
| Oak I | Hill Solar 2 LLC |
| | AMP Solar Development Inc. Manager |
| _ | |
| Name | e: David Rogers President |
| LANI | DOWNER: |
| By: _ | |
| Name Title: | |

Schedule A

Site Plan

Schedule B Description of Properties

Schedule C

Approval Resolution

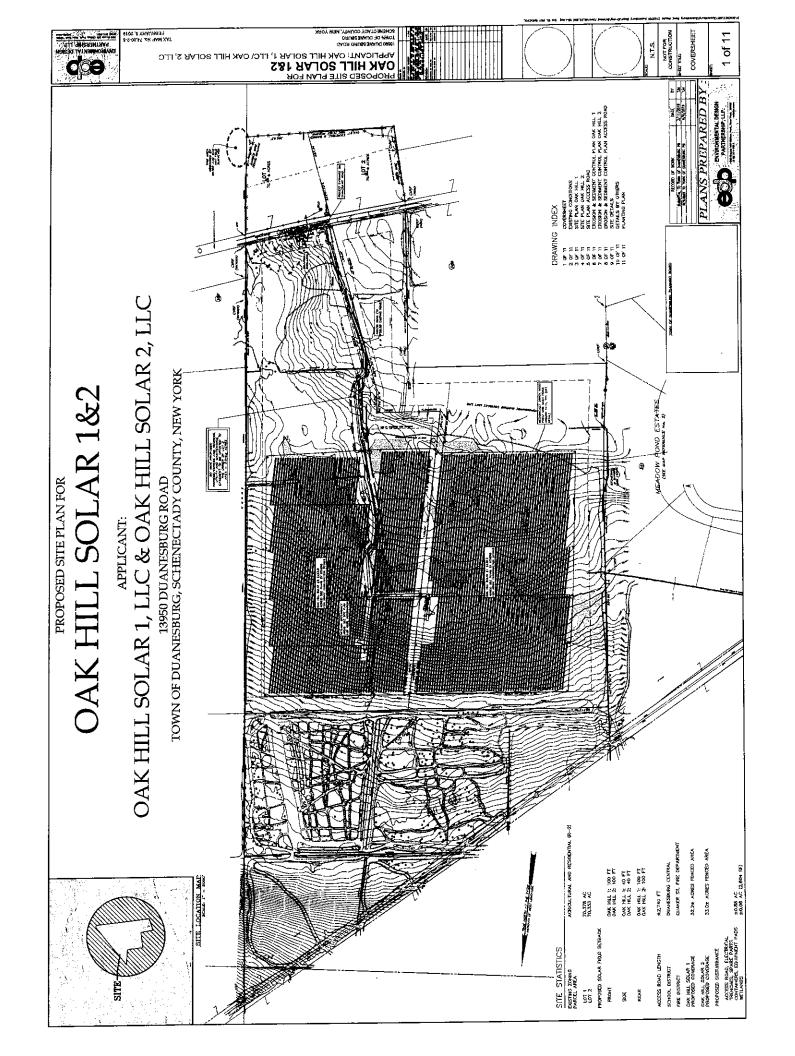
Schedule D

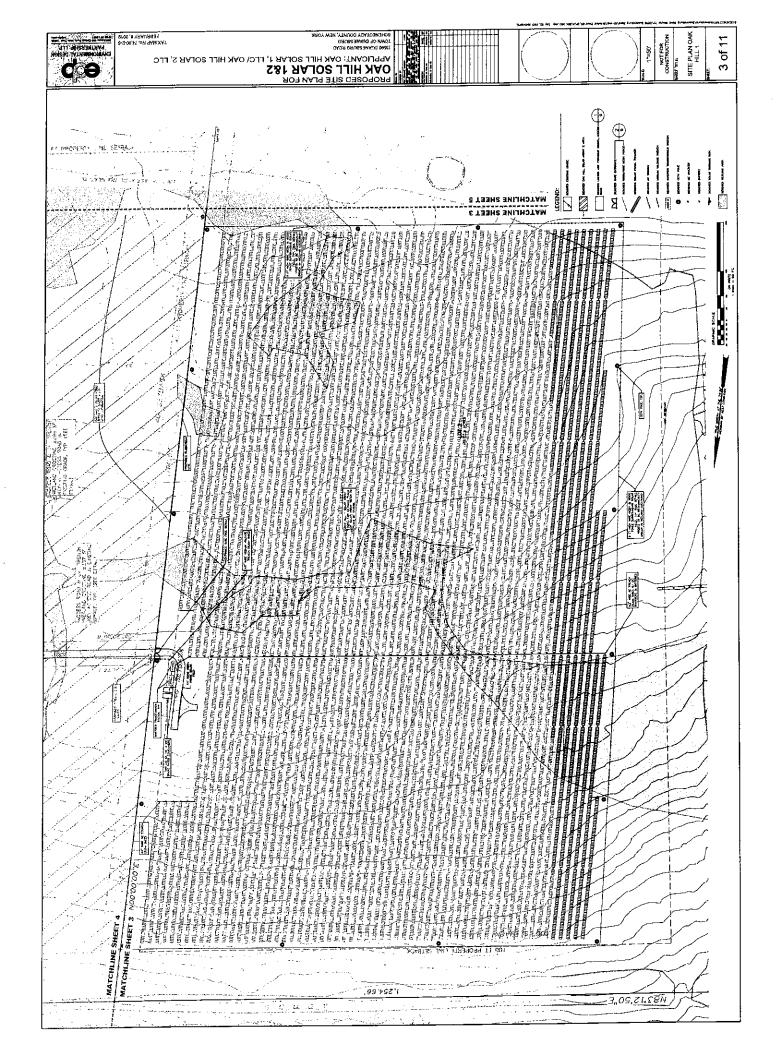
Decommissioning Plan

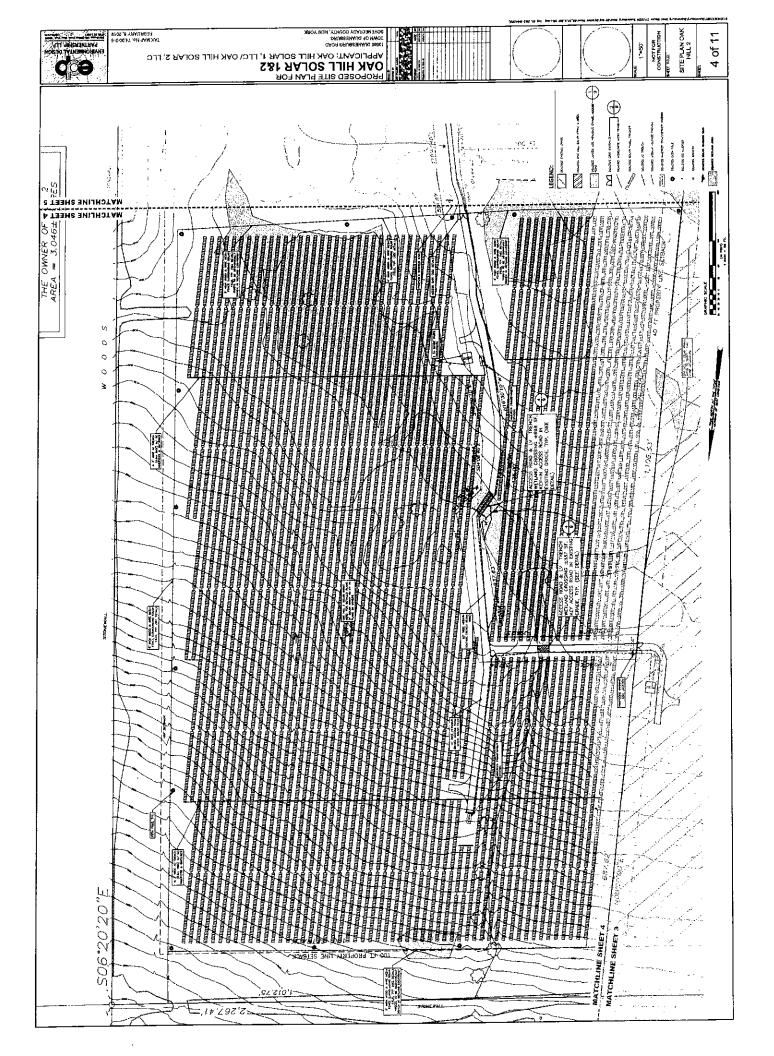
Schedule E

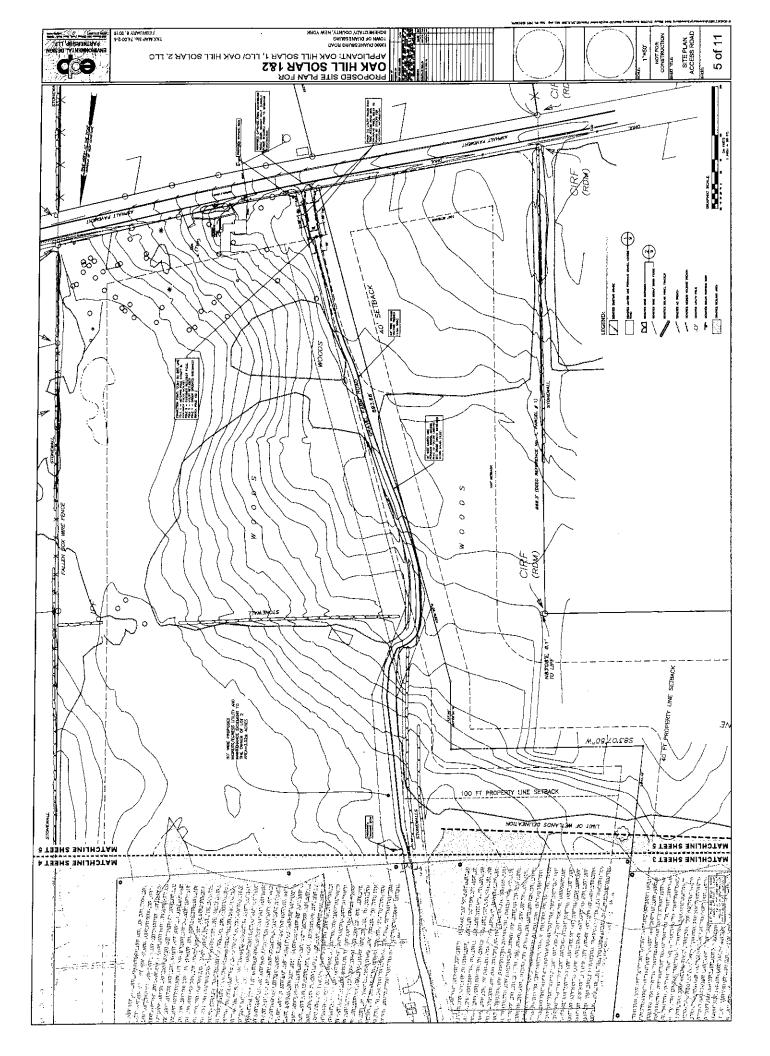
Form of Decommissioning Escrow Agreement

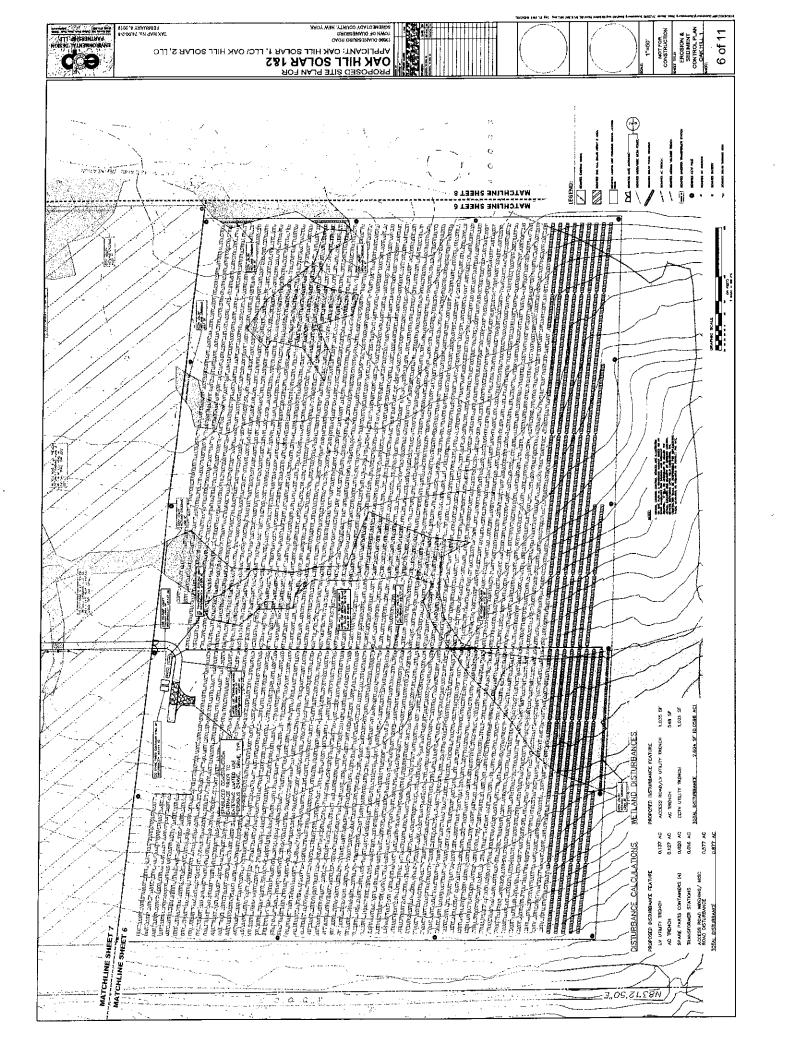
SCHEDULE A

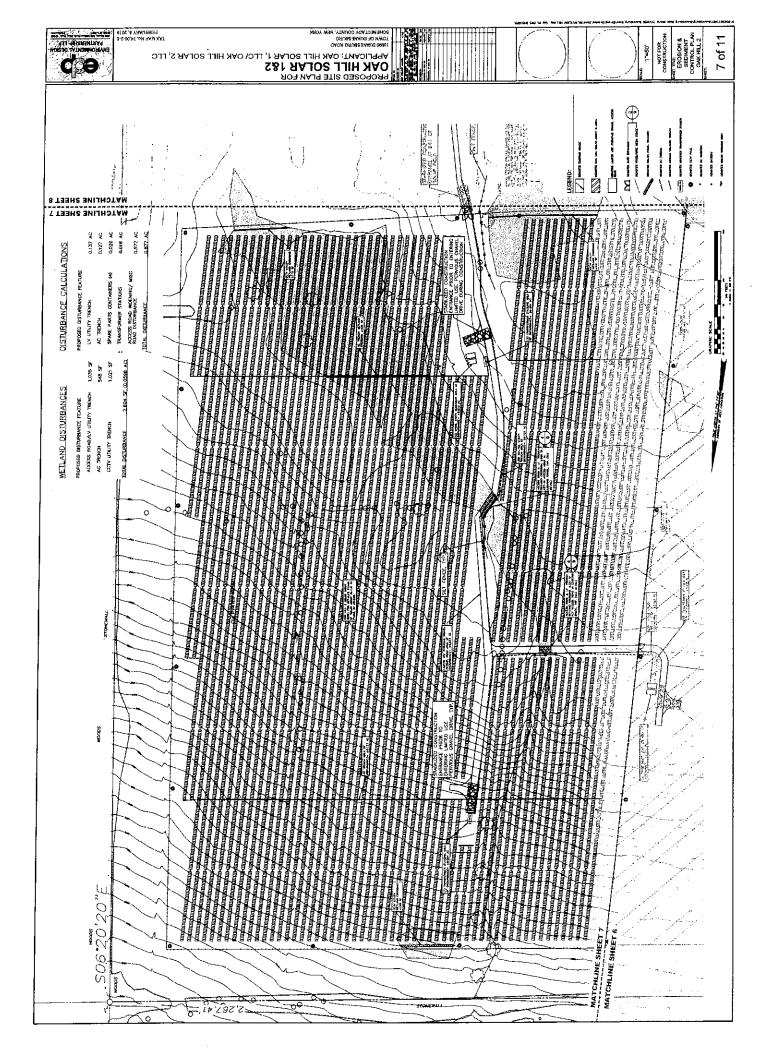


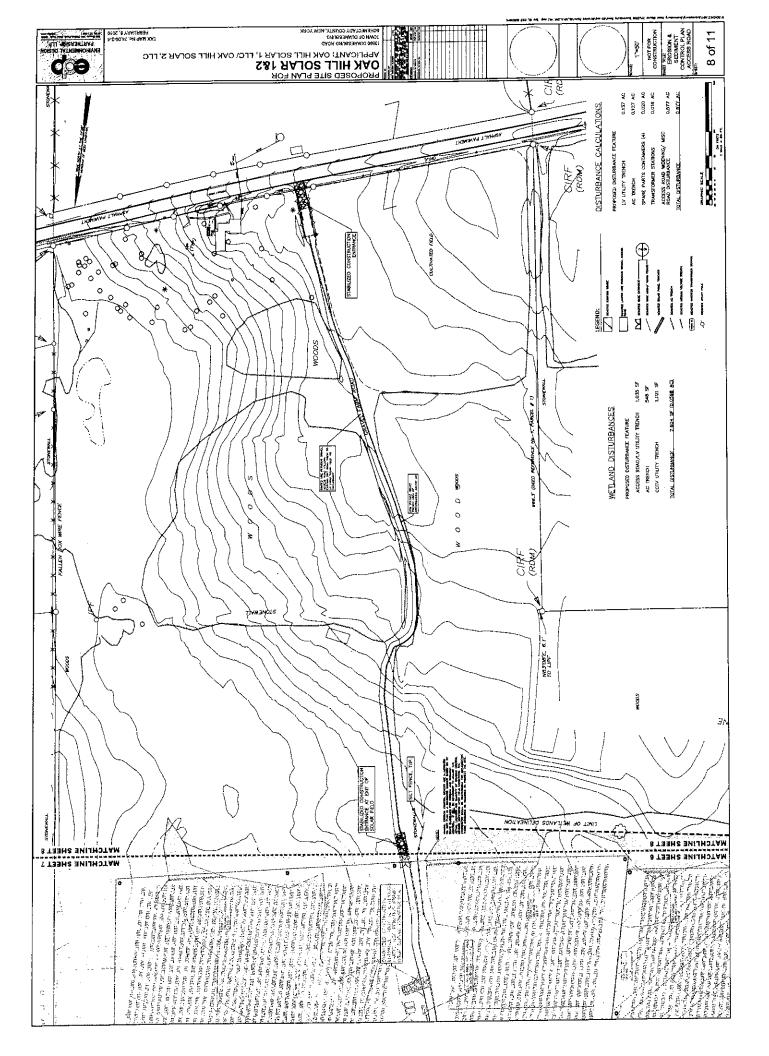












SCHEDULE B



SUGGESTED DESCRIPTION LEASE PARCEL TO BE LEASED TO OAK HILL SOLAR 1, LLC WITHIN A PRORTION OF LOT 2 OF LANDS OF RICHARD B. MURRAY TOWN OF DUANESBURG, NY

LEASE PARCEL THROUGH ALL THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 2, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

Commencing at the point of intersection of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) with the common division line of Lot 1 to the east and Lot 2 to the west as shown on said map;

Thence from said Point of Commencement along said common division line the following four (4) courses and distances:

- 1) North 22 deg. 01 min. 20 sec. West, 1,048.32 feet to a point;
- 2) North 07 deg. 06 min. 20 sec. West, 137.50 feet to a point;
- 3) South 83 deg. 07 min. 50 sec. West, 399.88 feet to a point;
- 4) North 00 deg. 00 min. 00 sec. East, 253.78 feet to the **Point of Beginning** of the herein described *lease parcel* of land;

Thence from said Point of Beginning through said Lot 2 the following four (4) courses and distances:

- 1) South 83 deg. 12 min. 50 sec. West, 883.00 feet to a point;
- 2) North 05 deg. 06 min. 10 sec. West, 890.50 feet to a point;
- 3) North 03 deg. 06 min. 30 sec. West, 590.66 feet to a point;
- 4) North 83 deg. 12 min. 50 sec. East, 995.00 feet to a point in the aforesaid common division line of Lot 1 to the east and Lot 2 to the west as shown on said map;

Thence along said common division line, South 00 deg. 00 min. 00 sec. West, 1,490.00 feet to the point or place of beginning of said lease parcel and containing 32.104± acres of land.

(P) 518.371.7621 (F) 518.371.9540 edpllp.com

TOGETHER WITH A 50-FOOT WIDE UTILITY & MAINTENACE, INGRESS/ EGRESS AND REGRESS, EASEMENT THROUGH THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying along the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

Beginning at the point of intersection of the northerly line of Duanesburg Road, NYS Route7 (State Highway No. 1029) with the common division line of Lot 2 to the west and Lot 1 to the east as shown on said map;

Thence from said Point of Beginning and along said common division line, North 22 deg. 01 min. 20 sec. West, 893.68 feet to a point;

Thence through said Lot 1 the following seven (7) courses and distances:

- 1) North 14 deg. 45 min. 20 sec. East, 195.87 feet to a point;
- 2) North 10 deg. 43 min. 40 sec. West, 251.17 feet to a point;
- 3) North 16 deg. 30 min. 10 sec. West, 554.76 feet to a point;
- 4) North 04 deg. 08 min. 40 sec. West, 125.00 feet to a point;
- 5) North 39 deg. 45 min. 00 sec. East, 65.00 feet to a point;
- 6) North 15 deg. 04 min. 40 sec. West, 237.63 feet to a point;
- 7) South 83 deg. 20 min. 00 sec. West, 290.23 feet to a point in said common division line of Lot 2 to the west and Lot 1 to the east;

Thence along said common division line, North 00 deg. 00 min. 00 sec. East, 50.34 feet to a point; Thence through said Lot 1 the following eight (8) courses and distances:

- 1) North 83 deg. 20 min. 00 sec. East, 327.54 feet to a point;
- 2) South 15 deg. 04 min. 40 sec. East, 306.71 feet to a point;
- 3) South 39 deg. 45 min. 00 sec. West, 70.78 feet to a point;
- 4) South 04 deg. 08 min. 40 sec. East, 99.44 feet to a point;
- 5) South 16 deg. 30 min. 10 sec. East, 551.87 feet to a point;
- 6) South 10 deg. 43 min. 40 sec. East, 265.00 feet to a point;

Shaping the physical environment

- 7) South 14 deg. 45 min. 20 sec. West, 190.56 feet to a point;
- 8) South 22 deg. 01 min. 20 sec. East, 881.42 feet to a point in said northerly line of Duanesburg Road;

Thence along said northerly line of said Duanesburg Road, South 72 deg. 57 min. 40 sec. West, 50.19 feet to the point or place of beginning of said easement and containing 3.046± acres of land.

Said lease parcel and easement made subject to any and all enforceable covenants, conditions, easements and restrictions of record as they may appear.

December 5, 2019

Prepared By: Timothy J. McAlonen, PLS/ZMB



Oak Hill | Lease Parcel Description.doox



SUGGESTED DESCRIPTION LEASE PARCEL TO BE LEASED TO OAK HILL SOLAR 2, LLC WITHIN A PORTION OF LOT 1 OF LANDS OF RICHARD B. MURRAY TOWN OF DUANESBURG, NY

LEASE PARCEL THROUGH ALL THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

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Thence from said Point of Commencement along said common division line the following four (4) courses and distances:

- 1) North 22 deg. 01 min. 20 sec. West, 1,048.32 feet to a point;
- 2) North 07 deg. 06 min. 20 sec. West, 137.50 feet to a point;
- 3) South 83 deg. 07 min. 50 sec. West, 399.88 feet to a point;
- 4) North 00 deg. 00 min. 00 sec. East, 225.78 feet to the **Point of Beginning** of the herein described *lease parcel* of land;

Thence from said Point of Beginning continuing along said common division line, North 00 deg. 00 min. 00 sec. East, 1,518.00 feet to the point;

Thence through said Lot 1 the following four (4) courses and distances:

- 1) North 83 deg. 12 min. 50 sec. East, 908.00 feet to a point;
- 2) South 05 deg. 58 min. 10 sec. East, 1,476.00 feet to a point;
- 3) South 83 deg. 43 min. 10 sec. West, 724.00 feet to a point;
- 4) South 83 deg. 12 min. 50 sec. West, 343.00 feet to the point or place of beginning of said *lease* parcel and containing 33.891± acres of land.

TOGETHER WITH AND SUBJECT TO A 50-FOOT WIDE UTILITY & MAINTENANCE, INGRESS/EGRESS AND REGESS EASEMENT THROUGH THAT CERTAIN TRACT, PIECE OR PARCEL OF LAND SITUATE in the Town of Duanesburg, County of Schenectady, State of New York lying north of the northerly line of Duanesburg Road, NYS Route 7 (State Highway No. 1029) and within a portion of Lot 1, said lot as shown on a map entitled "Survey and Minor Subdivision of Lands of Richard B. Murray", dated July 29, 2019 as prepared by The Environmental Design Partnership, LLP and filed in the Schenectady County Clerk's Office on October 8, 2019 in Plat Cabinet "P" as Map No. 39 (Doc No. 2019-39) and being further bounded and described as follows:

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Thence from said Point of Beginning and along said common division line, North 22 deg. 01 min.

20 sec. West, 893.68 feet to a point;

Thence through said Lot 1 the following seven (7) courses and distances:

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- 2) North 10 deg. 43 min. 40 sec. West, 251.17 feet to a point;
- 3) North 16 deg. 30 min. 10 sec. West, 554.76 feet to a point;
- 4) North 04 deg. 08 min. 40 sec. West, 125.00 feet to a point;
- 5) North 39 deg. 45 min. 00 sec. East, 65.00 feet to a point;
- 6) North 15 deg. 04 min. 40 sec. West, 237.63 feet to a point;
- 7) South 83 deg. 20 min. 00 sec. West, 290.23 feet to a point in said common division line of Lot 2 to the west and Lot 1 to the east;

Thence along said common division line, North 00 deg. 00 min. 00 sec. East, 50.34 feet to a point; Thence through said Lot 1 the following eight (8) courses and distances:

- 1) North 83 deg. 20 min. 00 sec. East, 327.54 feet to a point;
- 2) South 15 deg. 04 min. 40 sec. East, 306.71 feet to a point;
- 3) South 39 deg. 45 min. 00 sec. West, 70.78 feet to a point;
- 4) South 04 deg. 08 min. 40 sec. East, 99.44 feet to a point;
- 5) South 16 deg. 30 min. 10 sec. East, 551.87 feet to a point;
- 6) South 10 deg. 43 min. 40 sec. East, 265.00 feet to a point;

(P) 518,371,7621 (F) 518,371,9540 edplip.com

Shaping the physical environment

- 7) South 14 deg. 45 min. 20 sec. West, 190.56 feet to a point;
- 8) South 22 deg. 01 min. 20 sec. East, 881.42 feet to a point in said northerly line of Duanesburg Road;

Thence along said northerly line of said Duanesburg Road, South 72 deg. 57 min. 40 sec. West, 50.19 feet to the point or place of beginning of said easement and containing 3.046± acres of land.

Said *lease parcel* and *easement* made subject to any and all enforceable covenants, conditions, easements and restrictions of record as they may appear.

December 5, 2019

Prepared By: Timothy J. McAlonen, PLS/ZMB



Ouk Hill 2 Lease Parcel Description.docx

SCHEDULE C

Phillip Sexton, Planning Board Chair Dale Warner, Town Planner Melissa Deffer, Clerk Terresa Bakner, Board Attorney



Jeffrey Schmitt, Vice Chairperson Elizabeth Novak, Board Member Martin Williams, Board Member Thomas Rulison, Board Member Michael Harris, Board Member Joshua Houghton, Board Member

Town of Duanesburg Planning Board Minutes October 17th, 2019 **Final Copy**

MEMBERS PRESENT: Phillip Sexton Chairman, Jeffery Schmitt Vice Chairman, Elizabeth Novak, Martin Williams, Thomas Rulison and Michael Harris. Also, in attending Dale Warner Town Planner, and Melissa Deffer Clerk.

INTRODUCTION: Chairman Phillip Sexton opened the meeting at 7:00pm. Phillip welcomed everyone to tonight's Planning Board meeting.

PLEDGE OF ALLEGIANCE:

OPEN FORUM: Chairman Sexton opened the forum at 7:01

Bruce O'Day of 5394 Western Turnpike wanted to state on the record that he is supporting the Andrew Lucks application.

Lynn Bruning located at 13388 Duanesburg Rd wanted to know what the status of the Comprehensive Plan?

Chairmen Sexton explained to Lynn that they have been working on the Plan for just over a year now and how in the near future he will be asking the public for comments.

Harris/Rulison made the motion to close the open forum at 7:07. Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Sexton yes. Approved.

SKETCH PLAN REVIEW:

PUBLIC HEARINGS:

#19-13 Lucks Andrew: SBL#66.00-3-4.1, (H) located at 5456 Western Turnpike is seeking a Special Use Permit for a retail business under the Town of Duanesburg Zoning Ordinance

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Over→

adopted 6/11/15 under section 9.4.(15). Andrew Lucks gave his presentation to the board. Andrew is looking to relocate his business Outlander Survival from 6721 Duanesburg Rd to 5456 Western Turnpike. They will be in the same zone as they are in now. Andrew explained to the public how he will upgrade the building with security Systems and bars on all doors and windows (as a smash and grab is one of their main concerns), fix the parking lot and eventually reface the building. All lights on the building will be down cast with some solar lights around the driveway. Andrew is leasing for now from Bruce O'Day who will be going to have the property subdivided. Once the property is subdivided Andrew will be purchasing.

Cheryl Schrade 1619 Eaton Corners Rd asked Andrew if they will be test firing guns on the property. Andrew explained to Mrs. Schrade that with his business they do not test fire any weapons.

Harris/Rulison made a motion to close the Public Hearing for the #19-13 Lucks Andrew application at 7:09.

Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Sexton yes. Approved.

Novak/Sexton made a motion to approve the #19-13 Lucks. Andrew application for a Special Use Permit for a retail business under the Town of Duanesburg Zoning Ordinance adopted 6/11/15 under section 9.4.(15) contingent on down cast lighting. Novak yes, Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. Approved.

New Business:

#19-14 Perog. Steven and Cheryl: SBL#43.00-2-28, (R-2) located at 21 Lea Drive is seeking a Special Use Permit for a two family dwelling adding a single apartment over an existing garage under the Town of Duanesburg Zoning Ordinance adopted 6/11/15 under section 15.4(I); section 8.4(8); section 13.2.1; section 3.5.60. Steven gave some of his presentation to the board. Due to not enough information the board decided to table it until the November 21st meeting.

Sexton/Harris made a motion to table the <u>#19-14 Perog. Steven and Cheryl</u> application to the November 21st meeting.
Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. **Approved.**

Old Business:

None

Sketch Plan Review:

#19-15 O'Neil. Paul/O'Neil. Gerald: SBL#43.00-1-14.31, (R-2) located at 327 Hardin Road is seeking a minor subdivision under section 3.4 of the Town of Duanesburg Subdivision Ordinance. They would like to divide an existing lot of 34.30 acres into two portions lot #1 located on Hardin Road is 6.82 (+-) lot #2 located on State Highway 30 is 27.475 acres. Shannon O'Neil gave her presentation on behalf of her father Paul O'Neil.

Sexton/Williams made a motion to exempt the minor subdivision application from further planning Board review and refer to the Code Enforcement Officer to complete administratively as the proposed action neither creates nor increases any significant planning issues with respect to the existing or potential future use of any involved parcels. Sexton yes, Williams yes, Rulison yes, Harris yes, Schmitt yes, Novak yes. **Approved.**

OTHER:

#19-12 Murray. Richard/Eden Renewables: SBL# 74.00-2-5, (R-2) located 1206 Oak Hill Rd Under Local Law # 1-2016 of the Town of Duanesburg Zoning Ordinance Resolution revision.

Sexton/Rulison made a motion to amend the resolution approving the project to show the correct amount of lot coverage as shown on the site plans which were approved for the solar project for the #19-12 Murray. Richard/Eden Renewables application. Bullet 3B will now show that Lot 1 contains 70.378 acres with 32.8 acres of coverage which is 46 percent and that Lot 2 contains 70.353 acres with 33.0 acres of coverage which is 47 percent.

Sexton yes, Rulison yes, Williams yes, Novak yes, Schmitt yes, Harris yes. Approved.

MINUTES APPROVAL:

Novak/Harris made the motion to approve the September 19th, 2019 Planning Board minutes with minor corrections.

Novak yes, Harris yes, Sexton yes, Schmitt yes, Williams yes, Rulison yes, APPROVED.

Sexton/Harris made a motion to go into executive session to discuss the enforcement action with the CEO associated with #19-14 Perog. Steven and Cheryl application. Sexton yes, Harris yes, Rulison yes, Williams yes, Novak yes, Schmitt yes. Approved.

Sexton/Harris made a motion to come out of executive session.

Sexton yes, Harris yes, Rulison yes, Schmitt yes, Williams yes, Novak yes. Approved. NO ACTION WAS TAKEN BY THE BOARD DURING OR AFTER the EXECUTIVE Session.

ADJOURNMENT:

Harris/Novak made the motion to adjourn at 7:50pm.
Harris yes, Novak yes, Schmitt yes, Sexton yes, Rulison yes, Houghton yes, Williams yes.
APPROVED.

TOWN OF DUANESBURG PLANNING BOARD RESOLUTION APPROVING SPECIAL USE PERMIT, SUBDIVISION AND SITE PLAN FOR THE EDEN RENEWABLES OAK HILL SOLAR ENERGY PROJECTS – 1206 OAK HILL ROAD

Date: September 19, 2019

WHEREAS, on or about May 7, 2018, Eden Renewables ("Eden Renewables" or the "Applicant") applied to the Duanesburg Planning Board ("Planning Board") for a Special Use Permit and Site Plan Review pursuant to the Town of Duanesburg Local Law No. 1-2016, for the 5-MW Oak Hill Solar Energy Projects 1 and 2 (collectively, the "Project") to be located at 1206 Oak Hill Road in the Town of Duanesburg, Schenectady County, New York on the lands owned by Richard Murray (SBL# 74.00-2-5) ("Property"); and

WHEREAS, on or about May 17, 2018, the Applicant appeared before the Planning Board in furtherance of the proposed Project and the Planning Board requested that the Applicant meet with the Town Planner/Code Enforcement Officer to discuss the proposed application; and

WHEREAS, on or about July 18, 2018, the Applicant appeared before the Planning Board and requested a lot line adjustment and minor subdivision in order to install two 5-MW solar fields on each created parcel, in addition to the Special Use Permit sought pursuant to the Town of Duanesburg Local Law No. 1-2016; and

WHEREAS, on or about July 18, 2018, the Planning Board adopted a resolution pursuant to the State Environmental Quality Review Act [ECL Article 8 and its implementing regulations at 6 NYCRR Part 617, collectively referred to as "SEQRA"] in which it assumed the role of SEQRA Lead Agency, declared the proposed action as a Type 1 action and conducted a coordinated review;

WHEREAS, on or about August 16, 2018, the Planning Board adopted a resolution appointing Doug Cole of Prime AE Group of NY as the Town Designated Engineer to assist in its review of the application from Eden Renewables; and

WHEREAS, on or about September 11, 2018, the Town's Designated Engineer provided written comments on the application; and

WHEREAS, on or about March 11, 2019, the Applicant submitted revised site plans, minor subdivision and lot line adjustment plans, revised applications, a revised Full Environmental Assessment Form ("Full EAF"), and a decommissioning plan, accompanied by a letter addressing comments from the Town's Designated Engineer; and

WHEREAS, on or about March 21, 2019, the Applicant appeared before the Planning Board in furtherance of the site plan review process, and the Planning Board requested receipt of additional information and other actions from the Applicant; and

WHEREAS, on or about June 6, 2019, the Applicant submitted additional Information to the Planning Board and addressed the outstanding actions identified by the Planning Board; and

WHEREAS, on or about June 20, 2019, the Planning Board reviewed the materials submitted by the Applicant, issued a negative declaration of environmental significance for this Type 1 action, after reviewing Part 1 of the EAF and completing Parts 2 and 3 of the EAF, and scheduled the Public Hearing for July 18, 2019; and

WHEREAS, on or about July 11, 2019, acting on a referral of the application from the Planning Board pursuant to GML § 239-m, County Planning recommended approval of the Project;

WHEREAS, on July 18 and August 16, 2019, the Planning Board held two well-attended public hearings on the applications and heard comments for and against the Project;

WHEREAS, the Planning Board directed the applicant to respond in writing to the public comments and the applicant submitted two sets of responses after each public hearing;

WHEREAS, the Planning Board directed the Town Designated Engineer, Mr. Cole of Prime AE to review the responses to the public comments and the additional information submitted by the Applicant, all as set forth in Mr. Cole's letter of September 10, 2019 providing comments on the Applicant's materials and recommending that the Town should condition any approval on the Applicant obtaining a permit from the US Army Corps of Engineers, if one is required by the agency, advising that the supplementary Visual Impact Assessment demonstrates that the existing Biggs and Otis and any other nearby residences will be adequately screened by existing vegetation, distance and topography such that the solar array will not be visible; and finding that the revised Decommissioning Plan is reasonable for the proposed system; and

WHEREAS, the Planning Board has carefully considered the documentation in the record including the supplemental information provided by the Applicant, the comments by involved and interested agencies, the recommendation of County Planning and the comments, both oral and written, by the members of the public;

NOW, THEREFORE, BE IT RESOLVED, by the Planning Board as follows:

- That the applications for Minor Subdivision, Site Plan Review and Special Use Permit submitted by the Applicant for the Project were determined to be complete under the Town of Duanesburg Solar Law, the Duanesburg Zoning Law, and the Town of Duanesburg Subdivision Regulations; and
- 2. That having received and reviewed the application materials submitted by the Applicant, including but not limited to, site plans, subdivision plans, lot line adjustment plans, decommissioning plans, a Full Environmental Assessment Form, statements of proposed construction impacts and ongoing operation and maintenance, and having completed Parts 2 and 3 of the Full EAF, hereby determines that the Project will not have a significant adverse impact on the environment (as duly noted in the Full EAF) and, therefore, hereby confirms and issues a Negative Declaration as set forth in the EAF Part 3 and its attached reasons supporting the determination read into the record and incorporated herein based on the following findings;
 - a. The Project will not have any significant impacts on federal wetlands or waterbodies as determined by the full wetland defineation conducted on the Project site, that any necessary approvals would be covered by the ACOE nationwide permit program, and that there are no impacts on State wetlands or streams;
 - b. The Project will not create any permanent impacts from odors, noise or traffic nor to groundwater and surface waters, there will only be insignificant and temporary impacts during construction;

- c. The Project avoids and/or minimizes impacts on plants and animals, due to the very limited vegetative clearing that will result from the Project, once construction is complete vegetation will cover the ground under the panels and the property will continue to be used for limited agricultural purposes, such as sheep grazing and bee keeping;
- d. The Project will not create any impacts to historical or cultural resources as shown in the Letter of No Effect from the New York State Office of Parks, Recreation, and Historic Preservation dated June 4, 2019:
- e. The Project will minimize any visual impacts due to the existing topography, the retention of existing vegetation as shown on the final site plans and will not create any impacts from glare as demonstrated by the Applicant;
- f. The Planning Board hereby requires that the Project provide evergreen landscaping plan showing the establishment of a substantial evergreen buffer on the Applicant's property within 10 feet of the property boundary currently containing houses within approximately 600 feet of the project site boundary for a length of approximately 1600 feet at the back of the parcel with 2 staggered rows of trees planted 20 feet on center with the trees having the height at the time of planting of 6 to 7 feet and with the trees being species spruce and fir evergreens. The applicant shall also provide a maintenance and replacement agreement for the evergreen buffer to be planted;
- g. The Project does not impact any Critical Environmental Areas and is not located in a flood zone;
- h. The Project will have a positive economic benefit as it will result in revenue to the Town pursuant to a Payment-In-Lieu-Of-Taxes ("PILOT") Agreement and it will result in jobs during the construction and operation of the facility;
- i. The Project will provide renewable energy in the production of electricity and will contribute to the State's goal of replacing fossil fuel generated electricity with renewable sources of electricity;
- j. The Project will also not change the community character as it has been sited to not be visible to the maximum extent possible to surrounding homes and roadways, and an evergreen landscaped buffer will be created on the property containing the project as set forth above;
- k. The Project is also a use of land that will be discontinued in the future and as such a decommissioning plan is in place to return the property to its current condition; and
- The Applicant has indicated that it intends to continue to have the property in agricultural uses, such
 as sheep grazing and beekeeping, which also makes it consistent with the community which contains
 agricultural uses.
- 3. That Planning Board's findings set forth below demonstrate the proposed construction of the Project, a Solar Energy System (Major), at the Property satisfies the requirements of the Town of Duanesburg Solar Law:
 - a. The Project is in the R-2 Zoning District and as such is a permitted use subject to Special Use Permit and Site Plan approval by the Planning Board;
 - b. The projects are located on parcels in excess of 97.24 and 87.18 acres and when constructed will have a lot coverage of 45.71 and 45.63 acres, respectively, thereby satisfying the lot coverage limitation of 60%;
 - c. The Project provides the required 100' setback between its components and the boundary of the Property, provides the required minimum of 25' buffer of vegetation to screen views of the Project and, in fact, that the Project exceeds this standard to address the concerns of adjoining property owners;
 - d. A fence meeting or exceeding the applicable requirements of the Zoning Law has been proposed;
 - e. The Project preserves existing on site vegetation to the maximum extent practicable and does not propose to clear cut all trees in a single contiguous area exceeding 20,000 square feet on the property:
 - f. The Town of Duanesburg Planning Board reviewed the plans showing brush hogging and tree clearing that had been undertaken by the property owner and determined such tree clearing did not exceed the above requirement;

- g. The SEQRA regulations require that a project sponsor may not commence any physical alteration related to an action until the provisions of SEQR have been complied with and the Planning Board specifically finds that the property owner brush hogging the property and taking down some limited trees for agriculture and silviculture purposes was consistent with the past uses of the property and not directly related to the development of the solar farm;
- h. The Project is not located within an active farm field but is vacant hay field periodically cut by the property owner and historically used for more intensive agricultural purposes;
- Native grasses and vegetation will be maintained below the arrays;
- j. The site plans demonstrate that the Project:
 - Provides through its siting and through the implementation of an evergreen landscaping plan to be approved by the Town of Duanesburg, a project design that minimize visual impacts from public roads and existing residential dwellings on contiguous parcels to the satisfaction of the Planning Board;
 - ii. layout ensures that the solar panels will not reflect solar radiation or glare onto adjacent buildings, properties and roadways and that the solar panels include a non-glare coating and are designed to absorb the maximum amount of solar rays such that the panels will not misdirect or reflect solar rays onto neighboring properties or public roads in excess of that which already exists:
 - iii. existing vegetation on the site is preserved to the maximum extent practicable;
 - iv. all transmission/interconnection lines on the Property shall be underground and within necessary easements and in compliance with applicable electrical and town codes excepting aboveground lines as required by National Grid;
 - v. no artificial lighting is proposed;
 - vi. that any signage will be in accordance with applicable town requirements and the manufacturers and/or installers identification and appropriate warning signage shall be posted;
 - vii. the average height of the solar panels are 8' feet above grade below the 20' height limitation;
 - viii. all disturbed areas shall be restored in accordance with the zoning law's requirements.
- 4. That the decommissioning plan is approved and the Planning Board requires that financial security be provided at least 30 days prior to the commencement of construction to the Town Clerk by the Applicant in the form of a bond or letter of credit in the amount \$422,762.00 (\$211,381.00 per project) with the form of financial security acceptable to the Town's attorney, with such funds to be used for decommissioning of the Project in the event that the Project is not decommissioned by the Project owner or the landowner; and
- That this project approval is conditioned upon the Applicant obtaining any other State or federal approvals
 required for the project including but not limited to any such permits required by the NYSDEC, the USACOE
 and the NYSDOT; and
- 6. That this resolution and negative declaration shall be filed in the office of the Town Clerk and shall take effect immediately and that the notice of negative declaration be published in the ENB, that the negative declaration be provided to all involved agencies and that it be filed as required by SEQRA.

| Roll Call Vote; | <u>Yes</u> | <u>No</u> | Abstain/Absent |
|-----------------|------------|-----------|----------------|
| Phillip Sexton | ~ | | |
| Jeffrey Schmitt | ~ | | |
| Elizabeth Novak | ✓ | | |
| Martin Williams | ~ | | |
| Thomas Rulison | ~ | | |
| | | | |

Michael Harris Joshua Houghton

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SCHEDULE D

OAK HILL COMMUNITY SOLAR 1 AND 2 DECOMMISSIONING STATEMENT

D ORIGINAL

ENTERED 019/5/19

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| | ESTABLISHMENT OF DECOMMISSIONING FUND |
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ENTERED 019, 5/19 BY DW 3:35

1. INTRODUCTION

Oak Hill Solar 1 & 2, LLC (the "Applicant"), a New York limited liability company, hereby submits this plan for the eventual decommissioning of the two proposed 5 MWAC/7.5 MWDC community solar electric generation facilities located at 13950 Duanesburg Road, Delanson, NY 12053, in the Town of Duanesburg (the "Town") within Schenectady County in New York State (the "Projects") and the establishment of a decommissioning fund (the "Decommissioning Fund") for review as part of the "Solar Energy Facilities Law" as adopted by the Town of Duanesburg through Resolution NO. 107-2016 (the "Solar Bylaw"), before the planning board of the Town of Duanesburg (the "Board").

A site location plan is provided at Appendix 1 for reference.

2. DECOMMISSIONING ACTIVITIES

The Projects are anticipated to operate for 25-30 years. At the time the Projects ceases to operate, Applicant will perform decommissioning which shall include removal of all energy facilities, structures and equipment including any subsurface wires and footings from the parcel. Any access roads created for building or maintaining the system shall also be removed and re-planted with vegetation. The solar panels and all other equipment removed from the project site, unless being reused or repurposed for another project, shall be recycled in accordance with all applicable New York State policies and procedures in effect at the time of decommissioning.

Further, decommissioning will include restoring the property to its pre-installed condition, including grading and vegetative stabilization to eliminate any negative impacts to surrounding properties. Specifically, such decommissioning shall include, but is not limited to, physical removal of all ground-mounted solar collectors, structures, equipment, security barriers and transmission lines from the site.

3. COST OF DECOMMISSIONING

The fully inclusive cost to decommission each Project, as defined in Section 2 herein, is estimated at \$211,381 (the "Estimated Decommissioning Cost"), as detailed in Appendix 2.

The Estimated Decommissioning Cost shall be adjusted annually to account for inflation, based upon the current Consumer Price Index ("CPI') as maintained by the Bureau of Labor Statistics (the "Revised Estimated Decommissioning Cost").

4. ESTABLISHMENT OF DECOMMISSIONING FUND

The Decommissioning Fund will be funded with either (I) a surety bond (the "Bond") or (ii) an irrevocable standby Letter of Credit (the "LC") that is solely for the benefit of the Town. No other entity, including Applicant, shall have the ability to demand payment under the Decommissioning Fund. A draft LC form is attached to this Plan as Appendix 4. The LC or other Board-approved financial security, shall be in place and filed with the Board prior to commencement of construction.

Every five years and for the Project's life, Applicant shall file a report with the Board on the effect of the annual inflation adjustment, as noted above, including a Revised Estimated Decommissioning Cost. If the Revised Estimated Decommissioning Cost exceeds the then current Estimated Decommissioning Cost, Applicant shall create a new or amended Bond (or other appropriate financial security) to be issued to reflect the Revised Estimated Decommissioning Cost. In the event the CPI has a negative value at the time the annual adjustment is calculated, the value of the Bond (or other appropriate financial security) shall not be reduced.

At the end of the Project's useful life, and in the event Applicant does not seek Board approval to repower the Project, Applicant will decommission the Project as required under the Board's Solar Bylaw. Upon completion of decommissioning, Applicant shall seek a certification of completion from the Board. The certification will be provided to the issuing bank with instructions to terminate the LC (or another appropriate financial security).

The Board shall have the right to draw on the LC (or other appropriate financial security) to pay the costs of decommissioning in the event that Applicant (or its successor) is unable or unwilling to commence decommissioning due to dissolution, bankruptcy, or otherwise. Prior to the Board drawing on the LC (or other appropriate financial security), Applicant shall have a reasonable period of time to commence decommissioning, not to exceed ninety days following issuance of a Board order requiring decommissioning of the Project.

5. DEMOLITION INSTRUCTIONS

The following list is the sequential procedure that should be followed by the town for removal of the system pursuant to this plan:

a. Project Component Removal
All control cabinets, electronic components, and internal cables will be removed
along with the panels, racks, and inverters. These components will be lowered to the
ground where they will be transported whole for reconditioning and reuse, or
disassembled/cut into more easily transportable sections for salvageable, recyclable,
or disposable components.



PV Module Removal

The Project's solar photovoltaic panels are manufactured according to the regulatory toxicity requirements based on the Toxicity Characteristic Leaching Procedure (TCLP), Under these regulations, solar panels are not considered hazardous waste. The panels used in the Project will contain:

| Glass | 75% |
|----------|-----|
| Polymers | 10% |
| Aluminum | 8% |
| Silicon | 5% |
| Copper | 1% |
| Silver | 1% |
| | |

All which have recycling or resale value. Modules will be dismantled and packaged per manufacturer, approved recyclers or resellers specifications and shipped to an approved off-site solar panel recycler.

It is important to recognize that solar panels have a minimum 10 year product warranty and a minimum 25 year performance guarantee. Those warranties have a direct impact on the panels' salvage value. The earlier the decommissioning event the higher salvage value.

International Renewable Energy Agency (IRENA) and the International Energy Agency's Photovoltaic Power Systems Programme (IEA-PVPS) published a detailed report titled, "The End-of-Life Management: Solar Photovoltaic Panels" that projects the PV panel waste volumes to 2050 and highlights that recycling or repurposing of solar PV panels at the end of their 30-year lifetime will unlock a large stock of raw materials and valuable components. The report estimates that PV panel waste, comprised could total 78 million tonnes globally by 2050. The value of the recovered material could exceed \$15 billion by 2050. This potential material influx could produce 2 billion new panels or be sold into global commodity markets.

Below is a short list of American companies that aiready operate in the solar panel recycling or repurposing market.

http://www.tekovery.com/.

http://www.morgenindustries.com/index.html

https://echoenvironmental.com/solar-panel-recycling/

http://www.glrnow.com/

http://www.intercotradingco.com/usa-solar-panel-recycling/

https://silrec.com/

http://www.solarsilicon.com/

c. Electric Wire Removal

The copper and aluminum electric wires have a value for recycling. The DC wiring can be removed manually from the panels to the inverter. Underground wire in the project will be pulled and removed from the ground. Overhead cabling for the interconnection will be removed from poles. All wire will be sent to an approved recycling facility.

d. Racking and Fencing removal

All racking and fencing material like posts that were driven into the ground will be pulled, broken down into manageable units, removed from the facility and sent to an approved recycler.

e. Concrete Slab Removal

Concrete slabs used as equipment pads will be broken and removed to a depth of two feet below grade. Clean concrete will be crushed and disposed of off-site and/or recycled and reused either on or off-site. The excavation will be filled with subgrade material of quality and compacted density comparable to the surrounding area.

f. Access Road

The last structure to be removed is the access roads. They will be stripped exposing the geotextile beneath. The geotextile will then be removed and disposed of revealing the original soil surface. The compacted soil beneath the road fill might require ripping with a subsoiler plow to loosen it before it can be returned to crop production. Some of the access road might be retained by the landowner as it will be an improvement for their farm access.

a. Site Restoration Process

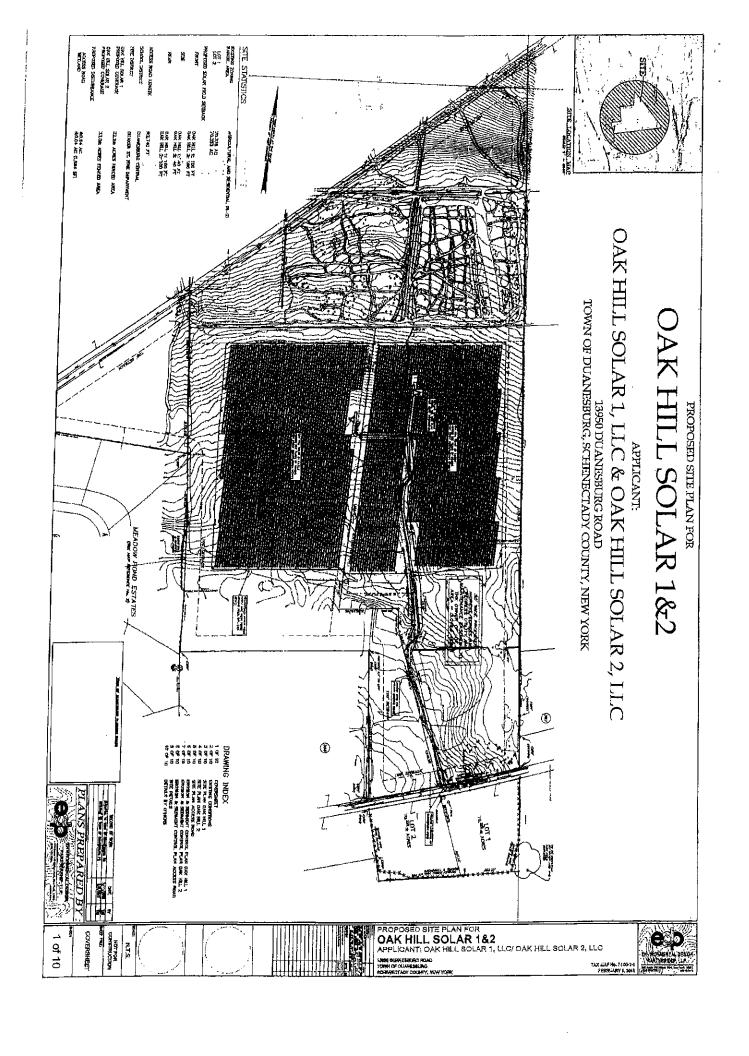
The site consists of 65.2 acres of agricultural land. Following the decommissioning activities, the sub-grade material, and topsoil from affected areas will be de-compacted and restored to a density and depth consistent with the surrounding areas. All unexcavated areas compacted by equipment used in decommissioning shall be de-compacted in a manner to adequately restore the topsoil and sub-grade material to the proper density consistent and compatible with the surrounding area.

If the subsequent use for the Project site will involve agriculture, a deep till of the project site will be undertaken. The affected areas will be inspected, thoroughly cleaned, and all construction-related debris removed. Disturbed areas will be reseeded to promote the re-vegetation of the area unless the area is to be immediately redeveloped. In all areas restoration shall include, as reasonably required, leveling, terracing, mulching, and other necessary steps to prevent soil erosion, to ensure the establishment of suitable grasses and forbs, and to control noxious weeds and pests. The future use of the land for agricultural purposes would not be prejudiced.

ORIGINAL

Appendix 1
Site Location Plan

ENTERED ON 9/5/19
BY: DW 3/35





Appendix 2 Breakdown of Decommissioning Costs

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Applicant submits this breakdown of the Estimated Decommissioning Cost to support the proposed decommissioning fund of \$211,381 for each project based on 2019 cost of work estimates following the NYSERDA guidance which is based on the estimating practices followed by the State of Massauchettes and New York Southeast scrap value prices

It should be further noted that while the Decommissioning Fund is established in the amount equal to the gross decommissioning costs of \$211,381.00, there will likely be significant salvage value that would make the net system decommissioning cost lower than the proposed Decommissioning Fund amount.

To better explain the potential salvage value for this project we have completed a more detailed analysis of the current value of the main project components: solar panels, racking system aluminum/steel content and the electric cabling copper/aluminum content. The current published values for these materials can have a fairly large spread. For each item we choose the use the most conservative pricing available to assume current worst case scenario. As you can see from the summary analysis the current salvage value is 3 times higher than the proposed decommission cost.

| | Type | Quantity | Cost Per Item | Total |
|--|------------------------|--------------|---------------|--------------|
| Fence Removal with Gate and CCTV | LF | 7,618 | \$4,50 | \$34,281,00 |
| Remove Transformers & Concrete Pads | Each | 2 | \$5,000,00 | \$10,000,00 |
| Remove Major Switch Gear & Concrete Pad | Each | 1 | \$5,000.00 | \$5,000.00 |
| Remove Modules and Racking | \$/MWac | 5 | \$9,000,00 | \$45,000.00 |
| Removal of Posts | Each | 1,975 | \$20,00 | \$39,500.00 |
| Remove & Dispose String Inverters, Storage and OC Converters | Each | 60 | \$300,00 | \$18,000.00 |
| Removal of Underground Wires and Backfill | LF. | 3,500 | \$10,00 | \$35,000.00 |
| Site Restoration, Grade and Seed | Acre | 10 | \$900,00 | \$9,000.00 |
| Removal of Gravel Access Road | Cubic Yards | 624 | \$25.00 | \$15,600.00 |
| Current Total: | | 1 | | \$211,381.00 |
| Total after 25 years of inflation (2,5% inflation rate) | | | | \$346,372.38 |
| Detailed Salvage Value | Solar Panels | 45,455 | \$6,60 | \$300,003,00 |
| Delage Janage 1880 | Racking Steel (lbs) | 1,168,100.00 | \$0.05 | \$58,405.00 |
| | Racking Aluminum (lbs) | 1,760,000.00 | \$0,15 | \$264,000.00 |
| | Project Cabiling (lbs) | 75,931.00 | \$0,73 | \$55,429,63 |
| | | | | |
| fotal Salvage Value | | L | | \$677,837.6 |
| | | | | |
| Proposed decommissioning fund | | | | \$211,381,00 |

NYSERDA Fact Sheet

PANEL SYSTEMS

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NY-Sun

This fact sheet provides information to local governments and landowners on decommissioning of large-scale solar panel systems.

As local governments develop solar regulations and landowners negotiate land leases, it is important to understand the options for decommissioning solar panel systems and restoring project sites to their original status.

From a land use perspective, solar panel systems are generally considered large-scale when they constitute the primary use of the land, and can range from less than one acre in urban areas to 10 or more acres in rural areas. Depending on where they are sited, large-scale solar projects can have habitat, farmland, and aesthetic impacts. As a result, large-scale systems must often adhere to specific development standards.

Abandonment and decommissioning defined

Abandonment occurs when a solar array is inactive for a certain period of time.

- Abandonment requires that solar panel systems be removed after a specified period of time if they are no longer in use. Local governments establish timeframes for the removal of abandoned systems based on aesthetics, system size and complexity, and location. For example, the Town of Geneva, NY, defines a solar panel system as abandoned if construction has not started within 18 months of site plan approval, or if the completed system has been nonoperational for more than one year.
- Once a local government determines a solar panel system is abandoned, and has provided thirty (30) days prior written notice to the owner it can take enforcement actions, including imposing civil penalties/fines, and removing the system and imposing a lien on the property to recover associated costs,

Decommissioning is the process for removing an abandoned solar panel system and remediating the land.

 When describing requirements for decommissioning sites, it is possible to specifically require the removal of infrastructure, disposal of any components, and the stabilization and re-vegetation of the site.

What is a decommissioning plan?

Local governments may require to have a plan in place to remove solar panel systems at the end of their lifecycle, which is typically 20-40 years. A decommissioning plan outlines required steps to remove the system, dispose of or recycle its components, and restore the land to its original state. Plans may also include an estimated cost schedule and a form of decommissioning security (see Table 1).

What is the estimated cost of decommissioning?.....

Given the potential costs of decommissioning and land reclamation, it is reasonable for landowners and local. governments to proactively consider system removal guarantees. A licensed professional engineer, preferably with solar development experience, can estimate decommissioning costs, which vary across the United States. Decommissioning costs will vary depending upon project size, location, and complexity. Table 1 provides an estimate of potential decommissioning costs for a ground-mounted 2-MW solar panel system. Figures are based on estimates from the Massachusetts solar market. Decommissioning costs for a New York solar installation may differ. Some materials from solar installations may be recycled, reused, or even sold resulting in no costs or compensation. Consider allowing a periodic reevaluation of decommissioning costs during the project's lifetime by a licensed professional engineer, as costs could decrease and the required payment should be reduced accordingly.

Table 1: Sample list of decommissioning tasks and estimated costs

| Tasks | Estimated Cost(S) |
|---|-------------------|
| Remove Rack Whing | \$2,459 |
| Remove Paneis | \$2,450 |
| DismartieRacks | \$12,350 |
| Remove Electrical Equipment | \$1,850 |
| Breakupand Remove Concrete Pads or Ballasts | \$1,500 |
| Remove Racks | \$7,800 |
| Remove Cable | \$6,500 |
| Remove Ground Screws and Power Poles | \$13,850 |
| Remaye Feace | \$4,950 |
| Grading | \$4,000 |
| Seed Disturbed Areas | \$250 |
| Yruakta Recycling Genter | \$2,250 |
| | \$ \$2.50200 |
| iotalAttu 20Yours (2.5% refination rate) | 2 2010 10 2 3 |



¹ Town of Geneva, N.Y. CODE § 130-4(D)(5) (2016);

Appendix 4 IRREVOCABLE STANDBY LETTER OF CREDIT

| Applicant: |
|--|
| |
| Beneficiary: |
| Town of Duanesburg 5853 Western Turnpike Duanesburg, NY 12056 |
| Dear Sir or Madam: |
| bank] ("Issuing Bank"), have established this irrevocable Standby Letter of Credit (this "Letter of Credit") in favor of the Town of Duanesburg ("Beneficiary"), , for an aggregate amount of up to \$, (as reduced pursuant to this Letter of Credit, the "Maximum Stated Amount") effective [insert initial date of this Letter of Credit] and expiring [insert date which is 364 days after the initial date of this Letter of Credit] as may be extended in accordance with the terms hereof (the "Expiration Date"). We are informed by the Applicant that this Letter of Credit is provided in connection with the Payment in Lieu of Taxes Agreement (the "Agreement"), dated [insert date of agreement], as amended from time to time, by and between Beneficiary and Applicant and is for the benefit of the Town of Duanesburg and Duanesburg Central School District. |
| The Maximum Stated Amount at the time of any drawing hereunder shall be immediately and permanently reduced by the amount of such drawing and otherwise as set forth herein. |
| Funds hereunder are available to Beneficiary, providing all terms and conditions of this Letter of Credit are strictly complied against Beneficiary's sight draft drawn on Issuing Bank in the form of Annex A and when accompanied by Beneficiary's statement purportedly signed by Beneficiary and reading as follows: |
| Either: |
| "An Event of Default under Section 6(a)(1) of the Agreement with respect to Applicant's due but unpaid PILOT Payments (as defined in the Agreement) has occurred, |

and the amount that Beneficiary is drawing under this Letter of Credit is due and owing



ENTERED 0119/5/19
BY: DW 335

by Applicant to Beneficiary as a result of such Event of Default. A copy of the unpaid PILOT Payment invoice is attached to the sight draft."

Or

Issuing Bank hereby undertakes to honor Beneficiary's sight drafts drawn on Issuing Bank in accordance with this Letter of Credit by the date and time specified below, indicating the Letter of Credit number [insert Letter of Credit number], if presented to Issuing Bank on a Business Day occurring on or before the applicable expiration date for an aggregate amount not to exceed the Maximum Stated Amount.

Any drawings under this Letter of Credit shall be presented to Issuing Bank at its counters by personal presentation, courier or messenger service. In addition, drawings may also be presented by fax transmission to [Insert Issuing Bank fax number] or such other fax number identified by Issuing Bank in a written notice to Beneficiary. To the extent a drawing is presented by fax transmission, Beneficiary must (i) provide telephone notification to Issuing Bank at [Insert Issuing Bank telephone number] prior to or simultaneously with the sending of such fax transmission and (ii) send the original of such drawing to Issuing Bank by overnight courier at [Insert Issuing Bank address], however such original drawing documents will not be examined by us nor form part of the drawing. If a drawing is presented in compliance with the terms of this Letter of Credit to Issuing Bank at such address or fax number by 11:00 a.m., New York City Time, on any Business Day, payment will be made not later than the close of business, New York City Time, on the next Business Day and if such drawing is so presented to Issuing Bank after 11:00 a.m., New York City Time, on any Business Day, payment will be made on the second Business Day no later than the close of business, New York City Time

If a demand for payment made hereunder does not conform to the terms and conditions of this Letter of Credit, Issuing Bank shall give Beneficiary notice in writing (or by telephone confirmed in writing) that Beneficiary's demand for payment was not effected in accordance with the terms and conditions of this Letter of Credit, stating the reasons therefore and that Issuing Bank will upon Beneficiary's instructions hold any documents at Beneficiary's written direction or return the same to Beneficiary. Upon being notified that the demand for payment was not effected in conformity with this Letter of Credit, Beneficiary may correct any such non-conforming demand if, and to the extent that

Beneficiary is entitled and able to do so on or before the Expiration Date, but in no event shall the Expiration Date of this Letter of Credit be extended.

Issuing Bank has no duty or right to inquire into the validity of, or the basis for, any draw.

This Letter of Credit shall permit multiple partial drawings.

As used herein, "Business Day" means any day on which (A) commercial banks are not closed, or authorized or required to close, in New York City or (B) with respect to a certain drawing request, the bank to which funds are requested to be transferred hereunder as set forth in such drawing request is not closed, or authorized or required to close, and may receive such funds by wire transfer as requested hereunder.

Should Beneficiary have occasion to communicate with Issuing Bank regarding this Letter of Credit, kindly direct the communication to the attention of [insert Issuing Bank address/department] mentioning the Letter of Credit number [insert letter of credit number].

This Letter of Credit, together with sight drafts submitted in accordance with the terms hereof, sets forth in full the terms of our undertaking and this undertaking shall not in any way be modified, amended, limited or amplified by reference to any document, instrument or agreement referred to herein, and any document, instrument or agreement referred to herein, and any such reference shall not be deemed to incorporate herein by reference any document or agreement.

Except as far as otherwise expressly stated herein this Letter of Credit is subject to the International Standby Practices (ISP98), International Chamber of Commerce Publication No. 590'(the "ISP"), and as to matters not governed by the ISP, shall be construed in accordance with the laws of the state of New York without regard to principles of conflicts of law that may result in the application of the laws of another jurisdiction.

As allowed by law, any payments hereunder shall be made free and clear of, and without deduction or set off for or on account of any present or future taxes, duties, charges, fees, deduction or withholding of any nature and by whomever imposed.

The Expiration Date of this Letter of Credit will be automatically extended without amendment for a period of one (1) year from the Expiration Date, or any future Expiration Date, unless at least sixty (60) days prior to the then current Expiration Date Issuing Bank sends notice to Beneficiary by overnight courier at Beneficiary's address shown above, that Issuing Bank elects not to extend the Expiration Date of this Letter of Credit for any such additional period.

ISSUING BANK

Authorized Signature

ANNEX A



IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER ____

| | , |
|------|--------------------|
| Date | w.i. |
| | ENTERED ON 9/57/19 |
| | BI DW 5:35 |

Sight Draft

| Pay to the order of the Co | ounty of Chautauqua | Industrial Development Agency t | he |
|-------------------------------|-----------------------|-----------------------------------|-----|
| amount of \$ draw. | n under [Name of issu | ing bank] Irrevocable Standby Let | ter |
| or Credit Number | dated 2 | 20 A copy of the unneid PIT (| Tί |
| Payment invoice is attached h | ereto [For a payment | default]. | |

[INSERT BENEFICIARY PAYMENT INSTRUCTIONS]

Town of Duanesburg

By:

Name:

Title:

cc;

·

TOWN OF DUANESBURG DECOMMISSIONING ESCROW AGREEMENT

THIS DECOMMISSIONING ESCROW AGREEMENT, made and entered on this _____ day of _____ 2020 (the "Agreement") by and between the Town of Duanesburg, a municipal corporation duly established in Schenectady County with a principal place of business located at 5853 Western Turnpike, Duanesburg, NY 12056 (referred to as the "Town"), Oak Hill Solar 1 LLC, a limited liability company formed under the laws of the State of New York with principal offices at 1550 Wewatta Street, 4th Floor, Denver, CO 80202 (referred to as the "Operator") is made upon the following terms and conditions:

PROJECT NAME: Oak Hill 1 (the "Project")

PROJECT LOCATION: 13590 Duanesburg Road Delanson, NY (Tax Map 74.00-2-5) in the Town of Duanesburg, Schenectady County, New York (the "Project Site").

PROJECT: Operator intends to permit, construct, operate and maintain solar energy facilities with battery storage with an estimated aggregate size of five (5)megawatts of alternating-current (AC) nameplate capacity that will generate electric power (the "Project").

- 1. As a requirement for the approval of the Project, the Town and the Operator have on even date herewith entered into a decommissioning agreement (the "Decommissioning Agreement") setting forth the terms and conditions under which the Operator is required to remove the Project from the Project Site.
- 2. The Decommissioning Agreement requires the Operator to deposit the amount of \$211381 in escrow with the Town (the "Escrowed Funds"). The Parties agree that the Escrowed Funds shall be used solely to pay for any Decommissioning (as defined in the Decommissioning Agreement) of the Project, and only in the circumstances set forth in the Decommissioning Agreement. Prior to the end of each successive five (5) -year period after the execution of the Decommissioning Agreement, the Operator shall provide the Town with an updated decommissioning plan in accordance with the Decommissioning Agreement and the Escrowed Funds shall be changed to reflect the updated estimate approved by the Town for such Decommissioning of the Project.
- 3. To properly implement the Decommissioning Agreement, the Operator shall simultaneously with its execution of this Agreement, deliver the Escrowed Funds to the Town. The Escrowed Funds will be placed into an escrow account controlled by the Town (the "Escrow Account"). The purpose of the Escrow Account is to provide the Town funding for the Decommissioning of the Project should a Triggering Event (as defined in the Decommissioning Agreement) occur and should the Town elect to decommission the Project as provided for in the Decommissioning Agreement.
- 4. In the event of a Triggering Event and the Town's election to decommission the Project, should the costs of Decommissioning incurred by the Town exceed the amount of Escrowed Funds, Operator or its successor in title to the Project shall be responsible for

reimbursing the Town for any and all such excess costs, provided that the Town delivers to the Operator a reasonable written record of such costs.

- 5. The Town hereby acknowledges and agrees that at any time during the term of the Decommissioning Agreement that the Town receives written request from the Operator, the Town shall provide a complete statement of funds in the Escrow Account and any expenditures thereof.
- 6. Upon the completion of the Decommissioning of the Project in accordance with the terms and conditions of the Decommissioning Agreement, any balance remaining in the Escrow Account, if any, shall be refunded to Operator within sixty (60) of completion.
- 7. This Agreement, together with the Decommissioning Agreement, contains all of the terms agreed upon between the Town and Operator with respect to the subject matter hereof. This Agreement has been entered into after full investigation and neither party relies on any oral representations or statements from the other as an inducement to entering into this Agreement.
- 8. This Agreement may not be altered, amended, changed, modified, waived or terminated in any respect unless the same shall be in writing signed by the party to be bound.
- 9. The Operator shall have the right, at all times, to assign any of its rights and obligations under this Agreement and any rights to any remaining funds in the Escrow Account provided the Town receives prompt written notice of the identity of and contact information for such assignee.
- This Agreement and all the rights and remedies of the Town hereunder shall inure 10. to the benefit of and be binding upon the Town and its respective successors, endorsers and permitted transferees and assigns. This Agreement shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of law principles. By executing this Agreement, the parties agree that venue for all judicial actions, suits or proceedings commenced with respect to any matters arising out of or in connection with this Agreement or for recognition or enforcement of any judgment rendered in any such proceedings, is proper in a court of competent jurisdiction in Schenectady County, New York or in the United States District Court for the Northern District of New York. By execution and delivery of this Agreement, the parties accept, generally and unconditionally, the jurisdiction of the aforesaid courts. THE PARTIES HEREBY IRREVOCABLY WAIVE TRIAL BY JURY AND ANY OBJECTIONS, INCLUDING, WITHOUT LIMITATION, ANY OBJECTION TO THE LAYING OF VENUE OR BASED ON THE GROUNDS OF FORUM NON CONVENIENS, WHICH HE/SHE/THEY/IT MAY NOW OR HEREAFTER HAVE TO THE BRINGING OF ANY SUCH ACTION OR PROCEEDING IN ANY SUCH JURISDICTION.
- 11. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument. Faxed or e-mailed signatures to this agreement shall be binding for all purposes.

[SIGNATURE PAGE FOLLOWS]

| IN WITNESS WHEREOF, the parties hav | e executed this Agreement the date first above written. |
|-------------------------------------|---|
| The Town of Duanesburg | Oak Hill Solar 1, LLC |
| Roger Tidball, Supervisor | By: Its: |

TOWN OF DUANESBURG DECOMMISSIONING ESCROW AGREEMENT

this DECOMMISSIONING ESCROW AGREEMENT, made and entered on this _____ day of _____ 2020 (the "Agreement") by and between the Town of Duanesburg, a municipal corporation duly established in Schenectady County with a principal place of business located at 5853 Western Turnpike, Duanesburg, NY 12056 (referred to as the "Town"), Oak Hill Solar 2 LLC, a limited liability company formed under the laws of the State of New York with principal offices at 1550 Wewatta Street, 4th Floor, Denver, CO 80202 (referred to as the "Operator") is made upon the following terms and conditions:

PROJECT NAME: Oak Hill 2 (the "Project")

PROJECT LOCATION: 13686 Duanesburg Road Delanson, NY (Tax Map 74.00-2-5) in the Town of Duanesburg, Schenectady County, New York (the "Project Site").

PROJECT: Operator intends to permit, construct, operate and maintain solar energy facilities with battery storage with an estimated aggregate size of five (5)megawatts of alternating-current (AC) nameplate capacity that will generate electric power (the "Project").

- 1. As a requirement for the approval of the Project, the Town and the Operator have on even date herewith entered into a decommissioning agreement (the "Decommissioning Agreement") setting forth the terms and conditions under which the Operator is required to remove the Project from the Project Site.
- 2. The Decommissioning Agreement requires the Operator to deposit the amount of \$211,381 in escrow with the Town (the "Escrowed Funds"). The Parties agree that the Escrowed Funds shall be used solely to pay for any Decommissioning (as defined in the Decommissioning Agreement) of the Project, and only in the circumstances set forth in the Decommissioning Agreement. Prior to the end of each successive five (5) -year period after the execution of the Decommissioning Agreement, the Operator shall provide the Town with an updated decommissioning plan in accordance with the Decommissioning Agreement and the Escrowed Funds shall be changed to reflect the updated estimate approved by the Town for such Decommissioning of the Project.
- 3. To properly implement the Decommissioning Agreement, the Operator shall simultaneously with its execution of this Agreement, deliver the Escrowed Funds to the Town. The Escrowed Funds will be placed into an escrow account controlled by the Town (the "Escrow Account"). The purpose of the Escrow Account is to provide the Town funding for the Decommissioning of the Project should a Triggering Event (as defined in the Decommissioning Agreement) occur and should the Town elect to decommission the Project as provided for in the Decommissioning Agreement.
- 4. In the event of a Triggering Event and the Town's election to decommission the Project, should the costs of Decommissioning incurred by the Town exceed the amount of Escrowed Funds, Operator or its successor in title to the Project shall be responsible for

reimbursing the Town for any and all such excess costs, provided that the Town first delivers to the Operator a reasonable written record of such costs.

- 5. The Town hereby acknowledges and agrees that at any time during the term of the Decommissioning Agreement that the Town receives written request from the Operator, the Town shall provide a complete statement of funds in the Escrow Account and any expenditures thereof.
- 6. Upon the completion of the Decommissioning of the Project in accordance with the terms and conditions of the Decommissioning Agreement, any balance remaining in the Escrow Account, if any, shall be refunded to Operator within sixty (60) of completion.
- 7. The Escrow Account shall not be used by the Town for any other purposes other than those set forth in the Decommissioning Agreement.
- 8. This Agreement, together with the Decommissioning Agreement, contains all of the terms agreed upon between the Town and Operator with respect to the subject matter hereof. This Agreement has been entered into after full investigation and neither party relies on any oral representations or statements from the other as an inducement to entering into this Agreement.
- 9. This Agreement may not be altered, amended, changed, modified, waived or terminated in any respect unless the same shall be in writing signed by the party to be bound.
- 10. The Operator shall have the right, at all times, to assign any of its rights and obligations under this Agreement and any rights to any remaining funds in the Escrow Account provided the Town receives prompt written notice of the identity of and contact information for such assignee.
- This Agreement and all the rights and remedies of the Town hereunder shall inure 11. to the benefit of and be binding upon the Town and its respective successors, endorsers and permitted transferees and assigns. This Agreement shall be governed by and construed in accordance with the laws of the State of New York, without regard to its conflicts of law principles. By executing this Agreement, the parties agree that venue for all judicial actions, suits or proceedings commenced with respect to any matters arising out of or in connection with this Agreement or for recognition or enforcement of any judgment rendered in any such proceedings, is proper in a court of competent jurisdiction in Schenectady County, New York or in the United States District Court for the Northern District of New York. By execution and delivery of this Agreement, the parties accept, generally and unconditionally, the jurisdiction of the aforesaid courts. THE PARTIES HEREBY IRREVOCABLY WAIVE TRIAL BY JURY AND ANY OBJECTIONS, INCLUDING, WITHOUT LIMITATION, ANY OBJECTION TO THE LAYING OF VENUE OR BASED ON THE GROUNDS OF FORUM NON CONVENIENS, WHICH HE/SHE/THEY/IT MAY NOW OR HEREAFTER HAVE TO THE BRINGING OF ANY SUCH ACTION OR PROCEEDING IN ANY SUCH JURISDICTION.
- 12. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument. Faxed or e-mailed signatures to this agreement shall be binding for all purposes.

[SIGNATURE PAGE FOLLOWS]

| IN WITNESS WHEREOF, the parties have executed this Agreement the date first above wr | | | | |
|--|-----------------------------------|--|--|--|
| The Town of Duanesburg | Oak Hill Solar 2, LLC | | | |
| Roger Tidball, Supervisor | By: David Rogers Title: President | | | |

PO Box 160 Quaker Street, NY 12141

Supervisor Tidball Duanesburg Town Board 5853 Western Turnpike Duanesburg, NY 12056

July 23, 2020

Re: Town Board vote on Oak Hill Solar 1 & 2, LLCs decomissioning documents presented by Amp Solar Development, Inc.

Dear Supervisor Tidball,

Please postpone tonight's vote on Amp Solar Development, Inc ("Amp") decomissioning documents for Oak Hill Solar 1, LLC and Oak Hill Solar 2, LLC (the "Project") until the town verifies the decommissioning cost and plan. The documents must protect the town and residents from unnecessary litigation and financial risks which may negatively impact the town budget.

Amp's Decommissioning Plan as shown in tonight's agenda Schedule D includes "Appendix 2", a summary table reflecting the cost of work estimates. This chart omits the removal and transportation of infrastructure for the Project as suggested by NYSERDA Fact Sheet which is found in Schedule D "Appendix 3".

Some items, but not limited to, that should be included in Amp's Decommissioning Plan for both Oak Hill Solar 1, LLC and Oak Hill Solar 2, LLC are:

- 1. Removal of 4 utility power poles at each interconnection point at Duanesburg Road.
- 2. Removal of untold number of power poles that may be along the 1,500 foot access road from each power plant to each interconnection point.
- 3. Removal of possible overhead transmission lines and cables from each power plant to each interconnection point.
- 4. Transportation and disposal of all utility power poles off-site.
- 5. Removal of two cement pads and related on-site spare parts storage containers for each power plant as shown on Site Plan Sheet 4.

- 6. Transportation of 45,455 solar panels to recycling facility. Depending upon panel specifications, which were not provided, this may be in excess of 2 million pounds of panels and may require in excess of 50 semi-truck loads.
- 7. Transportation of construction debris to landfill.

Clarification is needed:

- 1. Does each power plant contain 7,618 LF of fence? This may encompass over 35 acres.
- 2. Does the plan include removal of 7,618 LF of CCTV cables trenched along each fence line?
- 3. Each power plant indicates 3,500 LF of backfill? Is this correct?
- 4. Amp's chart reflects 1,975 posts per power plant. Is this correct number of posts to support 22,727 solar panels and associated racking system?
- 5. Amp's chart reflects 60 inverters per power plant but National Grid Interconnection Documents submitted by Eden Renewables to the Planning Board on September 5, 2019 reflect 111 inverters for each power plant. The site plan does not adaquately locate the inverters. What is the correct number?

Please verify Decommissioning Plan Section 5.b. PV Modual Removal list of recycling companies and the cost of transportation to these facilities. My phone calls confirm that landfills such as our local company Cassella's, will not accept solar panels due to products containing toxic chemicals. Town of Westerlo recently enacted legislation prohibiting solar panel disposal in their landfills. Disposal of faulty solar panels replaced during project infancy, damaged during lifespan of the project and at decommissioning may be more difficult than anticipated.

Amp suggests that solar panel recycling may occur at the following companies:

http://www.tekovery.com

http://www.morgenindustrles.com

https://echoenviroomental.com

http://www.glrnow.com/

http://www.intercotrading.com

Manager to the first tide of the

https://silrec.com/contact/

https://solarsillicon.com

This is essentially an identical list Eden Renewables presented to the Planning Board during their application process and Resolution approval September 19, 2019. Last year I spoke with these companies and learned that only two companies on the list recycle solar panels. Echo Environmental, located in Texas and InterCo Trading located in Illinois. Both will require long haul transportation which is not included in Amp's decommissioning estimate.

Please delay tonight's vote until the decommissioning documents and escrow have been updated to reflect the removal, transportation and disposal of ALL power plant infrastructure. The Town Board should not blindly rely on the accuracy of the Planning Board's documentation. The town board should protect itself, our finances and the residents from any possibility of future lawsuits and economic disaster due to inaccurate and incomplete decomissioning costs and planning documentation.

Please delay the vote until the decomissioning plan and escrow amount is accurate.

Thank you for your time and attention.

Regards,

Lynne Bruning 720-272-0956 lynnebruning@gmail.com

Cc: Douglas H. Zamelis, Esq

Jeffery Schmitt, Planning Board Chairman

Analysis of the Alexanders of Cotto

PO Box 160 Quaker Street, NY 12141

Supervisor Tidball Duanesburg Town Board 5853 Western Turnpike Duanesburg, NY 12056

July 23, 2020

Re: Town Board vote on Oak Hill Solar 1 & 2, LLCs decomissioning escrow documents

Dear Supervisor Tidball,

Please postpone tonight's vote on Oak Hill Solar 1, LLC and Oak Hill Solar 2, LLC (the "Project") decomissioning agreement, escrow and plan as presented in tonight's Agenda and posted on the town website July 22, 2020 until the town makes revisions to bring these documents into alignment with the Resolution and Site Plan as approved by the Planning Board September 19, 2019.

This letter serves to clarify that the approved Resolution and Site plan do not include battery storage. Failure to bring decommissioning documents into alignment with the approved Resolution and Site Plan places the town at risk for costly litigation and may place the town budget at risk.

September 19, 2019 the Planning Board approved the Resolution and Site Plan for Eden Renewables two solar power plants located at 13590 Duanesburg Road, Delanson, NY 12053. The approved documents do not include or demonstrate the use of battery storage for the Project. In fact "storage" is not mentioned in the Resolution.

The town supervisor and attorney were informed of this April 2020 when they received a copy of Douglas H. Zamelis Esq correspondence to New York State Energy Research and Development Authority ("NYSERDA") reflecting that battery storage was not approved and that any attempts to build anything on the site other than that approved by the Planning Board on September 19, 2019 may incur legal action by adjoining property owners. Exhibit "A"

Additionally National Grid Coordinated Electric System Interconnect Reviews for the Project as supplied by Eden to the Planning Board September 5, 2019 do not include battery storage. Exhibit "B"

The Town, as lead agency, failed to have the Project's negative declaration posted in the Department of Environmental Conservation Environmental Notice Bulletin as required by New York State law. This publication requirement is also stated in the approved September 19, 2020 Resolution item number 6 " notice of negative declaration be published in the ENB, that the negative declaration be provided to all involved agencies and that it be filed as required by SEQRA."

Battery storage was not approved and the town failed to uphold New York State law as well as its own Resolution. Battery storage should not be constructed on the Project site.

I respectfully request that the town board postpone tonight's vote until the decommissioning documents are brought into alignment with the approved Resolution and Site Plan. Failure to do so may place the town at financial risk for the lifetime of the Project.

Thank you for your time and attention to this matter.

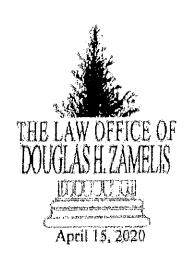
Regards,

Susan Biggs 13388 Duanesburg Road, Delanson , NY 12053

Cc: Jeffery Schmitt, Planing Board Chair Douglas H. Zamelis, Esq

EXHIBIT

A



Hon, Richard F. Kauffman, Chair & Members
New York State Energy Research and Development Authority
17 Columbia Circle
Albany, New York 12203-6399

Re: Oak Hill 1 Solar LLC and Oak Hill 2 Solar LLC, Duanesburg (T), Schenectady County

Dear Chairman Kauffman and Members of the Authority:

This office represents Ms. Susan Biggs and Ms. Lynne Bruning in connection with two community solar projects identified as Oak Hill 1 Solar and Oak Hill 2 Solar (the "Projects") in the Town of Duanesburg, Schenectady County, with listed addresses at 13590 Oak Hill Road and 13686 Duanesburg Road, Delanson, New York, respectively. Ms. Biggs and Ms. Bruning reside at 13388 Duanesburg Road, adjacent to the Projects, and are petitioners in a proceeding pursuant to CPLR Article 78 entitled Biggs, et al. v. Eden Renewables LLC et al. presently pending in Schenectady County Supreme Court (Index Number 2019-2217) which seeks invalidation and annulment of the Projects* local land use approvals.

The Authority has awarded funds for the Projects totaling \$7,743,456.00 based on representations by Eden Renewables LLC (and/or a successor-in-interest) concerning the size and capacity of the Projects approved by the Town of Duanesburg Planning Board, and the purported approval of energy storage facilities by that Planning Board. This correspondence clarifies that the combined size and capacity of the Projects approved by the Town of Duanesburg Planning Board is only 65.2 acres and 10 MW, not 95 acres and 15 MW as reportedly represented to the Authority. This correspondence further confirms that, notwithstanding what has been represented to the Authority, the Town of Duanesburg Planning Board did not actually review of approve any energy storage facilities in donnection with the Projects.

The Duanesburg Planning Board's September 19, 2019 "Resolution Approving Special Use Permit and Subdivision and Site Plan Approval for the Eden Renewables Oak Hill Solar Energy Projects – 1206 Oak Hill Road" (the "Local Approval Resolution"), a copy of which is attached herewith as Exhibit "A", purported to approve the two 5 MW Projects, for a combined generation capacity of 10 MW. Because Ms. Biggs and Ms. Bruning brought to the Duanesburg

Planning Board's attention that the Local Approval Resolution overstated the size of the Projects, the Local Approval Resolution was amended by resolution embodied in the minutes of the Duanesburg Planning Board's October 17, 2019 meeting, a copy of which are attached herewith as Exhibit "B", which set forth the correct "coverage" for the Projects as "32.8 acres" and "33 acres" for a combined total of 65.8 acres. The Duanesburg Planning Board therefore approved two solar projects with a combined generation capacity of 10 MW to cover a combined +/-65.8 acres.

The combined coverage of +/-65.8 acres for the Projects is consistent with the "Proposed Site Plan for Oak Hill Solar 1&2, Sheets I through 11" dated February 8, 2019 (the "Approved Site Plan") prepared by Environmental Design Partnership, LLC resubmitted to the Duanesburg Planning Board on June 6, 2019 which indicates "proposed coverage" of "32.2 acres" and "33 acres" for a combined coverage of +/-65.2 acres.

Sheets 9 and 10 of the Approved Site Plan show site plan details for limited use pervious access roads, limited use pervious wetland crossings, solar field fences, silt fences, construction entrance, trenches, spare parts containers, DC to DC converters, PV tracker systems, CCTV poles, transformer stations, and inverters on poles, the Approved Site Plan does not provide any details for any type battery or energy storage system facilities. Likewise, neither the State Environmental Quality Review Act Full Environmental Assessment Form, Negative Declaration, nor the Local Approval Resolution, as amended, references battery storage anywhere in their texts. The only reference to battery storage in the record of the Duanesburg Planning Board's proceedings is in the minutes of the board's March 21, 2019 meeting where it is indicated "There will be battery storage proposed in ten (10) small enclosures with containment and fire protection". Such facilities were never actually proposed or reviewed though, and both the Approved Site Plan and the Local Approval Resolution, as amended, fail to show, discuss or approve any energy storage facilities in connection with the Projects.

Notwithstanding the omission of energy storage facilities from the Approved Site Plan and absence of any mention of energy storage facilities in the SEQRA documents or Local Approval Resolution, Town of Duanesburg Planner/Building Inspector/Code Enforcement Officer Dale R. Warner somehow acknowledged and confirmed to the Authority on "Confirmation of Local Land Use Approval" forms dated September 23, and 26, 2019 copies of which are attached herewith as Exhibit "C", that "Required Energy Storage Land Use Approvals" had in fact been granted on September 19, 2019, i.e., the date of the Local Approval Resolution which makes no mention of energy storage facilities. Thereafter, Officer Warner acknowledged and confirmed to the Authority on "Presentation to Planning/Zoning Board for Energy Storage" forms dated October 4, 2019 attached herewith as Exhibit "D" which provide "NYSERDA respectfully requests that the municipality sign a copy of this form acknowledging receipt of the below information as part of the Applicant's presentation to the Planning/Zoning Board" for projects of "Energy Storage Size, MW (AC): 5MW AC" and "Solar Project Size, MW (DC) (if applicable): 7.5MW DC". Officer Warner, who is not a member of the Duanesburg Planning Board of Zoning Board of Appeals, acknowledged and confirmed the Authority's "Presentation to Planning/Zoning Board For Energy Storage Facilities Forms" despite the clear indication on the form that they were to be "ACKNOWLFDOED & CONFIRMED BY

MUNICIPALITY Planning/Zoning Board Member". The Duanesburg Planning Board approved no energy storage facilities, and approved only two 5 MW DC community solar projects.

Records obtained from the Authority pursuant to the Preedom of Information Law and filed on the New York State Department of Public Service Document and Matter Management system for matter number 17-02273 indicate that substantial financial incentives by the Authority were contingent and conditioned upon the a) Projects actually comprising a total of 15 MW; and b) approval of associated commercial battery storage facilities by the Duanesburg Planning Board.

By way of demonstration, correspondence from the Authority to Oak Hill Solar 1, LLC dated October 31, 2019 attached herewith as Exhibit "E" states that "Your award in the amount of \$1,498,728 is contingent upon the installation and grid interconnection of a 7,493.64 kW solar electric system for: Oak Hill Solar 1, LLC at 13590 Duanesburg Rd., Delanson, NY 12053 as outlined in the project application. Virtually identical correspondence for Oak Hill Solar 2 LLC of the same date which states that "Your award in the amount of \$1,498,728 is contingent upon the installation and grid interconnection of a 7,493.64 kW solar electric system for: Oak Hill Solar 2, LLC at 13686 Duanesburg Rd., Delanson, NY 12053 as outlined in the project application" is also included herewith as Exhibit "E". Therefore, while awards by the Authority totaling \$2,997,456.00 are contingent on the interconnection of a combined 15 MW of solar electrical systems, the Duanesburg Planning Board's Local Approval Resolution only authorizes the construction of a combined 10 MW.

The "Salesforce" printout for Oak Hill Solar 1, LLC filed with the Authority, a copy of which is attached as Exhibit "F", represents that Oak Hill Solar 1 "Total System Size" is "7,493.640" kW and indicates "Total Number Acres: 46.00". The "Salesforce" printout for Oak Hill Solar 2, LLC filed with the Authority, a copy of which is included in Exhibit "F", represents that Oak Hill Solar 2 "Total System Size" is also "7,493.640" kW and indicates "Total Number Acres: 49.00". These records, filed after the issuance of the Duanesburg Planning Board's Local Approval Resolution which authorized a combined 10 MW on only +465.2 acres, purport to represent to the Authority that the Projects would have a combined generation capacity of 15 MW on 95 acres.

In addition to the \$2,997,456.00 awarded by the Authority for the Projects under the "NY-Sun Program", according to correspondence from the Authority dated October 28, 2019 attached herewith as Exhibit "G" indicates the Authority awarded \$2,358,000.00 each for Oak Hill 1 Solar and Oak Hill 2 Solar under the "Retail Energy Storage Incentive Program" which funds were "contingent upon the installation and grid interconnection of a \$4000.00 kW/11,790.00 kWh (useable installed energy capacity measured in AC) energy storage system". However, as established above, neither the SEQRA EAF, Negative Declaration, Approved Site Plan, nor the Local Approval Resolution reference any energy storage facilities in connection with the Projects, and therefore such storage facilities were never in fact reviewed or approved by the Duanesburg Planning Board. The Authority has therefore granted \$4,716,000.00 in incentives for energy storage systems for the Projects when Eden Renewables LLC never obtained approval from the Duanesburg Planning Board for any energy storage facilities in connection with the Projects.

Please be advised Ms. Biggs and Ms. Bruning reserve all their statutory and common law rights and remedies to enforce the Town of Duanesburg Zoning Law and Pinal Approval Resolution in a Declaratory Judgment Action in Schenectady County Supreme Court in the event Eden Renewables LLC (or its successor-in-interest) constructs the Projects in excess of 10 MW, 65.8 acres, and/or attempts to install any energy storage facilities.

On behalf of Ms. Biggs and Ms. Bruning, we respectfully request that this matter be investigated, and if the Authority determines that the Projects do not satisfy the contingencies of the \$7,713,456.00 in incentives as set forth above, that it revoke or withhold such incentives as appropriate.

Thank you very much for the Authority's careful consideration of this important matter.

Very truly yours

Douglas H. Zamelis

ec:

Alicia Barton, NYSERDA President & CEO
Hon. Letitia James, NYS Attorney General
Hon. Letizia Tagliafierro, NYS Inspector General
Hon. Thomas DiNapoli, NYS Comptroller
Hon. Roger Tidball, Supervisor, Town of Duanesburg
Terresa M. Bakner, Esq., Counsel to Town of Duanesburg
Daniel A. Spitzer, Esq., Counsel to Eden Renewables LLC

EXHIBIT B

Coordinated Electric System Interconnect Review

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Interconnection Customer: Oakhill Solar, 1 LLC

Applicant: New PowerCo Inc.

5,000 kW Photovoltaic Generator System 13590 Duanesburg Delanson, NY 12053

Interconnection to National Grid
NY Eastern Division
Northeast Region
Cobleskill District
Delanson #269 Substation
13.2 kV Feeder 26951

THIS OCCUMENT AND ANY ATTACHMENTS HERETO ("DOCUMENT") IS MADE AVAILABLE BY NATIONAL GRID UPON AND SUPJECT TO THE EXPRESS UNDERSTANDING THAT (A) VETHER NATIONAL SIRD NOR ANY OF ITS OFFICERS DIFFERENCED, AFFILIATED, AGENCE, OR EMPLOYEES MAKES ANY WARRANTY, ASSURANCE, QUARANTY, OR REFRESENTATION WITH RESPECT TO THE CONTENTS OF THE DICKEMENT OR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED OR REFERENCED IN THE DOCUMENT, AND (3) NATIONAL ORID, ITS OFFICERS, DIFFECTORS, AFFILIATES AGENTS, AND EMPLOYEES SHALL NOT HAVE ANY LIBRRITY OR RESPONSIBILITY FOR MACCURACIES ERRORS, OR OM SSIONS IN, OR ANY SUSINESS OR POLICY DECISIONS MADE BY ANY DIRECT OR PROPERTY RECIPIENT IN RELIANCE ON THIS EXCUMENT OR THE DECAMATION CONTAINED OR REFERENCED FROMERLY ALL SUPPLIABILITY IS EXTREMELY OFFICERS.

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| 2.0 | EXECUTIVE SUMMARY | 3 |
| 3.0 | COMPANY EPS PARAMETERS | 3 |
| 4.0 | WITH ACTUE AND ALGORISM SITE | 4 |
| 5,0 | SYSTEM IMPACT ANALYSIS | 5 |
| 6.0 | MITIGATIONS FOR SYSTEM IMPACT ANALYSIS FAILURES | 7 |
| 7.0 | CONCEPTUAL COST ESTIMATE | 8 |

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Coordinated Electric System Interconnect Review

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1.0INTRODUCTION ...

This report presents the analysis results of the Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid" or the "Company") interconnection study based on the proposed interconnection and design submittal from the Interconnection Customer in accordance with the National Grid electric System Bulletin No. 75, Appendix B Distributed Generation Connected To National Grid Distribution Facilities Per The New York State Standardized Interconnection Requirements. The Intent of this report is to assess this project's feasibility, determine its impact to the existing electric power system (EPS), determine interconnection scope and installation requirements, and determine costs associated with interconnecting the interconnection Customer's generation to the Company's Electric Power System (EPS) This Coordinated Electric System Impact Review (CESIR) study; according to the NYSSIR Section I.C Step 6; Identifies the scope, schedule, and costs specific to this Interconnection Customer's installation requirements. to the control of the

2.0 EXECUTIVE SUMMARY 2.0 EXECUTIVE SUMMARY

The total estimated planning grade cost of the work associated with the interconnection of the Interconnection Customer is \$283,066

The interconnection was found to be feasible with modifications to the existing Company EPS and operating conditions, which are described in detail in the body of this Study.

The state of the s

The ability to generate is contingent on this facility being served by the interconnecting circuit during normal Utility operating conditions. Therefore, if the interconnecting circuit is out of service, or if abnormal Utility operating conditions of the area EPS are in effect National Grid reserves the right to disengage the facility.

No future increase in generation output beyond that which specified herein for this interconnection has been studied. Any increase in system size and/or design change is subject to a new study and costs associated shall be borne by the Interconnection Customer. An increase in system size may also forfelt the Interconnection Customer's existing queue position.

3.0 COMPANY EPS PARAMETERS

| Substation Transformer Name | TB1 |
|---|---------------|
| Transformer Peak Load (MW) | \$.6 |
| Contingency Condition Load, N-1 Criteria (MWI (as applicable) | 11 |
| Daytime Light Load (NIW) | L. J. |
| Seneration Fotal, Connected, Queued (MW) | 8,1,11,5.1 |
| Contingency Condition Generation: Total Connected, Quesied (MW) | 7.6, 2.6, 3.0 |
| Sipoly Voltage (kV) | 13.2 |

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| ·大·一口的 2001年1966年1966年1966年1966年1967年197日,1971年197日,1971年12日 经现金的基础公司 12年12年19日 1971年19月1日日前,1971年19月1日日 | (2) 1 |
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| nationalgrid Interconnect Review | 2 |
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| Transformer Maximum Nameplate Rating (kVA) | A company of the comp |
|--|--|
| Control of the Contro | Yes |
| Olstribution Bus Voltage Regulation Transmission GFOV Status | Installed |
| 1 BUSTIC . The real real way of the description of the real state of the second bulb of t | La estado Nengaranana |
| Number of Feeders Served from this Bus | A manage can do that to the |
| Number of readers served from this east | |

| | 26951 |
|--|--|
| Connecting Feeder/Line | 40931 |
| Peak Load on feeder (kW) | A STATE OF THE PARTY OF THE PAR |
| Daytime Light Load on Feeder (MW) | 1985 es cales (1.8) 1 1 1 1 1 1 1 1 1 |
| Frieder Primary Voltage at POI (kV) | Angell and Alignment and Alignment |
| Line Phasing at POI | |
| Distance to nearest 3-phase, (if applicable) | n/a |
| Line/Source Grounding Configuration at POI | effective |
| Other Generation: Total, Connected, Queued (kW) | 7.6, 2.6, 5.0, 3% |
| and the gradient management of the property of the contract of | he publicate becambon with ad |

| System Fault Characteristics without Interconnection Content on Connection Content on Connection Content on Connection Content on Con | P182-1 (Duanesburg Rd.) |
|---|-------------------------|
| 3-phase (3LLL) | 1,903 Ampš |
| Line to Ground (310) | 894 Amas |
| I (100 MVA base) | 1.0860 + J3.1946 PU |
| (100 MVA base) | 2.7636 + J7 5176 PU |

4.0 INTERCONNECTION CUSTOMER SITE

The Interconnection Customer is proposing a new solar photovoltaic primary service connection with Account No. 2858968039.

This location is presently served via National Orid 132kV feeder 26951 from Delanson Substation

The proposed generating system consists of:

One hundred-eleven HUAWEI SUN2000-46KTL-US 45kW 600VAC, 3-Phase inverters connected to

· 基本公司 医大型性 医阴囊性囊肿的 计电子 医生活 经收益 。

- Nine 800A, 3-Phase Powerboards, having a 800A main circuit breaker, through a 70A pircuit breaker (1 per inverter x 11 per powerboard).
- · Two 600A, 3-phase Powerboards having a 450A main circuit breaker, through a 70A circuit breaker (1 per inverter x 6 per powerboard.)
- Two 2500kVA 2 Winding Design 600V 13.2kV step-up transformers
- The pulputs of both transformers are then connected to a customer owned rise. pole. This then continues on to
- . A customer owned primary service that consists of a distance owned gang goerated air preak awiich.

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ment from the state of the stat

A 75kVA, 3-Phase grounding transformer with Z≠ 5% and X/R ≠ 6 configured wyeground/delta is connected on the primary side of the step up transformers utilizing a
51G ground overcurrent relay through a customer owner recloser.

5.0 SYSTEM IMPACT ANALYSIS

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|--|--|--|--|
| Category , | Caleria maranca do deservir se e | limb | Result |
| | Overvoltage | ≥ 105% (ANSI C84.1) | Fall |
| Voltage | on of the subject generator the maxin | | |
| With the additi | OU Of the anglet Benerator the mayne | | The safe of the same of the |
| To alleviate the | overvollage with the addition of the | subject generator, the bank of 3-7 | 6.2KVA |
| regulators on B | .170 Duanesburg Rd. Would need to b | e replaced with 3 333kVA 7.62kV | regulators with |
| bi-directional c | ontrols and relocated to on or near Po | le 115 Duanesburg Ro | . F |
| Voltage (1) | Undervoltage | >95% (ANSI C84/1) | posencial Camada. |
| With the additi | on of the subject generator the minim | um voltage as modeled on the Fe | eder is 95% of |
| a manifest | | | |
| Voltage New | Substation Regulation for Reverse | Reverse Power on LTC | mārsin Mas ici, "K |
| | Power | | |
| The total gener | ation on Readers 26951 and 26952, is | 8 1 MW. The total minimum load | on these |
| Candare & 1 15 | MW. Therefore, the generation to loa | d ratio is 376% and reverse power | can now. |
| through TB2 on | to the transmission system. TB2 alrea | dy has a LTC with bi-directional co | Mitora and im |
| further action is | required | Targette de la contraction | Fall |
| Voltage | Feeder Regulation for Reverse | Ations of Labrana and Care | vá řeskofos (Cobillatori) |
| The Land Common | rower ation downstream of voltage regulato | P 170 Is 5.08 MW. The minimur | n Ioad |
| The total general | the voltage regulator is 0.217 MW. The | erefore, the generation to load r | atio is 2341%. |
| | | | |
| Bi-directional se | ntrols will be needed on the distribut | ion voltage regulator. | A Michigan Service and the Company of the Service o |
| | Fluctuation | 1 ≼3% steady state from | |
| 3 4 4 A | | | SECTION ST. F. |
| and the second section of the section o | and dispersion of the first of the material and the fight of the state | feeder | Light with the state of the sta |
| The greatest vo | tage fluctuation on the feeder occurs | at P. 170 Buaneshurg Kolline res | AND SOME |
| at the feeder lo | cation is 3% due to the proposed gene | evation. | ego diponent cepanente como edinomitibili porco mon districo como e filipio de la |
| Village | Fuckers Test 7 Test to the State of Park | Screen H Flicker | Pass Pass |
| | ocation with the greatest voltage fluc | | is limit is 0.35. |
| A LESS BOOK THE PROPERTY OF THE PERSON OF TH | 一門,我們發展實際的機能的發展了這一樣的一樣,所以自己的一大一個的自己的自己的一樣,而不能 | 지하다 마음만에 가입하다 기계 하다 하는 것이 되었다. | and the state of t |
| Equipment | Thermal (continuous current) | Thermal limits | Fall |
| Ratings | | | and the state of t |
| The suffect gen | Erator's full maput content is 219 A. T | ha total full output current of all | DER dawasterin |
| or the route differe | carp 470 to 1224. The 3-76,2kVA real | Cators on P.170 thermal capability | nes are took |
| | | | |
| Regulators on M DEA disposition | and would need to be increased in st | de la seta esta constituir de la la constituir de la la constituir de la c | हतं स्थापकारियां वा |

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Equipment ... Railings The additional fault current contribution from the generation does not contribute to interrupting ratings in excess of existing EPS equipment. Unintentional Islanding « Unintentional Islanding Protection Document & Company Guidelines The subject generator is a 5 MW PV generation system. The subject generation exceeds the Company's criteria for Islanding a distributed resource under light load conditions and will require a National Grid protection and control package. Protective device coordination Company Guidelines Fall: Protection 1 There are two reclosers between the subject generator POI and the substation. Recloser R99541 on Alexander Road and recloser R99543 on Duanesburg Road. The subject generator exceeds the Company's criteria for islanding a distributed resource, necessitating the replacement of the R99543 regioser to enable voltage supervised reclose on the DER side of the recloser. The R99541 recloser is already equipped with this functionality and does not need to be replaced, however setting changes are required to maintain coordination with the R99543 recioser. The proposed customer owned recloser for site overcurrent protection will provide adequate coordinate with upstream devices on the Company's EPS. Settings for the 51 and 516 protection shall be submitted to the Company for acceptance review. equipment ing a constitution of the comment of the constitution of the const Fault studies show that contribution from the subject generator for faults on the feeder will not have a significant increase in fault current seen by utility equipment. Aggregate source fault contribution with the addition of the subject generator is within the rated capabilities of EPS equipment. Protection Ground Fault Detection Reduction of reach > x% (by a rese fall a Utility) 三、贼的一个 安安心性 新州港 新疆 英格尔特 彩 The interconnection Customer has proposed a 13.2kV connected 75kVA grounding bank with an impedance of 5% and X/R ratio of 6. To be within Company guidelines the grounding bank shall have an impedance of 33.686 ohms for a voltage base of 13.2kV. With this grounding bank in place the interconnection Customer will contribute approximately 76A of 810 surrent to remote bolted line to ground faults and 328A to faults at the PCC. Company 3V0 criteria Overvoltage - Transmission System Protection The generation to load ratio on the serving distribution system has failed the Company's planning threshold in which transmission ground fault overvoltage become an electrical hazard due to the distribution source contribution. An evaluation of the existing EPS has been performed and it has been determined that protection mitigation methods are required. However, a 3VC protection scheme has already been installed and no further action is required l'Overvettage Distribution System | 4 125 % voltage rise Protection With subject gauerator interconnected the modeled voltage diseon the unfainted phases of the system 13 121%

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| | | HD/X1-21 and X0/X1-23 Library Rassing May 16 days 17 Construction 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|-------------------|---|--|
| With subjec | t generator interconnected the mod | leled RO/X1 is 0.527 PU and the X0/X1 is 2.0877 PU |
| SCADA | Required EMS Visibility for Goneration Sources | Monitoring & Control Fall Reduirements |
| The 5 MW s | ubject generator triggers the requir | ement for SCADA reporting to the Utility. |
| Other | | THE RESIDENCE OF THE PARTY OF T |
| APRICATION OF THE | e season was the law each | <mark>ti na otsas ira tili Dinisa na alia minama atha arail</mark> na il pinakanta turn sannyahana kanama ata sana |

6.0 MITIGATIONS FOR SYSTEM IMPACT ANALYSIS FAILURES

Detail below is intended to provide sufficient information and starity to give the interconnection Customer an understanding to the relationship of costs and scope associated with the DER interconnection and the system modifications due to the DER impact. Where scope items are identified, associated labor, equipment rentals and indirect project support functions (such as engineering and project management) are intended and implied.

| The state of the s | | :Upgrade Required | Option 1 | Fallures Addressed |
|--|------------|---|------------|--|
| Andrew V | | 3VO Substation cost sharing mechanism | 30 | Overvoltage - Transmission System Fault |
| alani, e secularitation de la companie de la compan | | National Grid protection and control package | \$102,\$18 | Unintentional Islanding |
| anner de la compa | | Recloser R95543 on P95 Duanesburg Rd- Full Replacement | \$70.183 | Lack of voltage supervised teclosing |
| | | Removal of existing 3 phase regulator bank and installation of 3 phase regulator bank on P115 Duanseburg Rd | \$85,618 | Overvoltage - |
| | , riag (i. | SCADA Integration | \$6.848 | Required EMS Visibility for Generation Sources |

Additional details on the scope of each option can he found below

240

1000

The substation upgrades required to facilitate the proposed instantion include the following:

- (TC bi-directional control capability is a ready incorporated in TB 1 at Delanson
- A 300 projection scheme is already incorporated at Delay son station

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The Distribution upgrades required to facilitate the proposed installation include the followings

- National Grid Protection and Control Package
- SCADA Integration (equipment integrated into the PCC recloser)
- The 695543 recloser on pole 95 Duanesburg Road will be replaced in its entirety to enable voltage supervised reclosing on the DER side of the recloser.
- Replacing 3-76.2kVA regulators P.170 Duanesburg Rd With 3-333kVA 7.62kV regulators cluster mounted on or near P.115 Duanesburg Rd

7.0 CONGEPTŮAL GOST ESTIMATE

The following items are a good faith estimate for the scope and work required to interconnect the project estimated under rates and schedules in effect at the time of this study in accordance with the most recent version of the New York State Standardized Interconnection Requirements ("SIR").

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and who might be a seed of the seed of the

| National Grid Work Segment | Planning Grade Cost Estimate not including Tax Liability | | | | Capital portion for calculating tax liability | Tax Liability Applied to Capital | Customer Cost Totals | |
|--|--|-----------------|---|-------------------|---|-------------------------------------|--|--|
| Description of Scope | Material | Lation | Overheads | Pre Tax Total | Capital Costs | Rate | fotal | |
| Distribution System Modifications | A SHAPERY AND A SHAPE | | | | 1000 | 14.14% | <u>د و د د د د د د د د د د د د د د د د د د</u> | |
| National Grid Protection and Control Package (Reclaser, Switches, and Paics) | 3 40,289 | \$ 30,573 | \$ 29,382 | \$ 90,265 | 1200 | \$ 11.312 | š 162,519 | |
| | \$ ³⁰⁰ 4,000 | \$ | \$ 2,000 | \$ 6,000 | \$ 5500 | ş <u>848</u> | \$ 5,848 | |
| niew Mid-Line Recloser in the vicinity of 8049 Riverview Road | \$ 41.083 | \$ 11,985 | \$ 3,485 | \$ 61,553 | 4 £ 50 | \$ 8,640 | 3 70,183 | |
| Removal of acisting Francis regulator bank and installation of A chase regulator banksin P113 Currectury Rd | 9 36:47 5 | | \$ 30,844 | \$ 77,414 | David Name | \$ | \$ 855.8 | |
| Substation Middifications | | Sant Sant | Alban and Reserved College and the second | 1 45 | | 14.14% | and the state of t | |
| Non-System Costs | | | | | | 044 | The special section and the second section as the second section as the second | |
| Customar Böcumántáden Rosleiv, Pald Variffesilon and Veibress | | 1 (43) | s sand | \$ 19,000 | 3 | * | \$ 13,000 | |
| esting Total Project Custs | \$ 122,047 | \$ 54,153 | \$ 76,673 | \$ 252,872 | 5 211.339 | 3 30,193 | \$ 243,066 | |
| Dline Sužima v | \$ 122,047 | \$ 54,153 | \$ 76,573 | \$ 252,872 | \$ 213,533 | \$ 12,194 | \$ 283,0% | |
| itation Summary | \$ 122, 4 47 | s \$ \$4,153 | \$ \$ 75,674 | 5 \$, 252,872 | 5 5 213 539 | \$ \$\$0.18 | \$ 283,066 | |

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Notes:

- 4. These estimated costs are based upon the results of this study and are subject to change. All costs anticipated to be incurred by the Company are listed.
- 2. The Company will reconcile actual charges upon project completion and the Interconnection Customer will be responsible for all final charges, which may be higher or lower than estimated according to the SIR I.C step 11.
- 3. This estimate does not include the following:
 - additional interconnection study costs, or study rework
 - additional application fees.
 - applicable surcharges,
 - property taxes,
 - overall project sales tax,
 - · future operation and maintenance costs,
 - adverse field conditions such as weather and Interconnection Customer equipment obstructions.
 - extended construction hours to minimize outage time or Company's public duty to
 - the cost of any temporary construction service, or
 - any required permits.
- 4. Cost adders estimated for evertime would be based on 1.5 and 2 times labor rates if required for work beyond normal business hours. Per Diems are also extra costs potentially incurred for overtime labor.

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Interconnection Gustomer: Oakhill Solar 2 LLC

Applicant: New PowerCo Inc.

5,000 kW PV Generator System Common Automation

Average 1

Interconnection to National Grid
NY East
Northeast Region
Cobleskill District
Delanson Substation

13.2 kV Feeder 26951

THIS DOCUMENT AND ANY ATTACHMENTS HERETO (POCCUMENT) IS MADE AVAILABLE BY NATIONAL GRID UPON AND SUBJECT TO THE EXPRESS UNDERSTANDING THAT: (A) NEITHER NATIONAL GRID NOR ANY OF ITS OFFICERS, DIRECTORS. AFFILIATES, AGENTS, OR EMPLOYEES MAKES ANY WARRANTY ASSURANCE, SUARANTY, OR REPRESENTATION WITH RESPECT TO THE CONTENTS OF THE DOCUMENT OR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED OR REFERENCED IN THE COCUMENT, AND (B) NATIONAL GRID, ITS OFFICERS, DIRECTORS, AFFILIATES, ADENTS, AND EMPLOYEES SHALL NOT HAVE ANY LIRELITY OR RESPONSIBILITY FOR MACCURACIES, ERRORS, OR CAMESIONS IN, OR ANY BUSINESS OF POLICY DECISIONS MADE BY ANY DIRECTOR BIORECT RECIPIENT IN RELIANCE ON, THIS COCUMENT OR THE PROPRIATION CONTAINED OR REFERENCED THEREIN, ALL SECHTLABILITY IS EXPRESSLY DISCLAIMED.

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| | INTERCONNECTION CUSTOMER SITE | 5 |
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| , | CONCEPTUAL COST ESTIMATE | 9 |

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1.0 INTRODUCTION

This report presents the analysis results of the Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid" or the "Company") Interconnection estudy based on the proposed interconnection and design submittal from the Interconnection Customer in accordance with the National Grid electric System Bulletin No. 75, Appendix B Distributed Generation Connected To National Grid Distribution Facilities Per The New York State Standardized Interconnection Requirements. The intent of this report is to assess this project's feasibility, determine its impact to the existing electric power system (EPS), determine interconnection scope and installation equirements and determine costs associated with interconnecting the interconnection Customer's generation to the Company's Electric Power System (EPS). This Coordinated Electric System Impact Review (CESIR) study, according to the NYSSIR Section I.C Step 6: Identifies the scope, schedule, and costs specific to this Interconnection Customer's installation requirements.

2.0 EXECUTIVE SUMMARY

The total estimated planning grade cost of the work associated with the interconnection of the Interconnection Customer is \$153,177.

The Interconnection with the Company EPS was found to not be feasible unless the following modifications to the interconnecting Customers system are completed, which are described in further detail in the body of this Study

The Interconnection was found to be feasible with modifications to the existing Company EPS and operating conditions, which are described in detail in the body of this Study.

The proposed Energy Storage System (ESS) in combination with the generation component of this project shall at no time exceed the generation component of this project or 5,000 kW. The ESS is approved to release energy to the EPS 24 hours a day. and the first of the second of

The ability to generate is contingent on this facility being served by the interconnecting circuit during normal Utility operating conditions. Therefore, if the interconnecting circuit is out of service. or if abnormal Utility operating conditions of the area EPS are in effect National Grid reserves the right to disengage the facility.

No future increase in generation output beyond that which specified herein for his intercomedition has been studied. Any increase in system size and/or design change is subject to a new study and costs associated shall be borne by the Interconnection Customer. An increase in system size may also forfell the Interconnection Customer's existing queue position.

3.0 COMPANY EPS PARAMETERS

| Substation | Delanson 269 |
|-------------------------------|--|
| Transformer Name | 15.1 |
| Transformer Peak (1911: (MVV) | hapitas si a ma kari mina. Wakadaliyatiga ka ka maka kuman mumi mumi mina ma makalima ka kawa. |

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| Contingency Condition Load, N-1 Criteria (MW) (as applicable) | |
|--|--|
| Daytime Light Load (MW) | |
| Generation: Total, Connected, Queved (MW) | |
| Contingency Condition Generation: Total, Connected, Queued (MW) | 12.6, 2.6, 10.0 |
| Supply Voltage (kV) | 17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (|
| Transformer Maximum Nameplate Rating (MVA) | |
| Distribution Bus Voltage Regulation | Yes |
| Transmission GFOV Status معرفة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة | |
| Bus Tie | the backets and the second |
| Number of Feeders Served from this Bus | 7 |

| and the second | Anne survey and the survey of |
|--|--|
| Connecting Feeder/Line | 26951 |
| Peak Load on feeder (MW) | \$2 |
| | promise bridge or last or |
| Feeder Primary Voltage at POI (kV) | and the state of t |
| Line Phasing at POI | 3 |
| Distance to hearest 3-phase, (if applicable) | The selection of the se |
| Line/Source Grounding Configuration at POI | effective |
| Other Generation: Total, Connected, Queued (MW) | 12.6, 2.6, 10.0 |

| The second section of | |
|---|--|
| System Fault Characteristics without Interconnection C Interconnection Customer POI Location | ustomer DG at POI P182-2 Duanesburg Rd. |
| A LA SALE FILE VI BAS SECTION SALES | 1.425 Amos |
| Tune to Ground (310) | 1,116 Amps |
| Z1 (100 MVA base) | 1,4877 + j2,7113 PU 1,4289 + j5,5790 PU |
| 20 (100 MVA base) | 1,4289 F J3.5790 PU |

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4.0 INTERCONNECTION CUSTOMER SITE

agram province and the control of t The Control of the control of

The Interconnection Customer is proposing new solar photovoltaic primary service connection with Account No. 1638576030

This location is presently served by the Company's 13.2kV radial distribution feeder 26951 from Delanson Substation.

The proposed generating system consists of:

One hundred-eleven HUAWEI SUN2000-45KTL-US, 45kW, 600VAC, 3-Phase Inverters connected to 17 mass.

ne of the true material beautiful from a refer to a some of the first on the some of the contract of the contr

- Nine 800A, 3-Rhase Powerboards, having a 800A main circuit breaker, through a 70A directly breaker (1 per inverter x 11 per powerboard).
 - Two 600A, 3-phase Powerboards, having a 450A main circuit breaker, through a 70A circuit breaker (1 per inverter x 6 per powerboard.)
 - Two 2500kVA 2 Winding Design 600V + 13.2kV step-up transformers
 - The outputs of both transformers are then connected to a customer-owned riser pole.
 This then continues on to
 - A customer-owned primary service that consists of a customer-owned gang operated air break switch.
- A 75kVA, 3-Phase grounding transformer with Z= 5% and X/R = 6) configured wyeground/delta is connected on the primary side of the step-up transformers utilizing a 51G ground overcurrent relay through a customer owner recloser

terror e trap **black branch trap b**er solder solder eine bet solder branch **branch branch** best bet e trans branch

5.0 SYSTEM IMPACT ANALYSIS

| Category | Criteria | Limit | Result |
|---|--|--|--|
| | and the contract of the contra | | |
| Voltage | Övervõitage | < 105% (ANSI C84.1) | Fall |
| With the add | ition of the subject generator the maxim | ium voitage as modeled on the | Feeder Is |
| 105.27% of n | | reference respective & | and the second s |
| Voltage | Undervoltage | > 95% (ANSI C84.1) | Pass |
| | tion of the subject generator the minim | · · · · · · · · · · · · · · · · · · · | |
| Propries | and the second s | marketing the property of the second | |
| /oltage | Substation Regulation for Reverse | HOVERSE POWER Official | (2.1) [13] 产((5) [2]) |
| /oltage | Substation Regulation for Reverse Power & Page 1 | | |
| /oltage | | | der Gereiche Werter wie Weite gegen der weiter der werden der |
| /oltage // | Power | 3:1 MW. The total minimum ! | uad on thesa |
| /oltage // //he total gene beders is 2-1 | Power Page 26951 and 26957 % 1 | 3:4 MW The total minimum for a same is 609% and reverse po | uad on these Y |
| Voltage The total germ Tenders is 2-12 Through TB2 of | Power States 26951 and 26952 is to the generation to learn the generation to learn the the transmission system. TE2 already | 3:1 MW. The total minimum last of the section of th | uad on these wereassflow controls wid no |

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The total generation downstream of 3-333kVA voltage regulator on P.115 Duanesburg Rd is 10.08 MW. Due to slownstream DG in queue, the subject voltage regulators will have bi-directional controls. installed and will experience reverse power flow. k3% steady state from Fluctuation (A 4) Voltage proposed generation on feeder with the real standard in reduced by and the contract the second of the second The greatest voltage fluctuation on the feeder occurs at P.23 Old HWY 30 Tax District 7225, Line #86 The resulting fluctuation at the feeder location is 2.1% due to the proposed generation and \$1% on The state of the same and the state of the party of the p the substation bus due to the aggregate generation. Crist tanting against stickling Screen H Flicker Pass Flicker Voltage The Pst for the location with the greatest voltage fluctuation is 0.178 and the emissions limit is 0.35. < 100% thermal limits Thermal (continuous current) Equipment Ratings The subject generator's full output current is 219 A. The total full output current of all DER downstream of 3-333kVA regulators on Pi115 Duanesburg Ad is 441 A. The 3-333kVA regulators thermal capabilities are 437 A. of the course but I are a second to the same the same and the same are a second to the same and the same are a second to the same are a sec · 注:"我们的" Additionally, the Delanson substation getaway conductor consists of 4/0 Bare conductor which has a thermal capability of 440 A. Due to the proposed generation, approximately 200° of conductor must be replaced with 366.4 SAL... Equipment Withstand (fault current) Ratings To deliberate the book references as the The additional fault current contribution from the generation does not contribute to interrupting gatings in excess of existing EPS equipment. Fall Unintentional Islanding Unintentional Islanding Protection Document & Company Guidelines The subject generator is a 5 MW PV generation system. The subject generation exceeds the Company's criteria for islanding a distributed resource under light load conditions and will require a National Grid protection and control package. Fall Protection. Protective device coordination Company Guidelines There are two reclosers between the subject generator POI and the substation. Recloser R99541 on Alexander Road and Feddoer R99543 on Duanesburg Road. The Subject generator exceeds the Company's criteria for islanding a distributed resource, necessitating the replacement of the 899543 recloser to enable voltage supervised reclose on the DER side of the recloser. The R99541 recloser is already equipped with this functionality and does not need to be replaced. Setting changes to the R99541 recloser are regulred to maintain coordination with the R99843 recioser. However the replacement at R99543 and setting changes for R99541 are already planned under an insprocess DER project higher in the queue. The All the second and all the The proposed cost area owned recluser for site oversament protection will provide adequate coordinate with upstraam devices on the Company's EPS. Settings for the St and SIG protection shall be sulumitted to the Company for acceptance review.

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| Protection | Fault Sensitivity | Rated capabilities of EPS | Pass |
|---|--|--|--|
| | | | Ed Land Haller |
| Fault studies | show that contribution from the subj | ect generator for faults on the fee | der will not have |
| a significant i | ncrenso <mark>in fault current seen by ut</mark> ility | y equipment. Aggregate squice fai | ult contribution |
| with the add | tlon of the subject generator is within | the rated capabilities of EPS equi | oment. |
| Protection of | Ground Fault Detection | // Reduction of reach > x% (by Utility) | |
| The Intercons | ection Customer has proposed a 13. | 2kV connected 500kVA grounding | bank with an |
| impedance of | 5%. To be within Company guideline | s the grounding bank shall have a | n impedance of |
| 33.686 for a v | oltage base of 13.2kV. With this grou | nding bank in place the interconn | ection Customer |
| will contribute | approximately 60A of 310 current to | remote boited line to ground fau | its and 308A to |
| faults at the P | cc / / see a s | The state of the s | |
| Protection | Overvoltage - Transmission System | m Company 3V0 criteria | Fall |
| , | Fault | Page San Division | |
| been determin | | ds are regulated. However, 3V0 is | already |
| Protection | | | The second secon |
| | Overvoltage - Distribution System Fault | €125 % voltage rise | Pass |
| wasining the section of the section | Fault | 8 4 | Pass |
| With subject go | Fault Fault Factor interconnected the modeler | d voltage rise on the unfaulted ph | Pass hases of the |
| Protection | Fault enerator interconnected the modeler Effective Grounding | d voltage rise on the unfaulted ph | Pass hases of the Pass |
| Protection | Fault enerator interconnected the modeler Effective Grounding | d voltage rise on the unfaulted ph | Pass hases of the Pass |
| Protection With subject ge | Fault enerator interconnected the modeler Effective Grounding enerator interconnected the modeler | d voltage rise on the unfaulted ph R0/X1 < 1 and X0/X1 < 3 d R0/X1 is 0.3874 PU and the X0/ | Pass nases of the Pass X1 is 1.9712 PU |
| Protection | Fault enerator interconnected the modeler Effective Grounding | d voltage rise on the unfaulted ph R0/X1 < 1 and X0/X1 < 3 d R0/X1 is 0.3874 PU and the X0/ | Pass hases of the Pass X1 is 1.9712 PU Fall |
| Protection With subject go | Fault enerator interconnected the modeler Effective Grounding enerator interconnected the modeler Required EMS Visibility for | d voltage rise on the unfaulted phase Ro/X1 < 1 and X0/X1 < 3 d Ro/X1 is 0 3874 PU and the X0/ Monitoring & Control Requirements | Pass nases of the Pass X1 is 1.9712 PU Fall |
| Protection With subject ge | Fault enerator interconnected the modeler Effective Grounding enerator interconnected the modeler Required EMS Visibility for Generation Sources | d voltage rise on the unfaulted phase Ro/X1 < 1 and X0/X1 < 3 d Ro/X1 is 0 3874 PU and the X0/ Monitoring & Control Requirements | Pass nases of the Pass X1 is 1.9712 PU Fall |
| Protection With subject ge SCADA The 5 MW subject | Fault enerator interconnected the modeler Effective Grounding enerator interconnected the modeler Required EMS Visibility for Generation Sources | d voltage rise on the unfaulted phase Ro/X1 < 1 and X0/X1 < 3 d Ro/X1 is 0 3874 PU and the X0/ Monitoring & Control Requirements | Pass nases of the Pass X1 is 1.9712 PU Fall |

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6.0 MITIGATIONS FOR SYSTEM IMPACT ANALYSIS FAILURES

PAR BOWERD SHARE BUTTER.

Datall below is intended to provide sufficient information and clarity to give the interconnection Customer an understanding to the relationship of costs and scope associated with the DER Interconnection and the system modifications due to the DER impact. Where scope items are identified, associated labor, equipment rentals and indirect project support functions (such as engineering and project management) are intended and implied.

| - 2008 然 信从 2 | CHARLES AND AND ASSESSMENT | is a rando mande de la companio del companio della | Company of the Compan |
|----------------------|--|---|--|
| | upgrade Required | Option 1 | Pailures Addressed |
| | 3VO Substation cost sharing mechanism | \$0 | Overvoltage - Transmission System Fault |
| | National Grid protection and control package | \$ 102,518 | Unintentional Islanding |
| | Reconductor * 200ft of primary overhead 4/0 CU conductor | \$25,812 | Thermal Limits |
| | SCADA Integration | \$6,848 | Reguiçed EMS Visibility for Generation Sources |

Additional details on the scope of each option can be found below:

The Distribution upgrades required to facilitate the proposed installation include the following:

to a large to

National Grid Protection and Control Package

- SCADA Integration (equipment integrated into the PCC recloser)
- Reconductor ~ 200ft of primary overhead 4/0 CU conductor from the Delanson Substation to P.11. Replace 4/0 CU with 336.4 SAL:

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7.0 CONCEPTUAL COST ESTIMATE

The following items are a good faith estimate for the scope and work required to interconnect the project estimated under rates and schedules in effect at the time of this study in accordance with the most recent version of the New York State Standardized Interconnection Requirements ("SIR").

Planning Grade Estimate

| and the second s | ika Karangan ng misangan ng mg | Table | 7-1: Estil | | distribution and an order or | and deministration of the second | State |
|--|---------------------------------------|-----------|--------------------------|--|--|-------------------------------------|---|
| (National Grid Worksegment | Plantin | | Estimate no (ab)lijty | including | Capital portion for calculating tax liability | Tax Liability Applied to Capital | Çustamê/ Çor Torals |
| Dawiption of Scape | Material | Labor | Overheads | Pre Tax Total | Capital Costs | Rats | Yq:≇ |
| Ölsijlbytlen Synem Modifications | | | | | ر پورځي د د د د د ووونو | 16,14% | |
| tigitandi Grid Protestion and Control Paskage (Baciosa), Switches, and Potes) | est,op § | \$ 20,573 | \$ 49,a44 | \$ 90,208 | \$ 7 47,075 | \$ 17,912 | \$ 101,517 |
| SCADA Integration (equipment integrated into PSC Barlonec). | \$ 4,000 | 4 | s z,quo | s 6,000 | \$ \$,000 | 3 848 | \$ 6,843 |
| Reconductor "200" of primary everhead | 1 1,832 | \$ 10,168 | \$ 10,603 | \$ 23,605 | } 13,605 | \$ 1,207 | \$ 25,812 |
| Substalibet Modifications | | | e y−gene | in an elicat | | 14.14% | |
| Non-System Costs | 24212 W. Hart. Water | - 10 mm | | - Canada and Anna and | | 046 | |
| Customer Documentation Taylew, Fletd Verification and Witness Testing | at to coming a few like proportion of | \$ 12,800 | \$ 8 000 | \$ 18,000 | B - | S . | \$ 14 ⁷ 099 |
| rotal Project Costs: | \$ 47,122 | \$ 42,741 | \$ 47,949 | \$ 137,810 | 3 105,694 | 3 18.161 | \$ 153,177 |
| Sine Summary | 5 47,121 | \$ 42,741 | \$ 47,949 | \$137,810 | \$ 108,680 | \$ 15,367 | \$ 153,177 |
| talion Summan | \$ | | | \$ 1.12 | | | |
| ser in the second contraction | \$47,121 | \$ 42,741 | \$ 47.949 | g up Deite | ALC: OF | 14 | \$ 153,177 |

Notes:

- 1. These estimated costs are based upon the results of this study and are subject to change. All costs anticipated to be incurred by the Company are listed.
- 2. The Company will reconcile actual sharges upon project completion and the Interconnection Customer will be responsible for all final charges, which may be higher or lower than estimated according to the SIR LC step 11.
- 3. This estimate does not include the following
 - additional interconnection study costs, or study rework
 - additional application fees.
 - applicable surcharges,
 - properly taxes
 - overall project sales tax,
 - future operation and maintenance costs,
 - adverse field conditions such as wearner and interconnection Customer equipment obstructions.
 - extended construction hours to minimize outage time or Company's public duty to serve.

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- the cost of any temporary construction service, or
- any required permits.
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