

# 2021 Shutesbury Annual Operating Report



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**Operation Conditions:**

1. Should any segment of the perimeter fencing be visible in winter from Reed Road, that visible portion shall be dark green or black in color.

**Response:** Perimeter fencing is not visible during the winter from Reed Road.

2. Signage shall be provided to identify the operator of the facility and provide a 24-hour emergency contact phone number. Signage at the perimeter fence warning pedestrians is allowable. Signage shall not be used for displaying any advertising.

**Response:** There is signage at the site's gate that provides a pedestrian warning as well as the name of the operator and the 24/7 emergency contact phone number.



3. A copy of a final Commissioning Report shall be submitted to the Shutesbury Board of Selectmen no less than 30 days following the activation of the facility.

**Response:** A copy of the Commissioning Report was provided as part of the 2020 Annual report.

4. Emergency Preparedness: Applicant shall provide a copy of the Project summary, electrical schematic, and site plan to the Fire Chief, Highway Superintendent, and Emergency Management Director, and identify a responsible owner/operator for public inquiries throughout the life of the installation prior to the commencement of the operation of the Project. Signage shall be attached to the gate providing the emergency contact information and the responsible person. The Fire Department shall be provided with a means to open the gate on the access road to the security fencing around the array and shall have access to emergency shut-offs for the solar array. The project operators shall provide a training session for the Fire Department and other Town officials responsible for emergency response on how to use the emergency cutoff switches, and other operational details.

**Response:**The training for the Fire Department and Town Officials was completed Q3 2021. The Fire Department has installed their own locks on the gates and has the ability to access the site in case of an emergency. They also have been trained in proper shut offs for the solar array.

5. The owner or operator of the project shall submit an annual report demonstrating and certifying compliance with an Operation and Maintenance Plan and the approved special permit, including but not limited to compliance with the approved plans and any special permit conditions, continuation of liability insurance, and adequacy of emergency access. The annual report shall also provide information on the maintenance completed during the course of the year, the status of the wildflower meadow planted in and around the arrays, and the amount of electricity generated by the facility. The report shall be submitted to the Planning Board, Select Board, Fire Chief, Emergency Management Director, and Building Inspector no later than 45 days after the end of the calendar year.

**Response:** Maintenance completed during 2021:

Completed	Name	Status	Request Description
February-21	Breakdown - Major-Shutesbury - Inv's curtailing, site down prod	Completed	All three inverters were curtailing to about 592kW for at least most of the day on 1/24 and 1/25 with the DAS providing a '523 - TMEIC Inverter Alert (Samurai) - Low Internal Temperature' alert. The cause of the breakdown is unknown.  The site stopped producing at ~2:45PM on 1/26/2021 with no system wide alerts triggered, likely weather (snow) related.
February-21	Snow Removal-Shutesbury	Completed	Snow plow the access road to Pad 2 to support NextEra site work
March-21	Breakdown - Major-Shutesbury - SEL trip/site down	Completed	All phase voltages fell to zero across all meters at ~10:45PM on 3/1/2021. SEL opened at this time and UPS battery activated. Additionally, all inverters, combiner boxes, and meters for Pads 2 and 3 stopped communicating.
April-21	Breakdown - Major-Shutesbury - All Inv no prod	Completed	All inverters failed to energize on 4/16/2021. The DAS did not provide a fault code. Per wunderground.com, snow was recorded all day long.
May-21	Corrective Maintenance-Shutesbury	Completed	Temporary Antenna
June-21	Breakdown - Partial-Shutesbury - Inv 2 & 3 Under, Inv 1 Over perf	Completed	TMEIC 1.5 MW Inverters 2 and 3 are hitting a max power of 1350 kW instead of the expected 1500kW. The DAS does not display a fault message for the devices during these times and the cause of the breakdown is unknown. Both inverters also appear to be derating when a "Low internal temp" alarm is present.
June-21	Breakdown - Major-Shutesbury - all invs fault	Completed	TMEIC Inverters 1-3 faulted and de-energized at ~6:30AM on 6/14/2021. DAS displays the alert "Minor Fault Ext Minor Fault - Depending on External Connection of I/O PCB" for Inverters 1 and 3.
July-21	Special Project-Shutesbury	Completed	Fire Dept. Training
August-21	Data Communications-Shutesbury - Offtaker No Comms	Completed	Offtaker device stopped reporting to the DAS at ~6:01 PM on 5/20/2021. The DAS gives a "Data communication" alert for this issue. The cause of the breakdown is unknown.
September-21	Site Tour with Town	Completed	Site tour and site cleanup for tour
September-21	Corrective Maintenance-Shutesbury	Completed	Inspect/Repair issues found during Raptor Maps inspection.
November-21	Breakdown - Major-Shutesbury - SEL open/site down	Completed	SEL 351 began reporting "Tripped" status at ~9:15AM on 11/23/2021. All inverters stopped reporting and the site stopped producing at this time. Recloser reset in evening and site RTS
December-21	2021 Preventative Maintenance Inspection	Completed	Preventative Maintenance Inspection (2021)
December-21	Road Resurfacing	Completed	Resurfacing of entrance road through gate to approximately 200 feet into site. Remainder to be resurfaced in spring
December-21	Corrective Maintenance-Shutesbury	Completed	NEER observed rodent intrusion in Inv.1. Wires have been chewed by the rodents.
December-21	Breakdown - Major-Shutesbury - Inv. 1 Fault	Completed	TMEIC 1500kW inverter 1 faulted and de-energized at ~8:40 AM (MST) on 11/30/2021. DAS provided the following alert: "Minor Fault, Ext Minor Fault - Depending on External Connection of I/O PCB". Cause is unknown.

Energy Production per Month:

Date	Production Meter Net KWH
Jan-21	245148
Feb-21	172727
Mar-21	705342
Apr-21	699845
May-21	830938
Jun-21	866192
Jul-21	683669
Aug-21	705991
Sep-21	658555
Oct-21	523491
Nov-21	406281
Dec-21	205478

A copy of the certification of liability insurance is included in Appendix A.

6. Applicant shall use only water, and shall not use any soaps, solvents, or other chemicals, in the cleaning of the PV modules.

**Response:**No module washing has occurred since construction.

7. The project shall have no permanently-affixed exterior lighting.

**Response:** Project does not have exterior lighting.

8. Herbicide use is prohibited, except in cases of spot treatments to control invasive species, provided only MDAR-approved herbicides as provided on the Sensitive Area Materials list shall be used. Vegetation control shall be by mechanical means. Mowing in and around the solar arrays shall occur no more than once per year, in October or November only. Occasional cutting of plants that shade the solar arrays is permitted provided it is done by a hand-held machine and not by a mower or tractor.

**Response:** Herbicide is not used on site. Mechanical mowing occurs in October each year and trimming by hand-held machine is completed as needed as vegetation growth impacts production due to shading.

9. All electric power generated at the Project site shall be from solar energy.

**Response:** All electric power generated at the project is from solar energy.

10. After the completion of construction and site stabilization, the drainage ditches constructed along either side of the access drive between Pratt Corner Road and the first drainage basin shall be top-dressed with a mixture of wood chips and forest soils from the site. Thereafter, the ditches shall be allowed to re-vegetate from ambient seed sources. No mowing or cutting is permitted except for tree cutting and trimming necessary to maintain the serviceability of the access driveway.

**Response:** The ditches have re-vegetated from ambient seed sources. The ditches are not mowed unless vegetation impedes access to or within the site.

11. The applicant will ensure that initial wildflower meadow plantings installed after construction are stabilized and established sufficiently by any necessary replacement of plants, reseeding, or application of soil amendments for as many growing seasons as is necessary to cover at least 90 percent of the ground surface with either the plants initially installed, native plants that have filled in, or a combination.

**Response:** The site's near 90 percent ground surface covered with native vegetation. A site clearing (rocks, branches, etc) was completed June of 2021 and will allow greater coverage of growth at the site. The coverage of the vegetation will be observed throughout the summer and a reseeding will occur if needed in the fall to ensure 90 percent coverage is achieved. In September, the vegetation received positive remarks from the Conservation Commission in regard to coverage on the site.



12. All access and internal driveways, fencing, gates, signage, drainage and stormwater infrastructure, solar equipment, and the wildflower meadow shall be maintained and kept in good working order by the owner or operator for the life of the Project.

**Response:** Due to increased erosion observed in the spring and summer of 2021, Wheelock undertook road repairs and grading on the main access road to ensure it remains in good condition. Wheelock plans to perform more grading and road maintenance in the spring to ensure the longevity of the material. Wheelock will be performing work to ensure the stormwater system is performing as designed, which will include work in the basin and on-site ditches.





# Appendix A



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/2/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Beecher Carlson Insurance Services a Brown & Brown company 6 Concourse Parkway, Suite 2300 Atlanta, GA 30328  www.bbinsurance.com	<b>CONTACT NAME:</b> Brown & Brown <b>PHONE (A/C, No. Ext):</b> 678-539.4800 <b>E-MAIL ADDRESS:</b>	<b>FAX (A/C, No):</b> 770-870-3031
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> DG Massachusetts CS 2021, LLC NextEra Energy, Inc. NextEra Energy Resources, LLC 700 Universe Boulevard Juno Beach FL 33408-2657	<b>INSURER A:</b> Indemnity Insurance Co of North America <b>NAIC #</b> 43575	
	<b>INSURER B:</b>	
	<b>INSURER C:</b>	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

**COVERAGES**

CERTIFICATE NUMBER: 66579205

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Time Element Pollution GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CGO G72490678	9/15/2021	9/15/2022	EACH OCCURRENCE \$5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$5,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$5,000,000 GENERAL AGGREGATE \$5,000,000 PRODUCTS - COMP/OP AGG \$5,000,000 \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<input type="checkbox"/> <b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Town of Shutesbury Special Permit.  
 See attached "Additional Remarks Schedule" for additional information.

**CERTIFICATE HOLDER**

Town of Shutesbury  
 PO Box 276  
 Shutesbury MA 01072

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE *Beecher Carlson Insurance Services, LLC*

Beecher Carlson Insurance Services, LLC

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ACORD 25 (2016/03)

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**ADDITIONAL REMARKS SCHEDULE**

AGENCY Beecher Carlson Insurance Services		NAMED INSURED DG Massachusetts CS 2021, LLC NextEra Energy, Inc. NextEra Energy Resources, LLC 700 Universe Boulevard Juno Beach FL 33408-2657	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

**ADDITIONAL REMARKS**

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**

**FORM NUMBER:** 25      **FORM TITLE:** Certificate of Liability (03/16)

**HOLDER:** Town of Shutesbury

**ADDRESS:** PO Box 276 Shutesbury MA 01072

Re: Town of Shutesbury Special Permit.

Certificate Holder included as Additional Insured and Waiver of Subrogation applies except where not permissible by law as required by written contract, subject to policy terms, conditions and exclusions.

This insurance is primary and non-contributory over any existing insurance and limited to the liability arising out of the operations of the named insured and where required by written contract.

Severability of interest wording applies to the above policies.

In the event of cancellation by the insurance company, the policy has been endorsed to provide 30 days Notice of Cancellation (except for non-payment) to the certificate holder.