



Conservation Services Group

DE 11-099

40 Washington Street  
Westborough, MA 01581

Tel 508.836.9500  
Fax 508.836.3138

[www.csgrp.com](http://www.csgrp.com)

April 20, 2011

Debra A. Howland  
Executive Director & Secretary  
New Hampshire Public Utilities Commission  
21 South Fruit Street, Suite 10  
Concord, NH 03301-2429



**RE: Facility Application to qualify for Class II New Hampshire RPS certificate acquisition**

Dear Ms. Howland,

I am writing on behalf of our client Princeton Grossing L.P., to apply for New Hampshire renewable portfolio certificate acquisition. Please find attached a completed application including all necessary documentation as required under order PUC 2500 to establish the Princeton Commons solar unit as an eligible Class II facility under RSA 362-F.

Please submit any questions, concerns or further documentation requests directly to Mrs. Stephanie Lovejoy Hamilton at the contact information listed below. Thank you for your time and attention to this matter.

Conservation Services Group  
Legal Affairs and Compliance  
Clean Energy Markets  
40 Washington Street  
Westborough, MA 01581  
Tel: 508-836-9500 ext 13285  
Cell: 508-439-0417  
Fax: 508-836-3181  
[stephanie.hamilton@csgrp.com](mailto:stephanie.hamilton@csgrp.com)

Sincerely,

Conservation Services Group

# THE STATE of NEW HAMPSHIRE

## Public Utilities Commission

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*Facility Application to qualify for certificate acquisition under PUC  
2500 of the New Hampshire Electric Renewable Portfolio Standard*

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### **SECTION I: IDENTIFICATION INFORMATION**

**(1). Applicant:**

Conservation Services Group  
40 Washington Street, Westborough MA 01581  
Patricia Stanton,  
Senior Vice President of Policy and Advocacy  
40 Washington Street  
Westborough MA, 01581  
Phone: 508-836-9500  
Fax: 508-836-3181  
Email: [pat.stanton@csgroup.com](mailto:pat.stanton@csgroup.com)

**(A) Prohibit Relationships:**

There is no prohibited relationship between Conservation Services Group (Applicant), Princeton Crossing L.P (Facility Operator), PH HemChelm, LLC (Facility Owner) and Powerdash (Independent Monitor).

**(2). Facility Owner:**

**PH HemChelm LLC**  
1115 Westford Street, Lowell MA 01851  
Phone: 978-458-8700  
Email: [kshillington@princetonproperties.com](mailto:kshillington@princetonproperties.com)

**(3) Facility Operator:**

**Princeton Grossing L.P.**

Kurt Shillington

1115 Westford Street Lowell MA 01851

Phone: 978-458-8700

Email: kshillington@princetonproperties.com

**(4). Independent Monitor**

**(A) PowerDash LLC. (PowerDash)**

152 North 3rd Street, Suite 400

San Jose, CA 95112-5560

**(B) Qualification**

PowerDash is qualified and offering Independent Monitor services to units that qualify for Massachusetts Renewable Portfolio Standard (RPS).

**(C) Independence**

There are no circumstances in which PowerDash would not be considered sufficiently independent to perform the required Independent Monitoring tasks as required under NH Puc 2505.09

**(E) Compensation:**

PowerDash compensation for monitoring services will be on a fixed fee or billable hour basis and will never be based, in any way, on the quantity of attributes reported to the, New Hampshire Public Utility Commission or the NEPOOL Generation Information Service (GIS).

**(D) Reporting:**

At least annually, PowerDash will measure Princeton Properties electricity production and report that production to the Owner, Applicant and the New Hampshire Public Utility Commission, as well as providing all inspections as required by NH Puc 2507.04 (h).

**(5) Installer:**

GroSolar

601 Old River Road

White River Junction

Vermont 05001

Telephone: (802) 295-4415

Fax: (802) 295-4417

**(6) Seller**

Same as Installer

**SECTION II: FACILITY DESCRIPTION**

**(1) Facility Name:**

Princeton Commons

**(2) Facility Information:**

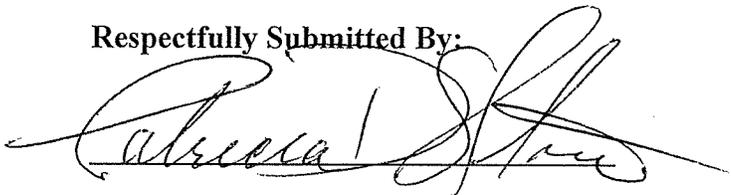
Princeton Properties is a photovoltaic installation, detailed directly below:

| Name              | Project Site Address                 | Name Plate | Commercial Operation Date | Meter   | Inverter          | Solar Panels             |
|-------------------|--------------------------------------|------------|---------------------------|---------|-------------------|--------------------------|
| Princeton Commons | 1 Technology Drive<br>Chelmsford, MA | 22.4kW     | 12/8/2010                 | GE-i210 | SAT COM<br>PVS-30 | Canadian Solar CS5P-240M |

**ATTACHED DOCUMENTATION**

- 1) Attestation signed and executed by the owner attesting that the was properly installed
- 2) Certificate of Authorization
- 3) Interconnection Agreement for the site.

Respectfully Submitted By:



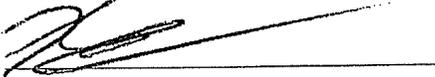
**Patricia Stanton  
Conservation Services Group**

## Attestation

March 24, 2011  
Debra A. Howland  
Executive Director & Secretary  
New Hampshire Public Utilities Commission  
21 South Fruit Street, Suite 10  
Concord, NH 03301-2429

I, Kurt Shillington, Operations Manager, of Princeton Crossing L.P., do hereby certify and affirm that the solar unit named Princeton Commons, based on my personal knowledge, were all installed and are operating in conformance with applicable building codes. In addition all the information contained within the New Hampshire facility application for certificate acquisition submitted for Princeton Commons solar unit are true and correct to the best of my knowledge.

Signature:



Date:

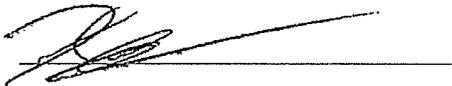
3/28/2011

Certification of Authorized Representative

March 24, 2011  
Debra A. Howland  
Executive Director & Secretary  
New Hampshire Public Utilities Commission  
21 South Fruit Street, Suite 10  
Concord, NH 03301-2429

I, Kurt Shillington, Operations Manager, of Princeton Crossing L.P., certify that Patricia Stanton, Senior Vice President of Policy and Advocacy Conservation Services Group, is authorized to execute and submit the New Hampshire Electric Renewable Portfolio Standard Application for the Princeton Commons solar unit pursuant to Chapter PUC 2500.

Signature:



Date:

3/28/2011



Conservation Services Group

) 40 Washington Street  
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April 20, 2011

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Please submit any questions, concerns or further documentation requests directly to Mrs. Stephanie Lovejoy Hamilton at the contact information listed below. Thank you for your time and attention to this matter.

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Legal Affairs and Compliance  
Clean Energy Markets  
40 Washington Street  
Westborough, MA 01581  
Tel: 508-836-9500 ext 13285  
Cell: 508-439-0417  
Fax: 508-836-3181  
[stephanie.hamilton@csgrp.com](mailto:stephanie.hamilton@csgrp.com)

Sincerely,

Conservation Services Group

Generating Facility Expedited/Standard Process  
Interconnection Application

3 Contact Information Date Prepared: 4/1/2010  
4 Legal Name and address of Interconnecting Customer applicant (or, if an Individual, Individual's Name)  
5 Company Name: Princeton Commons Contact Person: Kurt Shillington  
6 Mailing Address: 1115 Westford Street  
7 City: Lowell State: MA Zip Code: 01851  
8 Telephone (Daytime): 978-468-8700 (Evening):  
9 Facsimile Number: E-Mail Address: kshillington@princetonproperties.com

10 Alternative Contact Information (if different from Applicant)  
11 NOTE: add lines/sections for coordinating contractor & local electrical contractor as appropriate.

12  
13 Name: Global Resource Options, Inc. dba groSolar  
14 Mailing Address: 17B Sterling Road  
15 City: N. Billerica State: MA Zip Code: 01862  
16 Telephone (Daytime): 978-215-2353 (Evening): 800-374-4494 (Corporate)  
17 Facsimile Number: 877-772-3280 E-Mail Address: courtney.rand@grosolar.com

18 Ownership (include % ownership by any electric utility): Interconnecting Customer  
19 Confidentiality Statement: not applicable in RI or NH: "I agree to allow information regarding the  
20 processing of my application (without my name and address) to be reviewed by the Massachusetts DG  
21 Collaborative that is exploring ways to further expedite future interconnections." Yes  No

22 Generating Facility Information  
23 Address of Facility (if different from above): 1 Technology Drive Building 1  
24 City: N. Chelmsford State: MA Zip Code: 01863  
25 Electric Service Company: National Grid Account Number: (required - on bill) 14616-36001  
26 Meter Number 06017717 (required - on bill)  
27 Type of Generating Unit: Synchronous Induction Inverter   
28 Manufacturer: Satcon Model: PVS-30KW  
29 Nameplate Rating: 30.0 (kW) 208 (kVAR) (Volts) Single or Three  Phase  
30 Prime Mover: Fuel Cell Recip Engine Gas Turb Steam Turb Microturbine PV  Other  
31 Energy Source: Solar  Wind Hydro Diesel Natural Gas Fuel Oil Other  
32 For Solar PV provide system total DC-STC rating: 22.08 (KW) (Specify)  
33 UL1741 Listed? Yes  No Need an air quality permit from DEP? Yes No  Not Sure  
34 Planning to Export Power? Yes  No A Cogeneration Facility? Yes No   
35 Anticipated Export Power Purchaser: Utility through net metering  
36 Export Form? Simultaneous Purchase/Sale Net Purchase/Sale Net Metering  Other  
37 Est. Install Date: 5/24/2010 Est. In-Service Date: 7/1/2010 Agreement Needed By: 5/17/2010

38 Application Process  
39 I hereby certify that, to the best of my knowledge, all of the information provided in this application is true:  
40 Interconnecting Customer Signature: Title: Author: & Signed Date: 4-7-10  
41 The information provided in this application is complete:  
42 Company Signature: Title: VP Date: 4-7-10

Alex Kurikbae Sr. Eng 04-21-10

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NIC

Set - 1/5/07  
Schlumberger

MA-1144a

Generating Facility Technical Detail

Date: 4/1/2010

List components of the generating facility that are currently certified and/or listed to national standards

|    | Equipment Type   | Manufacturer  | Model                    | National Standard         |
|----|------------------|---------------|--------------------------|---------------------------|
| 1. | <u>PV Module</u> | <u>Solon</u>  | <u>P220/6+/01 230 Wp</u> | <u>UL</u>                 |
| 2. | <u>Inverter</u>  | <u>Salcon</u> | <u>PVS-30 (208 V)</u>    | <u>IEEE to UL Listing</u> |
| 3. | _____            | _____         | _____                    | _____                     |
| 4. | _____            | _____         | _____                    | _____                     |
| 5. | _____            | _____         | _____                    | _____                     |
| 6. | _____            | _____         | _____                    | _____                     |

Total Number of Generating Units in Facility? 1

Generator Unit Power Factor Rating: >.99 @ nominal power

Max Adjustable Leading Power Factor? n/a Max Adjustable Lagging Power Factor? n/a

Generator Characteristic Data (for all inverter-based machines)

Max Design Fault Contribution Current? 110A Instantaneous x or RMS? \_\_\_\_\_

Harmonics Characteristics: <3% THD

Start-up power requirements: 183-229 VAC

Generator Characteristic Data (for all rotating machines) N/A

Rotating Frequency: \_\_\_\_\_ (rpm) Neutral Grounding Resistor (If Applicable): \_\_\_\_\_

Additional Information for Synchronous Generating Units N/A

Synchronous Reactance, X<sub>d</sub>: \_\_\_\_\_ (PU) Transient Reactance, X'<sub>d</sub>: \_\_\_\_\_ (PU)

Subtransient Reactance, X''<sub>d</sub>: \_\_\_\_\_ (PU) Neg Sequence Reactance, X<sub>2</sub>: \_\_\_\_\_ (PU)

Zero Sequence Reactance, X<sub>0</sub>: \_\_\_\_\_ (PU) KVA Base: \_\_\_\_\_

Field Voltage: \_\_\_\_\_ (Volts) Field Current: \_\_\_\_\_ (Amps)

Additional information for Induction Generating Units N/A

Rotor Resistance, R<sub>r</sub>: \_\_\_\_\_ Stator Resistance, R<sub>s</sub>: \_\_\_\_\_

Rotor Reactance, X<sub>r</sub>: \_\_\_\_\_ Stator Reactance, X<sub>s</sub>: \_\_\_\_\_

Magnetizing Reactance, X<sub>m</sub>: \_\_\_\_\_ Short Circuit Reactance, X<sub>d</sub>'': \_\_\_\_\_

Exciting Current: \_\_\_\_\_ Temperature Rise: \_\_\_\_\_

Frame Size: \_\_\_\_\_

Total Rotating Inertia, H: \_\_\_\_\_ Per Unit on KVA Base: \_\_\_\_\_

Reactive Power Required In Vars (No Load): \_\_\_\_\_

Reactive Power Required In Vars (Full Load): N/A

Additional information for Induction Generating Units that are started by motoring

Motoring Power: \_\_\_\_\_ (kW) Design Letter: \_\_\_\_\_

Interconnection Facilities Technical Detail

Date: 4/1/2010

Will a transformer be used between the generator and the point of Interconnection? Yes \_\_\_ No \_\_\_

Will the transformer be provided by Interconnecting Customer? Yes \_\_\_ No \_\_\_

Transformer Data (If applicable, for Interconnecting Customer-Owned Transformer): N/A

Nameplate Rating: \_\_\_\_\_ (kVA) Single \_\_\_ or Three \_\_\_ Phase

Transformer Impedance: \_\_\_\_\_ (%) on a \_\_\_\_\_ KVA Base

If Three Phase:

Transformer Primary: \_\_\_\_\_ (Volts) \_\_\_ Delta \_\_\_ Wye \_\_\_ Wye Grounded \_\_\_ Other

Transformer Secondary: \_\_\_\_\_ (Volts) \_\_\_ Delta \_\_\_ Wye \_\_\_ Wye Grounded \_\_\_ Other

Transformer Fuse Data (If applicable, for Interconnecting Customer-Owned Fuse): N/A

(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Size: \_\_\_\_\_ Speed: \_\_\_\_\_

Interconnecting Circuit Breaker (if applicable):

Manufacturer: CH Type: BR Load Rating: 110 Interrupting Rating: 10K Trip Speed: 1/60th  
(Amps) (Amps) (Cycles)

Interconnection Protective Relays (if applicable): N/A

(If microprocessor-controlled)

List of Functions and Adjustable Setpoints for the protective equipment or software:

|    | Setpoint Function | Minimum | Maximum |
|----|-------------------|---------|---------|
| 1. | _____             | _____   | _____   |
| 2. | _____             | _____   | _____   |
| 3. | _____             | _____   | _____   |
| 4. | _____             | _____   | _____   |
| 5. | _____             | _____   | _____   |
| 6. | _____             | _____   | _____   |

(If discrete components)

(Enclose copy of any proposed Time-Overcurrent Coordination Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

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Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Current Transformer Data (If applicable): N/A

(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Potential Transformer Data (if applicable): N/A

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

General Technical Detail

Date: 4/1/2010

Enclose 3 copies of a site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes with a stamp from a professional engineer (PE) registered in the state of the facility.

Enclose 3 copies of any applicable site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram).

Proposed Location of Protective Interface Equipment on Property:  
(Include Address if Different from Application Address)

Enclose copy of any applicable site documentation that describes and details the operation of the protection and control schemes.

Enclose copies of applicable schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Please enclose any other information pertinent to this installation.

MAIL COMPLETE PACKAGE TO: National Grid, Attn: Distributed Generation  
(Alex Kuriakose), 40 Sylvan Rd (E1.553), Waltham, MA, 02451-1120

Rel:

Simplified Process Interconnection Application and Service Agreement

Contact Information: Date Prepared: 4/29/2010
Legal Name and address of Interconnecting Customer (or, Company name, if appropriate)
Customer or Company Name (print): Princeton Commons Contact Person, if Company: Kurt Shillington
Mailing Address: 1115 Westford Street
City: Lowell State: MA Zip Code: 01851
Telephone (Daytime): 978-458-8700 (Evening):
Facsimile Number: E-Mail Address: kshillington@princetonproperties.com

NIC

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Alternative Contact Information (e.g., system installation contractor or coordinating company, if appropriate):
Name: Global Resource Options, Inc. dba groSolar Attn: Courtney Rand
Mailing Address: 17B Sterling Road
City: N. Billerica State: MA Zip Code: 01862
Telephone (Daytime): 978-215-2353 (Evening): 800-374-4494 (Corporate)
Facsimile Number: 877-772-3280 E-Mail Address: courtney.rand@grosolar.com

Electrical Contractor Contact Information (if appropriate): N/A
Name: Telephone:
Mailing Address:
City: State: Zip Code:

set: 01/05/07

Ownership Information (include % ownership by any electric utility): Interconnectin Customer
Confidentiality Statement (MA only): "I agree to allow information regarding the processing of my application (without my name and address) to be reviewed by the Massachusetts DG Collaborative that is exploring ways to further expedite future interconnections." Yes X No

Facility Information:
Address of Facility: 1 Technology Drive, Building 2
City: N. Chelmsford State: MA Zip Code: 01863
Electric Service Company: National Grid Account Number: 02234-34008 Meter Number: 06017718
Inverter Manufacturer: PVPowered Model Name and Number: PVP4600, PVP2800 Quantity: 4
Nameplate Rating: 16.6 (kW) (kVA) 208 (AC Volts) Single or Three x Phase
System Design Capacity: 16.1 (kW) (kVA) For Solar PV provide the DC-STC rating: 16.1 (KW)
Prime Mover: Photovoltaic [X] Reciprocating Engine [ ] Fuel Cell [ ] Turbine [ ] Other [ ]
Energy Source: Solar [X] Wind [ ] Hydro [ ] Diesel [ ] Natural Gas [ ] Fuel Oil [ ] Other [ ]
IBEE 1547.1 (UL 1741) Listed? Yes X No
Estimated Install Date: 5/24/10 Estimated In-Service Date: 7/1/10

Schlumberger

Customer Signature
I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions on the following page:
Interconnecting Customer Signature: Title: OPERATIONS Manager Date: 5/4/10
Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.



Approval to Install Facility (For Company use only)
Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes No To be Determined)
Company Signature: Title: Intern Date: 06/03/10
Application ID number: MA-1213 Company waives inspection/Witness Test? Yes No

RL

## Terms and Conditions for Simplified Process Interconnections

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility once the Approval to Install the Facility has been signed by the Company.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the following has occurred:
  - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
  - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion appearing as Attachment 2 to the Agreement to the Company at address noted.
  - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** Within ten (10) business days after receipt of the Certificate of Completion, the Company may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Tariff. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. If the Company does not inspect in 10 days or by mutual agreement of the Parties, the Witness Test is deemed waived.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Access.** The Company shall have access to the disconnect switch (if required) of the Facility at all times.
6. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
7. **Metering and Billing.** All Facilities approved under this Agreement qualify for net metering, as approved by the Department from time to time, and the following is necessary to implement the net metering provisions:
  - 7.1. **Interconnecting Customer Provides Meter Socket.** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards.
  - 7.2. **Company Installs Meter.** The Company shall furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
8. **Indemnification.** Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
9. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
10. **Termination.** This Agreement may be terminated under the following conditions:
  - 10.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
  - 10.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
  - 10.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
11. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
12. **Interconnection Tariff.** These Terms and Conditions are pursuant to the Company's Tariff for the Interconnection of Customer-Owned Generating Facilities, as approved by the Department of Telecommunications and Energy and as the same may be amended from time to time ("Interconnection Tariff"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Tariff (see Company's website for complete tariff).

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Generating Facility Expedited/Standard Process  
Interconnection Application

Contact Information

Date Prepared: 4/1/2010

Legal Name and address of Interconnecting Customer applicant (or, if an Individual, Individual's Name)

Company Name: Princeton Commons ✓ Contact Person: Kurt Shillington

Mailing Address: 1115 Westford Street

City: Lowell State: MA Zip Code: 01861

Telephone (Daytime): 978-468-8700 (Evening):

Facsimile Number: E-Mail Address: kshillington@princetonproperties.com

Alternative Contact Information (if different from Applicant)

NOTE: add lines/sections for coordinating contractor & local electrical contractor as appropriate.

Name: Global Resource Options, Inc. dba groSolar

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Confidentiality Statement: not applicable in RI or NH: "I agree to allow information regarding the processing of my application (without my name and address) to be reviewed by the Massachusetts DG Collaborative that is exploring ways to further expedite future interconnections." Yes  No

Generating Facility Information

Address of Facility (if different from above): 1 Technology Drive Building 3 ✓

City: N. Chelmsford ✓ State: MA ✓ Zip Code: 01863 ✓

Electric Service Company: National Grid Account Number: (required - on bill) 78917-88009 ✓

Meter Number 05017718 ✓ (required - on bill)

Type of Generating Unit: Synchronous \_\_\_\_\_ Induction \_\_\_\_\_ Inverter

Manufacturer: Satcon, PV Powered Model: PVS-30KW, PVP4600

Nameplate Rating: 34.6 (kW) \_\_\_\_\_ (kVAR) 208 (Volts) Single \_\_\_\_\_ or Three  Phase

Prime Mover: Fuel Cell \_\_\_\_\_ Recip Engine \_\_\_\_\_ Gas Turb \_\_\_\_\_ Steam Turb \_\_\_\_\_ Microturbine \_\_\_\_\_ PV  Other \_\_\_\_\_

Energy Source: Solar  Wind \_\_\_\_\_ Hydro \_\_\_\_\_ Diesel \_\_\_\_\_ Natural Gas \_\_\_\_\_ Fuel Oil \_\_\_\_\_ Other \_\_\_\_\_ (Specify)

For Solar PV provide system total DC-STC rating: 26.68 (KW)

UL1741 Listed? Yes  No \_\_\_\_\_ Need an air quality permit from DEP? Yes \_\_\_\_\_ No  Not Sure \_\_\_\_\_

Planning to Export Power? Yes  No \_\_\_\_\_ A Cogeneration Facility? Yes \_\_\_\_\_ No

Anticipated Export Power Purchaser: Utility through net metering

Export Form? Simultaneous Purchase/Sale \_\_\_\_\_ Net Purchase/Sale \_\_\_\_\_ Net Metering  Other \_\_\_\_\_ (Specify)

Est. Install Date: 5/24/2010 Est. In-Service Date: 7/1/2010 Agreement Needed By: 5/17/2010

Application Process

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true:

Interconnecting Customer Signature: \_\_\_\_\_ Title: Sr. Eng. Date: 4-7-10

The information provided in this application is complete:

Company Signature: \_\_\_\_\_ Title: VP Date: 4-7-10

Alex Kurvakose Sr. Eng. 04-21-10

NIC  
G-1

Set - 1/5/07

Schlumberger

MA-11446



Interconnection Facilities Technical Detail

Date: 4/1/2010

Will a transformer be used between the generator and the point of interconnection? Yes \_\_\_ No \_\_\_

Will the transformer be provided by Interconnecting Customer? Yes \_\_\_ No \_\_\_

Transformer Data (If applicable, for Interconnecting Customer-Owned Transformer): N/A

Nameplate Rating: \_\_\_\_\_ (kVA) Single \_\_\_ or Three \_\_\_ Phase

Transformer Impedance: \_\_\_\_\_ (%) on a \_\_\_\_\_ KVA Base

If Three Phase:

Transformer Primary: \_\_\_\_\_ (Volts) \_\_\_ Delta \_\_\_ Wye \_\_\_ Wye Grounded \_\_\_ Other

Transformer Secondary: \_\_\_\_\_ (Volts) \_\_\_ Delta \_\_\_ Wye \_\_\_ Wye Grounded \_\_\_ Other

Transformer Fuse Data (If applicable, for Interconnecting Customer-Owned Fuse): N/A

(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Size: \_\_\_\_\_ Speed: \_\_\_\_\_

Interconnecting Circuit Breaker (if applicable):

Manufacturer: CH Type: BR Load Rating: 150 Interrupting Rating: 10K Trip Speed: 1/60th  
(Amps) (Amps) (Cycles)

Interconnection Protective Relays (if applicable): N/A

(If microprocessor-controlled)

List of Functions and Adjustable Setpoints for the protective equipment or software:

| Setpoint Function | Minimum | Maximum |
|-------------------|---------|---------|
| 1. _____          | _____   | _____   |
| 2. _____          | _____   | _____   |
| 3. _____          | _____   | _____   |
| 4. _____          | _____   | _____   |
| 5. _____          | _____   | _____   |
| 6. _____          | _____   | _____   |

(If discrete components)

(Enclose copy of any proposed Time-Overcurrent Coordination Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

Current Transformer Data (if applicable): N/A

(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Potential Transformer Data (if applicable): N/A

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

General Technical Detail

Date: 4/1/2010

Enclose 3 copies of a site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes with a stamp from a professional engineer (PE) registered in the state of the facility.

Enclose 3 copies of any applicable site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram).

Proposed Location of Protective Interface Equipment on Property:  
(Include Address if Different from Application Address)

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Enclose copy of any applicable site documentation that describes and details the operation of the protection and control schemes.

Enclose copies of applicable schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Please enclose any other information pertinent to this installation.

MAIL COMPLETE PACKAGE TO: National Grid, Attn: Distributed Generation  
(Alex Kuriakose), 40 Sylvan Rd (E1.553), Waltham, MA, 02451-1120

Simplified Process Interconnection Application and Service Agreement

Contact Information: Date Prepared: 4/29/2010
Legal Name and address of Interconnecting Customer (or, Company name, if appropriate)
Customer or Company Name (print): Princeton Commons Contact Person, if Company: Kurt Shillington
Mailing Address: 1115 Westford Street
City: Lowell State: MA Zip Code: 01851
Telephone (Daytime): 978-458-8700 (Evening):
Facsimile Number: E-Mail Address: kshillington@princetonproperties.com

NIC
GT

Alternative Contact Information (e.g., system installation contractor or coordinating company, if appropriate):
Name: Global Resource Options, Inc. dba groSolar Attn: Courtney Rand
Mailing Address: 17B Sterling Road
City: N. Billerica State: MA Zip Code: 01862
Telephone (Daytime): 978-215-2353 (Evening): 800-374-4494 (Corporate)
Facsimile Number: 877-772-3280 E-Mail Address: courtney.rand@grosolar.com

Electrical Contractor Contact Information (if appropriate): N/A
Name: Telephone:
Mailing Address:
City: State: Zip Code:

set 01/05/07

Ownership Information (include % ownership by any electric utility): Interconnectin Customer
Confidentiality Statement (MA only): "I agree to allow information regarding the processing of my application (without my name and address) to be reviewed by the Massachusetts DG Collaborative that is exploring ways to further expedite future interconnections." Yes X No

Facility Information:
Address of Facility: 1 Technology Drive, Building 4
City: N. Chelmsford State: MA Zip Code: 01863
Electric Service Company: National Grid Account Number: 89389-76006 Meter Number: 05017720
Inverter Manufacturer: PVPowered Model Name and Number: PVP1800, PVP2800 Quantity: 4
Nameplate Rating: 16.6 (kW) (kVA) 208 (AC Volts) Single or Three x Phase
System Design Capacity: 16.1 (kW) (kVA) For Solar PV provide the DC-STC rating: 18.1 (KW)
Prime Mover: Photovoltaic [X] Reciprocating Engine [ ] Fuel Cell [ ] Turbine [ ] Other [ ]
Energy Source: Solar [X] Wind [ ] Hydro [ ] Diesel [ ] Natural Gas [ ] Fuel Oil [ ] Other [ ]
IEEE 1547.1 (UL 1741) Listed? Yes X No
Estimated Install Date: 5/24/10 Estimated In-Service Date: 7/1/10

Schwenberger

Customer Signature
I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions on the following page:
Interconnecting Customer Signature: [Signature] Title: OPERATIONS MGR Date: 5/4/10
Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.



Approval to Install Facility (For Company use only)
Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes No To be Determined
Company Signature: [Signature] Title: Inter Date: 06/03/10
Application ID number: MA-12114 Company waives inspection/Witness Test? Yes No

## Terms and Conditions for Simplified Process Interconnections

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility once the Approval to Install the Facility has been signed by the Company.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the following has occurred:
  - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
  - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion appearing as Attachment 2 to the Agreement to the Company at address noted.
  - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** Within ten (10) business days after receipt of the Certificate of Completion, the Company may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Tariff. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. If the Company does not inspect in 10 days or by mutual agreement of the Parties, the Witness Test is deemed waived.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Access.** The Company shall have access to the disconnect switch (if required) of the Facility at all times.
6. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
7. **Metering and Billing.** All Facilities approved under this Agreement qualify for net metering, as approved by the Department from time to time, and the following is necessary to implement the net metering provisions:
  - 7.1. **Interconnecting Customer Provides Meter Socket.** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards.
  - 7.2. **Company Installs Meter.** The Company shall furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
8. **Indemnification.** Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
9. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
10. **Termination.** This Agreement may be terminated under the following conditions:
  - 10.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
  - 10.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
  - 10.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
11. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
12. **Interconnection Tariff.** These Terms and Conditions are pursuant to the Company's Tariff for the Interconnection of Customer-Owned Generating Facilities, as approved by the Department of Telecommunications and Energy and as the same may be amended from time to time ("Interconnection Tariff"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Tariff (see Company's website for complete tariff).

STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

**Exhibit F – Interconnection Service Agreement**

1. **Parties.** This Interconnection Service Agreement ("Agreement"), dated as of 06/15/2010 ("Effective Date") is for application "MA-1144a-b" and entered into, by and between Massachusetts Electric Company, a Massachusetts Corporation with a principal place of business at 40 Sylvan Rd, Waltham, MA 02451 (hereinafter referred to as the "Company"), and PH Henchelm LLC a(n) Limited Liability Corporation with a principal place of business at 1115 Westford Street, Lowell, MA 01851 ("Interconnecting Customer"). (The Company and Interconnecting Customer are collectively referred to as the "Parties"). Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff which is hereby incorporated by reference.

2. **Basic Understandings.** This Agreement provides for parallel operation of an Interconnecting Customer's Facility with the Company EPS to be installed and operated by the Interconnecting Customer at Kurt Shillington dba Princeton Commons, 1 Technology Drive, Building 1 & 3, North Chemsford, MA 01863 with account number 14616-36001 & 76917-38009. A description of the Facility is located in Attachment 2. If the Interconnecting Customer is not the Customer, an Agreement between the Company and the Company's Retail Customer, attached as Exhibit G to the Interconnection Tariff, must be signed and included as an Attachment to this Agreement.

The Interconnecting Customer has the right to operate its Facility in parallel with the Company EPS immediately upon successful completion of the protective relays testing as witnessed by the Company and receipt of written notice from the Company that interconnection with the Company EPS is authorized ("Authorization Date").

3. **Term.** This Agreement shall become effective as of the Effective Date. The Agreement shall continue in full force and effect until terminated pursuant to Section 4 of this Agreement.

4. **Termination.**

4.1 This Agreement may be terminated under the following conditions.

4.1.1 The Parties agree in writing to terminate the Agreement.

4.1.2 The Interconnecting Customer may terminate this agreement at any time by providing sixty (60) days written notice to Company.

4.1.3 The Company may terminate this Agreement upon the occurrence of an Event of Default by the Interconnecting Customer as provided in Section 18 of this Agreement.

4.1.4 The Company may terminate this Agreement if the Interconnecting Customer either: (1) fails to energize the Facility within 12 months of the Authorization Date; or, (2) permanently abandons the Facility. Failure to operate the Facility for any consecutive 12 month period after the Authorization Date shall constitute permanent abandonment unless otherwise agreed to in writing between the Parties.

4.1.5 The Company, upon 30 days notice, may terminate this Agreement if there are any changes in Department regulations or state law that have a material adverse effect on the Company's ability to perform its obligations under the terms of this Agreement.

4.2 **Survival of Obligations.** The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of termination. Sections 5, 10, 12, 13, and 25 as it relates to disputes pending or for wrongful termination of this Agreement shall survive the termination of this Agreement.

4.3 **Related Agreements.** Any agreement attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

5. **General Payment Terms.** The Interconnecting Customer shall be responsible for the System Modifications costs and payment terms identified in Attachment 4 of this Agreement and any approved cost increases pursuant to the terms of the Interconnection Tariff. If the system modifications exceed \$25,000, Attachment 4 will include a payment and construction schedule for both parties.

5.1 **Cost or Fee Adjustment Procedures.** The Company will, in writing, advise the Interconnecting Customer in advance of any cost increase for work to be performed up to a total amount of increase of 10% only. All costs that exceed the 10% increase cap will be borne solely by the Company. Any such changes to the Company's costs for the work shall be subject to the Interconnecting Customer's consent. The

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

Interconnecting Customer shall, within thirty (30) days of the Company's notice of increase, authorize such increase and make payment in the amount up to the 10% increase cap, or the Company will suspend the work and the corresponding agreement will terminate.

**5.2 Final Accounting.** Upon request by the Interconnecting Customer, the Company within ninety (90) business days after completion of the construction and installation of the System Modifications described in an attached exhibit to the Interconnection Service Agreement, shall provide Interconnecting Customer with a final accounting report of any difference between (a) Interconnecting Customer's cost responsibility under the Interconnection Service Agreement for the actual cost of such System Modifications, and (b) Interconnecting Customer's previous aggregate payments to the Company for such System Modifications. To the extent that Interconnecting Customer's cost responsibility in the Interconnection Service Agreement exceeds Interconnecting Customer's previous aggregate payments, the Company shall invoice Interconnecting Customer and Interconnecting Customer shall make payment to the Company within 45 days. To the extent that Interconnecting Customer's previous aggregate payments exceed Interconnecting Customer's cost responsibility under this agreement, the Company shall refund to Interconnecting Customer an amount equal to the difference within forty five (45) days of the provision of such final accounting report.

### 6. Operating Requirements

**6.1 General Operating Requirements.** Interconnecting Customer shall operate and maintain the Facility in accordance with the applicable manufacturer's recommended maintenance schedule, in compliance with all aspects of the Company's Interconnection Tariff. The Interconnecting Customer will continue to comply with all applicable laws and requirements after interconnection has occurred. In the event the Company has reason to believe that the Interconnecting Customer's installation may be the source of problems on the Company EPS, the Company has the right to install monitoring equipment at a mutually agreed upon location to determine the source of the problems. If the Facility is determined to be the source of the problems, the Company may require disconnection as outlined in Section 7.0 of the Interconnection Tariff. The cost of this testing will be borne by the Company unless the Company demonstrates that the problem or problems are caused by the Facility or if the test was performed at the request of the Interconnecting Customer.

**6.2 No Adverse Effects; Non-interference.** Company shall notify Interconnecting Customer if there is evidence that the operation of the Facility could cause disruption or deterioration of service to other Customers served from the same Company EPS or if operation of the Facility could cause damage to Company EPS or Affected Systems. The deterioration of service could be, but is not limited to, harmonic injection in excess of IEEE Standard 1547-2003, as well as voltage fluctuations caused by large step changes in loading at the Facility. Each Party will notify the other of any emergency or hazardous condition or occurrence with its equipment or facilities which could affect safe operation of the other Party's equipment or facilities. Each Party shall use reasonable efforts to provide the other Party with advance notice of such conditions.

The Company will operate the EPS in such a manner so as to not unreasonably interfere with the operation of the Facility. The Interconnecting Customer will protect itself from normal disturbances propagating through the Company EPS, and such normal disturbances shall not constitute unreasonable interference unless the Company has deviated from Good Utility Practice. Examples of such disturbances could be, but are not limited to, single-phasing events, voltage sags from remote faults on the Company EPS, and outages on the Company EPS. If the Interconnecting Customer demonstrates that the Company EPS is adversely affecting the operation of the Facility and if the adverse effect is a result of a Company deviation from Good Utility Practice, the Company shall take appropriate action to eliminate the adverse effect.

**6.3 Safe Operations and Maintenance.** Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for, the facility or facilities that it now or hereafter may own unless otherwise specified in this Agreement. Each Party shall be responsible for the maintenance, repair and condition of its respective lines and appurtenances on their respective side of the PCC. The Company and the Interconnecting Customer shall each provide equipment on its respective side of the PCC that adequately protects the Company's EPS, personnel, and other persons from damage and injury.

**6.4 Access:** The Company shall have access to the disconnect switch of the Facility at all times.

**6.4.1 Company and Interconnecting Customer Representatives.** Each Party shall provide and update as necessary the telephone number that can be used at all times to allow either Party to report an emergency.

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

- 6.4.2 Company Right to Access Company-Owned Facilities and Equipment.** If necessary for the purposes of the Interconnection Tariff and in the manner it describes, the Interconnecting Customer shall allow the Company access to the Company's equipment and the Company's facilities located on the Interconnecting Customer's or Customer's premises. To the extent that the Interconnecting Customer does not own all or any part of the property on which the Company is required to locate its equipment or facilities to serve the Interconnecting Customer under the Interconnection Tariff, the Interconnecting Customer shall secure and provide in favor of the Company the necessary rights to obtain access to such equipment or facilities, including easements if the circumstances so require.
- 6.4.3 Right to Review Information.** The Company shall have the right to review and obtain copies of Interconnecting Customer's operations and maintenance records, logs, or other information such as, unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Interconnecting Customer's Facility or its interconnection with the Company EPS. This information will be treated as customer-confidential and only used for the purposes of meeting the requirements of Section 4.2.4 in the Interconnection Tariff.

## 7. Disconnection

### 7.1 Temporary Disconnection

- 7.1.1 Emergency Conditions.** Company shall have the right to immediately and temporarily disconnect the Facility without prior notification in cases where, in the reasonable judgment of Company, continuance of such service to Interconnecting Customer is imminently likely to (i) endanger persons or damage property or (ii) cause a material adverse effect on the integrity or security of, or damage to, Company EPS or to the electric systems of others to which the Company EPS is directly connected. Company shall notify Interconnecting Customer promptly of the emergency condition. Interconnecting Customer shall notify Company promptly when it becomes aware of an emergency condition that affects the Facility that may reasonably be expected to affect the Company EPS. To the extent information is known, the notification shall describe the emergency condition, the extent of the damage or deficiency, or the expected effect on the operation of both Parties' facilities and operations, its anticipated duration and the necessary corrective action.
- 7.1.2 Routine Maintenance, Construction and Repair.** Company shall have the right to disconnect the Facility from the Company EPS when necessary for routine maintenance, construction and repairs on the Company EPS. The Company shall provide the Interconnecting Customer with a minimum of seven calendar days planned outage notification consistent with the Company's planned outage notification protocols. If the Interconnecting Customer requests disconnection by the Company at the PCC, the Interconnecting Customer will provide a minimum of seven days notice to the Company. Any additional notification requirements will be specified by mutual agreement in the Interconnection Service Agreement. Company shall make an effort to schedule such curtailment or temporary disconnection with Interconnecting Customer.
- 7.1.3 Forced Outages.** During any forced outage, Company shall have the right to suspend interconnection service to effect immediate repairs on the Company EPS; provided, however, Company shall use reasonable efforts to provide the Interconnecting Customer with prior notice. Where circumstances do not permit such prior notice to Interconnecting Customer, Company may interrupt Interconnection Service and disconnect the Facility from the Company EPS without such notice.
- 7.1.4 Non-Emergency Adverse Operating Effects.** The Company may disconnect the Facility if the Facility is having an adverse operating effect on the Company EPS or other customers that is not an emergency, and the Interconnecting Customer fails to correct such adverse operating effect after written notice has been provided and a maximum of 45 days to correct such adverse operating effect has elapsed.

**7.1.5 Modification of the Facility.** Company shall notify Interconnecting Customer if there is evidence of a material modification to the Facility and shall have the right to immediately suspend interconnection service in cases where such material modification has been implemented without prior written authorization from the Company.

**7.1.6 Re-connection.** Any curtailment, reduction or disconnection shall continue only for so long as reasonably necessary. The Interconnecting Customer and the Company shall cooperate with each other to restore the Facility and the Company EPS, respectively, to their normal operating state as

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

soon as reasonably practicable following the cessation or remedy of the event that led to the temporary disconnection.

### 7.2 Permanent Disconnection.

7.3 **The Customer.** The Interconnecting Customer has the right to permanently disconnect at any time with 30 days written notice to the Company.

7.4 **The Company.** The Company may permanently disconnect the Facility upon termination of the Interconnection Service Agreement in accordance with the terms thereof.

8. **Metering.** Metering of the output from the Facility shall be conducted pursuant to the terms of the Interconnection Tariff.
9. **Assignment.** Except as provided herein, Interconnecting Customer shall not voluntarily assign its rights or obligations, in whole or in part, under this Agreement without Company's written consent. Any assignment Interconnecting Customer purports to make without Company's written consent shall not be valid. Company shall not unreasonably withhold or delay its consent to Interconnecting Customer's assignment of this Agreement. Notwithstanding the above, Company's consent will not be required for any assignment made by Interconnecting Customer to an Affiliate or as collateral security in connection with a financing transaction. In all events, the Interconnecting Customer will not be relieved of its obligations under this Agreement unless, and until the assignee assumes in writing all obligations of this Agreement and notifies the Company of such assumption.
10. **Confidentiality.** Company shall maintain confidentiality of all Interconnecting Customer confidential and proprietary information except as otherwise required by applicable laws and regulations, the Interconnection Tariff, or as approved by the Interconnecting Customer in the Simplified or Expedited/Standard Application form or otherwise.

### 11. Insurance Requirements.

#### 11.1 General Liability.

11.1.(a) In connection with Interconnecting Customer's performance of its duties and obligations under the Interconnection Service Agreement, Interconnecting Customer shall maintain, during the term of the agreement, general liability insurance with a combined single limit of not less than:

- i. Five million dollars (\$5,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than five (5) MW.
- ii. Two million dollars (\$2,000,000) for each occurrence and five million dollars (\$5,000,000) in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one (1) MW and less than or equal to five (5) MW;
- iii. One million dollars (\$1,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one hundred (100) kW and less than or equal to one (1) MW;
- iv. Five hundred thousand dollars (\$500,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than ten (10) kW and less than or equal to one hundred (100) kW, except as provided below in subsection 11.1(b).

11.1.(b) Class 1 Net Metering (facilities less than or equal to sixty (60)). However, the Company recommends that the Interconnecting Customer obtain adequate insurance to cover potential liabilities.

11.1.(c) Any combination of General Liability and Umbrella/Excess Liability policy limits can be used to satisfy the limit requirements stated above.

(d) The general liability insurance required to be purchased in this Section 11 may be purchased for the direct benefit of the Company and shall respond to third party claims asserted against the Company (hereinafter known as "Owners Protective Liability"). Should this option be chosen, the requirement of Section 11.2(a) will not apply but the Owners Protective Liability policy will be purchased for the direct benefit of the Company and the Company will be designated as the primary and "Named Insured" under the policy.

STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

- 11.1.(e) The insurance hereunder is intended to provide coverage for the Company solely with respect to claims made by third parties against the Company.
- 11.1.(f) In the event the Commonwealth of Massachusetts, or any other governmental subdivision thereof subject to the claims limits of the Massachusetts Tort Claims Act, G.L. c. 258 (hereinafter referred to as the "Governmental Entity") is the Interconnecting Customer, any insurance maintained by the Governmental Entity shall contain an endorsement that strictly prohibits the applicable insurance company from interposing the claims limits of G.L. c. 258 as a defense in either the adjustment of any claim, or in the defense of any lawsuit directly asserted against the insurer by the Company. Nothing herein is intended to constitute a waiver or indication of intent to waive the protections of G.L. c. 258 by the Governmental Entity.
- 11.1.(g) Notwithstanding the requirements of section 11.1(a) through (f), insurance for certain Governmental Entity facilities may be provided as set forth in section 11.1(g)(i) and (ii) below. Nothing herein changes the provision in subsection 11.1(a)(iv) that exempts Class I Net Metering facilities (less than or equal to 60 kW) from the requirement to obtain insurance. In addition, nothing shall prevent the Governmental Entity from obtaining insurance consistent with the provisions of subsection 11.1(a) through (f), if it is able and chooses to do so.
- i. For solar photovoltaic (PV) facilities with a Gross Nameplate Rating in excess of 60 kW up to 500 kW, the Governmental Entity is not required to obtain liability insurance. Any liability costs borne by the Company associated with a third-party claim for damages in excess of the claims limit of the Massachusetts Tort Claims Act, M.G.L. c. 258, and market-based premium-related costs, if any, borne by the Company associated with insurance for such third-party claims shall be recovered annually on a reconciling basis in Company rates in a manner that shall be reviewed and approved by the Department.
  - ii. For (a) PV facilities with a Gross Nameplate Rating in excess of 500 kW up to 5 MW, (b) wind facilities with a Gross Nameplate Rating in excess of 60 kW up to 5 MW, and (c) highly efficient combined heat and power facilities with a Gross Nameplate Rating of in excess of 60 kW up to 5 MW, the Governmental Entity is not required to obtain liability insurance, subject to the requirements of the following paragraph.

The Company shall either self-insure for any risk associated with possible third-party claims for damages in excess of the Massachusetts Tort Claims Act limit, or obtain liability insurance for such third-party claims, and the Company is authorized to charge and collect from the Governmental Entity its pro-rata allocable share of the cost of so doing, plus all reasonable administrative costs. The coverage and cost may vary with the size and type of facility, and may change (increase or decrease) over time, based on insurance market conditions, and such cost shall be added to, and paid for as part of the Governmental Entity's electric bill.

- 11.2 Insurer Requirements and Endorsements. All required insurance shall be carried by reputable insurers qualified to underwrite insurance in MA having a Best Rating of "A-". In addition, all insurance shall, (a) include Company as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that Company shall not incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30) calendar days' written notice to Company prior to cancellation, termination, or material change of such insurance; provided that to the extent the Interconnecting Customer is satisfying the requirements of subpart (d) of this paragraph by means of a presently existing insurance policy, the Interconnecting Customer shall only be required to make good faith efforts to satisfy that requirement and will assume the responsibility for notifying the Company as required above.

If the requirement of clause (a) in the paragraph above prevents Interconnecting Customer from obtaining the insurance required without added cost or due to written refusal by the insurance carrier, then upon Interconnecting Customer's written Notice to Company, the requirements of clause (a) shall be waived.

- 11.3 Evidence of Insurance. Evidence of the insurance required shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by Interconnecting Customer.

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

The Interconnecting Customer is responsible for providing the Company with evidence of insurance in compliance with the Interconnection Tariff on an annual basis.

Prior to the Company commencing work on System Modifications and annually thereafter, the Interconnecting Customer shall have its insurer furnish to the Company certificates of insurance evidencing the insurance coverage required above. The Interconnecting Customer shall notify and send to the Company a certificate of insurance for any policy written on a "claims-made" basis. The Interconnecting Customer will maintain extended reporting coverage for three years on all policies written on a "claims-made" basis.

In the event that an Owners Protective Liability policy is provided, the original policy shall be provided to the Company.

**11.4 Self Insurance.** If Interconnecting Customer has a self-insurance program established in accordance with commercially acceptable risk management practices. Interconnecting Customer may comply with the following in lieu of the above requirements as reasonably approved by the Company:

- Interconnecting Customer shall provide to Company, at least thirty (30) calendar days prior to the Date of Initial Operation, evidence of such program to self-insure to a level of coverage equivalent to that required.
- If Interconnecting Customer ceases to self-insure to the standards required hereunder, or if Interconnecting Customer is unable to provide continuing evidence of Interconnecting Customer's financial ability to self-insure, Interconnecting Customer agrees to promptly obtain the coverage required under Section 11.1.

This section shall not allow any Governmental Entity to self-insure where the existence of a limitation on damages payable by a Government Entity imposed by the Massachusetts Tort Claims Act, G.L. c. 258, or similar law, could effectively limit recovery (by virtue of a cap on recovery) to an amount lower than that required in Section 11.1(a).

**11.5** All insurance certificates, statements of self insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

National Grid  
Attn: Risk Management  
300 Erie Blvd West  
Syracuse, NY 13202

**12. Indemnification.** Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of or are in any manner connected with the performance of this Agreement by that Party except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the Party seeking indemnification.

**13. Limitation of Liability.** Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including court costs and reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage or liability actually incurred. In no event shall either Party be liable to the other Party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.

**14. Amendments and Modifications.** No amendment or modification of this Agreement shall be binding unless in writing and duly executed by both Parties.

**15. Permits and Approvals.** Interconnecting Customer shall obtain all environmental and other permits lawfully required by governmental authorities for the construction and operation of the Facility. Prior to the construction of System Modifications, the interconnecting customer will notify the Company that it has initiated the permitting process. Prior to the commercial operation of the Facility the Customer will notify the Company that

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

it has obtained all permits necessary. Upon request the Interconnecting Customer shall provide copies of one or more of the necessary permits to the Company.

### 16. Force Majeure. For purposes of this Agreement, "Force Majeure Event" means any event:

- a. that is beyond the reasonable control of the affected Party; and
- b. that the affected Party is unable to prevent or provide against by exercising commercially reasonable efforts, including the following events or circumstances, but only to the extent they satisfy the preceding requirements: acts of war or terrorism, public disorder, insurrection, or rebellion; floods, hurricanes, earthquakes, lighting, storms, and other natural calamities; explosions or fire; strikes, work stoppages, or labor disputes; embargoes; and sabotage. If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, such Party will promptly notify the other Party in writing, and will keep the other Party informed on a continuing basis of the scope and duration of the Force Majeure Event. The affected Party will specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the affected Party is taking to mitigate the effects of the event on its performance. The affected Party will be entitled to suspend or modify its performance of obligations under this Agreement, other than the obligation to make payments then due or becoming due under this Agreement, but only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of reasonable efforts. The affected Party will use reasonable efforts to resume its performance as soon as possible. In no event will the unavailability or inability to obtain funds constitute a Force Majeure Event.

### 17. Notices

- 17.1 Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given on the date actually delivered in person or five (5) business days after being sent by certified mail, e-mail, or any nationally-recognized delivery service with proof of delivery, postage prepaid, to the person specified below:

If to Company: National Grid  
ATT: Distributed Generation  
40 Sylvan Rd  
Waltham, MA 02451  
e-mail: Distributed.Generation@us.ngrid.com

If to Interconnecting Customer: PH Henschelm LLC  
ATT: Kurt Shillington  
1115 Westford Street  
Lowell, MA 01851  
e-mail: kshillington@PrincetonProperties.com  
Phone: 978-458-8700  
FAX: 978-458-8701

- 17.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 16.1.

- 17.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

### 18. Default and Remedies

- 18.1 Defaults. Any one of the following shall constitute "An Event of Default."

- i. One of the Parties shall fail to pay any undisputed bill for charges incurred under this Agreement, or other amounts which one Party owes the other Party as and when due, any such failure shall continue for a period of thirty (30) days after written notice of nonpayment from the affected Party to the defaulting Party, or
- ii. One of the Parties fails to comply with any other provision of this Agreement or breaches any representation or warranty in any material respect and fails to cure or remedy that default or breach within sixty (60) days after notice and written demand by the affected Party to cure the same or such longer period reasonably required to cure (not to exceed an additional 90 days unless

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

The following attachments would be developed and included as appropriate for each specific Interconnection Service Agreement:

### Attachment 1: Description of Facilities, including demarcation of Point of Common Coupling

#### Description of the Customer Electrical System:

The Interconnecting Customer is installing three-phase 97.8kW PV generating systems consists of four (4) Satcon 208V, three-phase inverters. The inverters output connects the customer revenue grade production meter then to the 1200A fused utility disconnect located in the electrical closet of the building. The fused switch connects to National Grid transformer and pad mounted revenue meter. The point of common coupling (PCC) is the secondary bushings of the pad mounted transformer. The total customer load is estimated to vary between 60kW and 205 kW multiple times during the day. The customer therefore will export power beyond the PCC onto National Grid's Electric Power System (EPS) regularly. National Grid will issue a request for a bidirectional meter at the premise.

#### Description of National Grid's EPS:

The area is normally served by National Grid's 13.2 kV Y grounded radial circuit, the 2L4 feeder from the North Chelmsford Substation. PV systems will be added to 4 residential buildings at 1 Technology Dr in N. Chelmsford for a total of 97Kw. Buildings #1 and #4 are served by a 300Kva padmounted transformer. There are a total of 31 customers in these buildings with the maximum transformer summer peak load of 53Kva and estimated minimum load 17Kva. The max PV rating is 46.6Kw and therefore it can be expected that power will be exported to the system during off peak times. Buildings #2 and #3 are also served by a 300Kva padmounted transformer. There are a total of 77 customers in these buildings with the maximum transformer summer peak load of 152Kva and estimated minimum load 45Kva. The max PV rating is 51.2Kw and therefore it may be expected that power will be exported to the system during off peak times. Buildings #1 & #4 is served from a 300Kva Transformer out of manhole #6 on Technology Dr. and Buildings #2 & #3 are served from manhole #1 on Research Dr.

The peak load of the 2L4 circuit was 8510Kva in the summer of 2009. The Minimum day load is estimated to be 2837Kva and therefore PV power will not be exported into the substation.

Interconnecting Customer is installing a 30 KW photovoltaic (PV) system at Princeton Commons, 1 Technology Drive, Building #1, North Chelmsford, MA. The system consists of one (1) - Satcon PVS-30 - 208 volt inverter and (96) CANDIAN SOLAR CS6P-230M solar modules. An External Disconnect is located outside on the northeast corner of the building. This External Disconnect also know as the utility disconnect switch, shall be clearly labeled and accessible by National Grid employees at all times.

The system is connected behind customer meter. Point of Common coupling is the secondary service connections feeding the building from pad-mounted 300 KVA, 120/208volt transformer Pad #6-2 out of manhole #6 on Technology Dr in North Chelmsford, MA.

Interconnecting Customer is installing a 34.6 KW photovoltaic (PV) system at Princeton Commons, 1 Technology Drive, Building #3, North Chelmsford, MA. The system consists of one (1) - Satcon PVS-30 - 208 volt inverter and (116) SOLON BLUE 220/01 - 230W solar modules. An External Disconnect is located outside near the southwest corner of the building. This External Disconnect also know as the utility disconnect switch, shall be clearly labeled and accessible by National Grid employees at all times.

The system is connected behind customer meter. Point of Common coupling is the secondary service connections feeding the building from pad-mounted 300 KVA, 120/208volt transformer served from manhole #1 on Research Drive in North Chelmsford, MA.

## STANDARDS FOR INTERCONNECTING DISTRIBUTED GENERATION

### Attachment 2: Description of System Modifications

A permanent plaque or directory shall be installed at the revenue meter and at the PCC with a warning about the generator(s) installed. If the utility disconnect switch is not adjacent to the meter, a permanent plaque shall be provided at the meter locating the switch. All plaque as described in NEC 705.10, 705.12 (7), 690.56, 692.4 and 705.70 shall be installed when applicable.

The company will install a new metering for bi-directional flow for building #1 and #3.

No other system modifications are required.

### Attachment 3: Costs of System Modifications and Payment Terms

No system modification costs.

### Attachment 4: Special Operating Requirements, if any

If any of the accounts listed in this service agreement changes owners, National Grid would need to be notified and new Service Agreements would need to be sent out.

Should voltage or power quality issues arise on neighboring accounts, Interconnecting Customer shall work cooperatively with the Company to resolve service issues and resolve issues with their equipment at the Interconnecting Customer's expense.

No other special operating requirements.

### Attachment 5: Agreement between the Company and the Company's Retail Customer

If the retail customer is not the owner and/or operator of the distributed generation facility include Exhibit G of the Interconnection Tariff signed by the Company's retail customer where DG installation and interconnection will be placed.

**Kurt Shillington**

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**From:** Distributed.Generation [Distributed.Generation@us.ngrid.com]  
**Sent:** Tuesday, November 09, 2010 3:53 PM  
**To:** Kurt Shillington  
**Cc:** cs@masscec.com; courtney.rand@grosolar.com  
**Subject:** Authority to Interconnect - National Grid - ## MA - 1214 - Princeton Commons - Building - 4

Dear Sir/Madam:

You are authorized to interconnect your 16.6 kW PV system at 1 Technology Drive, Building 4, North Chelmsford, MA with National Grid's distribution system. A new bi-directional meter has been installed to accurately register your energy use/production.

Regards,  
Pavan Dhavaleshwar  
Distributed Generation  
National Grid  
Department Email Address: Distributed.Generation@us.ngrid.com

\*\*\*\*\*  
This e-mail and any files transmitted with it, are confidential to National Grid and are intended solely for the use of the individual or entity to whom they are addressed. If you have received this e-mail in error, please reply to this message and let the sender know.

**Kurt Shillington**

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**From:** Distributed.Generation [Distributed.Generation@us.ngrid.com]  
**Sent:** Wednesday, December 08, 2010 7:34 AM  
**To:** Kurt Shillington  
**Cc:** courtney.rand@grosolar.com  
**Subject:** Authority to Interconnect - National Grid - ## MA - 1144b - Princeton Commons Bldg 3

Good morning,

You are authorized to interconnect your 34.6 kW PV system at 1 Technology Drive Bldg 3, North Chelmsford, MA with National Grid's distribution system. A bi-directional meter was installed at your facility in order to accurately register your energy use/production.

Caleb George  
Distributed Generation  
National Grid  
40 Sylvan Rd (E3.572A)  
Waltham, MA 02451-1120

\*\*\*\*\*

This e-mail and any files transmitted with it, are confidential to National Grid and are intended solely for the use of the individual or entity to whom they are addressed. If you have received this e-mail in error, please reply to this message and let the sender know.

**Kurt Shillington**

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**From:** Distributed.Generation [Distributed.Generation@us.ngrid.com]  
**Sent:** Tuesday, November 09, 2010 11:32 AM  
**To:** Kurt Shillington  
**Cc:** cs@masscec.com; courtney.rand@grosolar.com  
**Subject:** Authority to Interconnect - National Grid - ## MA - 1213 - Princeton Commons - Building - 2

Dear Sir/Madam:

You are authorized to interconnect your 16.6 kW PV system at 1 Technology Drive, Building 2, North Chelmsford, MA with National Grid's distribution system. A new bi-directional meter has been installed to accurately register your energy use/production.

Regards,  
Pavan Dhavaleshwar  
Distributed Generation  
National Grid  
Department Email Address: Distributed.Generation@us.ngrid.com

\*\*\*\*\*  
This e-mail and any files transmitted with it, are confidential to National Grid and are intended solely for the use of the individual or entity to whom they are addressed. If you have received this e-mail in error, please reply to this message and let the sender know.

**Kurt Shillington**

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**From:** Distributed.Generation [Distributed.Generation@us.ngrid.com]  
**Sent:** Wednesday, December 08, 2010 7:32 AM  
**To:** Kurt Shillington  
**Cc:** courtney.rand@grosolar.com  
**Subject:** Authority to Interconnect - National Grid - ## MA - 1144a - Princeton Commons Bldg 1

Good morning,

You are authorized to interconnect your 30 kW PV system at 1 Technology Drive Bldg 1, North Chelmsford, MA with National Grid's distribution system. A bi-directional meter was installed at your facility in order to accurately register your energy use/production.

Caleb George  
Distributed Generation  
National Grid  
40 Sylvan Rd (E3.572A)  
Waltham, MA 02451-1120

\*\*\*\*\*

This e-mail and any files transmitted with it, are confidential to National Grid and are intended solely for the use of the individual or entity to whom they are addressed. If you have received this e-mail in error, please reply to this message and let the sender know.