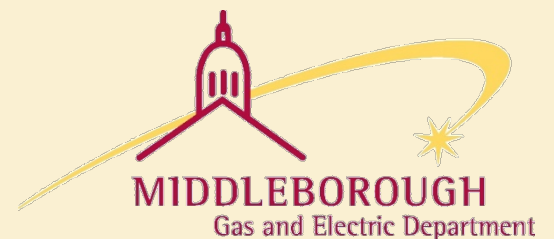


2/1/2018

# Guide to Solar Generation & Net Metering

Understanding the process to  
connect your solar array to the  
Middleborough Gas & Electric  
Department  
electrical distribution system



## What You Need to Know

Included in this guide are the documents that will help you understand the process of interconnecting your system to ours for net metering:

- Steps to take to interconnect your solar array
- Checklist to follow when applying to interconnect & net meter
- Customer Questions and MGED Answers about Net Metering
- MGED Net Metering Rate Tariff
- Critical Forms for net metering your system
  - Interconnection Application/Agreement with Terms & Conditions
  - Certificate of Completion
- For Your Information
  - About Finding a Solar Contractor
  - Local installation contractor information (MGED & Regional)

**Net Metering** is a simple way to connect renewable energy systems (solar arrays) up to 10 Kilowatts in size to the electric grid to offset part or all of your electricity use and charges from MGED. With net metering, excess energy produced by your solar system and not immediately used by your home is sent back out to our electric lines to be used by others while you receive a credit to your account. A net metered solar installation allows you to take electricity from our distribution lines at night or any time when your solar system is not meeting your needs. When you use electricity supplied by MGED, your solar credit will be applied toward eligible energy charges.

The Net Metering rate tariff enclosed in this guide became effective February 1, 2018 (replacing rate #178) and include systems which are either owned or leased by the customer. ***Important: no customer can enter into a Purchase Power Agreement (PPA) with an agent or solar installer and purchase the power as it is produced.*** Customers may lease-to-own or purchase the system outright to be eligible for net metering.

Whether you are ready to begin or simply have specific questions about your system, contact our Office Division at **508-947-1371** and ask to speak with the solar application manager. Completed application and signed Agreement forms should be delivered to our Office Division at 32 South Main Street, Middleborough, MA 02346 addressed to the Solar Application Manager.

# Steps to connect a Solar Array for Net Metering

When you have found a solar contractor and decided on the system to be installed, take these steps to confirm that your system can be connected to the MGED distribution system.

***If your contractor installs your system before our approval of the application, you run the risk of needing costly changes before we can allow your solar array to operate while connected to our lines.***

## 1. Submit the following by mail to:

Solar Application Manager  
Middleborough Gas & Electric Department  
32 South Main Street  
Middleborough, MA 02346

- Simplified Application/Interconnection Agreement for Net Metered Electrical. The Application Manager will prepare a Certificate of Completion after the installation is complete
- A one-line drawing of your generation system (sample included) showing that it meets our system installation requirements
- Specifications showing the materials (panels & inverters) to be installed meeting all required codes as noted in the agreement

**2. Approval confirmation** – you will receive notice from MGED directly that your system has been approved for installation. You then share this notice with your contractor – or we will at your request.

**3. Electrical Permit** - You (or your contractor/installer) must obtain an electrical permit from your town wiring inspector. Then installation can begin.

**4. Electrical Inspection/town wiring inspector** – After you complete the system installation, you should call the town wiring inspector for a final inspection. *The inspector will visit our office and sign off on our Certificate of Completion here.*

**5. System Inspection/MGED Engineer** – Our Engineer/technician will complete our inspection and install a new meter prior to turn-on. ***All breakers should be operational but system should be left off at the disconnect switch until our inspection.*** Our technician then turns the system on. *We produce the Certificate of Completion and send it to you.*

**6. Your copy of the Certificate of Completion & Solar Renewable Energy Credits (SRECs)** - We will send you a copy for your records to be used to verify operation. Your contractor/installer or sales agent will likely act as your agent to register for any market incentive credits and payments if applicable.

# MGED Checklist: Interconnection & Net Metering of your Solar Array

## First Apply:

- Prepare an Interconnection Application/Agreement for Net Metering to include:
  - ✓ System sizing and inverter specification information (spec sheets)
  - ✓ Contact information for the installing contractor
  - ✓ One-line electrical diagram of the installation as proposed (see sample provided with application)
- Sign, date and mail the **original** application and information to:  
Solar Application Manager, Middleborough Gas & Electric Department, 32 South Main Street,  
Middleborough, MA 02346
- Confirm receipt of your application by calling 508-947-1371, asking for the Solar Application Manager.

## Then Wait For:

- Approval to proceed – a copy of your application/agreement will be returned with the approval signature and date noted. Please remember, it is your responsibility to confirm that the system as designed is approved for interconnection BEFORE you allow the installation to proceed.
- Local permits as required – your contractor/installer will likely apply for all required local permits including the wiring/electrical permit.

## Install:

- Construction completed and system is ready for operation.
- Local inspections completed and passed including wiring/electrical inspection.

## Activate:

- MGED has been notified by the wiring inspector and our Final inspection is scheduled.
- MGED has inspected the installation and installed a bidirectional meter.
- System activated and generating power.
- MGED has signed the Certificate of Completion & returned a copy to you for your records. Again this will be sent to you and NOT to the system provider or agent, unless you request this.

## Ongoing Responsibilities:

- Any planned changes to your system require that you notify MGED at least 30 days prior to the work being performed. This includes any increase in the power rating.
- A change in ownership requires that you notify MGED in advance and the new owner must sign an agreement for continuing operation of the system.

# Important Points: Customer Questions About Net Metering...

- **What is Net Metering?**

- For customers who generate their own electricity using small-scale energy systems, net metering measures both the electricity you buy from MGED and the electricity your generator produces in excess of your own use.
- The electric meter lets us track the “net” difference as you generate excess electricity and take electricity from the electric grid.

- **How exactly does net metering work?**

- Basically, net metering is a special metering installation and billing arrangement between you and MGED.
- Normally, your electric meter only measures the amount of electricity that MGED sends into your home or business. A net-metering arrangement means the meter can also measure the excess electricity your generating system produces that comes back into the MGED system.
- If your generation system makes more electricity than you need at any given time, net metering allows this electricity to run “backward” through the metering installation and out into the MGED distribution system. We measure this and then credit you for the billed market value of the electricity you generate but don’t use.
- Net metering can usually be accomplished using a special bi-directional meter at your home or business.

- **How will I be billed?**

- Just as we do now, we will continue to read your meter and you will receive electric bills on your normal billing schedule.
- You will see the normal charges for any electricity you use supplied by MGED – for instance, at night when your solar array is not generating. You will also see a credit for any excess energy not used by your home but sent back through our meter.
- If you use more energy than you generate in a given billing cycle, the net amount due will appear as a charge on the current bill.

## What MGED allows

Middleborough Gas and Electric Department offers net metering to customers who wish to generate their own electricity with solar powered electric systems of 10 kilowatt DC or less in generating capacity. Once MGED reviews and approves a customer-owned electric generation system, net metering allows a customer to be connected to the utility’s distribution system. Any excess electricity generated by a customer can be credited to the customer’s account at the same rate they are charged for electricity.

- If your system generates more than you use in a given billing cycle, the difference will appear as a negative charge on the current bill and as a credit on your next bill. This credit will most-likely be used up during months of less sunshine. This credit is available for payout by check on a quarterly basis.
- **What are the benefits of net metering?**
  - By generating your own electricity, you may reduce the amount you use from MGED and cut your electricity bills.
  - With a net metering arrangement, any excess electricity that you generate and do not use can be fed back to the utility, which will again reduce your electricity bill. Your excess electricity now offsets electricity you would otherwise have to buy and this makes owning your own generating system more cost-effective.
  - Net metering allows you to get credit for the excess energy you generate at the wholesale market rate for power. It is also necessary in order to share your excess energy with the electricity grid, a requirement to be eligible for Solar Renewable Energy Credits (SRECs) and other forms of federal and state benefits.
- **Am I eligible for net metering?**
  - In Middleborough or Lakeville, any MGED electricity customer in good standing who generates at least some of their electricity is potentially eligible for net metering.
  - *Solar energy* must power your generating system. Currently, other types of generating systems are not eligible for net metering.
  - The generating system has a capacity of not more than 10 kilowatts, DC (direct current).
- **What are the technical requirements?**
  - A net metering system used by a home owner or business must include, at the customer's own expense, all equipment necessary to meet applicable safety, power quality, and interconnection requirements established by the National Electrical Code (NEC), National Electrical Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), and the Underwriters Laboratories (UL), and any applicable state and local agencies.
  - These Interconnection Standards are listed after the Middleborough Gas & Electric Department's Net Metering Application in the terms and conditions.
  - *Middleborough Gas and Electric Department must test and approve your system before you connect to the electric grid.*

**MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT**  
**M.D.P.U. No. 183**  
**(Cancels M.D.P.U. No. 178)**  
**NET METERING TARIFF**

Applicability

The following tariff provisions shall be applicable to a Host Customer, as defined herein that requests net metering services from the Middleboro Gas and Electric Department (“MGED”). Service under this rate to any Host Customer is subject to MGED’s printed requirements and MGED’s Terms and Conditions – Distribution Service, each as in effect from time to time. Customers with Solar or Wind Net Metering facilities with a generating capacity greater than 10 kilowatts (direct current) but less than 100 kilowatts (direct current) will receive service under MGED’s Renewable Distributed Generation Tariff, MDPU 177. Customers with Solar or Wind generating facilities with a generating capacity greater than 100 kilowatts (direct current) who meet the host load requirements of the Tariff Rate Schedule will receive service under MGED’s Renewable Energy Buyback Rate, MDPU 160.

Section 1.01 Definitions

The terms set forth below shall be defined as follows, unless the context otherwise requires.

Billing Period means the period of time set forth in MGED’s terms and conditions for which MGED bills a Customer for its electricity consumed or estimated to have been consumed.

Net Metering Facility means a plant or equipment that is used to produce, manufacture, or otherwise generate electricity and that is not a transmission facility and that has a design capacity of 10 kilowatts (direct current) or less.

Customer means any person, partnership, corporation, or any other entity, whether public or private, who obtains electric service at a customer delivery point and who is a customer of record of MGED for its own electricity consumption.

Host Customer means a Customer with a Solar or Wind Net Metering Facility that generates electricity on the Customer’s side of the meter. The Host Customer must be eligible for service under MGED’s Residential Electric Service tariff, MDPU 161 or Commercial and Industrial General Service tariff, MDPU 165.

ISO-NE means ISO New England Inc., the independent system operator for New England, or its successor, authorized by the Federal Energy Regulatory Commission to operate the New England bulk power system and administer New England’s organized wholesale electricity market pursuant to the ISO-NE Tariff and operation agreements with transmission owners.

Net Metering means the process of measuring the difference between electricity delivered by MGED and electricity generated by a Net Metering Facility and fed back to MGED.

Net Metering Credit means the monetary value of the excess electricity generated by a net metering facility, calculated pursuant to Section 1.05, below.

Solar Net Metering Facility means a facility for the production of electrical energy that uses sunlight to generate electricity and is interconnected to MGED.

Wind Net Metering Facility means a facility for the production of electrical energy that uses wind to generate electricity and is interconnected to MGED.

### Section 1.02 Interconnection

Interconnection of net metering facilities is governed by the terms of MGED's Interconnection Application and Service Agreement, which sets forth the following information for net metering services:

- (a) application procedures;
- (b) information necessary for requests;
- (c) metering and technical requirements; and
- (d) termination and suspension provisions.

The Customer shall indicate its request for net metering on its application pursuant to the Interconnection Application and Service Agreement.

### Section 1.03 Metering and Reporting of Generation

1. Unless otherwise agreed in writing with MGED, a Host Customer with a Net Metering Facility, who does not have a generation information system ("GIS") account at ISO-NE, will provide, if available, the inverter's generation information to MGED twice per calendar year: on or before January 31 and on or before September 30.
2. Unless otherwise agreed in writing with MGED, a Host Customer with a Class I Net Metering Facility, who does not have a GIS account at ISO-NE and does not otherwise have generation information available, shall provide all necessary information to, and cooperate with, MGED to enable MGED to estimate the annual generation.

### Section 1.04 Administration of Net Metering Credits

1. MGED shall calculate a Net Metering Credit as set forth in Section 1.05 below, and not bill a Host Customer for kWh usage, for any Billing Period in which the kWh generated by a Net Metering Facility exceed the kWh usage of the Host Customer, or for any hour in the Billing Period in which the kWh generated by a Net Metering Facility exceeded the kWh usage of the Host Customer.
2. MGED shall bill a Host Customer for excess consumption for any Billing Period in which the kWh consumed by a Host Customer exceed the kWh generated by a Net Metering Facility.



Section 1.05 Calculation of Net Metering Credits

1. MGED shall calculate for each Billing Period a Net Metering Credit equal to the product of:
  - (a) excess kWh generated; and
  - (b) sum of the following Department charges applicable to the rate class under which the Host Customer takes service:
    - (i) For customers receiving service under predecessor Net Metering Tariff MDPU No. 178 prior to February 1, 2018 only, the Distribution Energy Charge net of Prompt Payment Discount, if applicable;
    - (ii) the Purchased Power Charge;
    - (iii) the New York Hydropower Authority Hydropower Credit if applicable; and
    - (iv) the Purchased Power Adjustment.
2. For any Billing Period for which MGED calculates a Net Metering Credit for a Host Customer, MGED shall apply the Net Metering Credit to the Host Customer's account. MGED shall carry forward, from Billing Period to Billing Period, any remaining Net Metering Credit balance. At the Host Customer's option any cumulative Net Metering Credit may be refunded to the Host Customer at the end of a Calendar Quarter.

Section 1.06 Renewable Energy and Environmental Attributes

The provision of net metering services does not entitle MGED to ownership of, or title to, the renewable energy or environmental attributes, including renewable energy certificates, associated with any electricity produced by a net metering facility.

Rate Filed: February 1, 2018  
Effective Date: February 1, 2018  
Filed By: Jacqueline L. Crowley, General Manager

PAGE LEFT BLANK

**Middleborough Gas & Electric Department (MGED)**

32 South Main Street  
Middleborough, MA 02346

Tel: 508-947-1371  
Fax: 508-946-3706  
www.mged.com

**Simplified Interconnection Application (SIA) and Service Agreement  
for Facilities with Inverter Capacity of 10kW and under (Residential)**

**Contact Information**

Legal Name and address of Interconnecting Customer applicant

MGED Customer (print): \_\_\_\_\_

Address of Interconnection Facility: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Alternative Contact Information (e.g., system installation contractor or coordinating company)**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): (same) \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Facility Information**

Electric Service Company: Middleborough Gas & Electric Department (MGED)

**Account Number (required – on bill)** \_\_\_\_\_ **Meter Number (required – on bill)** \_\_\_\_\_

Inverter Manufacturer: \_\_\_\_\_ Model Name & #: \_\_\_\_\_ Quantity Used: \_\_\_\_\_

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

System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

**Electrical Contractor: Name, address, phone # and contact name**

Prime Mover: Photovoltaic  Fuel Cell  IC Engine  Other: \_\_\_\_\_

Energy Source: Solar  Wind  Hydro  Natural Gas  Other: \_\_\_\_\_

UL1741 Listed? Yes \_\_\_\_\_ No \_\_\_\_\_

Estimated Installation Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_

**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 **MGED Terms and Conditions for Simplified Process Interconnections** on the following page:

Interconnecting Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

**Please attach manufacturer’s document showing UL1741 listing to this document and mail to above address.**

**Approval to Install Facility (For MGED use only)**

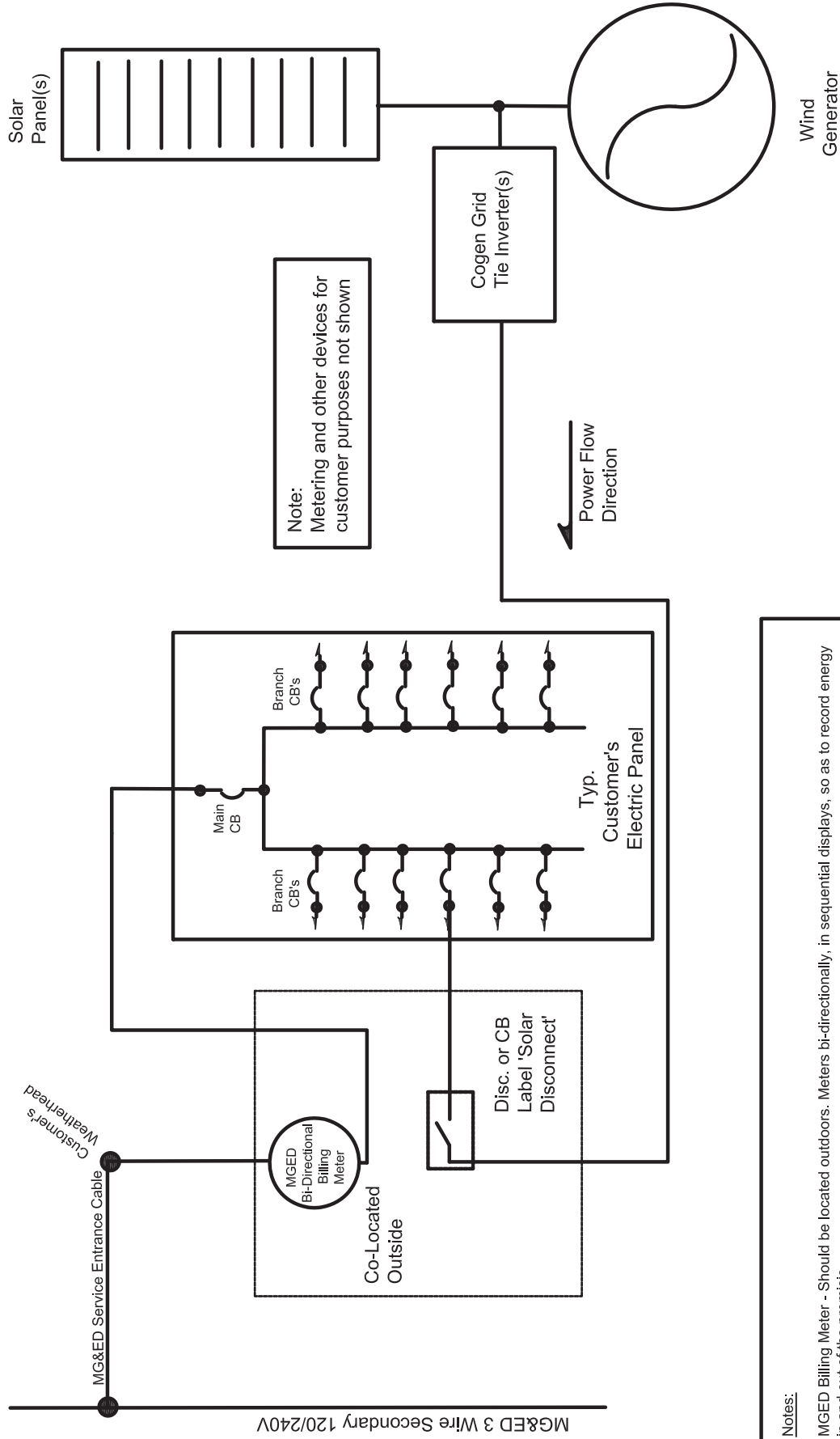
Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes \_\_\_ No \_\_\_ To be Determined \_\_\_).

MGED Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

MGED UA Number: \_\_\_\_\_ MGED waives inspection/witness test? Yes \_\_\_ No \_\_\_

### **MGED 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 MGED.
2. **Interconnection and Operation.** The interconnecting Customer may operate Facility and interconnect with the MGED'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 of the Agreement to the MGED, 32 South Main Street, Middleborough, MA 02346.
  - 2.3. **Company has completed or waived the right to inspection.**
3. **MGED Right to Inspection.** Within ten (10) business days after receipt of the Certificate of Completion, the MGED 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 electric connections have been made in accordance with the MGED. The MGED has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion.
4. **Safe Operations and Maintenance.** The interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Access.** The MGED shall have access to the disconnect switch (if required) of the Facility at all times.
6. **Disconnection.** MGED may temporarily disconnect the Facility to facilitate planned or emergency MGED work.
7. **Metering and Billing.** All Facilities approved under this Agreement qualify for net metering, as approved by the MGED from time to time, and the following is necessary to implement the net metering provisions.
  - 7.1. **Interconnecting Customer Provides Meter Sockets.** The Interconnecting Customer shall furnish and have installed, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. The Interconnecting Customer shall have installed a second meter socket and the necessary wiring between the output of the generation source and the customer's main electrical service. This meter socket shall be located outside in an approved location. The second meter socket will be provided by MGED.
  - 7.2. **MGED Installs Net Meter.** MGED shall furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion, or within 10 business days after the inspection if completed, if such meter is not already in place.
  - 7.3. **MGED Installs Check Meter.** The MGED will install a second meter to record the usage of the customer-generated energy. There will be no customer charge associated with this meter.
8. **Indemnification.** The Town of Middleborough, MGED, and all of their respective agents and employees shall be afforded the maximum exemption of limitations of liability available under applicable laws and regulations arising on account of their actions or omissions relating directly or indirectly any provision of electrical service. Without limiting the generality of the foregoing, and except to the extent otherwise expressly provided in M.G.L. Chapter 258: Neither the Town of Middleborough, nor the MGED, nor any of their respective agents or employees shall be liable to any person or agent: 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 of 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 omissions 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 Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to MGED.
  - 10.2. **By MGED.** The MGED 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 material 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 MGED.



Middleborough Gas and Electric Department  
 Typical Cogen Metering Installation  
 One Line Diagram  
 June 09, 2014

**Notes:**

MGED Billing Meter - Should be located outdoors. Meters bi-directionally, in sequential displays, so as to record energy in and out of the premises.

Cogen Disconnect Switch - To be located outdoors next to Billing Meter.

Cogen Inverter - Owned/operated/maintained by customer. Matches cogen system output to MGED service voltage.

Important!!! Cogen system must detect and shut down upon loss of power from MG&ED to prevent backfeed to MGED grid per latest UL 1741. System cannot run isolated from MG&ED system without a mechanically interlocked disconnection device per NEC Standards.

Solar installations not to be placed in service prior to final test and inspection and approval by MGED.

PAGE LEFT BLANK

## What we can do

Middleborough Gas & Electric Department does not recommend installers, nor is there an "approved" list of solar installers in Massachusetts. Instead we can share a listing of solar installation contractors that we have worked with on the next page. We can also provide a listing of contractors who have worked in surrounding towns, produced by the Massachusetts Clean Energy Center following our own list. We recommend that as a consumer you do your due diligence to screen potential installer/integrator companies to find a suitably experienced contractor.

# For Your Information: Solar Installation Contractors

To help you select the right contractor, consider asking them the following questions:

1. Can you provide references from previous customers with similar systems?
2. How many similar systems have you installed?
3. Have you worked with a municipal electric utility before?
4. When would you be able to perform the work?
5. How long will the project take?
6. Please describe the warranty that you provide on the system.
7. Have you worked with local building officials and utility representatives when installing similar systems in the past? Are there any unresolved issues with these representatives?
8. Do you have a MA licensed electrician as part of the project team?
9. Will you hire subcontractors to complete portions of the project? What firms will you hire and what will they do?
10. What kind of training will you provide me with so that I can better operate and maintain my system?
11. Do you offer solar leasing or a third-party ownership option?
12. Will you or a partner company be able to assist me in selling the SRECs generated by my system?

Installers and vendors can help you with a more detailed site and financial assessment. In addition, they will be responsible for providing you with a turnkey service and installation. You are responsible for performing your own due diligence with regard to the experience and qualifications of a potential contractor and for making sure that they meet Middleborough Gas & Electric Department requirements.

## MGE Dept. Listing of solar installers working in the area (updated 2/2/18)

Date of Installation	Building Type	Town	Primary Installer	Secondary Installer	System Size (kW)
7-Jun-11	Commercial	Lakeville	Beaumont Solar (New Bedford)		41.4
21-Jun-11	Residential	Lakeville	Peter O'Reilly (electrician)		5
20-Sep-11	Residential	Lakeville	INO Electrical Services (Assonet)		9.1
2-Dec-11	Residential	Lakeville	INO Electrical Services (Assonet)		9.1
19-Dec-11	Residential	Lakeville			8.1
6-Feb-12	Residential	Lakeville			10
11-Jun-12	Residential	Middleboro	Astrum Solar (Hopkinton)	S&T Electric (Tyngsboro)	8.815
10-Oct-12	Residential	Middleboro	Astrum Solar (Hopkinton)		5.16
26-Feb-13	Residential	Lakeville	Peter O'Reilly (electrician)		4.9
1-May-13	Residential	Middleboro	Devlin Electrical Services (Norwell)		3.45
26-Jun-13	Residential	Lakeville	INO Electrical Services (Assonet)		8.6
9-Jul-13	Commercial	Middleboro	SunPower (Richmond, CA)		750
19-Nov-13	Residential	Lakeville	Alternate Energy (Plymouth)		6.1
31-Dec-13	Commercial	Lakeville	Bay State Solar (Lakeville)		151
21-Jan-14	Residential	Middleboro	Endless Mountain Solar (Westboro)	Douglas White Elec(E.LongM)	5.8
6-Feb-14	Residential	Middleboro	Next Step Living (Boston)	Boston Solar Co. (Lynn)	4
6-Feb-14	Residential	Middleboro	Next Step Living (Boston)	Boston Solar Co. (Lynn)	6
11-Jun-14	Residential	Lakeville	Anderson Electric (Middleborough)		4.9
4-Dec-14	Residential	Middleboro	INO Electrical Services (Assonet)		3
19-Dec-14	Residential	Middleboro	Next Step Living (Boston)	Phillip McCarron	3
11-Mar-15	Residential	Middleboro	Next Step Living (Boston)	RCS (New Bedford)	5.2
3-Mar-15	Residential	Middleboro	Next Step Living (Boston)	Skyline Solar (W. Bridgewater)	8.9
13-Mar-15	Residential	Lakeville	Corbin Solar Solutions (NJ)		8
13-Mar-15	Residential	Lakeville	Astrum Solar (Hopkinton)		4.5
13-May-15	Residential	Lakeville	INO Electrical Services (Assonet)		9
4-Aug-15	Residential	Lakeville	Phillip McCarron		7.4
5-Aug-15	Residential	Middleboro	Plymouth Solar Energy (Plymouth)	Burke Electric Skyline Solar (W. Bridgewater)	4.5
17-Aug-15	Residential	Lakeville	Next Step Living (Boston)		7.4
29-Oct-15	Commercial	Lakeville	First Mark Advantage (NH)		10.8
10-Dec-15	Residential	Middleboro	Direct Energy Solar (Taunton, MA)		9.8
15-Dec-15	Residential	Lakeville	RGS Energy (CT)		9.9
12-Jan-16	Residential	Lakeville	Direct Energy Solar (Taunton, MA)		9
13-Jan-16	Residential	Lakeville	Bright Planet Solar (Auburn, MA)	John Carey (Grafton, MA)	10
19-Jan-16	Residential	Middleboro	Big Sky Renewable Energy (NH)	Hill Electric (NH)	8.4
8-Apr-16	Residential	Lakeville	Direct Energy Solar (Taunton, MA)		9.3
22-Apr-16	Residential	Lakeville	Direct Energy Solar (Taunton, MA)		9.3
7-Jun-16	Residential	Middleboro	Direct Energy Solar (Taunton, MA)		8.4



Date of Installation	Building Type	Town	Primary Installer	Secondary Installer	System Size (kW)
14-Jun-16	Commercial	Middleboro	Big Sky Renewable Energy (NH)	Hill Electric (NH)	24.6
16-Jun-16	Residential	Middleboro	INO Electrical Services (Assonet)		9.9
26-Aug-16	Residential	Middleboro	Direct Energy Solar (Taunton, MA)		9.9
28-Nov-16	Residential	Middleboro	Self		6.7
1-Dec-16	Residential	Lakeville	Got Sun- Go Solar (Seekonk, MA)	Mike MacDougall (Mansfield)	10
6-Dec-16	Residential	Middleboro	Sun Bug Solar (Somerville, MA)	Eli Ryder	6.3
8-Dec-16	Residential	Lakeville	Reliable Solar Solutions (Lakeville, MA)	(Middleboro)	9
3-Jan-17	Residential	Middleboro	Solar Wolf Energy (Grafton, MA)		7.6
4-Jan-17	Residential	Lakeville	Bright Planet Solar (Auburn, MA)		7.6
8-Feb-17	Residential	Middleboro	Blue Dot Solar (West Bridgewater, MA)		8.3
14-Jun-17	Residential	Middleboro	Renewable Construct.Services, NewBedford		6.7
23-Aug-17	Residential	Middleboro	Blue Dot Solar (West Bridgewater, MA)		9.9
30-Aug-17	Residential	Middleboro	Amergy Solar Inc., Hingham, MA		8.2
26-Oct-17	Residential	Lakeville	RGS Energy (CT)		9.3
9-Nov-17	Residential	Middleboro	Solar Wolf Energy (Grafton, MA)		3.6
9-Nov-17	Residential	Middleboro	Solar Wolf Energy (Grafton, MA)		3.3

## Production Tracking System (PTS) Solar Photovoltaic Report as of 1-8-18

Please Note:

1. This dataset includes all solar PV systems fully registered in PTS.
2. Systems that are SREC Qualified by DOER but not fully registered are not included. For a full list of SREC qualified systems, see DOER's website
3. If you notice data errors, please contact pts@masscec.com. MassCEC welcomes feedback in our pursuit to provide accurate and comprehensive

Capacity (DC, kW)	Date In Service	Total Cost with Design Fees	City	Installer
13.50	12/4/2017	\$ 57,780.00	Freetown	SolarCity Corporation DBA Tesla Energy
13.44	11/29/2017	\$ 51,878.40	Wareham	Vivint Solar Developer
9.36	11/27/2017	\$ 37,030.92	Wareham	Boston Solar Company
9.60	11/27/2017	\$ 41,088.00	Taunton	SolareAmerica
5.13	11/24/2017	\$ 19,801.80	Freetown	Vivint Solar Developer
7.50	11/20/2017	\$ 32,100.00	Taunton	SolarCity Corporation DBA Tesla Energy
4.73	11/20/2017	\$ 16,963.00	Taunton	ACE Residential Solar LLC
16.20	11/17/2017	\$ 118,621.00	Wareham	New England Clean Energy (formerly New England Breeze)
6.72	11/10/2017	\$ 15,374.00	Wareham	Sunrun
3.00	11/6/2017	\$ 20,037.75	Halifax	SolarCity Corporation DBA Tesla Energy
9.30	11/3/2017	\$ 39,804.00	Freetown	SolarCity Corporation DBA Tesla Energy
9.52	10/27/2017	\$ 40,364.80	Wareham	Vivint Solar Developer
4.64	10/24/2017	\$ 19,673.60	Lakeville	Vivint Solar Developer
2.80	10/24/2017	\$ 10,808.00	Wareham	Vivint Solar Developer
6.38	10/19/2017	\$ 24,775.00	Taunton	BrightStar Solar
9.24	10/18/2017	\$ 35,666.40	Pembroke	Vivint Solar Developer
10.73	10/11/2017	\$ 47,511.75	Taunton	SolarCity Corporation DBA Tesla Energy
7.70	10/10/2017	\$ 19,292.35	Wareham	Solar Spectrum
8.51	10/4/2017	\$ 34,020.00	Pembroke	Solar Five
3.92	10/2/2017	\$ 16,620.80	Wareham	Vivint Solar Developer
9.00	9/29/2017	\$ 38,520.00	Berkley	SolarCity Corporation DBA Tesla Energy
13.20	9/29/2017	\$ 56,496.00	Taunton	SolarCity Corporation DBA Tesla Energy
9.90	9/29/2017	\$ 35,510.00	Wareham	Alternate Energy
5.88	9/28/2017	\$ 24,040.80	Wareham	Vivint Solar Developer
8.70	9/22/2017	\$ 37,236.00	Wareham	SolarCity Corporation DBA Tesla Energy
7.84	9/22/2017	\$ 26,969.60	Wareham	Vivint Solar Developer
11.40	9/14/2017	\$ 46,284.00	Pembroke	Trinity Solar
8.91	9/13/2017	\$ 34,896.57	Lakeville	RevoluSun
7.70	9/8/2017	\$ 30,745.60	Taunton	ACE Residential Solar LLC
6.50	9/7/2017	\$ 23,811.40	Taunton	SolarCity Corporation DBA Tesla Energy
4.55	9/6/2017	\$ 20,156.50	Raynham	SolarCity Corporation DBA Tesla Energy
6.00	9/6/2017	\$ 25,680.00	Wareham	SolarCity Corporation DBA Tesla Energy
6.00	9/5/2017	\$ 25,680.00	Wareham	SolarCity Corporation DBA Tesla Energy
10.15	9/1/2017	\$ 38,671.50	Freetown	Vivint Solar Developer
7.70	9/1/2017	\$ 29,645.00	Freetown	Direct Energy Solar (formerly Astrum Solar)
12.42	8/30/2017	\$ 42,600.60	Wareham	Trinity Solar
4.20	8/29/2017	\$ 19,110.00	Taunton	GotSun-GoSolar
13.33	8/28/2017	\$ 59,029.75	Taunton	SolarCity Corporation DBA Tesla Energy
7.20	8/28/2017	\$ 30,816.00	Wareham	SolarCity Corporation DBA Tesla Energy
12.30	8/24/2017	\$ 52,644.00	Freetown	SolarCity Corporation DBA Tesla Energy
6.60	8/24/2017	\$ 21,450.00	Wareham	Solar Rising
10.73	8/23/2017	\$ 47,511.80	Berkley	SolarCity Corporation DBA Tesla Energy
9.75	8/23/2017	\$ 43,192.50	Taunton	SolarCity Corporation DBA Tesla Energy
6.27	8/21/2017	\$ 22,328.02	Pembroke	Trinity Solar

Capacity (DC, kW)	Date In Service	Total Cost with Design Fees	City	Installer
11.97	8/18/2017	\$ 41,224.68	Pembroke	Trinity Solar
8.70	8/18/2017	\$ 42,447.30	Pembroke	Level Solar
11.40	8/17/2017	\$ 48,792.00	Wareham	SolarCity Corporation DBA Tesla Energy
8.45	8/16/2017	\$ 37,433.50	Taunton	SolarCity Corporation DBA Tesla Energy
6.90	8/16/2017	\$ 29,532.00	Raynham	SolarCity Corporation DBA Tesla Energy
4.20	8/15/2017	\$ 17,976.00	Wareham	SolarCity Corporation DBA Tesla Energy
9.99	8/11/2017	\$ 26,473.50	Wareham	Trinity Solar
8.26	8/11/2017	\$ 23,942.00	Freetown	Acushnet Alternative Heating
6.60	8/10/2017	\$ 22,440.00	Wareham	Apex Solar
9.90	8/9/2017	\$ 37,310.00	Halifax	Alternate Energy
10.80	8/9/2017	\$ 42,768.00	Wareham	Plymouth Solar Energy
2.24	8/1/2017	\$ 9,497.60	Wareham	Vivint Solar Developer
6.16	7/31/2017	\$ 27,860.00	Pembroke	Solar Five
9.30	7/28/2017	\$ 39,804.00	Taunton	SolarCity Corporation DBA Tesla Energy
12.30	7/28/2017	\$ 52,644.00	Freetown	SolarCity Corporation DBA Tesla Energy
2.24	7/28/2017	\$ 9,497.60	Wareham	Vivint Solar Developer
12.00	7/21/2017	\$ 48,600.00	Taunton	Big Sky Renewable Energy
7.20	7/21/2017	\$ 22,861.85	Taunton	Real Goods Solar (dba RGS Energy)
9.86	7/21/2017	\$ 41,707.80	Freetown	Vivint Solar Developer
5.32	7/21/2017	\$ 24,152.80	Freetown	Trinity Solar
7.28	7/20/2017	\$ 16,076.00	Wareham	Sunrun
4.56	7/14/2017	\$ 16,133.28	Pembroke	Trinity Solar
7.14	7/13/2017	\$ 17,214.03	Wareham	Sungevity
4.20	7/12/2017	\$ 16,002.00	Wareham	Vivint Solar Developer
2.93	7/12/2017	\$ 12,957.75	Taunton	SolarCity Corporation DBA Tesla Energy
7.80	7/6/2017	\$ 33,384.00	Taunton	SolarCity Corporation DBA Tesla Energy
3.25	7/6/2017	\$ 14,397.50	Taunton	SolarCity Corporation DBA Tesla Energy
8.28	7/3/2017	\$ 36,536.00	Wareham	E2 Solar Inc.
9.63	6/30/2017	\$ 38,882.00	Wareham	Solar Spectrum
6.83	6/28/2017	\$ 30,234.80	Taunton	SolarCity Corporation DBA Tesla Energy
4.80	6/27/2017	\$ 20,544.00	Wareham	SolarCity Corporation DBA Tesla Energy
6.83	6/26/2017	\$ 30,234.75	Taunton	SolarCity Corporation DBA Tesla Energy
11.90	6/26/2017	\$ 45,704.00	Taunton	Hallmark Electrical Systems
7.80	6/26/2017	\$ 34,554.00	Taunton	SolarCity Corporation DBA Tesla Energy
4.59	6/23/2017	\$ 18,713.58	Freetown	Direct Energy Solar (formerly Astrum Solar)
6.67	6/22/2017	\$ 26,900.00	Wareham	Trinity Solar
9.10	6/8/2017	\$ 38,948.00	Taunton	SolarCity Corporation DBA Tesla Energy
9.28	6/6/2017	\$ 39,347.20	Wareham	Vivint Solar Developer
5.51	6/6/2017	\$ 26,948.00	Wareham	Amergy Solar Inc.
9.86	6/6/2017	\$ 49,201.40	Wareham	Amergy Solar Inc.
4.34	6/6/2017	\$ 13,790.41	Wareham	Sungevity
2.90	6/5/2017	\$ 12,296.00	Halifax	Vivint Solar Developer
6.60	5/30/2017	\$ 28,248.00	Wareham	SolarCity Corporation DBA Tesla Energy
6.38	5/30/2017	\$ 15,726.10	Wareham	Sungevity
9.60	5/25/2017	\$ 38,348.80	Taunton	SolarCity Corporation DBA Tesla Energy
9.86	5/17/2017	\$ 35,853.00	Freetown	Trinity Solar
5.88	5/11/2017	\$ 24,872.40	Pembroke	Vivint Solar Developer
15.70	5/10/2017	\$ 60,000.00	Taunton	Boston Solar Company
8.68	5/10/2017	\$ 37,150.40	Taunton	SolarCity Corporation DBA Tesla Energy
5.70	5/10/2017	\$ 24,396.00	Berkley	SolarCity Corporation DBA Tesla Energy
9.00	5/10/2017	\$ 38,520.00	Taunton	SolarCity Corporation DBA Tesla Energy

Capacity (DC, kW)	Date In Service	Total Cost with Design Fees	City	Installer
5.67	5/10/2017	\$ 25,118.10	Taunton	SolarCity Corporation DBA Tesla Energy
4.50	5/10/2017	\$ 19,260.00	Taunton	SolarCity Corporation DBA Tesla Energy
12.75	5/10/2017	\$ 50,753.59	Taunton	Boston Solar Company
13.50	5/9/2017	\$ 62,000.00	Freetown	Bright Planet Solar
9.28	5/8/2017	\$ 38,697.60	Wareham	Vivint Solar Developer
4.80	5/3/2017	\$ 20,544.00	Freetown	SolarCity Corporation DBA Tesla Energy
10.50	5/2/2017	\$ 44,940.00	Freetown	SolarCity Corporation DBA Tesla Energy
9.30	5/2/2017	\$ 39,804.00	Freetown	SolarCity Corporation DBA Tesla Energy
4.20	5/2/2017	\$ 15,400.00	Lakeville	Reliable Solar Solutions Inc.
5.04	5/1/2017	\$ 22,327.20	Raynham	SolarCity Corporation DBA Tesla Energy
6.60	5/1/2017	\$ 27,060.00	Wareham	SolarCity Corporation DBA Tesla Energy
10.07	5/1/2017	\$ 41,991.90	Freetown	Vivint Solar Developer
10.71	4/28/2017	\$ 47,445.30	Berkley	SolarCity Corporation DBA Tesla Energy
4.48	4/26/2017	\$ 19,174.40	Wareham	SolarCity Corporation DBA Tesla Energy
13.50	4/26/2017	\$ 57,780.00	Wareham	SolarCity Corporation DBA Tesla Energy
7.69	4/18/2017	\$ 32,200.15	Wareham	Vivint Solar Developer
5.40	4/17/2017	\$ 22,896.00	Wareham	Vivint Solar Developer
8.51	4/17/2017	\$ 44,874.90	Wareham	SolarCity Corporation DBA Tesla Energy
9.98	4/14/2017	\$ 38,000.00	Wareham	Trinity Solar
4.73	4/14/2017	\$ 19,510.00	Wareham	Blue Selenium Solar, LLC
2.52	4/13/2017	\$ 12,222.00	Wareham	SolarCity Corporation DBA Tesla Energy
12.72	4/13/2017	\$ 49,608.00	Halifax	Alternate Energy
6.84	4/13/2017	\$ 34,437.00	Taunton	New England Clean Energy (formerly New England Breeze)
5.40	4/13/2017	\$ 23,112.00	Wareham	SolarCity Corporation DBA Tesla Energy
6.67	4/12/2017	\$ 28,280.80	Freetown	Vivint Solar Developer
4.59	4/6/2017	\$ 19,461.60	Halifax	Vivint Solar Developer
6.09	4/6/2017	\$ 29,610.00	Taunton	Amergy Solar Inc.
14.00	4/6/2017	\$ 59,920.00	Berkley	SolarCity Corporation DBA Tesla Energy
2.86	4/6/2017	\$ 12,240.80	Taunton	SolarCity Corporation DBA Tesla Energy
9.81	3/31/2017	\$ 36,735.30	Freetown	NRG Home Solar
3.20	3/31/2017	\$ 14,400.00	Wareham	SunWatt Solar
7.04	3/29/2017	\$ 35,200.00	Halifax	Solar Wolf Energy Inc
12.54	3/28/2017	\$ 36,366.00	Pembroke	Trinity Solar
8.70	3/24/2017	\$ 23,925.00	Lakeville	Blue Dot Solar
4.48	3/23/2017	\$ 19,174.40	Freetown	SolarCity Corporation DBA Tesla Energy
10.80	3/23/2017	\$ 49,586.80	Freetown	Boston Solar Company
9.98	3/23/2017	\$ 36,009.75	Freetown	Trinity Solar
8.10	3/22/2017	\$ 38,415.00	Wareham	Endless Mountains Solar Services
7.84	3/21/2017	\$ 33,555.20	Wareham	SolarCity Corporation DBA Tesla Energy
11.34	3/21/2017	\$ 48,535.20	Halifax	SolarCity Corporation DBA Tesla Energy
9.45	3/20/2017	\$ 45,832.50	Wareham	SolarCity Corporation DBA Tesla Energy
7.13	3/17/2017	\$ 23,526.75	Freetown	Trinity Solar
14.04	3/17/2017	\$ 68,094.00	Freetown	SolarCity Corporation DBA Tesla Energy
7.84	3/17/2017	\$ 33,555.20	Freetown	SolarCity Corporation DBA Tesla Energy
2.16	3/16/2017	\$ 8,575.20	Halifax	Vivint Solar Developer
7.56	3/16/2017	\$ 34,095.60	Wareham	SolarCity Corporation DBA Tesla Energy
8.68	3/15/2017	\$ 39,146.80	Berkley	SolarCity Corporation DBA Tesla Energy
11.76	3/15/2017	\$ 57,036.00	Berkley	SolarCity Corporation DBA Tesla Energy
6.72	3/10/2017	\$ 14,579.00	Pembroke	Sunrun
7.41	3/10/2017	\$ 26,925.49	Wareham	Trinity Solar
10.80	3/7/2017	\$ 42,876.00	Pembroke	Vivint Solar Developer

Capacity (DC, kW)	Date In Service	Total Cost with Design Fees	City	Installer
7.84	3/7/2017	\$ 33,555.20	Wareham	SolarCity Corporation DBA Tesla Energy
3.36	3/3/2017	\$ 15,153.60	Taunton	SolarCity Corporation DBA Tesla Energy
11.44	3/3/2017	\$ 48,963.20	Halifax	SolarCity Corporation DBA Tesla Energy
4.51	2/28/2017	\$ 20,272.50	Pembroke	Vivint Solar Developer
11.77	2/27/2017	\$ 47,088.00	Pembroke	Second Generation Energy
6.72	2/22/2017	\$ 28,761.60	Taunton	SolarCity Corporation DBA Tesla Energy
6.72	2/21/2017	\$ 15,800.00	Wareham	Sunrun
4.68	2/16/2017	\$ 18,069.48	Wareham	Trinity Solar
4.20	2/16/2017	\$ 17,750.00	Wareham	Sunrun
9.18	2/15/2017	\$ 36,444.60	Freetown	Vivint Solar Developer
10.26	2/14/2017	\$ 42,784.20	Pembroke	Vivint Solar Developer
12.51	2/13/2017	\$ 48,769.00	Taunton	Bay State Solar
5.72	2/9/2017	\$ 25,797.20	Wareham	SolarCity Corporation DBA Tesla Energy
10.56	2/9/2017	\$ 37,000.00	Halifax	Certified Safe Electric, Inc.
10.79	2/8/2017	\$ 43,797.27	Freetown	Boston Solar Company
12.15	2/8/2017	\$ 40,000.00	Freetown	Solar Wolf Energy Inc
4.41	2/2/2017	\$ 19,889.10	Taunton	SolarCity Corporation DBA Tesla Energy
7.80	2/2/2017	\$ 35,178.00	Taunton	SolarCity Corporation DBA Tesla Energy
14.85	2/1/2017	\$ 62,815.50	Freetown	Vivint Solar Developer
8.70	1/24/2017	\$ 36,547.21	Freetown	Direct Energy Solar (formerly Astrum Solar)
3.64	1/24/2017	\$ 10,166.00	Pembroke	Sunrun
10.55	1/24/2017	\$ 40,000.00	Pembroke	Trinity Solar
22.50	1/23/2017	\$ 96,000.00	Berkley	Hallmark Electrical Systems
3.45	1/18/2017	\$ 14,365.65	Wareham	Vivint Solar Developer
3.38	1/17/2017	\$ 16,629.60	Raynham	SolarCity Corporation DBA Tesla Energy
4.68	1/17/2017	\$ 20,030.40	Taunton	SolarCity Corporation DBA Tesla Energy
4.73	1/13/2017	\$ 23,247.00	Freetown	SolarCity Corporation DBA Tesla Energy
6.89	1/13/2017	\$ 22,137.57	Freetown	NRG Home Solar
8.16	1/11/2017	\$ 21,600.00	Pembroke	Certified Safe Electric, Inc.
10.50	1/11/2017	\$ 32,899.00	Pembroke	Certified Safe Electric, Inc.
4.77	1/11/2017	\$ 17,993.60	Pembroke	NRG Home Solar
7.54	1/10/2017	\$ 37,096.80	Freetown	SolarCity Corporation DBA Tesla Energy
9.92	1/10/2017	\$ 28,056.00	Wareham	Certified Safe Electric, Inc.
4.16	1/9/2017	\$ 17,804.80	Taunton	SolarCity Corporation DBA Tesla Energy
19.38	1/6/2017	\$ 60,000.00	Wareham	Acushnet Alternative Heating
19.38	1/6/2017	\$ 60,000.00	Wareham	Acushnet Alternative Heating
5.88	1/6/2017	\$ 13,644.00	Wareham	Sunrun
21.12	1/6/2017	\$ 85,000.00	Pembroke	Southern Light Solar
14.06	1/6/2017	\$ 56,244.00	Pembroke	Second Generation Energy
7.68	1/6/2017	\$ 28,416.00	Berkley	Solar Wolf Energy Inc
14.40	1/6/2017	\$ 51,096.00	Berkley	INO Electrical Service
24.85	1/6/2017	\$ 136,183.00	Freetown	Blue Selenium Solar, LLC
5.04	1/6/2017	\$ 22,327.20	Wareham	SolarCity Corporation DBA Tesla Energy
10.60	1/5/2017	\$ 36,146.00	Wareham	Solar Five
19.38	1/4/2017	\$ 60,000.00	Freetown	Acushnet Alternative Heating
13.08	1/4/2017	\$ 52,320.00	Pembroke	Second Generation Energy
9.72	1/4/2017	\$ 43,546.00	Lakeville	Bright Planet Solar
6.24	1/4/2017	\$ 20,467.20	Wareham	OneRoof Energy, Inc.
9.81	1/3/2017	\$ 41,475.15	Wareham	Vivint Solar Developer
4.28	1/2/2017	\$ 16,518.60	Pembroke	Trinity Solar