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November 20, 2018

Mark D. Marini, Secretary
Department of Public Utilities
One South Station, 5th Floor
Boston, MA 02110

Re: D.P.U. 17-140; Joint Petition of Massachusetts Electric Distribution Companies for Approval of Model Solar Massachusetts Renewable Target (SMART) Program Tariff

Dear Secretary Marini:

On behalf of Fitchburg Gas and Electric Light Company d/b/a Unitil (“Unitil”), Massachusetts Electric Company and Nantucket Electric Company, each d/b/a National Grid (“National Grid”), and NSTAR Electric Company d/b/a Eversource Energy (“Eversource”) (together, the “Distribution Companies”), enclosed please find a corrected model SMART Provision to implement the Solar Massachusetts Renewable Target (“SMART”) Program, as set forth in 225 C.M.R. § 20.00. The enclosed model SMART Provision corrects an internal reference in Section 9.0 to refer back to Section 7.0(4), instead of Section 7.0(5) as incorrectly included in the version submitted on November 16, 2018. In addition, the corrected version includes the following: (1) a memorialization of the abbreviation “kW” in Section 2.18; (2) a memorialization of the abbreviation “MW” in Section 3.0; and (3) replacement of “Solar Tariff Generation Units” with the abbreviated term “STGUs” in Section 7.0.

The Distribution Companies are providing a clean and redlined version of the SMART Provision incorporating all revisions since the Distribution Companies’ initial compliance model SMART Provision filed on October 16, 2018.

Thank you for your attention to this matter. Please contact me if you have any questions regarding this filing.

Sincerely,



Matthew S. Stern, Esq.

Enclosures

cc: Staci Rubin, Hearing Officer
Service List

SMART PROVISION

1.0 Purpose

The operation of the SMART Provision is pursuant to the Solar Massachusetts Renewable Target (“SMART”) Program regulations at 225 ~~C.M.R.~~CMR 20.00 promulgated pursuant to Chapter 75 of the Acts of 2016, as applicable to Solar Tariff Generation Units that have received a Statement of Qualification from the Massachusetts Department of Energy Resources ~~(“DOER”)~~. The SMART Provision provides for: (1) Incentive Payments for RPS Class I Renewable Generation Attributes and/or Environmental Attributes produced by a Solar Tariff Generation Unit; (2) Alternative On-Bill Credits for energy generated by an Alternative On-Bill Credit Generation Unit; (3) the basis upon which Incentive Payments and Alternative On-Bill Credits are determined; and (4) the recovery of any such Incentive Payments, Alternative On-Bill Credits, and incremental administrative costs associated with the implementation and operation of the SMART Program.

2.0 Definitions

As used throughout this tariff, the following terms shall have the definitions set forth in this Definitions section.

~~2.1~~ Alternative On-Bill Credit Generation Unit shall mean a Standalone Solar Tariff Generation Unit that is eligible for an Alternative On-Bill Credit pursuant to the SMART Provision, and is not compensated for energy generated pursuant to 220 CMR 8.0 or 220 CMR 18.00.

~~2.2.1~~ Alternative On-Bill Credit (“AOBC”) shall mean the value of the net excess electricity generated and fed back to the Company by an Alternative On-Bill Credit AOBC Generation Unit on a monthly basis, calculated pursuant to Section 9.0 below.

~~2.2~~ Alternative On-Bill Credit (“AOBC”) Allocation Worksheet AOBC Generation Unit shall mean a Standalone STGU that is eligible for an AOBC pursuant to the SMART Provision, and is not compensated for energy generated pursuant to 220 CMR 8.0 or 220 CMR 18.00.

2.3 AOBC Payment/Credit Form shall mean a paper or electronic form provided by the Company on which the Owner or Authorized Agent must provide, prior to the Commercial Operation Date of the Solar Tariff Generation Unit STGU, all required information for the Company to process the transfer of Alternative On-Bill Credits AOBCs. The Owner or Authorized Agent shall provide the AOBC Allocation Worksheet Payment/Credit Form directly to the Company and the SPA. The AOBC Allocation Worksheet Payment/Credit Form will be established and published by the Company from time to time on its website. The AOBC Allocation Worksheet Payment/Credit Form may be updated no more than two times during a 12-month period, unless allowed by the Company to be updated more frequently.

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- 2.4 Authorized Agent shall mean a person or entity that serves under an agreement entered into by each of the Owners of a ~~Solar Tariff Generation Unit~~STGU for all dealings with the DOER and the Company.
- 2.5 Company shall mean [INSERT COMPANY NAME].
- 2.6 Commercial Operation Date shall mean the date on which the Company grants permission to the ~~Solar Tariff Generation Unit~~STGU to operate in parallel with the Company's electric distribution system.
- ~~2.7 Community Shared Solar ("CSS") Tariff Generation Unit shall mean a Solar Tariff Generation Unit that provides energy or net metering credits to three or more Customers. No more than two participants may receive net metering credits in excess of those produced annually by 25 kW of nameplate AC capacity, and the combined share of said participants' capacity shall not exceed 50% of the total capacity of the Generation Unit, as defined in 225 CMR 14.02, except in the case of Generation Units smaller than 100 kW AC.~~
- ~~2.82.7~~ Current Year shall mean the 12-month period for which a SMART Factor will be in effect.
- ~~2.92.8~~ Customer shall mean any person, partnership, corporation, or any other entity, whether public or private, who obtains delivery service at a customer delivery point and who is a customer of record of the Company.
- ~~2.102.9~~ Department shall mean the Massachusetts Department of Public Utilities.
- ~~2.112.10~~ DOER shall mean the Department of Energy Resources.
- ~~2.122.11~~ Energy Storage System shall mean a commercially available technology that is capable of absorbing energy, storing it for a period of time and thereafter dispatching the energy, and that is co-located with a ~~Solar Tariff Generation Unit~~STGU that has qualified for the Energy Storage Adder pursuant to 225 CMR 20.07(4)(c).
- ~~2.132.12~~ Environmental Attributes shall mean all GIS Certificates and any other environmental benefits associated with the energy generation of a ~~Solar Tariff Generation Unit~~STGU.
- ~~2.142.13~~ Generation Attribute shall mean a Generation Attribute, as defined in 225 CMR 14.02.
- ~~2.152.14~~ GIS Certificate shall mean an electronic record produced by the NEPOOL GIS that identifies Generation Attributes of each Megawatt-hour (MWh) accounted for in the NEPOOL GIS.

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- ~~2.162.15~~ Incentive Payment shall mean the payment to a ~~Solar Tariff Generation Unit~~STGU, including an ~~Alternative On-Bill Credit~~AOBC Generation Unit, for RPS class I Renewable Generation Attributes and/or Environmental Attributes produced by these units, calculated pursuant to Section 7.0 below.
- ~~2.17~~ ~~Low Income Community Shared Solar (“LICSS”) Tariff Generation Unit~~ shall mean a ~~CSS STGU with at least 50 percent of its energy allocated to low income customers in the form of electricity or bill credits.~~
- ~~2.18~~ ~~Low Income Customer~~ shall mean a ~~Customer that is taking service through the Company’s low income discounted rate provision.~~
- ~~2.19~~ ~~Low Income Property Solar Tariff Generation Unit~~ shall mean a ~~Low Income Property Solar Tariff Generation Unit with a rated capacity greater than 25 kW that provides all of its generation output in the form of electricity or bill credits to low or moderate income housing, as defined under M.G.L. c. 40B.~~
- 2.16 Incentive Payment Effective Date shall mean the earliest date on or after the Commercial Operation Date on which electrical energy output of a STGU can result in the creation of RPS Class I Renewable Generation Attributes and also be eligible to begin receiving Incentive Payments.
- 2.17 Incentive Payment/Credit Form shall mean a form or online application provided by the Company and submitted by the Owner or Authorized Agent prior to the Commercial Operation Date of the STGU. The Owner or Authorized Agent shall provide the Incentive Payment/Credit Form directly to the SPA. The Incentive Payment/Credit Form will be established and published by the Company from time to time on its website.
- ~~2.202.18~~ Market Revenue shall mean (1) the market value or the net proceeds from the sale or use of the RPS Class I Renewable Generation Attributes and/or Environmental Attributes procured pursuant to the SMART Provision; and (2) net proceeds from the sale of energy generated by ~~Alternative On-Bill Credit~~AOBC Generation Units greater than 60 kilowatts (“kW”) or the market value of the energy generated by ~~Alternative On-Bill Credit~~AOBC Generation Units greater than 60 kW used by the Company for Basic Service. The market value of RPS Class I Renewable Generation Attributes and/or Environmental Attributes procured pursuant to the SMART Provision and used by the Company shall be determined from actual sales or purchases, and/or recent quotes from market participants.
- ~~2.212.19~~ NEPOOL GIS shall mean the New England Power Pool Generation Information System, which includes a generation information database and certificate system,

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operated by the New England Power Pool, its designee or successor entity, that accounts for Generation Attributes of electrical energy consumed and generated within, imported into, or exported from the ISO-NE Control Area.

~~2.222.20~~ On-Site Load shall mean any new or existing electric load located at the site of a ~~Solar Tariff Generation Unit~~STGU including any parasitic load that may result from the installation of the ~~Solar Tariff Generation Unit~~STGU, and that is wired to receive a portion of the electrical energy output from the ~~Solar Tariff Generation Unit~~STGU before the balance of such output passes through the ~~Solar Tariff Generation unit's~~STGU's metered interconnection onto the electric distribution system.

~~2.232.21~~ Owner shall mean any person or entity that, alone or in conjunction with others, has legal ownership of a ~~Solar Tariff Generation Unit~~STGU.

~~2.24~~ Payment/Credit Form shall mean a form or online application provided by the Company and submitted by the Owner or Authorized Agent prior to the Commercial Operation Date of the Solar Tariff Generation Unit. The Owner or Authorized Agent shall provide the Payment/Credit Form directly to the Solar Program Administrator (“SPA”). The Payment/Credit Form will be established and published by the Company from time to time on its website.

~~2.252.22~~ Prior Year shall mean a 12-month period prior to the Current Year.

~~2.262.23~~ Qualifying Facility (“QF”) shall mean a Qualifying Facility, as defined by the Department in 220 CMR 8.02.

~~2.272.24~~ RPS shall mean the Massachusetts Renewable Portfolio Standard established in Mass. Gen. Laws c. 25A, § 11F.

~~2.282.25~~ RPS Class I Renewable Generation Attribute shall mean a RPS Class I Renewable Generation Attribute as defined in 225 ~~C.M.R.~~CMR 14.02.

~~2.26~~ SMART Effective DateSolar Program Administrator (“SPA”) shall mean the ~~earliest date on or after~~qualified entity selected by the Commercial Operation Date on which electrical energy output of a~~electric distribution companies to facilitate the SMART Program.~~

~~2.29~~ Solar Tariff Generation Unit ~~can result in the creation of RPS Class I Renewable Generation Attributes and also be eligible to begin receiving Incentive Payments.~~

~~2.302.27~~ Solar Tariff Generation Unit (“STGU”) shall mean a Generation Unit, as defined in 225 CMR 14.02 and 225 CMR 20.02, that generates electricity using solar photovoltaic

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technology and meets all of the eligibility criteria set forth in 225 CMR 20.05 and 225 CMR 20.06 and has received a Statement of Qualification.

2.312.28 Standalone ~~Solar Tariff Generation Unit~~STGU shall mean a ~~Solar Tariff Generation Unit~~STGU that serves no associated On-Site Load other than parasitic or station load utilized to operate the Generation Unit.

2.322.29 Statement of Qualification shall mean a document issued by the DOER that qualifies a ~~Solar Tariff Generation Unit~~STGU to participate in the SMART Program pursuant to 225 CMR 20.00.

3.0 Availability

Incentive Payments and, as applicable, ~~Alternative On-Bill Credits~~AOBCs provided under this SMART Provision are available to the Owner or Authorized Agent of a ~~Solar Tariff Generation Unit~~STGU that has received a Statement of Qualification from the DOER, has met all eligibility requirements from 225 ~~C.M.R.~~CMR 20.00, has a total installed capacity of less than or equal to five megawatts (measured in megawatts (“MW”) AC), and is interconnected to the Company’s electric distribution system. The Base Compensation Rates, which form the basis for Incentive Payments, are established by capacity blocks as shown in Appendix A. Other than ~~Solar Tariff Generation Units~~STGUs selected under the one-time competitive procurement described in 225 CMR 20.07(3), no ~~Solar Tariff Generation Unit~~STGU shall be eligible to qualify in the Company’s first capacity block unless it has a capacity equal to or less than one megawatt or is eligible to receive a Compensation Rate Adder (special rate adders specific to certain types of ~~Solar Tariff Generation Units~~STGUs). Applications will be accepted on a first-come first-served basis.

Each Standalone ~~Solar Tariff Generation Unit~~STGU may be metered by the Company through a single metering point. All other ~~Solar Tariff Generation Units~~STGUs must be separately metered by the Company for the purpose of measuring energy generated by the ~~Solar Tariff Generation Unit~~STGU, with the Company’s metering installed behind the Customer’s service meter. All ~~Solar Tariff Generation Units~~STGUs must be electrically separate, and separately metered per Section 5.0, below, from any other existing electricity generating unit, whether taking service under the SMART Provision or not.

Incentive Payments and, as applicable, ~~Alternative On-Bill Credits~~AOBCs provided under this SMART Provision are available to the Owner or Authorized Agent of Eligible ~~Solar Tariff Generation Units~~STGUs installed on distribution infrastructure served, but not owned, by the Company, provided that (1) there is a Customer associated with the distribution infrastructure served by the Company; and (2) the ~~Company is able to install, read, and service a Company-owned meter installed on the Solar Tariff Generation Unit~~STGU shall also comply with the requirements in Section 5.0, below.

4.0 Other Tariff Applicability

All Customers must comply with the Company’s Standards for Interconnection of Distributed Generation tariff (“Interconnection Tariff”) and the Terms and Conditions for Distribution Service, as may be amended from time to time.

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~~Solar Tariff Generation Units~~STGUs that are served on the Company's Net Metering tariff pursuant to 220 ~~C.M.R.CMR~~ 18.00 or ~~qualifying facilities~~QF tariff pursuant to 220 ~~C.M.R.CMR~~ 8.00 will receive Incentive Payments pursuant to the SMART Provision. The terms and conditions regarding the calculation and distribution of net metering credits or payments for purchased power are governed by the provisions of the applicable tariff.

5.0 Metering

The Company will own, install, and maintain a meter on each ~~Solar Tariff Generation Unit~~STGU that complies with the metering standards applicable to the size of the ~~Solar Tariff Generation Unit~~STGU as defined in the Company's Interconnection Tariff. Monthly readings obtained from the meter will be used to determine Incentive Payments pursuant to Section 7.0 below. The Company must be provided adequate access to read the meter(s), and to install, repair, maintain, and replace the meter(s), if applicable. ~~For a Solar Tariff Generation Unit, the Company will assess a charge to the Owner, Authorized Agent, During the interconnection process, the Company will assess the Owner, Authorized Agent, or their designee of a STGU a charge for the installed cost of the meter, including necessary metering equipment (e.g., instrument transformers, communication equipment). An Energy Storage System co-located with a STGU greater than 60 kW may require separate metering, and during the interconnection process, the Company will assess a charge to the Owner, Authorized Agent or their designee for the installed cost of the meter, including necessary metering equipment (e.g., instrument transformers, communication equipment). An Energy Storage System co-located with a Solar Tariff Generation Unit greater than 60 kW may require separate metering, and the Company will assess a charge to the Owner or Authorized Agent for the installed cost of the meter, including necessary metering equipment (e.g., instrument transformers, communication equipment), if installed.~~

6.0 Conditions for Participation

Owners or Authorized Agents of a ~~Solar Tariff Generation Unit~~STGU must demonstrate compliance with the following conditions prior to receiving Incentive Payments and ~~Alternative On-Bill Credits~~AOBCs, if applicable. Incentive Payments and ~~Alternative On-Bill Credits~~AOBCs will be applied on a prospective basis only after all of the following conditions have been met.

- 6.1 The Owner must obtain the Company's written authority to interconnect and operate in parallel with the Company's electric distribution system.
- 6.2 The Owner must provide final approval of a Statement of Qualification from the DOER for systems that have been constructed within the required timeline. This may be provided directly to the Company by the ~~Solar Program Administrator ("SPA")~~SPA with the permission of the Owner.
- 6.3 During the period of time in which the ~~Solar Tariff Generation Unit~~STGU is receiving Incentive Payments pursuant to Section 7.0, the Company shall have the irrevocable rights and title to the RPS Class I Renewable Generation Attributes and/or Environmental Attributes of all ~~Solar Tariff Generation Units~~STGUs. In addition, for those units that are also ~~Alternative On-Bill Credit~~AOBC Generation Units, the Company will also have

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irrevocable rights and title to the energy and any market products associated with the sale of energy or energy services produced by the ~~Alternative On-Bill Credit~~AOBC Generation Unit.

- 6.3.1 RPS Class I Renewable Generation Attributes in the form of Renewable Energy Certificates (“RECs”) must be delivered to the Company’s appropriate NEPOOL-GIS account. For ~~Solar Tariff Generation Units~~STGUs greater than 60 kW, and that are not connected behind a meter measuring On Site Load, this will be accomplished through either the Company or the Owner registering the ~~Solar Tariff Generation Unit~~STGU with the NEPOOL-GIS and enrolling in a Forward Certificate Transfer of RECs to the appropriate Company NEPOOL-GIS account for the term of enrollment in this tariff. If the Owner is required to register the Solar Tariff Generation UnitSTGU and enroll in a Forward Certificate Transfer, evidence of such enrollment will be collected by the Company.
- 6.3.2 ~~Solar Tariff Generation Units~~STGUs that are 60 kW or smaller, and those that are greater than 60 kW and are connected behind a meter measuring On Site Load, shall provide all necessary information to, and cooperate with, the Company to enable the Company to obtain the appropriate asset identification for reporting generation to the NEPOOL-GIS for the creation of RECs and direct all RECs from the ~~Solar Tariff Generation Unit~~STGU to the Company’s appropriate NEPOOL-GIS account. The Owner or Authorized Agent shall provide approvals or assignments, including, but not limited to, completing the Company’s Renewable Energy Certificate Assignment and Aggregation Form, to facilitate the ~~Solar Tariff Generation Unit’s~~STGU’s participation in asset aggregation or other model of asset registration and reporting for the period of time in which the ~~Solar Tariff Generation Unit~~STGU is receiving Incentive Payments pursuant to Section 7.0. This form will be collected by the SPA and provided to the Company.
- 6.3.3 Energy: Energy produced by ~~Alternative On-Bill Credit~~AOBC Generation Units must be delivered to the Company in the Company’s ISO-NE load zone at the delivery node associated with the ~~Solar Tariff Generation Unit~~STGU. As requested by the Company or ISO-NE, the Owner or Authorized Agent shall provide all necessary information as well as follow all requirements for all applicable market rules needed to set up the necessary generation asset, if the Company chooses to settle such energy. ~~Solar Tariff Generation Units less than or equal to 60 kW that are connected behind a meter measuring On Site Load will not be registered as settlement only generators, but will serve as load reducers in the ISO-NE energy market.~~
- 6.3.4 Capacity: This tariff does not assign capacity rights of any ~~Solar Tariff Generation Unit~~STGU or Energy Storage System to the Company, Owner, or Authorized Agent except as consistent with the Company’s ~~Qualifying Facility~~QF tariff and subject to any future determination on capacity rights ~~in D.P.U. 17-146~~by the

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Department.

6.3.5 It is the responsibility of the Owner or the Authorized Agent to ensure that billing account information of the designated recipients of ~~Alternative On-Bill Credits~~ AOBCs and information necessary for distribution of Incentive Payments is accurately reflected on the ~~AOBC Allocation Worksheet~~ Payment/Credit Form and provided on any forms required for taxpayer identification and reporting. ~~Alternative On-Bill Credits~~ AOBCs that cannot be applied to recipient accounts because of inaccurate information will remain on the ~~Solar Tariff Generation Unit's~~ STGU's account and will be carried forward to subsequent billing months subject to Section 9.0 regarding the ~~annual~~ Company's option to pay a lump sum payment amount. Changes to the Incentive Payment/Credit Form and/or ~~AOBC Allocation Worksheet~~ Payment/Credit Form must be received by the Company at least 15 days prior to the next billing date of the ~~Solar Tariff Generation Unit~~ STGU or the ~~Alternative On-Bill Credit~~ AOBC recipient, as applicable, to be reflected in the next billing period. Incentive Payments that cannot be paid to an Owner due to inaccurate or incomplete records will be available for 90 calendar days, after which they will be forfeited.

7.0 Calculation of Incentive Payments

Incentive Payments to ~~Solar Tariff Generation Units~~ STGUs will be in accordance with the formula specified in 225 CMR 20.08 and will be calculated for each monthly billing period as follows:

IP = (BCR + CRA – GS – VOE) ~~x~~ * kWhgen

Where

IP = Incentive Payment.

BCR = Base Compensation Rate applicable to the ~~Solar Tariff Generation Unit~~ STGU as specified in the ~~Solar Tariff Generation Unit's~~ STGU's Statement of Qualification. The Base Compensation Rates by capacity block are provided in Appendix A.

CRA = Compensation Rate Adder applicable to the ~~Solar Tariff Generation Unit~~ STGU as specified in the ~~Solar Tariff Generation Unit's~~ STGU's Statement of Qualification.

GS = Greenfield Subtractor applicable to the ~~Solar Tariff Generation Unit~~ STGU as specified in the ~~Solar Tariff Generation Unit's~~ STGU's Statement of Qualification.

kWhgen = kWh generated during the billing period. For ~~Solar Tariff Generation Units~~ STGUs, kWhgen will be measured after the reduction for parasitic or station load.

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VOE = Value of Energy, determined as set forth below

- (1) For Standalone ~~Solar Tariff Generation Units~~STGUs that are net metered pursuant to the Company's Net Metering tariff, the VOE will be the applicable net metering credit.
- (2) For Standalone ~~Solar Tariff Generation Units~~STGUs that are Qualifying FacilitiesQFs or On-site Generating Facilities pursuant to 220 ~~C.M.R.~~CMR 8.00 but are not net metered pursuant to the Company's Net Metering tariff, the VOE will be the rate applicable under the Company's qualifying facilityQF tariff.
- ~~(3)~~ For ~~Solar Tariff Generation Units~~STGUs that are located behind the Customer's electric service meter and have On-Site Load other than parasitic or station load, the VOE will be the sum of the current applicable distribution kWh charge, transmission kWh charge, transition kWh charge, and the average of the Basic Service kWh charge for the three calendar years immediately preceding the year in which the Statement of Qualification is issued. For purposes of this tariff, a Customer's current applicable distribution kWh charge, transmission kWh charge, and transition kWh charge will be those charges in effect applicable to the Customer during the previous calendar year. The VOE applicable to the ~~Solar Tariff Generation Unit~~STGU will be specified on the Statement of Qualification, as provided by the Company in Appendix A to this tariff and will not change during the period of time during which the ~~Solar Tariff Generation Unit~~STGU is receiving Incentive ~~Payment pursuant to Section 7.0, unless directed to change by DOER.~~
- ~~(4)~~(3) For ~~Solar Tariff Generation Units that are installed on distribution infrastructure that is served, but not owned, by the Company, the VOE will be the sum of the current applicable distribution kWh charge, transmission kWh charge, transition kWh charge, and the average of the Basic Service kWh charge for the three calendar years immediately preceding the year in which the Statement of Qualification is issued. For purposes of this tariff, a Customer's current applicable distribution kWh charge, transmission kWh charge, and transition kWh charge will be those charges in effect applicable to the Customer associated with the distribution infrastructure served by the Company during the previous calendar year. The VOE applicable to the Solar Tariff Generation Unit will be specified on the Statement of Qualification, as provided by the Company in Appendix A to this tariff, and will not change during the period of time during which the Solar Tariff Generation Unit is receiving~~

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~~Incentive Payment~~ Payments pursuant to Section 7.0, unless directed to change by DOER.

~~(5)~~(4) For ~~Alternative On-Bill Credit~~ AOBC Generation Units, the VOE will be equal to the Basic Service rate applicable to the ~~Alternative On-Bill Credit~~ AOBC Generation Unit's rate class in effect during the billing period, as established by the Company's Basic Service tariff.

~~(6)~~(5) Base Compensation Rates and, if applicable, Compensation Rate Adders, and/or Greenfield Subcontractors are determined as authorized in the Statement of Qualification, and those rates will not change during the period of time in which the ~~Solar Tariff Generation Unit~~ STGU is receiving Incentive Payment pursuant to Section 7.0 unless as directed by the DOER, SPA or the Department. The applicable distribution, transmission and transition charges, and the three-year average of Basic Service rates will change once annually in Appendix A to this tariff.

8.0 Distribution of Incentive Payments

The Company will disburse Incentive Payments, in the form of a paper or electronic check as specified on the Incentive Payment/Credit Form or AOBC Payment/Credit Form, to the ~~Solar Tariff Generation Unit's~~ STGU's Owner or Authorized Agent. If the Incentive Payment is disbursed to an Authorized Agent, the Owner must indicate on the applicable Payment/Credit Form.

9.0 Alternative On-Bill Credits

The ~~Alternative On-Bill Credits~~ AOBCs shall be the ~~Value of Energy~~ VOE of the ~~Alternative On-Bill Credit~~ AOBC Generation Unit as specified in Section ~~7.0(5)~~ 7.0(4) above multiplied by the total kilowatt-hours (kWh) during a billing period for any Standalone ~~Solar Tariff Generation Unit~~ STGU which elects to enroll as an ~~Alternative On-Bill Credit~~ AOBC Generation Unit. The ~~Alternative On-Bill Credits~~ AOBCs will be applied to the single billing account associated with the ~~Alternative On-Bill Credit~~ AOBC Generation Unit.

The Owner of the ~~Alternative On-Bill Credit~~ AOBC Generation Unit must complete ~~an Incentive~~ Payment/Credit Form and AOBC ~~Allocation Worksheet~~ Payment/Credit Form indicating how the ~~Alternative On-Bill Credits~~ AOBCs are to be transferred to other Customer accounts in the Company's service area. ~~Alternative On-Bill Credits~~ AOBCs may be transferred across ISO-NE load zones within the Company's service territory. The Company shall not transfer ~~Alternative On-Bill Credits~~ AOBCs without a completed Incentive Payment/Credit Form and AOBC ~~Allocation Worksheet~~ Payment/Credit Form. Such allocations are allowed up to two decimal places and the AOBC Payment/Credit Form will not be considered complete unless allocations correctly total 100 percent and there are no billing account number or customer name errors. At its option, the Company may increase the number of decimal places on the AOBC Payment/Credit Form once there is automation of AOBCs, if it does not place an undue burden on the Company.

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At its option, the Company may pay a designated recipient, in a lump sum amount, any ~~Alternative On-Bill Credit~~AOBC remaining on the ~~Alternative On-bill Credit~~AOBC Generation Unit billing account at the end of a 12-month period ending March 31, adjusted by the ratio of the average ISO-NE Locational Marginal Pricing rate that was realized by the settlement of the output of ~~Solar Tariff Generation Units~~STGUs with ISO-NE over the course of the year divided by the average Basic Service rate for the 12-month period.

10.0 Term of Tariff

All ~~Solar Tariff Generation Units~~STGUs with capacities larger than 25 kW AC will be eligible to receive compensation under this tariff for 20 years from the ~~Solar Tariff Generation Unit's SMART~~STGU's Incentive Payment Effective Date. All ~~Solar Tariff Generation Units~~STGUs with capacities less than or equal to 25 kW AC will be eligible to receive compensation under this tariff for 10 years from the ~~Solar Tariff Generation Unit's SMART~~STGU's Incentive Payment Effective Date. This tariff will remain in effect until the costs incurred to administer the SMART Program have been fully recovered through the SMART Factors and termination of this tariff has been granted by the Department.

11.0 Applicability of SMART Factor

The SMART Factor, as defined herein, shall be determined in accordance with Section 13.0 below, subject to the Department's review and approval. The SMART Factor shall be applied to all bills issued by the Company, shall be assessed to the billed kWh of all retail delivery service customers, and will be identified as "~~{~~“Distributed Solar Charge”~~”}~~" on customer bills.

Prior to January 1, 2020, the SMART Factor will apply to the ~~net~~-billed kWh of Customers with a ~~Solar Tariff Generation Unit~~.STGU. By January 1, 2020, Customers with a ~~Solar Tariff Generation Unit~~STGU will be billed the SMART Factor assessed to the sum of the net kWh recorded on the ~~Solar Tariff Generation Unit~~STGU production meter and the net kWh recorded on the Customer's revenue meter, or by a different date after January 1, 2019 as approved by the Department.

12.0 SMART Factor Effective Date

The SMART Factor shall be effective January 1 of each year, unless otherwise ordered by the Department.

13.0 Calculation of SMART Factor

The SMART Factor, as defined herein, shall be determined in accordance with this Section in the form of a volumetric charge that varies by rate class, subject to the Department's review and approval. Costs that are ineligible for recovery through the SMART Factor include, but are not limited to: (1) SPA costs, and (2) overhead and burdens operations and maintenance (“O&M”) expenses, unless the Department approves such expenses. Capitalized overhead and burdens are eligible for recovery provided the associated expenses meet the requirements of the test referenced in Section 15.0. The SMART Factor recovers the annual incremental costs that the Company incurs during the applicable 12-month period associated with the SMART Program. The SMART Factor shall include estimated Incentive Payments,

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~~Alternative On-Bill Credits~~AOBCs, and Market Revenue. The Company will reflect actual Incentive Payments, ~~Alternative On-Bill Credits~~AOBCs, and Market Revenue, along with actual incremental administrative costs, in determining the amount it has under or over-recovered through the applicable year’s SMART Factor.

The SMART Factor shall be calculated as follows:

$$SF_x = (IP_x + ABC_x - MR_x + ADM_{x-1} + \del{INT}_x + RA_{x-1}) \times \underline{s} \div FkWh_x$$

Where

x = The Current Year.

s = A separate value for the following rate classes: **[list each company’s rate classes]**

SF_x = The SMART Factor for the Current Year for each rate class.

IP_x = Estimated Incentive Payments issued in the Current Year.

ABC_x = Estimated Alternative On-Bill Credits issued in the Current Year.

MR_x = Estimated Market Revenue associated with IPs and ABCs in the Current Year.

ADM_{x-1} = The incremental capital and O&M administrative cost the Company incurred in the Prior Year necessary to meet SMART Program objectives, including, but not limited to, billing system improvements, and additional personnel required for ongoing operations.

~~INT_x~~ = ~~Estimated Interest Expense in the Current~~ Incremental administrative costs include the revenue requirement associated with cumulative capital improvements placed in service up through the Prior Year.

RA = The Reconciliation Amount is the sum of (a) the difference between (1) the actual IP, ABC, and MR incurred in the Prior Year plus incremental administrative costs approved for recovery in prior years; and (2) the amount of SF revenue billed by the Company during the Prior Year. Interest shall be applied to the reconciling balance at the Prime Rate as reported by the Wall Street Journal.

DRA = The Distribution Revenue Allocator percentage for each rate class.

FkWh_x = Forecasted kWh for each rate class for the Current Year.

The Distribution Revenue Allocator shall be derived from the Company’s most recent general rate case as approved by the Department and shall be as follows by rate class:

Rate []	xx.x%
Rate []	xx.x%

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Rate []	xx.x%
Rate []	xx.x%
Rate []	xx.x%
Streetlighting	x.x%

Interim SMART Factor Adjustments

If at any time during the year, the annual SMART Program costs are ten percent above or below the costs the Company is recovering through its SMART Factor, the Company may petition the Department for an interim adjustment prior to its next scheduled SMART Factor filing.

14.0 Determination of Incremental Administrative Cost

To be eligible for inclusion as an incremental administrative cost recoverable through the SMART factor, the Company shall demonstrate that all ~~operation and maintenance (O&M)~~O&M expenses incurred in the performance of SMART Program activities and proposed for recovery through the SMART factor are:

- (1) incremental to the representative level of O&M expenses recovered through all other rates billed by the Company to its customers; and
- (2) directly related to SMART Program activities.

The Company shall apply these thresholds to all O&M expenses for which it seeks recovery, ~~including internal labor and third party/contractors, as described below~~ for Department review in annual SMART Factor filings.

~~14.1~~ Internal Labor

~~Internal labor expenses eligible for recovery as incremental administrative costs shall be limited to: (i) the cost of non-employee individuals hired into SMART Program positions created after September 26, 2018 for the specific purpose of implementing the Company’s SMART Program (“SMART Roles”); and (ii) the cost of existing employees who have transferred to a SMART Role and who were employees prior to September 26, 2018. Labor related costs for SMART Roles created prior to September 26, 2018 will not be recoverable unless the Company can demonstrate that the associated costs of SMART Roles created before September 26, 2018 are attributed solely to SMART Program activities and are not otherwise recovered through base distribution rates. The Company shall separately account for the cost of employees hired into SMART Roles, and maintain documentation regarding the dates of hire, names of employees, detailed job descriptions and responsibilities, titles, salaries, and specific activities performed by each SMART Role in each year for which the Company seeks cost recovery.~~

~~14.2~~ New Hires

~~Non-employee individuals hired into SMART Roles and thereby becoming employees of the Company were not employees whose cost was included in the test year in the Company’s most~~

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~~recent general rate case; therefore, the cost of these employees is not recovered in base distribution rates approved in that general rate case.~~

~~The Company may, at the time of the filing of a general rate case, propose to recover certain ongoing administrative costs, such as the cost of incremental employees, through base distribution rates. If the Company, in the context of a future rate proceeding, opts not to incorporate such costs in base distribution rates, the Company would be required to demonstrate that such costs were not included for recovery in base distribution rates and adjusted the test year accordingly to exclude the costs.~~

14.3 Internal Transfers

~~Annually, as a component of the annual SMART Factor filing described in Section 15.0, the Company shall perform a test to determine whether existing employees transferred into SMART Roles are incremental employees and their costs are not otherwise recovered through any other rate. The test will be based on the number of full time equivalent (“FTE”) employees included in the test year of the Company’s most recent general rate case and will calculate how the number of FTE employees has changed over time (“FTE Test”).~~

~~Under the FTE Test, the Company shall compare the number of FTEs included in test year of its most recent general rate case (“Test Year FTEs”) to the number of FTEs in the Prior Year (“Prior Year FTEs”). The difference between the Prior Year FTEs and Test Year FTEs is then compared to the number of internal FTEs that have transferred into SMART Roles (“Transferred FTEs”).~~

~~In Step 1 of the FTE Test, if the Prior Year FTEs are less than the Test Year FTEs, then the internal labor cost of Transferred FTEs is not eligible for recovery through this SMART [Provision] and the cost is to be excluded from the incremental administrative cost. If the Prior Year FTEs are greater than Test Year FTEs, then the internal labor cost of the Transferred FTEs is eligible for recovery under the SMART [Provision], and Step 2 of the FTE Test is performed to determine how much of the internal labor cost of the Transferred FTEs is to be included in the incremental administrative cost.~~

~~Step 2 identifies the number of Transferred FTEs that is used to determine the internal labor cost to be included in the incremental administrative cost and shall be the lesser of: (1) the difference between the Prior Year FTEs and Test Year FTEs, and (2) the Transferred FTEs.~~

~~The number of FTEs derived in Step 2 divided by the total number of Transferred FTEs, results in a percentage that is multiplied by the total internal labor costs of Transferred FTEs. The product is the amount of internal labor cost of Transferred FTEs to be included as recoverable incremental administrative cost for the Prior Year.~~

~~The FTE Test excludes employees who support the Company’s Energy Efficiency Programs, as the cost of these employees is not recovered through base distribution rates.~~

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~~14.4 — Third Party/Contractor Costs~~

~~The Company may contract with third parties and/or contractors to perform SMART Program activities for the purpose of implementing elements of the SMART Program. As part of the Annual SMART Factor filing, the Company will include appropriate documentation that any third party and/or contractor costs are directly related to SMART Program activities and are therefore not recovered in base distribution rates or through another cost recovery mechanism.~~

~~14.5 — Cost Tracking~~

~~The Company shall separately account for the cost of activities performed to implement its SMART Program. The Company shall establish separate, unique accounting codes in its accounting system and/or plant asset system to identify all O&M expense incurred as a result of SMART Program activities and to categorize the expenses into type of expenses, such as labor and categories of non-labor expenses. The Company shall also establish separate, unique accounting codes in its accounting system and/or plant asset system to identify all capital costs incurred to implement its SMART Program. The Company shall retain all supporting documentation to demonstrate that such costs were incurred as a direct result of SMART Program activities.~~

15.0 Overhead and Burden Adjustments to Cross Plant Investment

The Company will perform an overhead and burdens test to demonstrate that actual overhead and burdens costs charged to SMART Program capital projects are incremental to amounts recovered in base distribution rates and other reconciling mechanisms. This test shall compare the actual O&M overhead and burdens and the amount included in base distribution rates in each year. If the actual O&M overhead and burdens exceed the amount included in base distribution rates, capitalized overheads and burdens recovered through a reconciling rate shall be reduced by the amount of the excess. The Company shall determine whether such reduction is required for all reconciling mechanisms that require such a determination once each year, and the determination shall be included in the Company's annual Grid Modernization Plan cost recovery filing pursuant to the Company's Grid Modernization Recovery [Provision], M.D.P.U. No. #####, as may be amended from time to time. In addition, the percentage of capitalized overhead and burdens assigned to SMART Program capital projects shall be set equal to the ratio of SMART Program costs to total direct costs in any given year.

16.0 Information Required to be filed with the Filing of SMART Factors for Department Approval

Changes to the SMART Factors shall be filed with the Department at least 60 days prior to January 1. Such filing shall include the reconciliation of the amount recoverable through prior SMART Factors, as appropriate, and include supporting calculations for estimated Incentive Payments and describe any cost variances as defined in the Company's project authorization policies.

~~The Company shall also submit a quarterly informational filing that includes the following information:~~

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- ~~(1) the number and capacity of LICSS STGUs in each capacity block in its territory plus the amount of credits allocated to customers on the low income rate;~~
- ~~(2) the number and capacity of CSS STGUs in each capacity block in its territory plus the amount of credits allocated to customers on the low income rate;~~
- ~~(3) the number and capacity of Low Income Property STGUs in each capacity block in its territory; and~~
- ~~(4) the total number and capacity of STGUs in each capacity block in its territory.~~

17.0 Additional Terms and Conditions of Service

- 17.1 Cooperation and Qualification of ~~Solar Tariff Generation Units~~STGUs for Other Programs, Incentives, and Markets. Consistent with Section 6.3, if requested by the Company, the Owner or Authorized Agent of an enrolled ~~Solar Tariff Generation Unit~~STGU shall take all commercially reasonable means necessary, and pay any costs or fees associated with such actions, to cooperate with the Company to qualify a ~~Solar Tariff Generation Unit~~STGU for other available federal, state, regional, local, and voluntary programs, incentives, and/or markets that would increase the value or marketability of the ~~Solar Tariff Generation Unit's~~STGU's products and attributes including but not limited to registering the ~~Solar Tariff Generation Unit~~STGU with other states in order to qualify for such states' ~~Renewable Portfolio Standard~~RPS or similar program(s). Such Owner or Authorized Agent shall comply with all rules of such programs, incentives, and markets including, without limitation, rules that relate to the creation, tracking, recording, and transfer of all Environmental Attributes that are to be transferred under this tariff.
- 17.2 Non-Compliance. The Owner or Authorized Agent of a ~~Solar Tariff Generation Unit~~STGU shall comply with the provisions of this tariff through the end of the period during which the ~~Solar Tariff Generation Unit~~STGU is eligible to receive Incentive Payments pursuant to Section 7.0. Only the ~~Solar Tariff Generation Unit~~STGU described on the Statement of Qualification is eligible to participate under this tariff. In no event shall a ~~Solar Tariff Generation Unit's~~STGU's nameplate capacity exceed what is allowed by the Statement of Qualification. If a ~~Solar Tariff Generation Unit~~STGU exceeds the nameplate capacity allowed by the Statement of Qualification, or the Company determines that an Owner or Authorized Agent has violated the terms and conditions of this tariff, the Company will report the non-compliance immediately to the DOER, and the DOER shall issue a notice of non-compliance to the Owner or Authorized Agent and to the Company. Upon receipt of a notice of non-compliance from the DOER, the Company may suspend payment of Incentive Payments and ~~Alternative On-Bill Credits~~AOBCs, if applicable, and/or take other action as required the DOER until such time as the non-compliance has been remedied.

Neither the Company nor the Owner or Authorized Agent shall be deemed in non-compliance for failure or delay in the performance of any obligation under the tariff if and to the extent that such delay or failure is due to a Force Majeure Event. A Force

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Majeure Event shall mean any cause beyond the reasonable control of, and not due to the fault or negligence of, the Company or the Owner or Authorized Agent and which could not have been avoided by exercising commercially reasonable efforts, including, as applicable, acts of war or terrorism, public disorder, insurrection or rebellion, embargo or national emergency; curtailment of electric distribution services; flood, hurricane, windstorm, tornado, earthquake, or other acts of God; explosion or fire; strikes, lockouts, or other labor disturbances (whether among employees of the Company or the Owner or Authorized Agent, its suppliers, contractors, or others); delays, failure, and/or refusal of suppliers to supply materials or services; orders, acts or omissions of the NEPOOL GIS Administrator, as applicable; embargoes; sabotage; or any other cause of like or different kind, beyond the reasonable control of the Company or the Owner or Authorized Agent. Notwithstanding the foregoing, a Force Majeure Event shall not be based on Owner's ability to sell market products at a price greater than the rates applicable to the ~~Solar Tariff Generation Unit~~ STGU or the Company's ability to purchase market products at prices below the applicable rates.

The party claiming Force Majeure shall notify the other party and the DOER of the occurrence thereof as soon as possible and shall use reasonable efforts to resume performance immediately. In no event shall a claim of Force Majeure or a Force Majeure Event operate to extend the ~~Solar Generation Tariff Unit's~~ STGU's eligibility to receive Incentive Payments pursuant to Section 7.0.

- 17.3 Termination Provisions. The DOER has the authority to suspend or revoke Statements of Qualification. If the Owner or Authorized Agent or the Company receives confirmation from the DOER that the Owner's Statement of Qualification has been suspended or revoked, or if the Owner or Authorized Agent has failed to satisfy the Owner's obligations under this tariff, the Company may elect to terminate its obligations under this tariff. Neither the Owner or Authorized agent nor the Company may terminate their obligations under this tariff with less than 30 days' notice to the other party.
- 17.4 Governing Law. This tariff is governed by the provisions of 225 CMR 20.00 and Chapter 164 of the General Laws.
- 17.5 Dispute Resolution. ~~Disputes pertaining to the value of incentive payments as determined by the DOER and the SPA should be directed to the DOER. Disputes shall generally be resolved in accordance with D.P.U. 17-140-A at 202-204.~~ Neither the Company nor the Department shall be responsible for resolving disputes between the Owner of an ~~Alternative On-Bill Credit~~ AOBC Generation Unit and those Customers to whom the Owner is transferring ~~Alternative On-Bill Credits.~~ ~~Disputes regarding Alternative On-Bill Credit allocations should be directed to the DOER and the SPA.~~ AOBCs.

~~For billing-related disputes regarding the payment of incentives and/or the VOE that cannot be resolved by the Company, customers should contact the Department's Distributed Generation Group.~~

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APPENDIX A

I. Base Compensation Rates

Generation Unit Capacity	Base Compensation Rate Factor	Term Length	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8
Low Income \leq 25 kW AC	230%	10-year								
\leq 25 kW AC	200%	10-year								
$>$ 25 kW, \leq 250 kW AC	150%	20-year								
$>$ 250 kW, \leq 500 kW AC	125%	20-year								
$>$ 500 kW, \leq 1,000 kW AC	110%	20-year								
$>$ 1,000 kW, \leq 5,000 kW AC	100%	20-year								
$>$ 1,000 kW, \leq 5,000 kW*		20-year								

*For Solar Tariff Generation Units selected under the one-time competitive procurement.

Notes:

Each Capacity Block shall have a minimum of 20% and a maximum of 35% of its total available capacity reserved for Solar Tariff Generation Units with nameplate capacities less than or equal to 25 kW.

Solar Tariff Generation Units that receive a capacity allocation in more than one Capacity Block will receive a blended Compensation Rate that reflects the rates applicable to both Capacity Blocks.

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APPENDIX A

II. Compensation Rate Adders

Please refer to 225 ~~C.M.R.~~ §CMR 20.07(4) for currently effective Compensation Rate Adders, and to DOER’s Guideline on Energy Storage at <https://www.mass.gov/info-details/solar-massachusetts-renewable-target-smart-program#smart-program-guidelines> that provides an Energy Storage Adder calculator.

III. Sum of Applicable Distribution, Transmission, Transition, and Three Year Average of Basic Service Rates

Rate Class	Applicable Three-Year Average by Commercial Operation Year (¢/kWh)	
	2018	2019
Rate []	tbd	tbd
Rate []	tbd	tbd
Rate []	tbd	tbd
Rate []	tbd	tbd

IV. Basic Service Rates

[INSERT ADDRESS TO COMPANY’S EXTERNAL WEBSITE FOR SUMMARY OF RATES]

SMART PROVISION

1.0 Purpose

The operation of the SMART Provision is pursuant to the Solar Massachusetts Renewable Target (“SMART”) Program regulations at 225 CMR 20.00 promulgated pursuant to Chapter 75 of the Acts of 2016, as applicable to Solar Tariff Generation Units that have received a Statement of Qualification from the Massachusetts Department of Energy Resources. The SMART Provision provides for: (1) Incentive Payments for RPS Class I Renewable Generation Attributes and/or Environmental Attributes produced by a Solar Tariff Generation Unit; (2) Alternative On-Bill Credits for energy generated by an Alternative On-Bill Credit Generation Unit; (3) the basis upon which Incentive Payments and Alternative On-Bill Credits are determined; and (4) the recovery of any such Incentive Payments, Alternative On-Bill Credits, and incremental administrative costs associated with the implementation and operation of the SMART Program.

2.0 Definitions

As used throughout this tariff, the following terms shall have the definitions set forth in this Definitions section.

- 2.1 Alternative On-Bill Credit (“AOBC”) shall mean the value of the net excess electricity generated and fed back to the Company by an AOBC Generation Unit on a monthly basis, calculated pursuant to Section 9.0 below.
- 2.2 AOBC Generation Unit shall mean a Standalone STGU that is eligible for an AOBC pursuant to the SMART Provision, and is not compensated for energy generated pursuant to 220 CMR 8.0 or 220 CMR 18.00.
- 2.3 AOBC Payment/Credit Form shall mean a paper or electronic form provided by the Company on which the Owner or Authorized Agent must provide, prior to the Commercial Operation Date of the STGU, all required information for the Company to process the transfer of AOBCs. The Owner or Authorized Agent shall provide the AOBC Payment/Credit Form directly to the Company and the SPA. The AOBC Payment/Credit Form will be established and published by the Company from time to time on its website. The AOBC Payment/Credit Form may be updated no more than two times during a 12-month period, unless allowed by the Company to be updated more frequently.
- 2.4 Authorized Agent shall mean a person or entity that serves under an agreement entered into by each of the Owners of a STGU for all dealings with the DOER and the Company.
- 2.5 Company shall mean [INSERT COMPANY NAME].
- 2.6 Commercial Operation Date shall mean the date on which the Company grants permission to the STGU to operate in parallel with the Company’s electric distribution system.

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- 2.7 Current Year shall mean the 12-month period for which a SMART Factor will be in effect.
- 2.8 Customer shall mean any person, partnership, corporation, or any other entity, whether public or private, who obtains delivery service at a customer delivery point and who is a customer of record of the Company.
- 2.9 Department shall mean the Massachusetts Department of Public Utilities.
- 2.10 DOER shall mean the Department of Energy Resources.
- 2.11 Energy Storage System shall mean a commercially available technology that is capable of absorbing energy, storing it for a period of time and thereafter dispatching the energy, and that is co-located with a STGU that has qualified for the Energy Storage Adder pursuant to 225 CMR 20.07(4)(c).
- 2.12 Environmental Attributes shall mean all GIS Certificates and any other environmental benefits associated with the energy generation of a STGU.
- 2.13 Generation Attribute shall mean a Generation Attribute, as defined in 225 CMR 14.02.
- 2.14 GIS Certificate shall mean an electronic record produced by the NEPOOL GIS that identifies Generation Attributes of each Megawatt-hour (MWh) accounted for in the NEPOOL GIS.
- 2.15 Incentive Payment shall mean the payment to a STGU, including an AOBC Generation Unit, for RPS class I Renewable Generation Attributes and/or Environmental Attributes produced by these units, calculated pursuant to Section 7.0 below.
- 2.16 Incentive Payment Effective Date shall mean the earliest date on or after the Commercial Operation Date on which electrical energy output of a STGU can result in the creation of RPS Class I Renewable Generation Attributes and also be eligible to begin receiving Incentive Payments.
- 2.17 Incentive Payment/Credit Form shall mean a form or online application provided by the Company and submitted by the Owner or Authorized Agent prior to the Commercial Operation Date of the STGU. The Owner or Authorized Agent shall provide the Incentive Payment/Credit Form directly to the SPA. The Incentive Payment/Credit Form will be established and published by the Company from time to time on its website.

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- 2.18 Market Revenue shall mean (1) the market value or the net proceeds from the sale or use of the RPS Class I Renewable Generation Attributes and/or Environmental Attributes procured pursuant to the SMART Provision; and (2) net proceeds from the sale of energy generated by AOBC Generation Units greater than 60 kilowatts (“kW”) or the market value of the energy generated by AOBC Generation Units greater than 60 kW used by the Company for Basic Service. The market value of RPS Class I Renewable Generation Attributes and/or Environmental Attributes procured pursuant to the SMART Provision and used by the Company shall be determined from actual sales or purchases, and/or recent quotes from market participants.
- 2.19 NEPOOL GIS shall mean the New England Power Pool Generation Information System, which includes a generation information database and certificate system, operated by the New England Power Pool, its designee or successor entity, that accounts for Generation Attributes of electrical energy consumed and generated within, imported into, or exported from the ISO-NE Control Area.
- 2.20 On-Site Load shall mean any new or existing electric load located at the site of a STGU including any parasitic load that may result from the installation of the STGU, and that is wired to receive a portion of the electrical energy output from the STGU before the balance of such output passes through the STGU’s metered interconnection onto the electric distribution system.
- 2.21 Owner shall mean any person or entity that, alone or in conjunction with others, has legal ownership of a STGU.
- 2.22 Prior Year shall mean a 12-month period prior to the Current Year.
- 2.23 Qualifying Facility (“QF”) shall mean a Qualifying Facility, as defined by the Department in 220 CMR 8.02.
- 2.24 RPS shall mean the Massachusetts Renewable Portfolio Standard established in Mass. Gen. Laws c. 25A, § 11F.
- 2.25 RPS Class I Renewable Generation Attribute shall mean a RPS Class I Renewable Generation Attribute as defined in 225 CMR 14.02.
- 2.26 Solar Program Administrator (“SPA”) shall mean the qualified entity selected by the electric distribution companies to facilitate the SMART Program.
- 2.27 Solar Tariff Generation Unit (“STGU”) shall mean a Generation Unit, as defined in 225 CMR 14.02 and 225 CMR 20.02, that generates electricity using solar photovoltaic technology and meets all of the eligibility criteria set forth in 225 CMR 20.05 and 225 CMR 20.06 and has received a Statement of Qualification.

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- 2.28 Standalone STGU shall mean a STGU that serves no associated On-Site Load other than parasitic or station load utilized to operate the Generation Unit.
- 2.29 Statement of Qualification shall mean a document issued by the DOER that qualifies a STGU to participate in the SMART Program pursuant to 225 CMR 20.00.

3.0 Availability

Incentive Payments and, as applicable, AOBCs provided under this SMART Provision are available to the Owner or Authorized Agent of a STGU that has received a Statement of Qualification from the DOER, has met all eligibility requirements from 225 CMR 20.00, has a total installed capacity of less than or equal to five megawatts (measured in megawatts (“MW”) AC), and is interconnected to the Company’s electric distribution system. The Base Compensation Rates, which form the basis for Incentive Payments, are established by capacity blocks as shown in Appendix A. Other than STGUs selected under the one-time competitive procurement described in 225 CMR 20.07(3), no STGU shall be eligible to qualify in the Company’s first capacity block unless it has a capacity equal to or less than one megawatt or is eligible to receive a Compensation Rate Adder (special rate adders specific to certain types of STGUs). Applications will be accepted on a first-come first-served basis.

Each Standalone STGU may be metered by the Company through a single metering point. All other STGUs must be separately metered by the Company for the purpose of measuring energy generated by the STGU, with the Company’s metering installed behind the Customer’s service meter. All STGUs must be electrically separate, and separately metered per Section 5.0, below, from any other existing electricity generating unit, whether taking service under the SMART Provision or not.

Incentive Payments and, as applicable, AOBCs provided under this SMART Provision are available to the Owner or Authorized Agent of Eligible STGUs installed on distribution infrastructure served, but not owned, by the Company, provided that (1) there is a Customer associated with the distribution infrastructure served by the Company; and (2) the STGU shall also comply with the requirements in Section 5.0, below.

4.0 Other Tariff Applicability

All Customers must comply with the Company’s Standards for Interconnection of Distributed Generation tariff (“Interconnection Tariff”) and the Terms and Conditions for Distribution Service, as may be amended from time to time.

STGUs that are served on the Company’s Net Metering tariff pursuant to 220 CMR 18.00 or QF tariff pursuant to 220 CMR 8.00 will receive Incentive Payments pursuant to the SMART Provision. The terms and conditions regarding the calculation and distribution of net metering credits or payments for purchased power are governed by the provisions of the applicable tariff.

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5.0 Metering

The Company will own, install, and maintain a meter on each STGU that complies with the metering standards applicable to the size of the STGU as defined in the Company's Interconnection Tariff. Monthly readings obtained from the meter will be used to determine Incentive Payments pursuant to Section 7.0 below. The Company must be provided adequate access to read the meter(s), and to install, repair, maintain, and replace the meter(s), if applicable. During the interconnection process, the Company will assess the Owner, Authorized Agent, or their designee of a STGU a charge for the installed cost of the meter, including necessary metering equipment (e.g., instrument transformers, communication equipment). An Energy Storage System co-located with a STGU greater than 60 kW may require separate metering, and during the interconnection process, the Company will assess a charge to the Owner, Authorized Agent or their designee for the installed cost of the meter, including necessary metering equipment (e.g., instrument transformers, communication equipment), if installed.

6.0 Conditions for Participation

Owners or Authorized Agents of a STGU must demonstrate compliance with the following conditions prior to receiving Incentive Payments and AOBCs, if applicable. Incentive Payments and AOBCs will be applied on a prospective basis only after all of the following conditions have been met.

- 6.1 The Owner must obtain the Company's written authority to interconnect and operate in parallel with the Company's electric distribution system.
- 6.2 The Owner must provide final approval of a Statement of Qualification from the DOER for systems that have been constructed within the required timeline. This may be provided directly to the Company by the SPA with the permission of the Owner.
- 6.3 During the period of time in which the STGU is receiving Incentive Payments pursuant to Section 7.0, the Company shall have the irrevocable rights and title to the RPS Class I Renewable Generation Attributes and/or Environmental Attributes of all STGUs. In addition, for those units that are also AOBC Generation Units, the Company will also have irrevocable rights and title to the energy and any market products associated with the sale of energy or energy services produced by the AOBC Generation Unit.
 - 6.3.1 RPS Class I Renewable Generation Attributes in the form of Renewable Energy Certificates ("RECs") must be delivered to the Company's appropriate NEPOOL-GIS account. For STGUs greater than 60 kW, and that are not connected behind a meter measuring On Site Load, this will be accomplished through either the Company or the Owner registering the STGU with the NEPOOL-GIS and enrolling in a Forward Certificate Transfer of RECs to the appropriate Company NEPOOL-GIS account for the term of enrollment in this tariff. If the Owner is required to register the STGU and enroll in a Forward Certificate Transfer, evidence of such enrollment will be collected by the Company.
 - 6.3.2 STGUs that are 60 kW or smaller, and those that are greater than 60 kW and are

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connected behind a meter measuring On Site Load, shall provide all necessary information to, and cooperate with, the Company to enable the Company to obtain the appropriate asset identification for reporting generation to the NEPOOL-GIS for the creation of RECs and direct all RECs from the STGU to the Company's appropriate NEPOOL-GIS account. The Owner or Authorized Agent shall provide approvals or assignments, including, but not limited to, completing the Company's Renewable Energy Certificate Assignment and Aggregation Form, to facilitate the STGU's participation in asset aggregation or other model of asset registration and reporting for the period of time in which the STGU is receiving Incentive Payments pursuant to Section 7.0. This form will be collected by the SPA and provided to the Company.

- 6.3.3 Energy: Energy produced by AOBC Generation Units must be delivered to the Company in the Company's ISO-NE load zone at the delivery node associated with the STGU. As requested by the Company or ISO-NE, the Owner or Authorized Agent shall provide all necessary information as well as follow all requirements for all applicable market rules needed to set up the necessary generation asset, if the Company chooses to settle such energy.
- 6.3.4 Capacity: This tariff does not assign capacity rights of any STGU or Energy Storage System to the Company, Owner, or Authorized Agent except as consistent with the Company's QF tariff and subject to any future determination on capacity rights by the Department.
- 6.3.5 It is the responsibility of the Owner or the Authorized Agent to ensure that billing account information of the designated recipients of AOBCs and information necessary for distribution of Incentive Payments is accurately reflected on the AOBC Payment/Credit Form and provided on any forms required for taxpayer identification and reporting. AOBCs that cannot be applied to recipient accounts because of inaccurate information will remain on the STGU's account and will be carried forward to subsequent billing months subject to Section 9.0 regarding the Company's option to pay a lump sum amount. Changes to the Incentive Payment/Credit Form and/or AOBC Payment/Credit Form must be received by the Company at least 15 days prior to the next billing date of the STGU or the AOBC recipient, as applicable, to be reflected in the next billing period. Incentive Payments that cannot be paid to an Owner due to inaccurate or incomplete records will be available for 90 calendar days, after which they will be forfeited.

7.0 Calculation of Incentive Payments

Incentive Payments to STGUs will be in accordance with the formula specified in 225 CMR 20.08 and will be calculated for each monthly billing period as follows:

$$IP = (BCR + CRA - GS - VOE) * kWhgen$$

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Where

IP = Incentive Payment.

BCR = Base Compensation Rate applicable to the STGU as specified in the STGU's Statement of Qualification. The Base Compensation Rates by capacity block are provided in Appendix A.

CRA = Compensation Rate Adder applicable to the STGU as specified in the STGU's Statement of Qualification.

GS = Greenfield Subtractor applicable to the STGU as specified in the STGU's Statement of Qualification.

kWhgen = kWh generated during the billing period. For STGUs, kWhgen will be measured after the reduction for parasitic or station load.

VOE = Value of Energy, determined as set forth below

- (1) For Standalone STGUs that are net metered pursuant to the Company's Net Metering tariff, the VOE will be the applicable net metering credit.
- (2) For Standalone STGUs that are QFs or On-site Generating Facilities pursuant to 220 CMR 8.00 but are not net metered pursuant to the Company's Net Metering tariff, the VOE will be the rate applicable under the Company's QF tariff.
- (3) For STGUs that are located behind the Customer's electric service meter and have On-Site Load other than parasitic or station load, the VOE will be the sum of the current applicable distribution kWh charge, transmission kWh charge, transition kWh charge, and the average of the Basic Service kWh charge for the three calendar years immediately preceding the year in which the Statement of Qualification is issued. For purposes of this tariff, a Customer's current applicable distribution kWh charge, transmission kWh charge, and transition kWh charge will be those charges in effect applicable to the Customer during the previous calendar year. The VOE applicable to the STGU will be specified on the Statement of Qualification, as provided by the Company in Appendix A to this tariff and will not change during the period of time during which the STGU is receiving Incentive Payments pursuant to Section 7.0, unless directed to change by DOER.
- (4) For AOBC Generation Units, the VOE will be equal to the Basic Service rate applicable to the AOBC Generation Unit's rate class in effect during the billing period, as established by the Company's Basic Service tariff.

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- (5) Base Compensation Rates and, if applicable, Compensation Rate Adders, and/or Greenfield Subcontractors are determined as authorized in the Statement of Qualification, and those rates will not change during the period of time in which the STGU is receiving Incentive Payment pursuant to Section 7.0 unless as directed by the DOER, SPA or the Department. The applicable distribution, transmission and transition charges, and the three-year average of Basic Service rates will change once annually in Appendix A to this tariff.

8.0 Distribution of Incentive Payments

The Company will disburse Incentive Payments, in the form of a paper or electronic check as specified on the Incentive Payment/Credit Form or AOBC Payment/Credit Form, to the STGU's Owner or Authorized Agent. If the Incentive Payment is disbursed to an Authorized Agent, the Owner must indicate on the applicable Payment/Credit Form.

9.0 Alternative On-Bill Credits

The AOBCs shall be the VOE of the AOBC Generation Unit as specified in Section 7.0(4) above multiplied by the total kilowatt-hours (kWh) during a billing period for any Standalone STGU which elects to enroll as an AOBC Generation Unit. The AOBCs will be applied to the single billing account associated with the AOBC Generation Unit.

The Owner of the AOBC Generation Unit must complete an Incentive Payment/Credit Form and AOBC Payment/Credit Form indicating how the AOBCs are to be transferred to other Customer accounts in the Company's service area. AOBCs may be transferred across ISO-NE load zones within the Company's service territory. The Company shall not transfer AOBCs without a completed Incentive Payment/Credit Form and AOBC Payment/Credit Form. Such allocations are allowed up to two decimal places and the AOBC Payment/Credit Form will not be considered complete unless allocations correctly total 100 percent and there are no billing account number or customer name errors. At its option, the Company may increase the number of decimal places on the AOBC Payment/Credit Form once there is automation of AOBCs, if it does not place an undue burden on the Company.

At its option, the Company may pay a designated recipient, in a lump sum amount, any AOBC remaining on the AOBC Generation Unit billing account at the end of a 12-month period ending March 31, adjusted by the ratio of the average ISO-NE Locational Marginal Pricing rate that was realized by the settlement of the output of STGUs with ISO-NE over the course of the year divided by the average Basic Service rate for the 12-month period.

10.0 Term of Tariff

All STGUs with capacities larger than 25 kW AC will be eligible to receive compensation under this tariff for 20 years from the STGU's Incentive Payment Effective Date. All STGUs with capacities less than or equal to 25 kW AC will be eligible to receive compensation under this tariff for 10 years from the STGU's Incentive Payment Effective Date. This tariff will remain in effect until the costs incurred

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to administer the SMART Program have been fully recovered through the SMART Factors and termination of this tariff has been granted by the Department.

11.0 Applicability of SMART Factor

The SMART Factor, as defined herein, shall be determined in accordance with Section 13.0 below, subject to the Department’s review and approval. The SMART Factor shall be applied to all bills issued by the Company, shall be assessed to the billed kWh of all retail delivery service customers, and will be identified as “Distributed Solar Charge” on customer bills.

Prior to January 1, 2020, the SMART Factor will apply to the billed kWh of Customers with a STGU. By January 1, 2020, Customers with a STGU will be billed the SMART Factor assessed to the sum of the net kWh recorded on the STGU production meter and the net kWh recorded on the Customer’s revenue meter, or by a different date after January 1, 2019 as approved by the Department.

12.0 SMART Factor Effective Date

The SMART Factor shall be effective January 1 of each year, unless otherwise ordered by the Department.

13.0 Calculation of SMART Factor

The SMART Factor, as defined herein, shall be determined in accordance with this Section in the form of a volumetric charge that varies by rate class, subject to the Department’s review and approval. Costs that are ineligible for recovery through the SMART Factor include, but are not limited to: (1) SPA costs, and (2) overhead and burdens operations and maintenance (“O&M”) expenses, unless the Department approves such expenses. Capitalized overhead and burdens are eligible for recovery provided the associated expenses meet the requirements of the test referenced in Section 15.0. The SMART Factor recovers the annual incremental costs that the Company incurs during the applicable 12-month period associated with the SMART Program. The SMART Factor shall include estimated Incentive Payments, AOBCs, and Market Revenue. The Company will reflect actual Incentive Payments, AOBCs, and Market Revenue, along with actual incremental administrative costs, in determining the amount it has under or over-recovered through the applicable year’s SMART Factor.

The SMART Factor shall be calculated as follows:

$$SF_{xs} = (IP_x + ABC_x - MR_x + ADM_{x-1} + RA_{x-1}) * DRAs \div FkWh_{xs}$$

Where

x = The Current Year.

s = A separate value for the following rate classes: **[list each company’s rate classes]**

SF_{xs} = The SMART Factor for the Current Year for each rate class.

IP_x = Estimated Incentive Payments issued in the Current Year.

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- ABCx = Estimated Alternative On-Bill Credits issued in the Current Year.
- MRx = Estimated Market Revenue associated with IPs and ABCs in the Current Year.
- ADMx-1 = The incremental capital and O&M administrative cost the Company incurred in the Prior Year necessary to meet SMART Program objectives, including, but not limited to, billing system improvements, and additional personnel required for ongoing operations. Incremental administrative costs include the revenue requirement associated with cumulative capital improvements placed in service up through the Prior Year.
- RA = The Reconciliation Amount is the sum of (a) the difference between (1) the actual IP, ABC, and MR incurred in the Prior Year plus incremental administrative costs approved for recovery in prior years; and (2) the amount of SF revenue billed by the Company during the Prior Year. Interest shall be applied to the reconciling balance at the Prime Rate as reported by the Wall Street Journal.
- DRA = The Distribution Revenue Allocator percentage for each rate class.
- FkWhxs = Forecasted kWh for each rate class for the Current Year.

The Distribution Revenue Allocator shall be derived from the Company's most recent general rate case as approved by the Department and shall be as follows by rate class:

Rate []	xx.x%
Rate []	xx.x%
Rate []	xx.x%
Rate []	xx.x%
Rate []	xx.x%
Streetlighting	x.x%

Interim SMART Factor Adjustments

If at any time during the year, the annual SMART Program costs are ten percent above or below the costs the Company is recovering through its SMART Factor, the Company may petition the Department for an interim adjustment prior to its next scheduled SMART Factor filing.

14.0 Determination of Incremental Administrative Cost

To be eligible for inclusion as an incremental administrative cost recoverable through the SMART factor, the Company shall demonstrate that all O&M expenses incurred in the performance of SMART Program activities and proposed for recovery through the SMART factor are:

- (1) incremental to the representative level of O&M expenses recovered through all other rates billed by the Company to its customers; and

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- (2) directly related to SMART Program activities.

The Company shall apply these thresholds to all O&M expenses for which it seeks recovery for Department review in annual SMART Factor filings.

15.0 Overhead and Burden Adjustments

The Company will perform an overhead and burdens test to demonstrate that actual overhead and burdens costs charged to SMART Program capital projects are incremental to amounts recovered in base distribution rates and other reconciling mechanisms. This test shall compare the actual O&M overhead and burdens and the amount included in base distribution rates in each year. If the actual O&M overhead and burdens exceed the amount included in base distribution rates, capitalized overheads and burdens recovered through a reconciling rate shall be reduced by the amount of the excess. The Company shall determine whether such reduction is required for all reconciling mechanisms that require such a determination once each year, and the determination shall be included in the Company's annual Grid Modernization Plan cost recovery filing pursuant to the Company's Grid Modernization Recovery [Provision], M.D.P.U. No. ####, as may be amended from time to time. In addition, the percentage of capitalized overhead and burdens assigned to SMART Program capital projects shall be set equal to the ratio of SMART Program costs to total direct costs in any given year.

16.0 Filing of SMART Factors for Department Approval

Changes to the SMART Factors shall be filed with the Department at least 60 days prior to January 1. Such filing shall include the reconciliation of the amount recoverable through prior SMART Factors, as appropriate, and include supporting calculations for estimated Incentive Payments and describe any cost variances as defined in the Company's project authorization policies.

17.0 Additional Terms and Conditions of Service

- 17.1 Cooperation and Qualification of STGUs for Other Programs, Incentives, and Markets. Consistent with Section 6.3, if requested by the Company, the Owner or Authorized Agent of an enrolled STGU shall take all commercially reasonable means necessary, and pay any costs or fees associated with such actions, to cooperate with the Company to qualify a STGU for other available federal, state, regional, local, and voluntary programs, incentives, and/or markets that would increase the value or marketability of the STGU's products and attributes including but not limited to registering the STGU with other states in order to qualify for such states' RPS or similar program(s). Such Owner or Authorized Agent shall comply with all rules of such programs, incentives, and markets including, without limitation, rules that relate to the creation, tracking, recording, and transfer of all Environmental Attributes that are to be transferred under this tariff.
- 17.2 Non-Compliance. The Owner or Authorized Agent of a STGU shall comply with the provisions of this tariff through the end of the period during which the STGU is eligible

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to receive Incentive Payments pursuant to Section 7.0. Only the STGU described on the Statement of Qualification is eligible to participate under this tariff. In no event shall a STGU's nameplate capacity exceed what is allowed by the Statement of Qualification. If a STGU exceeds the nameplate capacity allowed by the Statement of Qualification, or the Company determines that an Owner or Authorized Agent has violated the terms and conditions of this tariff, the Company will report the non-compliance immediately to the DOER, and the DOER shall issue a notice of non-compliance to the Owner or Authorized Agent and to the Company. Upon receipt of a notice of non-compliance from the DOER, the Company may suspend payment of Incentive Payments and AOBCs, if applicable, and/or take other action as required the DOER until such time as the non-compliance has been remedied.

Neither the Company nor the Owner or Authorized Agent shall be deemed in non-compliance for failure or delay in the performance of any obligation under the tariff if and to the extent that such delay or failure is due to a Force Majeure Event. A Force Majeure Event shall mean any cause beyond the reasonable control of, and not due to the fault or negligence of, the Company or the Owner or Authorized Agent and which could not have been avoided by exercising commercially reasonable efforts ,including, as applicable, acts of war or terrorism, public disorder, insurrection or rebellion, embargo or national emergency; curtailment of electric distribution services; flood, hurricane, windstorm, tornado, earthquake, or other acts of God; explosion or fire; strikes, lockouts, or other labor disturbances (whether among employees of the Company or the Owner or Authorized Agent, its suppliers, contractors, or others); delays, failure, and/or refusal of suppliers to supply materials or services; orders, acts or omissions of the NEPOOL GIS Administrator, as applicable; embargoes; sabotage; or any other cause of like or different kind, beyond the reasonable control of the Company or the Owner or Authorized Agent. Notwithstanding the foregoing, a Force Majeure Event shall not be based on Owner's ability to sell market products at a price greater than the rates applicable to the STGU or the Company's ability to purchase market products at prices below the applicable rates.

The party claiming Force Majeure shall notify the other party and the DOER of the occurrence thereof as soon as possible and shall use reasonable efforts to resume performance immediately. In no event shall a claim of Force Majeure or a Force Majeure Event operate to extend the STGU's eligibility to receive Incentive Payments pursuant to Section 7.0.

- 17.3 Termination Provisions. The DOER has the authority to suspend or revoke Statements of Qualification. If the Owner or Authorized Agent or the Company receives confirmation from the DOER that the Owner's Statement of Qualification has been suspended or revoked, or if the Owner or Authorized Agent has failed to satisfy the Owner's obligations under this tariff, the Company may elect to terminate its obligations under this tariff. Neither the Owner or Authorized agent nor the Company may terminate their obligations under this tariff with less than 30 days' notice to the other party.

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- 17.4 Governing Law. This tariff is governed by the provisions of 225 CMR 20.00 and Chapter 164 of the General Laws.
- 17.5 Dispute Resolution. Disputes shall generally be resolved in accordance with D.P.U. 17-140-A at 202-204. Neither the Company nor the Department shall be responsible for resolving disputes between the Owner of an AOBC Generation Unit and those Customers to whom the Owner is transferring AOBCs.

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APPENDIX A

I. Base Compensation Rates

Generation Unit Capacity	Base Compensation Rate Factor	Term Length	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8
Low Income ≤ 25 kW AC	230%	10-year								
≤ 25 kW AC	200%	10-year								
> 25 kW, ≤ 250 kW AC	150%	20-year								
> 250 kW, ≤ 500 kW AC	125%	20-year								
> 500 kW, ≤ 1,000 kW AC	110%	20-year								
> 1,000 kW, ≤ 5,000 kW AC	100%	20-year								
> 1,000 kW, ≤ 5,000 kW*		20-year								

*For Solar Tariff Generation Units selected under the one-time competitive procurement.

Notes:

Each Capacity Block shall have a minimum of 20% and a maximum of 35% of its total available capacity reserved for Solar Tariff Generation Units with nameplate capacities less than or equal to 25 kW.

Solar Tariff Generation Units that receive a capacity allocation in more than one Capacity Block will receive a blended Compensation Rate that reflects the rates applicable to both Capacity Blocks.

[INSERT COMPANY NAME]

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II. Compensation Rate Adders

Please refer to 225 CMR 20.07(4) for currently effective Compensation Rate Adders, and to DOER's Guideline on Energy Storage at <https://www.mass.gov/info-details/solar-massachusetts-renewable-target-smart-program#smart-program-guidelines> that provides an Energy Storage Adder calculator.

III. Sum of Applicable Distribution, Transmission, Transition, and Three Year Average of Basic Service Rates

Rate Class	Applicable Three-Year Average by Commercial Operation Year (¢/kWh)	
	2018	2019
Rate []	tbd	tbd
Rate []	tbd	tbd
Rate []	tbd	tbd
Rate []	tbd	tbd

IV. Basic Service Rates

[INSERT ADDRESS TO COMPANY'S EXTERNAL WEBSITE FOR SUMMARY OF RATES]