



MASSACHUSETTES SOLAR QUICK REFERENCE: NGRID (Mass Electric)

Updated: 11/26/18

Choose 1 or 2 or 3

Behind The Meter (BTM)

Behind The Meter (BTM)		SMART						1. Net Metering		2. Alt. On Bill Credit	3. Qualifying Facility / Onsite Gen. Facility (P-Rate) [L1]
STGU AC Capacity (not greater than) [A1]	Grid Interconnection [B1]	SMART Land Use Performance Standards for Ground Mounted Systems /Greenfield Subractor? [C1]	SQA Docs	Base Compensation Rate /Term (Block 1) [E1]	Adders Available (Tranche 1) [F1]	CSS	SMART Calculation	Availability/ Market Net Metering	MMRC [J1]		
<=10 kW	Simplified: <= 15 kW (1-phase or) <= 25 kW (3-phase) [B2]	No	1.Contract 2.PPA /Lease 3.LI Evid. 4.CDF[D1]	\$0.31126/ LI: \$0.35795 (10 Years)	ENERGY STORAGE	Not Applicable	STATIC Incentive Payment [H1]	Exempt: Cap & Marketing Net Metering [I1]	N/A	Not Applicable	Bi-directional meter: "net" over billing period / Avg. monthly clearing price at ISO-NE [L2]
<=25 kW								3-phase (only) Exempt: Cap & Marketing Net Metering [I1]			
>25 to 250 kW	Expedited / Standard Process	No	1.ISA 2.Site Control 3.Non-ministerial permits [D2]	\$0.233345 (20 Years)	1. LOCATION BASED <ul style="list-style-type: none"> Agricultural (\$0.06) Building Mounted (\$0.02) Brownfield (\$0.03) Canopy (\$0.06) Floating Solar (\$0.03) Landfill (\$0.04) 	Not Applicable	STATIC Incentive Payment [H1]	Capacity Under Cap Public: <u>0.1 MW</u> . 14 MW Waiting List Private: <u>None</u> ; 9.3 MW Waiting list [I2]	N/A	Not Applicable	Dual register interval meter / Avg. monthly clearing price at ISO-NE
>250 to 500 kW				\$0.19454 (20 Years)				2.OFFTAKER BASED <ul style="list-style-type: none"> CSS (\$0.05) [F2] Low Income Property (\$0.03) Low Income CSS (\$0.06)[F2] Public Entity (\$0.02) 			
>500 to 1,000 kW	Pre-application required (500 kW or greater) ISO-New England approval required for 1 MW or greater	1.Perform. Standards Apply 2.Exemption to Subtractor Include: Brownfields, Landfills, developed land, etc..	1.ISA 2.Site Control 3.Non-ministerial permits [D2]	\$0.17119 (20 Years)	3.ENERGY STORAGE 4.TRACKING (\$0.01)	Not Applicable	STATIC Incentive Payment [H1]	Private Cap [I3] <ul style="list-style-type: none"> Market Net Metering Applies (60% of full value) Distribution rate not included after 1,000 kW 2,000 kW – max facility 	N/A	Not Applicable	Dual register interval meter / hourly ISO-NE price
>1,000 to 2,000 kW [A2]				\$0.15563 (20 Years)							
>2,000 to 5,000 kW [A3]											
A	B	C	D	E	F	G	H	I	J	K	L

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Front of The Meter (FTM)

Front of The Meter (FTM)		SMART						1. Net Metering		2. Alt. On Bill Credit [Q1]	3. Qualifying Facility / Onsite Gen. Facility (P-Rate) [R1]
STGU AC Capacity [A1]	Grid Interconnection [B1]	SMART Land Use Performance Standards for Ground Mounted Systems /Greenfield Subractor? [C1]	SMQ Docs	Base Compensation Rate / Term (Block 1) [E1]	Adders Available (Tranche 1) [F1]	CSS [M1]	SMART Calculation	Availability/ Market Net Metering	MMRC [P1]		
<=10 kW	Simplified: <= 15 kW (1-phase or) <= 25 kW (3-phase) [B2]	No	1.Contract 2.PPA /Lease 3.LI Evid. 4.CDF[D1]	\$0.31126/ LI: \$0.35795 (10 Years)	<i>ENERGY STORAGE [F3]</i>	Smaller than 100 kW-AC exempt from 50% cap	DYNAMIC Incentive Payment [N1]	Exempt: Cap & Marketing Net Metering [O1]	N/A	No cap on the amount of credits an Offtaker can receive. Credits can transfer across an ISO-NE load zone within NGRID territory.	Bi-directional meter: "net" over billing period / Avg. monthly clearing price at ISO-NE [R2]
<=25 kW				3-phase (only) Exempt: Cap & Marketing Net Metering [O1]							
>25 to 250 kW	Expedited / Standard Process		\$0.23345 (20 Years)	1.LOCATION BASED • Agricultural (\$0.06) • Building Mounted (\$0.02) • Brownfield (\$0.03) • Canopy (\$0.06) • Floating Solar (\$0.03) • Landfill (\$0.04)	Requires at least 3 customers , and no more than 2 with more than 25 kW-AC, and more than 50% of total capacity.	Private Cap [I3] • Market Net Metering Applies (60% of full value) • Distribution rate not included after 1,000 kW • 2,000 kW – max facility		N/A	Capacity Under Cap Public: <u>0.1 MW</u> . 14 MW Waiting List Private: <u>None</u> : 9.3 MW Waiting list [I2]		Dual register interval meter / Avg. monthly clearing price at ISO-NE
>250 to 500 kW									\$0.19454 (20 Years)		
>500 to 1,000 kW			Pre-application required (500 kW or greater) ISO-New England approval required for 1 MW or greater	1.ISA 2.Site Control 3.Non-ministerial permits	\$0.17119 (20 Years)	3. <i>ENERGY STORAGE [F3]</i> 4.TRACKING (\$0.01)		Dual register interval meter / hourly ISO-NE price			
>1,000 to 2,000 kW [A3]					\$0.15563 (20 Years)						
>2,000 to 5,000 kW [A4]											
A	B	C	D	E	F	M	N	O	P	Q	R



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STATUS AND FEES

BLOCK STATUS (source: www.masmartsolar.com)

SMALL (<=25kW)		
Block 1		
Size (MW)	Allocated & Pending (MW)	Available (MW)
18.004	0	18.004

LARGE (>25kW)		
Block 1		
Size (MW)	Allocated & Pending (MW)	Available (MW)
72.018	43.537	28.481

ADDER STATUS (source: www.masmartsolar.com)

	LOCATION BASED (MW)						OFFTAKER BASED (MW)				ENERGY STORAGE (MW)	TRACKING (MW)
	Agricultural	Building Mounted	Brownfield	Canopy	Floating Solar	Landfill	CSS	LI Property	LI CSS	Public Entity		
Size (MW)	80	80	80	80	80	80	80	80	80	80	80	80
Allocated & Pending (MW)	0	0	0	0	0	0	0	0	0	0	0	0
Available (MW)	80	80	80	80	80	80	80	80	80	80	80	80

METERING

	Cost	Data Out?
STGU <= 60 kW	\$100 (approx..)	NO
STGU > 60 kW	\$500 (approx..)	YES

SMART APPLICATION FEES (as proposed: 11/14/18, EDC Informational Filing, D.P.U. 17-140)

STGU (kW)	<=25	25– 250	250 – 1,000	1,000 –5,000	App. Change Fee	6-Month Extension
Fee	\$130	\$180	\$1,675	\$3,250	\$70	\$25/kW (refundable)

CAPACITY RIGHTS

- Capacity rights are not assigned, pending ruling on D.P.U. 17-146.



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NOTES

[A1] Nameplate inverter capacity (kW-AC)

[A2] Public Utility Regulatory Policies Act of 1978 Requirements. A Solar Tariff Generation Unit with a maximum net power production capacity of greater than one MW shall obtain federal qualifying facility status from the Federal Energy Regulatory Commission pursuant to 18 C.F.R. § 292.207(a) and (b). A Solar Tariff Generation Unit with a maximum net power production capacity of less than or equal to one MW shall attest to its status as a federal qualifying facility in the Statement of Qualification application." 225 CMR 20.00." [225 CMR 20.00, 20.05: Tariff Based Incentive Program for Solar Photovoltaic Generation Units, (5)(c)]

[A3] Maximum capacity under SMART: "The aggregate maximum capacity of Solar Tariff Generation Units located on a single parcel of land shall be five MW and shall not be inclusive of any solar photovoltaic generating capacity that is not qualified under 225 CMR 20.00." [225 CMR 20.00, 20.05: Tariff Based Incentive Program for Solar Photovoltaic Generation Units (5)(a)]

[B1] Massachusetts Electric Company, M.D.P.U. No. 1320, STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

[B2] For "Network" interconnections the Simplified process can be followed if: Listed inverter-based system less than 1/15th of customer's minimum load and fed from a spot network, or A Listed inverter-based system that is 15 kW or less and less than 1/15th of the customer's minimum load and fed from an area network

[C1] [225 CMR 20.00, 20.05 (5)(e) Land Use and Siting Criteria]

- Performance Standard applies to all ground mounted greater than 500 kW.
- Category 1 & Category 1 Non-Agricultural (No Subcontractors) includes: less than or equal to 500kW, building mounted, brownfields, landfills, previously developed land, explicit local zoning Agricultural STGU.
- Category 2: zoned for C&I and not previously developed land

[D1] [225 CMR 20.00, 20.05 20.06 (1)(b) Required Documentation for Solar Tariff Generation Units with Rated Capacities of 25 kW or Less: (1) Executed Contract, (2) Special Provisions for Third-Party Ownership, (3) Special Provisions for Low Income Generation Units, (4) Customer Disclosure Form.

[D2] [225 CMR 20.00, 20.05 20.06 (1)(c) Required Documentation for Solar Tariff Generation Units with Rated Capacities Larger than 25 kW: 1. an executed Interconnection Service Agreement; 2. demonstrate a sufficient interest in real estate or other contractual right to construct the Solar Tariff Generation Unit at the location specified in the ISA; 3. all necessary governmental permits and approvals with the exception of ministerial permits, such as a building permit, and notwithstanding any pending legal challenge(s) to one or more permits or approvals.

[E1] DOER, Solar Massachusetts Renewable Target (SMART) Program - 225 CMR 20.00, Guideline on Capacity Blocks, Base Compensation Rates, and Compensation Rate Adders, Effective Date: January 11, 2018

[F1] [225 CMR 20.07 (4)(e)] A STGU with a capacity of 25 kW AC or less may only combine its Base Compensation Rate with the Energy Storage Adder; A STGU with a capacity larger than 25 kW AC can combine its Base Compensation Rate with no more than one Compensation Rate Adder from each of the four categories and no combination of a Base Compensation Rate and Compensation Rate Adders can exceed the Base Compensation Rate for Low Income STGU.

[F2], [F3] These adders are unlikely to apply for the BTM or FTM configuration.

[H1] STATIC Incentive Payment [SMART Provision 7.0(3) (DPU Docket 17-140)]

Incentive = (Base + Adders – Subcontractors – VOE) * kWhgen

- VOE = Sum(Distribution, Transmission, Transition, Basic Service)
- for Distribution, Transmission and Transition: use prior calendar year
- for Basic Service: use average of prior 3 calendar years
- the VOE "...will not change during the term of the tariff, unless directed to change by DOER."

[I1] Net Metering Facilities with capacities equal or less than 10 kW (AC) for single phase interconnections and 25 kW (AC) are exempt from net metering caps. See: www.mass.gov/guides/net-metering-guide

[I2] See the System of Assurance for updates on available net metering capacity www.massaca.org

[I3]; [J1] See: www.mass.gov/guides/net-metering-guide

[L1] Qualifying Facility: Qualifying facilities and on-site generating facilities - Information on qualifying facilities and how they differ from net metering facilities. www.mass.gov/service-details/qualifying-facilities-and-on-site-generating-facilities

[L2] 60 kW is the maximum capacity of a Class 1 Net Metering Facility or Qualification as an Onsite Generating Facility (220 C.M.R. 8.00)

[M1] 225 CMR 20.00, 20.05 (5)(e)

[N1] DYNAMIC Incentive Payment [SMART Provision 7.0(1)-(4) (DPU Docket 17-140)]

Incentive = (Base + Adders – Subcontractors – VOE) * kWhgen

- for Net Metering: VOE = applicable net metering credit
- for QF/OSGF: VOE = applicable QF rate
- for AOBC: VOE = Basic Service rate

[O1]; [O2];[O3] See [I1] to [I3]

[P1] See [J1]

[Q1] Section 9.0, Alternative On Bill Credits, Joint Petition for Approval of Model SMART Tariff, SMART PROVISION; also, DPU 17-140C, ORDER ON ELECTRIC DISTRIBUTION COMPANIES' MOTION FOR CLARIFICATION AND NATIONAL GRID'S MOTION FOR CLARIFICATION, November 23, 2018

[R1], [R2], See [L1], [L2]