DER Compensation

Tom Su, District Director - DER

Central Hudson New Business



Value Stack

- Demand customers, Community Distributed Generation, and Remote Net Metering projects which have made payment for 25% of interconnection costs, or executed their Standard Interconnection Contract if no such payment is required after July 17th, 2017.
- Requires hourly meter \$30 monthly metering fee.



Value Stack

- Energy day ahead NYISO hourly zonal LBMP for Zone G
- Capacity (ICAP)
- Environmental higher of Tier 1 REC price or Social Cost of Carbon
- Demand Reduction Value (DRV) Based on hourly output in the ten peak CH hours in the previous calendar year.
- Market Transition Credit (MTC) residential and non-demand commercial customers participating in CDG.
- LSRV



Remote Net Metering

- Allows renewable energy system owners with excess net metering credits to offset other electric metered accounts.
- Host account must be non-residential or residential with farm operations.
- All accounts must be held by the same customer, on property owned or leased by the customer.
- Must submit Remote Net Metering Application
- Satellite accounts may be added or removed once per year, from January 1 – January 31.
- Credited via the Value Stack.



Remote Net Metering

Accounts added to summary billing.

Electric	Mete	r#	RATE E230	GENERA	AL SERVICE	
	Electri	ic Service Charg	es 0 kWh at a	cost of §	45.11	
		Average Daily C	ost for Elect:	ric \$1.150	57	
	Amount	of Electricity	Used			
		NET MTR INDEX R	ESET		kWh	KW
Jan 29,20	019	Present Reading	(act.)	995	5214	0.13
Dec 21,20	018	Previous Readin	g(act.)	995	5214	0.13
		Multiplier		1400.	.000	1400.000
		Electricity Use	d		0	0.0
	Cost fo	or Electricity U	sed (for 1.	3 months)		
		ENERGY DELIVERY	CHARGES:			
		Basic Servic	e Charge 1	.3 Mos @	32.00	41.60
		NYS & Local Tax	es and Surcha	rges		0.12
		Sales Tax		0	8.125%	3.39
		TOTAL ELECTRICI	TY COST			\$45.11
		PREVIOUS GENERA	ATION BALANCE		0 KMH	
		CURRENT GENERA			200800 KWH	
	(GENERATION APP	LIED		(200800) KWH)
		GENERATION BAL	ANCE		0 KWH	



Remote Net Metering

BILLING DETAIL

This is a summary bill to February 7,2019 for the accounts listed below.

ACCOUNT NO	SERVICE ADDRESS	AMOUNT DUE
5 33-5 5 -0	IN SCOLED - ELECTRON FOR CHARGE AN	
5 (E C. K D)	THE MELERSON SCHOOL NEEDER AND SCHOOL MERINES ST	
5 (E C. E D.		3 .
1; (1_1-0=8;-+0 0	GENERATION CREDIT	-9,967.99
5 11-0286-00		-1 - 1.
S 1 H 039(-10	2.3 MILIERO(X 503001 12) - 533 MILI #P1 847003	155.



- Allows members of a community to share the benefits of renewable energy even if they cannot or prefer not to install solar panels on their property.
- CDG Host must be non-residential.
- Must have a minimum of 10 CDG Satellite accounts.
- Satellite accounts with demands of 25 kW or greater, in aggregate cannot receive no more than 40 percent of the system output.
- Host must be registered with Department of Public Service.
- Host must submit a completed Self-Certification Form.



Tranches

- Tranche 0/1 Phase One NEM / 100% Base Retail Rate
- Tranche 2 95% Base Retail Rate
- Tranche 3 90% Base Retail Rate
- Tranche 4 85% Base Retail Rate



			9	Summary of Subscriber	Credit				
						Monthly Bank			
Account No	Allocation %	SC	Value Stack Credit	Actual Billed Dollars	Actual Billed kWh	Contribution	Bank Withdraw	Bank Balance	
	0.550%	SC2	154.96	94.39	634	60.57	-	134.11	
	1.500%	SC2	221.60	119.90	76	101.70	-	223.92	
	11.116%	SC2	2,380.82	2,631.01	26,320	-	-	-	
	4.750%	SC2	701.72	836.03	7,440			<u> </u>	
	0.021%	SC2	3.10	34.98	30		-		

Generation For:		November	Applied For:	D	ecember
		Host Value Stac	k Statement		
Energy	\$	8,561.93	SC1 MTC	\$	6,326.53
Capacity	\$	4,756.12	SC2 MTC	\$	2,228.92
Environmental	\$		DRV	\$	87.88
			LSRV	\$	
1 1 1 1 1 1 1 1			Total	\$	23,768.91
			kWh-Export		246,115





POUGHKEEPSIE NY 12601-4839

www.CentralHudson.com

Account Number:

Service For:

Page 1 of 2

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Questions About Your Bill? See the reverse side for explanations. For further help call a Customer Service Representative at 845-452-2700 or 1-800-527-2714. Our phone lines are busiest Monday and Tuesday mornings. We can better respond to your call if you avoid these times.

Your Bill	Summary	At	А	Glance	
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Previous Billed Amount			\$17.41	
Payments Since Last Bill -	THANK YOU	!	\$-17.41	
Current Electric Charges			\$196.10	
Billing Adjustments			\$-155.06	
Total Amount Due Now			\$41.04	
Current Billing Period	Ja	n 04,2019	- Feb 06,2019	
Late Charges Added After			Mar 08,2019	
Next Scheduled Reading Date			Apr 04,2019	
	Thi	s Year	Last Year	
Heating Degree Days	12	17	1243	

GENERATIO	N CREDIT TRACKING	
Account -		
Previous Generation Balance	-	
Generation Credit Available For:	157.40	
Generation Credit Applied For:	Jan-19	(155.06)
Generation Credit Remaining		2.34

Payments and Adjustments

PAYMENT	RECEIVED	BY	US	MAIL		JAN	28	\$-17.41	
COMMUNTY	DISTRIB	GEI	IER/	ATION	CREDIT	FEB	11	\$-155.06	

What's New ...

EMERGENCY HEAP IS OPEN! IF YOU RECEIVE A HEAP GRANT YOU ARE ELIGIBLE FOR A BILL CREDIT TO BE APPLIED TO YOUR CENTRAL HUDSON BILL FOR 12 MONTHS. YOU ARE ELIGIBLE EVEN IF YOU HEAT WITH OIL, WOOD, PROPANE, PELLETS OR COAL.SEND US YOUR "NOTICE OF DECISION LETTER" FROM HEAP. GO TO CENHUD.COM/BILLDISCOUNT



Value Stack Calculation

- Net Generation 50 kW system produces 10 kWh for 3 pm hour on November 2, 2018
 - LBMP 11/2/2018 15:00 \$32.62 per MW = \$0.03262 per kWh
 - Environmental Credit \$0.02741 per kWh
 - ICAP Alt 1 \$0.01961 per kWh
 - Tranche 1 MTC for SC 1 \$0.0599 per kWh
 - DRV \$0.50 per kW month
 - CDG SC1 subscriber \$0.13954 per kWh * 10 kWh = \$1.39 credit



Energy Storage Solutions

- Hybrid Energy Storage Systems
 - A. Charged exclusively from a renewable generator and not from utility
 - B. Storage used only to serve on-site load and not to inject energy
 - C. Storage may be charge from both renewable generator or utility
 - D. Hybrid facilities that are separately sited

Will receive environmental component for any injections charged by renewables.

- Stand-alone storage
 - Capacity alternative 3

