

VDER Compensation

Tom Su, District Director DER

Central Hudson, Estimating

Phase One NEM

- Introduced in March 9, 2017 Order on Net Energy Metering Transition, Phase One of Value of Distributed Energy Resources, and Related Matters.
- Case 15-E-0751 and Case 15-E-0082
- Demand billed, CDG, and RNM projects which paid 25% of interconnection costs or executed a Standard Interconnection Contract if no such payment is required within 90 days of Order.
- Mass market interconnected prior to January 1, 2020.

Phase One NEM

- Demand billed customers with on-site projects with a rated capacity of 750 kW or lower.
 - Annual output may not exceed 110% of customer's onsite usage.
- Extended to January 1, 2021.
 - Customers interconnected after January 1, 2020 will follow new tariff.

NEM

- Residential customers with receive payment for excess generation on the anniversary date at the applicable rate under Service Classification No. 10.

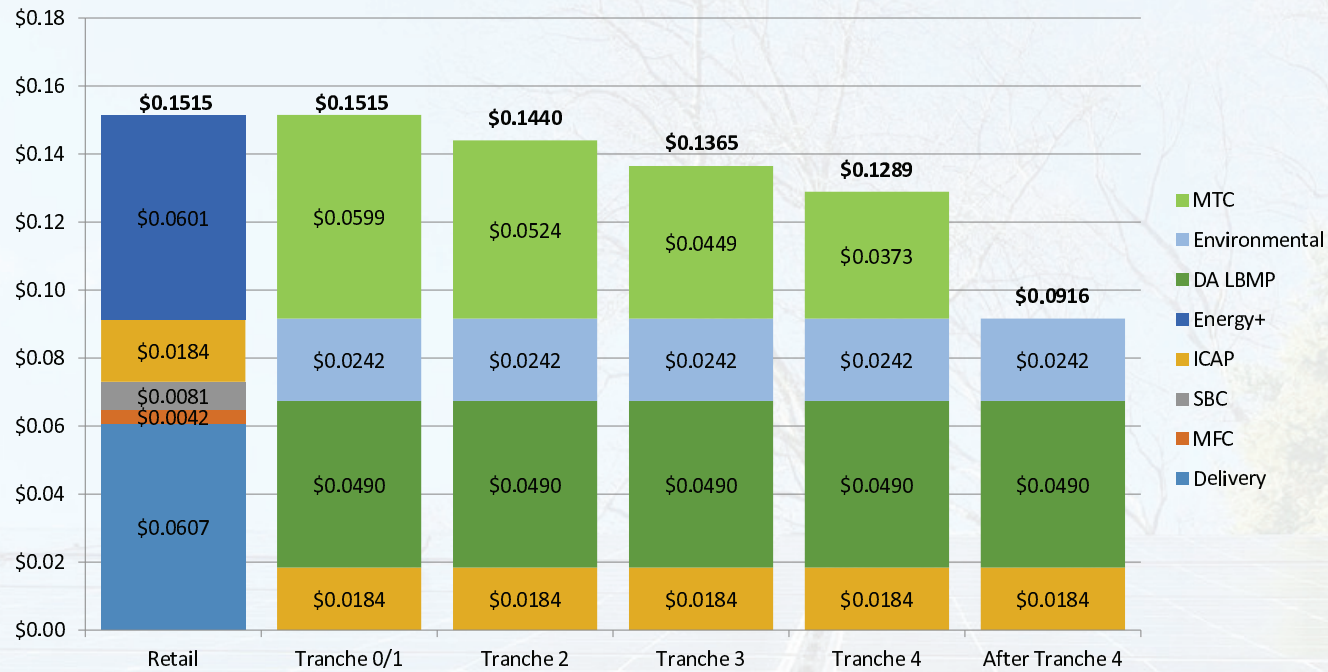
Phase One NEM

- Compensation term length of 20 years.
- Excess credits carried over to subsequent billing periods.

Value Stack

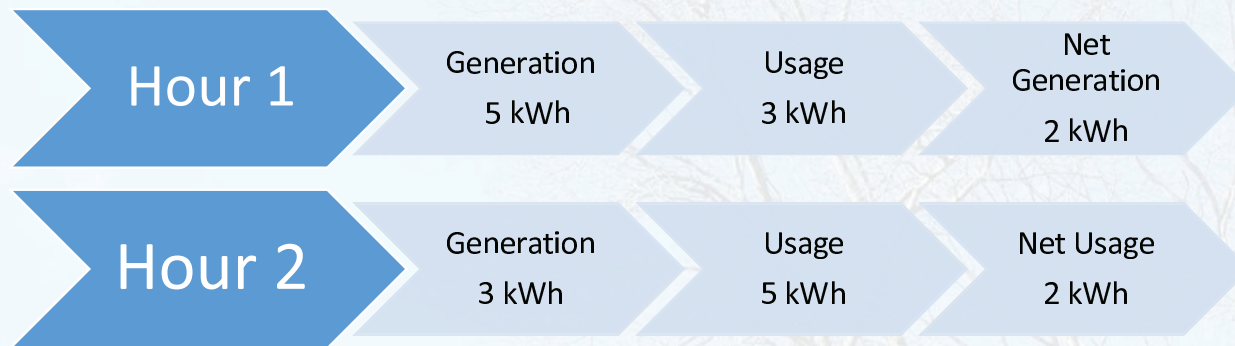
- **Energy Value**
 - Day Ahead hourly zonal locational based marginal price (LBMP)
- **Capacity Value**
 - Alternative 1-3
- **Environmental Value**
 - The higher of the latest CES Tier 1 Renewable Energy Certificate procurement price published by NYSERDA or the Social Cost of Carbon
- **Demand Reduction Value (DRV) and Locational System Relieve Value (LSRV)**
- **MTC**
 - available to CDG projects within tranches and is equal to the difference between the “Base Retail Rate” and “Estimated Value Stack”
 - Tranche 0 - Phase One NEM / Tranche 1 – Value Stack plus MTC equal to 100% Base Retail Rate
 - Tranche 2 – Value Stack plus MTC equal to 95% Base Retail Rate
 - Tranche 3 – Value Stack plus MTC equal to 90% Base Retail Rate
 - Tranche 4 – Value Stack plus MTC equal to 85% Base Retail Rate
 - After Tranche 4 – Value Stack

Value Stack



Value Stack

- Nets generation and consumption on an hourly basis.



- Hour 1 and 2 do not net out to 0 kWh
- Hour 1 – credit of 2 kWh at Value Stack rate
- Hour 2 – billed for 2 kWh at retail rate

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.
- Remote Net Metering Application
- Satellite accounts may be added or removed once per year, from January 1 – January 31.

Community Distributed Generation

- Enables those who cannot put solar panels on their properties to receive a subscription of the solar production from off site panels as a credit on their monthly utility bill.
- CDG Host must be non-residential.
- CDG Host and CDG Satellite accounts must be within Central Hudson's service territory.
- Must have a minimum of 10 CDG Satellite accounts.
- Satellite accounts with demands of 25kW or greater, in aggregate receive no more than 40 percent of the system output.
- Submit a completed CDG Allocation Request Form.
- Submit a completed Self-Certification Form.
- Register with DPS as a CDG Provider

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- Include host account number
- Signed by authorized individual
- One allocation per billing period
- 5 days to correct errors

SECTION I - Host Information			
CDG Host Account Number:	XXXX-XXXX-XX	Account Name:	Customer Host
Service Address:	Name Company Address City, State ZIP Code	Mailing Address:	Name Company Address City, State ZIP Code
Customer Contact:	First and Last Name e-mail address	Phone:	999-999-9999
e-mail address: emailaddress@unknown.com			
SECTION II - Member Allocation Information			
Check One	Initial Allocation Request: must be submitted at least 60 days prior to the CDG Host Account commencing service under the CDG Program.		
	Subsequent Allocation Request: must be submitted no less than 30 days before the CDG Host Account's cycle billing date to which the modifications apply.		
	Annual Request for Allocation of Excess Credits: must be submitted no less than 30 days before the 12-month anniversary of commencing CDG net metered service and is effective for a one-time allocation only. The most recent Initial Allocation Request or Subsequent Allocation Request , as applicable, will continue to apply to all on-going allocations.		
	Central Hudson Account Number (10 digits)	Central Hudson Account Name	Distribution Percentage (must total 100.000%)
1	XXXX-XXXX-XX		XX.XXX
2			
3			
4			
5			
6			
7			
8			
9			
10			
			0.000%
Additional lines can be added, as needed, to extend the above list to capture additional Satellite Accounts.			
SECTION III - Accepted and Agreed			
Service to be supplied to the CDG Host will be supplied and conditioned on the CDG Host's ongoing compliance with the terms, conditions and procedures set forth in both the Tariff and the Company's Specifications and Requirements for Electric Installations ("Blue Book") as both may be amended from time to time.			
CDG Host:			
Name:		Title:	
Signature:		Date:	
SECTION IV - Submission			
Completed allocation request forms can be submitted via secure FTP file transfer.			

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Electricity Used (kWh)		424
Cost for Electricity Used (for 1.0 months)		
ENERGY DELIVERY CHARGES:		
Basic Service Charge	1.0 Mos @	20.00
Delivery Svc Chg	424 kWh @	0.08349
MFC Admin Chg	424 kWh @	0.00183
Transition Adj	424 kWh @	0.00018
Bill Credit	424 kWh @	-0.00307
SBC/RPS Chgs	424 kWh @	0.00801
Misc. Charges	424 kWh @	0.00347
RDM Chg	424 kWh @	-0.00294
Total Delivery Chrgs		57.73
ENERGY SUPPLY CHARGES:		
(You may choose another supplier for this part of your service)		
MFC Supply Chg	424 kWh @	0.00330
Market Price	424 kWh @	0.05894
Market Price Adj	424 kWh @	0.00216
Total Supply Chrgs		26.46
NYS & Local Taxes		1.42
TOTAL ELECTRICITY COST		\$85.61
For this billing period, the average cost of energy we purchased for you was \$0.06240 per kWh (excluding taxes). You can use this number to compare our price to other suppliers' prices.		
Payments and Adjustments		
COMMUNITY DISTRIB GENERATION CREDIT	AUG 2	\$-52.36
PAYMENT RECEIVED BY US MAIL	AUG 5	\$-15.16

People. Power. Possibilities.
Central Hudson
A FORTIS COMPANY
Account Number:
 Meter #
 RATE E-100 NON HEATING
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Billing Detail

Electric Usage

Month	Actual	Estimated
AUG 2019	650	320
SEP 2019	572	298
OCT 2019	899	392
NOV 2019	392	363
DEC 2019	290	287
JAN 2020	320	427
FEB 2020	424	512
MAR 2020	424	424

Electric Service Charges 424 kWh at a cost of \$85.61
Average Daily Cost for Electric \$2.6537

Amount of Electricity Used
Aug 23, 2019 Present Reading (actual) 70172
Jul 24, 2019 Previous Reading (estimated) 69748

Electricity Used (kWh) 424

Cost for Electricity Used (for 1.0 months)

ENERGY DELIVERY CHARGES:

Basic Service Charge	1.0 Mos @	20.00	20.00
Delivery Svc Chg	424 kWh @	0.08349	35.40
MFC Admin Chg	424 kWh @	0.00183	0.78
Transition Adj	424 kWh @	0.00018	0.08
Bill Credit	424 kWh @	-0.00307	-1.30
SBC/RPS Chgs	424 kWh @	0.00801	2.55
Misc. Charges	424 kWh @	0.00347	1.47
RDM Chg	424 kWh @	-0.00294	-1.25
Total Delivery Chrgs			57.73

ENERGY SUPPLY CHARGES:
(You may choose another supplier for this part of your service)

MFC Supply Chg	424 kWh @	0.00330	1.40
Market Price	424 kWh @	0.05894	24.14
Market Price Adj	424 kWh @	0.00216	0.92
Total Supply Chrgs			26.46
NYS & Local Taxes			1.42

TOTAL ELECTRICITY COST \$85.61

For this billing period, the average cost of energy we purchased for you was \$0.06240 per kWh (excluding taxes). You can use this number to compare our price to other suppliers' prices.

Payments and Adjustments

COMMUNITY DISTRIB GENERATION CREDIT	AUG 2	\$-52.36
PAYMENT RECEIVED BY US MAIL	AUG 5	\$-15.16

Message Center

What's New...
Scan Alert Our customers are reporting heightened scam activity with calls threatening to disconnect services if payment using a prepaid card is not made immediately. Central Hudson would never request a payment in this way. Go to CentralHudson.com/scanalert for more information.

Did you know?
We have enhanced our payment options. You can now pay your Central Hudson bill with a credit/debit card or use a payment center without incurring a transaction fee. Bill customers can set up automatic recurring card payments. Visit www.centralhudson.com/billpay.

Sign up for Text Messaging

Text REG to 236483 to register

Report an outage, receive restoration status updates, check your balance and pay your bill from anywhere.

If your cell phone number is not linked to your account, you will need your Central Hudson account number to register online.

www.CentralHudson.com/Alerts

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Host Summary

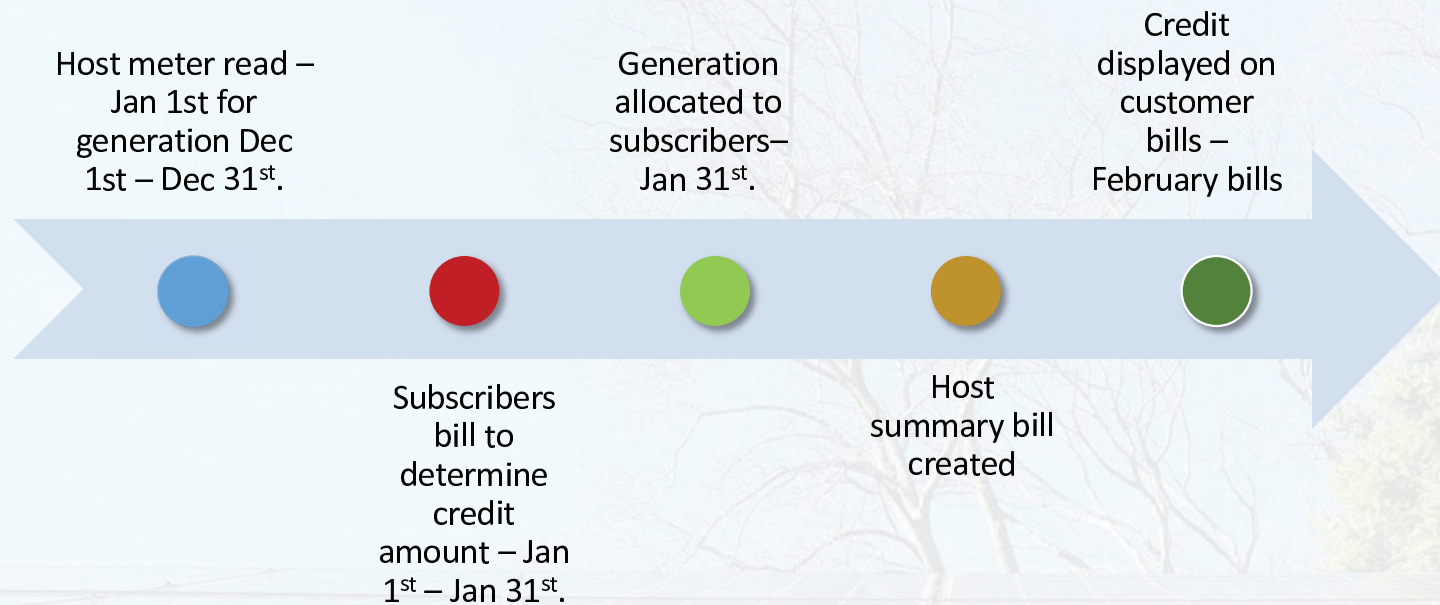
Summary of Subscriber Credit

For Billing Period: 1/17/2020 2/14/2020

Account No	Name	Allocation %	Rate	Read Dt	Value Stack Credit	Central Hudson Charges	ESCO Charges	Total Charges	Billed kWh	Credit Applied	Previous Bank Balance	Monthly Bank Contribution	Bank Withdraw	Bank Balance
1	Host	5.000%	Host	2/14/2020	-	-	-	-	-	-	-	-	-	-
2	Subscriber 1	15.000%	E115	1/14/2020	50.13	271.97	391.84	663.81	2,779	50.13	-	-	-	-
3	Subscriber 2	20.000%	E115	1/13/2020	11.49	45.57	23.98	69.55	276	11.49	-	-	-	-
4	Subscriber 3	30.000%	E115	1/13/2020	54.30	989.33	911.20	1,900.53	10,720	54.30	-	-	-	-
5	Subscriber 4	5.000%	E100	1/20/2020	5.22	41.94	-	41.94	116	5.22	-	-	-	-
6	Subscriber 5	5.000%	E115	1/16/2020	24.01	96.47	62.52	158.99	846	24.01	-	-	-	-
7	Subscriber 6	5.000%	E100	1/16/2020	16.70	81.00	-	81.00	405	16.70	-	-	-	-
8	Subscriber 7	5.000%	E100	1/16/2020	39.69	283.44	-	283.44	1,759	39.69	-	-	-	-
9	Subscriber 8	5.000%	E100	1/17/2020	7.31	52.08	-	52.08	211	7.31	-	-	-	-
10	Subscriber 9	5.000%	E100	1/17/2020	18.81	177.01	-	177.01	1,046	18.81	-	-	-	-

Host Value Stack Statement				
Energy	\$	674.16	SC1 MTC	\$ -
Capacity	\$	-	SC2 MTC	\$ -
Environmental	\$	773.29	DRV	\$ 25.21
			LSRV	\$ -
			Total	\$ 1,472.66
			kWh-Export	28,212

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Letters of Authorization

- List account number.
- Must be signed by an authorized user of account.
- Printed on company letterhead.
- List authorized users.
- If authorizing an entire company – state employees must verify project EIN.

Consolidated Billing

- Net crediting model
- Minimum 5% CDG savings rate
- Discount rate of 1%

Example:

- Monthly credit - \$10,000
- 10% CDG Savings rate
 - Members of project would receive \$1,000 divided based on the allocation to each member
- Utility retains \$100 through discount rate
- Utility makes Sponsor payment of \$8,900