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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Capacity Market Value Cost Recovery - ALTERNATIVE 1 Rule 40.3.2.1

2022 4 37 41	ATTITION O		·	A 4 4 A	/4 YYY
2023 Average Monthly	U N V IS() Sho	t Ametion Car	nacity Price.	\$4.13	/Iz\\/
ZUZJ AVCIARC MOHUII	V 1V 1 13O 300	i Auction Cai	Dacity I lice.	.04.1.)	/ K VV

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 274,985 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$1,134,817.68

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$484,567.15
SC1C	0.84%	\$9,532.47
SC2ND	2.60%	\$29,505.26
SC2D	13.77%	\$156,264.39
SC3-Secondary	12.44%	\$141,171.32
SC3-Primary	5.03%	\$57,081.33
SC3-Subtransmission/Transmission	1.79%	\$20,313.24
SC3A-Secondary/Primary	2.46%	\$27,916.51
SC3A-Sub Transmission	3.83%	\$43,463.52
SC3A-Transmission	14.53%	\$164,889.01
Streetlighting	0.01%	\$113.48
Total	100.00%	\$1,134,817.68

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00056
SC1C	20,988,220	\$0.00045
SC2ND	58,051,213	\$0.00051
		<u>\$/kW</u>
SC2D	1,090,203	\$0.14
SC3-Secondary	851,856	\$0.17
SC3-Primary	352,407	\$0.16
SC3-Subtransmission/Transmission	142,018	\$0.14
SC3A-Secondary/Primary	170,205	\$0.16
SC3A-Sub Transmission	260,385	\$0.17
SC3A-Transmission	982,991	\$0.17
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00001

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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Capacity Market Value Cost Recovery - ALTERNATIVE 2 Rule 40.3.2.1

2022 4 37 41	ATTITION O		·	A 4 4 A	/4 YYY
2023 Average Monthly	U N V IS() Sho	t Ametion Car	nacity Price.	\$4.13	/Iz\\/
ZUZJ AVCIARC MOHUII	V 1V 1 13O 300	i Auction Cai	Dacity I lice.	.04.1.)	/ K VV

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 143,699 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$593,022.24

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$253,220.49
SC1C	0.84%	\$4,981.39
SC2ND	2.60%	\$15,418.58
SC2D	13.77%	\$81,659.16
SC3-Secondary	12.44%	\$73,771.97
SC3-Primary	5.03%	\$29,829.02
SC3-Subtransmission/Transmission	1.79%	\$10,615.10
SC3A-Secondary/Primary	2.46%	\$14,588.35
SC3A-Sub Transmission	3.83%	\$22,712.75
SC3A-Transmission	14.53%	\$86,166.13
Streetlighting	0.01%	\$59.30
Total	100.00%	\$593,022.24

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00029
SC1C	20,988,220	\$0.00024
SC2ND	58,051,213	\$0.00027
		\$/kW
SC2D	1,090,203	\$0.07
SC3-Secondary	851,856	\$0.09
SC3-Primary	352,407	\$0.08
SC3-Subtransmission/Transmission	142,018	\$0.07
SC3A-Secondary/Primary	170,205	\$0.09
SC3A-Sub Transmission	260,385	\$0.09
SC3A-Transmission	982,991	\$0.09
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00001

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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Capacity Market Value Cost Recovery - ALTERNATIVE 3 Rule 40.3.2.1

Total Alternative 3 Capacity Market Value Cost to Recover:	\$397.83
Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak:	96 kW
2023 Average Monthly NYISO Spot Auction Capacity Price:	\$4.13 /kW

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$169.87
SC1C	0.84%	\$3.34
SC2ND	2.60%	\$10.34
SC2D	13.77%	\$54.78
SC3-Secondary	12.44%	\$49.49
SC3-Primary	5.03%	\$20.01
SC3-Subtransmission/Transmission	1.79%	\$7.12
SC3A-Secondary/Primary	2.46%	\$9.79
SC3A-Sub Transmission	3.83%	\$15.24
SC3A-Transmission	14.53%	\$57.80
Streetlighting	0.01%	\$0.04
Total	100.00%	\$397.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00000
SC1C	20,988,220	\$0.00000
SC2ND	58,051,213	\$0.00000
		<u>\$/kW</u>
SC2D	1,090,203	\$0.00
SC3-Secondary	851,856	\$0.00
SC3-Primary	352,407	\$0.00
SC3-Subtransmission/Transmission	142,018	\$0.00
SC3A-Secondary/Primary	170,205	\$0.00
SC3A-Sub Transmission	260,385	\$0.00
SC3A-Transmission	982,991	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00000

Received: 03/14/2024

P.S.C. 220 ELECTRICITY NIAGARA MOHAWK POWER CORPORATION INITIAL EFFECTIVE DATE: MARCH 28, 2024 STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 78 PAGE 4 OF 12

<u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

Capacity Out of Market Value Cost Recovery Rule 40.3.2.2

VDER Value Stack Capacity Market Value (Rule 40.3.2.1): \$1,728,237.74

Total VDER Value Stack Capacity Component Paid to Projects: \$1,173,327.03

Total Capacity Out of Market Value Cost to Recover: -\$554,910.71

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	37.51%	-\$208,148.38
SC1C	6.57%	-\$36,444.18
SC2ND	3.47%	-\$19,245.99
SC2D	20.44%	-\$113,427.17
SC3	29.67%	-\$164,640.21
SC3A	1.40%	-\$7,750.15
Streetlighting	0.95%	-\$5,254.63
Total	100.00%	-\$554,910.71

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	-\$0.00024
SC1C	20,988,220	-\$0.00174
SC2ND	58,051,213	-\$0.00033
		<u>\$/kW</u>
SC2D	1,090,203	-\$0.10
SC3	1,346,280	-\$0.12
SC3A	1,413,581	-\$0.01
		<u>\$/kWh</u>
Streetlighting	10,376,779	-\$0.00051

Received: 03/14/2024

P.S.C. 220 ELECTRICITY NIAGARA MOHAWK POWER CORPORATION INITIAL EFFECTIVE DATE: MARCH 28, 2024 STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 78 PAGE 5 OF 12

<u>Value Stack Cost Recovery Mechanisms</u> VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Environmental Market Value Cost Recovery¹ Rule 40.3.2.3

Total Environmental Market Value Cost to Recover:	\$1,498,253.34
Total of VDER Projects' Net Injections during recovery month:	42,795,011 kWh
NYSERDA Tier 1 REC rate in effect for the recovery month ² :	\$0.03501 /kWh

Notes:

- 1. The Environmental Market Value costs are recovered annually as part of the Clean Energy Standard Supply charge as specified in Rule 46.3.5.
- 2. NYSERDA's 2023 Quarter 4 Tier 1 REC Sale Price of \$35.01/MWh.

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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Environmental Out of Market Value Cost Recovery Rule 40.3.2.4

VDER Value Stack Environmental Market Value (Rule 40.3.2.3): \$1,498,253.34

Total VDER Value Stack Environmental Component Paid to Projects: \$1,683,029.02

Total Environmental Out of Market Value Cost for February: \$184,775.68

Plus Total Environmental Out of Market Value 2023 Correction: -\$2,263,020.13

Total Environmental Out of Market Value Cost to Recover: -\$2,078,244.45

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	31.60%	-\$656,635.44
SC1C	6.56%	-\$136,256.44
SC2ND	3.47%	-\$72,038.97
SC2D	23.29%	-\$484,039.23
SC3	32.44%	-\$674,141.79
SC3A	2.00%	-\$41,534.71
Streetlighting	0.65%	-\$13,597.86
Total	100 00%	-\$2,078,244,45

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	-\$0.00075
SC1C	20,988,220	-\$0.00649
SC2ND	58,051,213	-\$0.00124
		<u>\$/kW</u>
SC2D	1,090,203	-\$0.44
SC3	1,346,280	-\$0.50
SC3A	1,413,581	-\$0.03
		<u>\$/kWh</u>
Streetlighting	10,376,779	-\$0.00131

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<u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

DRV Cost Recovery Rule 40.3.2.5

Total VDER Value Stack DRV Component Paid to **Secondary/Primary** Customers: \$10,554.58

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$5,692.08
SC1C	1.11%	\$117.16
SC2ND	3.11%	\$328.25
SC2D	16.32%	\$1,722.51
SC3-Secondary	15.50%	\$1,635.96
SC3-Primary	6.21%	\$655.44
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$321.91
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$81.27
Total	100.00%	\$10,554.58

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00001
SC1C	20,988,220	\$0.00001
SC2ND	58,051,213	\$0.00001
		<u>\$/kW</u>
SC2D	1,090,203	\$0.00
SC3-Secondary	851,856	\$0.00
SC3-Primary	352,407	\$0.00
SC3-Subtransmission/Transmission	142,018	\$0.00
SC3A-Secondary/Primary	170,205	\$0.00
SC3A-Sub Transmission	260,385	\$0.00
SC3A-Transmission	982,991	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00001

SC3A-Transmission

Streetlighting

Total

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\$0.00

\$0.00

\$0.00

14.53%

0.01%

100.00%

<u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

DRV Cost Recovery Rule 40.3.2.5

otal VDER Value Stack DRV Component Paid to Subtransmissi	on/Transmission Customers:	\$0.00
Subtransmission/Transmissi	ion Cost Allocation	
Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$0.00
SC1C	0.84%	\$0.00
SC2ND	2.60%	\$0.00
SC2D	13.77%	\$0.00
SC3-Secondary	12.44%	\$0.00
SC3-Primary	5.03%	\$0.00
SC3-Subtransmission/Transmission	1.79%	\$0.00
SC3A-Secondary/Primary	2.46%	\$0.00
SC3A-Sub Transmission	3.83%	\$0.00

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00000
SC1C	20,988,220	\$0.00000
SC2ND	58,051,213	\$0.00000
		<u>\$/kW</u>
SC2D	1,090,203	\$0.00
SC3-Secondary	851,856	\$0.00
SC3-Primary	352,407	\$0.00
SC3-Subtransmission/Transmission	142,018	\$0.00
SC3A-Secondary/Primary	170,205	\$0.00
SC3A-Sub Transmission	260,385	\$0.00
SC3A-Transmission	982,991	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00000

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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

LSRV Cost Recovery Rule 40.3.2.6

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$1,122.75
SC1C	1.11%	\$23.11
SC2ND	3.11%	\$64.75
SC2D	16.32%	\$339.76
SC3-Secondary	15.50%	\$322.69
SC3-Primary	6.21%	\$129.28
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$63.50
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$16.03
Total	100.00%	\$2,081.87

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00000
SC1C	20,988,220	\$0.00000
SC2ND	58,051,213	\$0.00000
		<u>\$/kW</u>
SC2D	1,090,203	\$0.00
SC3-Secondary	851,856	\$0.00
SC3-Primary	352,407	\$0.00
SC3-Subtransmission/Transmission	142,018	\$0.00
SC3A-Secondary/Primary	170,205	\$0.00
SC3A-Sub Transmission	260,385	\$0.00
SC3A-Transmission	982,991	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00000

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Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

LSRV Cost Recovery Rule 40.3.2.6

Total VDER Value Stack LSRV Component Paid to Subtransmission/Transmission Customers: \$0.00		
Total (DEIC (Made State) Component and to Subtransmission (Transmission Castemens.	Total VDER Value Stack LSRV Component Paid to Subtransmission/Transmission Customers:	\$0.00

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$0.00
SC1C	0.84%	\$0.00
SC2ND	2.60%	\$0.00
SC2D	13.77%	\$0.00
SC3-Secondary	12.44%	\$0.00
SC3-Primary	5.03%	\$0.00
SC3-Subtransmission/Transmission	1.79%	\$0.00
SC3A-Secondary/Primary	2.46%	\$0.00
SC3A-Sub Transmission	3.83%	\$0.00
SC3A-Transmission	14.53%	\$0.00
Streetlighting	0.01%	\$0.00
Total	100.00%	\$0.00

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00000
SC1C	20,988,220	\$0.00000
SC2ND	58,051,213	\$0.00000
		<u>\$/kW</u>
SC2D	1,090,203	\$0.00
SC3-Secondary	851,856	\$0.00
SC3-Primary	352,407	\$0.00
SC3-Subtransmission/Transmission	142,018	\$0.00
SC3A-Secondary/Primary	170,205	\$0.00
SC3A-Sub Transmission	260,385	\$0.00
SC3A-Transmission	982,991	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,376,779	\$0.00000

Received: 03/14/2024

P.S.C. 220 ELECTRICITY NIAGARA MOHAWK POWER CORPORATION INITIAL EFFECTIVE DATE: MARCH 28, 2024 STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 78 PAGE 11 OF 12

Value Stack Cost Recovery Mechanisms VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

MTC Cost Recovery Rule 40.3.2.7

Total VDER Value Stack MTC Component Paid to Customer	rs: \$25,334.36

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	60.59%	\$15,349.54
SC1C	30.46%	\$7,716.36
SC2ND	8.95%	\$2,268.46
Total	100.00%	\$25,334.36

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00002
SC1C	20,988,220	\$0.00037
SC2ND	58,051,213	\$0.00004

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<u>Value Stack Cost Recovery Mechanisms</u> VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Community Credit Cost Recovery Rule 40.3.2.7

Total VDER Value Stack Community Credit Component Paid to Customers: \$885,990.87

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	25.29%	\$224,047.14
SC1C	8.02%	\$71,056.09
SC2ND	3.00%	\$26,571.89
SC2D	25.51%	\$226,039.34
SC3-Secondary	26.31%	\$233,123.64
SC3-Primary	9.45%	\$83,717.53
SC3-Subtransmission/Transmission	0.65%	\$5,719.90
SC3A-Secondary/Primary	0.18%	\$1,555.68
SC3A-Sub Transmission	0.73%	\$6,449.98
SC3A-Transmission	0.34%	\$3,011.62
Streetlighting	0.53%	\$4,698.06
Total	100.00%	\$885,990,87

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	871,294,693	\$0.00026
SC1C	20,988,220	\$0.00339
SC2ND	58,051,213	\$0.00046
		<u>\$/kW</u>
SC2D	1,090,203	\$0.21
SC3-Secondary	851,856	\$0.27
SC3-Primary	352,407	\$0.24
SC3-Subtransmission/Transmission	142,018	\$0.04
SC3A-Secondary/Primary	170,205	\$0.01
SC3A-Sub Transmission	260,385	\$0.02
SC3A-Transmission	982,991	\$0.00
Streetlighting	10,376,779	\$0.00045