

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: SEPTEMBER 28, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 72
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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 Average Monthly NYISO Spot Auction Capacity Price: \$2.56/kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 160,468 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$410,932.83

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$175,468.32
SC1C	0.84%	\$3,451.84
SC2ND	2.60%	\$10,684.25
SC2D	13.77%	\$56,585.45
SC3-Secondary	12.44%	\$51,120.04
SC3-Primary	5.03%	\$20,669.92
SC3-Subtransmission/Transmission	1.79%	\$7,355.70
SC3A-Secondary/Primary	2.46%	\$10,108.95
SC3A-Sub Transmission	3.83%	\$15,738.73
SC3A-Transmission	14.53%	\$59,708.54
Streetlighting	0.01%	\$41.09
Total	100.00%	\$410,932.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00022
SC1C	19,076,377	\$0.00018
SC2ND	57,944,040	\$0.00018
		<u>\$/kW</u>
SC2D	1,103,076	\$0.05
SC3-Secondary	864,570	\$0.06
SC3-Primary	358,475	\$0.06
SC3-Subtransmission/Transmission	144,321	\$0.05
SC3A-Secondary/Primary	185,867	\$0.05
SC3A-Sub Transmission	287,643	\$0.05
SC3A-Transmission	1,047,970	\$0.06
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00000

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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 Average Monthly NYISO Spot Auction Capacity Price: \$2.56/kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 52,095 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$133,407.12

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$56,964.84
SC1C	0.84%	\$1,120.62
SC2ND	2.60%	\$3,468.59
SC2D	13.77%	\$18,370.16
SC3-Secondary	12.44%	\$16,595.85
SC3-Primary	5.03%	\$6,710.38
SC3-Subtransmission/Transmission	1.79%	\$2,387.99
SC3A-Secondary/Primary	2.46%	\$3,281.82
SC3A-Sub Transmission	3.83%	\$5,109.49
SC3A-Transmission	14.53%	\$19,384.06
Streetlighting	0.01%	\$13.34
Total	100.00%	\$133,407.12

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00007
SC1C	19,076,377	\$0.00006
SC2ND	57,944,040	\$0.00006
		<u>\$/kW</u>
SC2D	1,103,076	\$0.02
SC3-Secondary	864,570	\$0.02
SC3-Primary	358,475	\$0.02
SC3-Subtransmission/Transmission	144,321	\$0.02
SC3A-Secondary/Primary	185,867	\$0.02
SC3A-Sub Transmission	287,643	\$0.02
SC3A-Transmission	1,047,970	\$0.02
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00000

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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

2022 Average Monthly NYISO Spot Auction Capacity Price: /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: kW

Total Alternative 3 Capacity Market Value Cost to Recover:

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
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

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00000
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	\$0.00000
		<u>\$/kW</u>
SC2D	1,103,076	\$0.00
SC3-Secondary	864,570	\$0.00
SC3-Primary	358,475	\$0.00
SC3-Subtransmission/Transmission	144,321	\$0.00
SC3A-Secondary/Primary	185,867	\$0.00
SC3A-Sub Transmission	287,643	\$0.00
SC3A-Transmission	1,047,970	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00000

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Value Stack Cost Recovery Mechanisms
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Capacity Out of Market Value Cost Recovery
Rule 40.3.2.2

VDER Value Stack Capacity Market Value (Rule 40.3.2.1): \$544,339.95

Total VDER Value Stack Capacity Component Paid to Projects: \$2,252,401.83

Total Capacity Out of Market Value Cost to Recover: \$1,708,061.88

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	41.66%	\$711,495.77
SC1C	0.00%	\$39.71
SC2ND	3.38%	\$57,740.84
SC2D	21.93%	\$374,585.51
SC3	26.24%	\$448,119.35
SC3A	5.74%	\$98,125.06
Streetlighting	1.05%	\$17,955.64
Total	100.00%	\$1,708,061.88

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00091
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	\$0.00100
		<u>\$/kW</u>
SC2D	1,103,076	\$0.34
SC3	1,367,366	\$0.33
SC3A	1,521,481	\$0.06
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00133

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

Environmental Market Value Cost Recovery¹
Rule 40.3.2.3

NYSERDA Tier 1 REC rate in effect for the recovery month²: \$0.02569/kWh

Total of VDER Projects' Net Injections during recovery month: 126,743,502 kWh

Total Environmental Market Value Cost to Recover: \$3,256,040.58

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 2 Tier 1 REC Sale Price of \$25.69/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): \$3,256,040.58

Total VDER Value Stack Environmental Component Paid to Projects: \$2,425,474.02

Total Environmental Out of Market Value Cost to Recover: **-\$830,566.56**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	44.18%	-\$366,964.44
SC1C	0.00%	-\$31.17
SC2ND	3.43%	-\$28,476.18
SC2D	20.23%	-\$168,060.98
SC3	24.52%	-\$203,640.19
SC3A	6.28%	-\$52,165.04
Streetlighting	1.35%	-\$11,228.57
Total	100.00%	-\$830,566.56

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	-\$0.00047
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	-\$0.00049
		<u>\$/kW</u>
SC2D	1,103,076	-\$0.15
SC3	1,367,366	-\$0.15
SC3A	1,521,481	-\$0.03
		<u>\$/kWh</u>
Streetlighting	13,514,767	-\$0.00083

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Value Stack Cost Recovery Mechanisms
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: \$4,417,019.46

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$2,382,098.59
SC1C	1.11%	\$49,028.92
SC2ND	3.11%	\$137,369.31
SC2D	16.32%	\$720,857.58
SC3-Secondary	15.50%	\$684,638.02
SC3-Primary	6.21%	\$274,296.91
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$134,719.09
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$34,011.05
Total	100.00%	\$4,417,019.46

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00305
SC1C	19,076,377	\$0.00257
SC2ND	57,944,040	\$0.00237
		<u>\$/kW</u>
SC2D	1,103,076	\$0.65
SC3-Secondary	864,570	\$0.79
SC3-Primary	358,475	\$0.77
SC3-Subtransmission/Transmission	144,321	\$0.00
SC3A-Secondary/Primary	185,867	\$0.72
SC3A-Sub Transmission	287,643	\$0.00
SC3A-Transmission	1,047,970	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00252

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

DRV Cost Recovery
Rule 40.3.2.5

Total VDER Value Stack DRV Component Paid to **Subtransmission/Transmission** Customers: \$162,518.57

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$69,395.43
SC1C	0.84%	\$1,365.16
SC2ND	2.60%	\$4,225.48
SC2D	13.77%	\$22,378.81
SC3-Secondary	12.44%	\$20,217.31
SC3-Primary	5.03%	\$8,174.68
SC3-Subtransmission/Transmission	1.79%	\$2,909.08
SC3A-Secondary/Primary	2.46%	\$3,997.96
SC3A-Sub Transmission	3.83%	\$6,224.46
SC3A-Transmission	14.53%	\$23,613.95
Streetlighting	0.01%	\$16.25
Total	100.00%	\$162,518.57

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00009
SC1C	19,076,377	\$0.00007
SC2ND	57,944,040	\$0.00007
		<u>\$/kW</u>
SC2D	1,103,076	\$0.02
SC3-Secondary	864,570	\$0.02
SC3-Primary	358,475	\$0.02
SC3-Subtransmission/Transmission	144,321	\$0.02
SC3A-Secondary/Primary	185,867	\$0.02
SC3A-Sub Transmission	287,643	\$0.02
SC3A-Transmission	1,047,970	\$0.02
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$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 **Secondary/Primary** Customers: \$173,259.29

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$93,438.74
SC1C	1.11%	\$1,923.18
SC2ND	3.11%	\$5,388.36
SC2D	16.32%	\$28,275.92
SC3-Secondary	15.50%	\$26,855.19
SC3-Primary	6.21%	\$10,759.40
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$5,284.41
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$1,334.10
Total	100.00%	\$173,259.29

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00012
SC1C	19,076,377	\$0.00010
SC2ND	57,944,040	\$0.00009
		<u>\$/kW</u>
SC2D	1,103,076	\$0.03
SC3-Secondary	864,570	\$0.03
SC3-Primary	358,475	\$0.03
SC3-Subtransmission/Transmission	144,321	\$0.00
SC3A-Secondary/Primary	185,867	\$0.03
SC3A-Sub Transmission	287,643	\$0.00
SC3A-Transmission	1,047,970	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00010

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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: \$6,437.25

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$2,748.71
SC1C	0.84%	\$54.07
SC2ND	2.60%	\$167.37
SC2D	13.77%	\$886.41
SC3-Secondary	12.44%	\$800.79
SC3-Primary	5.03%	\$323.79
SC3-Subtransmission/Transmission	1.79%	\$115.23
SC3A-Secondary/Primary	2.46%	\$158.36
SC3A-Sub Transmission	3.83%	\$246.55
SC3A-Transmission	14.53%	\$935.33
Streetlighting	0.01%	\$0.64
Total	100.00%	\$6,437.25

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00000
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	\$0.00000
		<u>\$/kW</u>
SC2D	1,103,076	\$0.00
SC3-Secondary	864,570	\$0.00
SC3-Primary	358,475	\$0.00
SC3-Subtransmission/Transmission	144,321	\$0.00
SC3A-Secondary/Primary	185,867	\$0.00
SC3A-Sub Transmission	287,643	\$0.00
SC3A-Transmission	1,047,970	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,514,767	\$0.00000

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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 Customers: \$61,522.01

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.40%	\$58,691.78
SC1C	0.00%	\$0.00
SC2ND	4.60%	\$2,830.23
Total	100.00%	\$61,522.01

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00008
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	\$0.00005

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Value Stack Cost Recovery Mechanisms
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: \$1,144,240.22

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	42.02%	\$480,809.25
SC1C	0.00%	\$0.00
SC2ND	2.97%	\$33,986.08
SC2D	22.81%	\$260,987.40
SC3-Secondary	21.13%	\$241,736.86
SC3-Primary	7.07%	\$80,859.92
SC3-Subtransmission/Transmission	0.43%	\$4,949.57
SC3A-Secondary/Primary	0.41%	\$4,635.27
SC3A-Sub Transmission	0.46%	\$5,249.07
SC3A-Transmission	1.47%	\$16,786.97
Streetlighting	1.24%	\$14,239.83
Total	100.00%	\$1,144,240.22

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	780,467,613	\$0.00062
SC1C	19,076,377	\$0.00000
SC2ND	57,944,040	\$0.00059
		<u>\$/kW</u>
SC2D	1,103,076	\$0.24
SC3-Secondary	864,570	\$0.28
SC3-Primary	358,475	\$0.23
SC3-Subtransmission/Transmission	144,321	\$0.03
SC3A-Secondary/Primary	185,867	\$0.02
SC3A-Sub Transmission	287,643	\$0.02
SC3A-Transmission	1,047,970	\$0.02
Streetlighting	13,514,767	\$0.00105

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