

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: DECEMBER 29, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 75
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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: 157,506 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$403,345.59

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$172,228.57
SC1C	0.84%	\$3,388.10
SC2ND	2.60%	\$10,486.99
SC2D	13.77%	\$55,540.69
SC3-Secondary	12.44%	\$50,176.19
SC3-Primary	5.03%	\$20,288.28
SC3-Subtransmission/Transmission	1.79%	\$7,219.89
SC3A-Secondary/Primary	2.46%	\$9,922.30
SC3A-Sub Transmission	3.83%	\$15,448.14
SC3A-Transmission	14.53%	\$58,606.11
Streetlighting	0.01%	\$40.33
Total	100.00%	\$403,345.59

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00015
SC1C	28,440,007	\$0.00012
SC2ND	63,855,581	\$0.00016
		<u>\$/kW</u>
SC2D	1,205,319	\$0.05
SC3-Secondary	934,102	\$0.05
SC3-Primary	385,073	\$0.05
SC3-Subtransmission/Transmission	154,297	\$0.05
SC3A-Secondary/Primary	181,562	\$0.05
SC3A-Sub Transmission	277,997	\$0.06
SC3A-Transmission	1,040,013	\$0.06
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$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: 54,681 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$140,029.70

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$59,792.68
SC1C	0.84%	\$1,176.25
SC2ND	2.60%	\$3,640.77
SC2D	13.77%	\$19,282.09
SC3-Secondary	12.44%	\$17,419.69
SC3-Primary	5.03%	\$7,043.49
SC3-Subtransmission/Transmission	1.79%	\$2,506.53
SC3A-Secondary/Primary	2.46%	\$3,444.73
SC3A-Sub Transmission	3.83%	\$5,363.14
SC3A-Transmission	14.53%	\$20,346.31
Streetlighting	0.01%	\$14.00
Total	100.00%	\$140,029.70

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00005
SC1C	28,440,007	\$0.00004
SC2ND	63,855,581	\$0.00006
		<u>\$/kW</u>
SC2D	1,205,319	\$0.02
SC3-Secondary	934,102	\$0.02
SC3-Primary	385,073	\$0.02
SC3-Subtransmission/Transmission	154,297	\$0.02
SC3A-Secondary/Primary	181,562	\$0.02
SC3A-Sub Transmission	277,997	\$0.02
SC3A-Transmission	1,040,013	\$0.02
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$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: \$2.56/kW

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

Total Alternative 3 Capacity Market Value Cost to Recover: **\$0.00**

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

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00000
SC1C	28,440,007	\$0.00000
SC2ND	63,855,581	\$0.00000
		<u>\$/kW</u>
SC2D	1,205,319	\$0.00
SC3-Secondary	934,102	\$0.00
SC3-Primary	385,073	\$0.00
SC3-Subtransmission/Transmission	154,297	\$0.00
SC3A-Secondary/Primary	181,562	\$0.00
SC3A-Sub Transmission	277,997	\$0.00
SC3A-Transmission	1,040,013	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$0.00000

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Value Stack Cost Recovery Mechanisms
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): \$543,375.29

Total VDER Value Stack Capacity Component Paid to Projects: \$2,029,521.18

Total Capacity Out of Market Value Cost to Recover: **\$1,486,145.89**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.36%	\$584,882.75
SC1C	5.44%	\$80,852.76
SC2ND	3.47%	\$51,522.19
SC2D	20.49%	\$304,484.49
SC3	27.38%	\$406,879.85
SC3A	2.55%	\$37,922.10
Streetlighting	1.32%	\$19,601.75
Total	100.00%	\$1,486,145.89

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00050
SC1C	28,440,007	\$0.00284
SC2ND	63,855,581	\$0.00081
		<u>\$/kW</u>
SC2D	1,205,319	\$0.25
SC3	1,473,472	\$0.28
SC3A	1,499,573	\$0.03
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$0.00138

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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: \$0.03662 /kWh

Total of VDER Projects' Net Injections during recovery month: 60,402,123 kWh

Total Environmental Market Value Cost to Recover: **\$2,211,925.74**

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 3 Tier 1 REC Sale Price of \$36.62/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): \$2,211,925.74

Total VDER Value Stack Environmental Component Paid to Projects: \$3,087,216.89

Total Environmental Out of Market Value Cost to Recover: **\$875,291.15**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	33.82%	\$296,039.00
SC1C	5.16%	\$45,143.23
SC2ND	3.26%	\$28,540.51
SC2D	22.08%	\$193,269.49
SC3	30.41%	\$266,185.19
SC3A	4.30%	\$37,594.71
Streetlighting	0.97%	\$8,519.01
Total	100.00%	\$875,291.15

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,180,644,531	\$0.00025
SC1C	28,440,007	\$0.00159
SC2ND	63,855,581	\$0.00045
		<u>\$/kW</u>
SC2D	1,205,319	\$0.16
SC3	1,473,472	\$0.18
SC3A	1,499,573	\$0.03
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$0.00060

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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: \$278,419.29

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$150,151.52
SC1C	1.11%	\$3,090.45
SC2ND	3.11%	\$8,658.84
SC2D	16.32%	\$45,438.03
SC3-Secondary	15.50%	\$43,154.99
SC3-Primary	6.21%	\$17,289.84
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$8,491.79
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$2,143.83
Total	100.00%	\$278,419.29

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00013
SC1C	28,440,007	\$0.00011
SC2ND	63,855,581	\$0.00014
		<u>\$/kW</u>
SC2D	1,205,319	\$0.04
SC3-Secondary	934,102	\$0.05
SC3-Primary	385,073	\$0.04
SC3-Subtransmission/Transmission	154,297	\$0.00
SC3A-Secondary/Primary	181,562	\$0.05
SC3A-Sub Transmission	277,997	\$0.00
SC3A-Transmission	1,040,013	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$0.00015

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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: \$18,642.61

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$7,960.39
SC1C	0.84%	\$156.60
SC2ND	2.60%	\$484.71
SC2D	13.77%	\$2,567.09
SC3-Secondary	12.44%	\$2,319.14
SC3-Primary	5.03%	\$937.72
SC3-Subtransmission/Transmission	1.79%	\$333.70
SC3A-Secondary/Primary	2.46%	\$458.61
SC3A-Sub Transmission	3.83%	\$714.01
SC3A-Transmission	14.53%	\$2,708.77
Streetlighting	0.01%	\$1.86
Total	100.00%	\$18,642.61

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00001
SC1C	28,440,007	\$0.00001
SC2ND	63,855,581	\$0.00001
		<u>\$/kW</u>
SC2D	1,205,319	\$0.00
SC3-Secondary	934,102	\$0.00
SC3-Primary	385,073	\$0.00
SC3-Subtransmission/Transmission	154,297	\$0.00
SC3A-Secondary/Primary	181,562	\$0.00
SC3A-Sub Transmission	277,997	\$0.00
SC3A-Transmission	1,040,013	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$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: \$5,486.20

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$2,958.71
SC1C	1.11%	\$60.90
SC2ND	3.11%	\$170.62
SC2D	16.32%	\$895.35
SC3-Secondary	15.50%	\$850.36
SC3-Primary	6.21%	\$340.69
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$167.33
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$42.24
Total	100.00%	\$5,486.20

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00000
SC1C	28,440,007	\$0.00000
SC2ND	63,855,581	\$0.00000
		<u>\$/kW</u>
SC2D	1,205,319	\$0.00
SC3-Secondary	934,102	\$0.00
SC3-Primary	385,073	\$0.00
SC3-Subtransmission/Transmission	154,297	\$0.00
SC3A-Secondary/Primary	181,562	\$0.00
SC3A-Sub Transmission	277,997	\$0.00
SC3A-Transmission	1,040,013	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,237,910	\$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

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	\$/kWh
SC1	1,180,644,531	\$0.00000
SC1C	28,440,007	\$0.00000
SC2ND	63,855,581	\$0.00000
		\$/kW
SC2D	1,205,319	\$0.00
SC3-Secondary	934,102	\$0.00
SC3-Primary	385,073	\$0.00
SC3-Subtransmission/Transmission	154,297	\$0.00
SC3A-Secondary/Primary	181,562	\$0.00
SC3A-Sub Transmission	277,997	\$0.00
SC3A-Transmission	1,040,013	\$0.00
		\$/kWh
Streetlighting	14,237,910	\$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: \$46,777.83

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	71.36%	\$33,380.90
SC1C	22.92%	\$10,721.46
SC2ND	5.72%	\$2,675.47
Total	100.00%	\$46,777.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,180,644,531	\$0.00003
SC1C	28,440,007	\$0.00038
SC2ND	63,855,581	\$0.00004

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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: \$1,468,946.06

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	29.28%	\$430,093.61
SC1C	6.32%	\$92,900.63
SC2ND	3.10%	\$45,573.22
SC2D	24.75%	\$363,590.72
SC3-Secondary	22.90%	\$336,346.88
SC3-Primary	8.49%	\$124,668.02
SC3-Subtransmission/Transmission	0.70%	\$10,218.63
SC3A-Secondary/Primary	0.76%	\$11,199.82
SC3A-Sub Transmission	0.16%	\$2,287.93
SC3A-Transmission	2.66%	\$39,015.86
Streetlighting	0.89%	\$13,050.74
Total	100.00%	\$1,468,946.06

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,180,644,531	\$0.00036
SC1C	28,440,007	\$0.00327
SC2ND	63,855,581	\$0.00071
		<u>\$/kW</u>
SC2D	1,205,319	\$0.30
SC3-Secondary	934,102	\$0.36
SC3-Primary	385,073	\$0.32
SC3-Subtransmission/Transmission	154,297	\$0.07
SC3A-Secondary/Primary	181,562	\$0.06
SC3A-Sub Transmission	277,997	\$0.01
SC3A-Transmission	1,040,013	\$0.04
Streetlighting	14,237,910	\$0.00092

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