

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: MARCH 30, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 66
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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: 139,188 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$356,438.04

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$152,199.04
SC1C	0.84%	\$2,994.08
SC2ND	2.60%	\$9,267.39
SC2D	13.77%	\$49,081.52
SC3-Secondary	12.44%	\$44,340.89
SC3-Primary	5.03%	\$17,928.83
SC3-Subtransmission/Transmission	1.79%	\$6,380.24
SC3A-Secondary/Primary	2.46%	\$8,768.38
SC3A-Sub Transmission	3.83%	\$13,651.58
SC3A-Transmission	14.53%	\$51,790.45
Streetlighting	0.01%	\$35.64
Total	100.00%	\$356,438.04

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00017
SC1C	21,958,300	\$0.00014
SC2ND	58,187,861	\$0.00016
		<u>\$/kW</u>
SC2D	1,100,518	\$0.04
SC3-Secondary	849,167	\$0.05
SC3-Primary	349,727	\$0.05
SC3-Subtransmission/Transmission	139,302	\$0.05
SC3A-Secondary/Primary	172,834	\$0.05
SC3A-Sub Transmission	267,823	\$0.05
SC3A-Transmission	961,439	\$0.05
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$0.00000

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 Dated: March 20, 2023

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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: 46,651 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$119,465.69

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$51,011.85
SC1C	0.84%	\$1,003.51
SC2ND	2.60%	\$3,106.11
SC2D	13.77%	\$16,450.43
SC3-Secondary	12.44%	\$14,861.53
SC3-Primary	5.03%	\$6,009.12
SC3-Subtransmission/Transmission	1.79%	\$2,138.44
SC3A-Secondary/Primary	2.46%	\$2,938.86
SC3A-Sub Transmission	3.83%	\$4,575.54
SC3A-Transmission	14.53%	\$17,358.37
Streetlighting	0.01%	\$11.95
Total	100.00%	\$119,465.69

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00006
SC1C	21,958,300	\$0.00005
SC2ND	58,187,861	\$0.00005
		<u>\$/kW</u>
SC2D	1,100,518	\$0.01
SC3-Secondary	849,167	\$0.02
SC3-Primary	349,727	\$0.02
SC3-Subtransmission/Transmission	139,302	\$0.02
SC3A-Secondary/Primary	172,834	\$0.02
SC3A-Sub Transmission	267,823	\$0.02
SC3A-Transmission	961,439	\$0.02
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$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: 5 kW

Total Alternative 3 Capacity Market Value Cost to Recover: **\$12.80**

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$5.47
SC1C	0.84%	\$0.11
SC2ND	2.60%	\$0.33
SC2D	13.77%	\$1.76
SC3-Secondary	12.44%	\$1.59
SC3-Primary	5.03%	\$0.64
SC3-Subtransmission/Transmission	1.79%	\$0.23
SC3A-Secondary/Primary	2.46%	\$0.31
SC3A-Sub Transmission	3.83%	\$0.49
SC3A-Transmission	14.53%	\$1.86
Streetlighting	0.01%	\$0.00
Total	100.00%	\$12.80

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	898,375,107	\$0.00000
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00000
		<u>\$/kW</u>
SC2D	1,100,518	\$0.00
SC3-Secondary	849,167	\$0.00
SC3-Primary	349,727	\$0.00
SC3-Subtransmission/Transmission	139,302	\$0.00
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$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): \$475,916.53

Total VDER Value Stack Capacity Component Paid to Projects: \$419,279.21

Total Capacity Out of Market Value Cost to Recover: **-\$56,637.32**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	57.64%	-\$32,646.58
SC1C	0.00%	\$0.00
SC2ND	-18.07%	\$10,235.80
SC2D	23.85%	-\$13,510.39
SC3	33.00%	-\$18,692.63
SC3A	2.31%	-\$1,310.43
Streetlighting	1.26%	-\$713.09
Total	100.00%	-\$56,637.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	898,375,107	-\$0.00004
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00018
		<u>\$/kW</u>
SC2D	1,100,518	-\$0.01
SC3	1,338,197	-\$0.01
SC3A	1,402,097	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	-\$0.00007

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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: \$0.01901/kWh

Total of VDER Projects' Net Injections during recovery month: 28,484,698 kWh

Total Environmental Market Value Cost to Recover: **\$541,494.11**

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 2021 Quarter 4 Tier 1 REC Sale Price of \$19.01/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): \$541,494.11

Total VDER Value Stack Environmental Component Paid to Projects: \$629,114.98

Total Environmental Out of Market Value Cost to Recover: **\$87,620.87**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	54.53%	\$47,776.44
SC1C	0.00%	\$0.00
SC2ND	-17.97%	-\$15,743.70
SC2D	23.88%	\$20,924.41
SC3	34.79%	\$30,483.16
SC3A	3.60%	\$3,156.85
Streetlighting	1.17%	\$1,023.70
Total	100.00%	\$87,620.87

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	898,375,107	\$0.00005
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	-\$0.00027
		<u>\$/kW</u>
SC2D	1,100,518	\$0.02
SC3	1,338,197	\$0.02
SC3A	1,402,097	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$0.00009

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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** Projects: \$8,525.77

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$4,597.95
SC1C	1.11%	\$94.64
SC2ND	3.11%	\$265.15
SC2D	16.32%	\$1,391.41
SC3-Secondary	15.50%	\$1,321.49
SC3-Primary	6.21%	\$529.45
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$260.04
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$65.65
Total	100.00%	\$8,525.77

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00001
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00000
		<u>\$/kW</u>
SC2D	1,100,518	\$0.00
SC3-Secondary	849,167	\$0.00
SC3-Primary	349,727	\$0.00
SC3-Subtransmission/Transmission	139,302	\$0.00
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$0.00001

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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 Projects: \$65.02

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$27.76
SC1C	0.84%	\$0.55
SC2ND	2.60%	\$1.69
SC2D	13.77%	\$8.95
SC3-Secondary	12.44%	\$8.09
SC3-Primary	5.03%	\$3.27
SC3-Subtransmission/Transmission	1.79%	\$1.16
SC3A-Secondary/Primary	2.46%	\$1.60
SC3A-Sub Transmission	3.83%	\$2.49
SC3A-Transmission	14.53%	\$9.45
Streetlighting	0.01%	\$0.01
Total	100.00%	\$65.02

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00000
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00000
		<u>\$/kW</u>
SC2D	1,100,518	\$0.00
SC3-Secondary	849,167	\$0.00
SC3-Primary	349,727	\$0.00
SC3-Subtransmission/Transmission	139,302	\$0.00
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$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** Projects: \$2,555.65

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$1,378.26
SC1C	1.11%	\$28.37
SC2ND	3.11%	\$79.48
SC2D	16.32%	\$417.08
SC3-Secondary	15.50%	\$396.13
SC3-Primary	6.21%	\$158.71
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$77.95
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$19.68
Total	100.00%	\$2,555.65

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00000
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00000
		<u>\$/kW</u>
SC2D	1,100,518	\$0.00
SC3-Secondary	849,167	\$0.00
SC3-Primary	349,727	\$0.00
SC3-Subtransmission/Transmission	139,302	\$0.00
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$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** Projects: \$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	898,375,107	\$0.00000
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00000
		<u>\$/kW</u>
SC2D	1,100,518	\$0.00
SC3-Secondary	849,167	\$0.00
SC3-Primary	349,727	\$0.00
SC3-Subtransmission/Transmission	139,302	\$0.00
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,936,896	\$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 Projects: \$18,017.88

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	136.83%	\$24,653.11
SC1C	0.00%	\$0.00
SC2ND	-36.83%	-\$6,635.23
Total	100.00%	\$18,017.88

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	898,375,107	\$0.00003
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	-\$0.00011

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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 Projects: \$476,218.83

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	45.54%	\$216,858.44
SC1C	0.00%	\$0.00
SC2ND	2.71%	\$12,917.40
SC2D	19.47%	\$92,743.12
SC3-Secondary	24.94%	\$118,786.91
SC3-Primary	4.01%	\$19,098.24
SC3-Subtransmission/Transmission	1.25%	\$5,966.47
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.13%	\$614.17
SC3A-Transmission	1.29%	\$6,144.71
Streetlighting	0.65%	\$3,089.37
Total	100.00%	\$476,218.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	898,375,107	\$0.00024
SC1C	21,958,300	\$0.00000
SC2ND	58,187,861	\$0.00022
		<u>\$/kW</u>
SC2D	1,100,518	\$0.08
SC3-Secondary	849,167	\$0.14
SC3-Primary	349,727	\$0.05
SC3-Subtransmission/Transmission	139,302	\$0.04
SC3A-Secondary/Primary	172,834	\$0.00
SC3A-Sub Transmission	267,823	\$0.00
SC3A-Transmission	961,439	\$0.01
Streetlighting	10,936,896	\$0.00028

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