

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: OCTOBER 28, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 1 OF 12

Value Stack Cost Recovery Mechanisms
VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)
Capacity Market Value Cost Recovery - ALTERNATIVE 1
Rule 40.3.2.1

Average Monthly NYISO Spot Auction Capacity Price: \$3.15/kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 125,789 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$396,131.16

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$169,148.00
SC1C	0.84%	\$3,327.50
SC2ND	2.60%	\$10,299.41
SC2D	13.77%	\$54,547.26
SC3-Secondary	12.44%	\$49,278.72
SC3-Primary	5.03%	\$19,925.40
SC3-Subtransmission/Transmission	1.79%	\$7,090.75
SC3A-Secondary/Primary	2.46%	\$9,744.83
SC3A-Sub Transmission	3.83%	\$15,171.82
SC3A-Transmission	14.53%	\$57,557.86
Streetlighting	0.01%	\$39.61
Total	100.00%	\$396,131.16

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00020
SC1C	21,013,559	\$0.00016
SC2ND	56,618,681	\$0.00018
		<u>\$/kW</u>
SC2D	1,086,582	\$0.05
SC3-Secondary	852,997	\$0.06
SC3-Primary	353,924	\$0.06
SC3-Subtransmission/Transmission	142,646	\$0.05
SC3A-Secondary/Primary	184,399	\$0.05
SC3A-Sub Transmission	285,335	\$0.05
SC3A-Transmission	1,041,063	\$0.06
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

Issued by: Rudolph L. Wynter, President, Syracuse, New York

Dated: October 24, 2022

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 2 OF 12

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

Capacity Market Value Cost Recovery - ALTERNATIVE 2
Rule 40.3.2.1

Average Monthly NYISO Spot Auction Capacity Price: \$ 3.15 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 66,277 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 208,717.32

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$89,122.30
SC1C	0.84%	\$1,753.23
SC2ND	2.60%	\$5,426.65
SC2D	13.77%	\$28,740.37
SC3-Secondary	12.44%	\$25,964.43
SC3-Primary	5.03%	\$10,498.48
SC3-Subtransmission/Transmission	1.79%	\$3,736.04
SC3A-Secondary/Primary	2.46%	\$5,134.45
SC3A-Sub Transmission	3.83%	\$7,993.87
SC3A-Transmission	14.53%	\$30,326.63
Streetlighting	0.01%	\$20.87
Total	100.00%	\$208,717.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00010
SC1C	21,013,559	\$0.00008
SC2ND	56,618,681	\$0.00010
		<u>\$/kW</u>
SC2D	1,086,582	\$0.03
SC3-Secondary	852,997	\$0.03
SC3-Primary	353,924	\$0.03
SC3-Subtransmission/Transmission	142,646	\$0.03
SC3A-Secondary/Primary	184,399	\$0.03
SC3A-Sub Transmission	285,335	\$0.03
SC3A-Transmission	1,041,063	\$0.03
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 3 OF 12

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

Capacity Market Value Cost Recovery - ALTERNATIVE 3
Rule 40.3.2.1

Average Monthly NYISO Spot Auction Capacity Price: \$ 3.15 /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: 87 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 273.98

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$116.99
SC1C	0.84%	\$2.30
SC2ND	2.60%	\$7.12
SC2D	13.77%	\$37.73
SC3-Secondary	12.44%	\$34.08
SC3-Primary	5.03%	\$13.78
SC3-Subtransmission/Transmission	1.79%	\$4.90
SC3A-Secondary/Primary	2.46%	\$6.74
SC3A-Sub Transmission	3.83%	\$10.49
SC3A-Transmission	14.53%	\$39.81
Streetlighting	0.01%	\$0.03
Total	100.00%	\$273.98

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	859,723,136	\$0.00000
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,582	\$0.00
SC3-Secondary	852,997	\$0.00
SC3-Primary	353,924	\$0.00
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 4 OF 12

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): \$605,122.45

Total VDER Value Stack Capacity Component Paid to Projects: \$1,471,507.41

Total Capacity Out of Market Value Cost to Recover: **\$866,384.96**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.96%	\$346,203.42
SC1C	0.00%	\$26.41
SC2ND	9.49%	\$82,235.67
SC2D	20.39%	\$176,658.78
SC3	26.87%	\$232,809.48
SC3A	2.61%	\$22,610.40
Streetlighting	0.67%	\$5,840.81
Total	100.00%	\$866,384.96

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	859,723,136	\$0.00040
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00145
		<u>\$/kW</u>
SC2D	1,086,582	\$0.16
SC3	1,349,567	\$0.17
SC3A	1,510,798	\$0.01
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00041

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STATEMENT TYPE: VDER-CR
ATTACHMENT 3 FOR STATEMENT NO. 61
PAGE 5 OF 12

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: \$0.02184 /kWh

Total of VDER Projects' Net Injections during recovery month: 77,890,331 kWh

Total Environmental Market Value Cost to Recover: **\$1,701,124.82**

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 3 Tier 1 REC Sale Price of \$21.84/MWh.

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 6 OF 12

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): \$1,701,124.82

Total VDER Value Stack Environmental Component Paid to Projects: \$2,087,612.18

Total Environmental Out of Market Value Cost to Recover: **\$386,487.36**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	37.75%	\$145,904.75
SC1C	0.01%	\$19.79
SC2ND	12.45%	\$48,120.50
SC2D	20.48%	\$79,156.53
SC3	25.82%	\$99,790.35
SC3A	2.40%	\$9,279.57
Streetlighting	1.09%	\$4,215.88
Total	100.00%	\$386,487.35

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	859,723,136	\$0.00017
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00085
		<u>\$/kW</u>
SC2D	1,086,582	\$0.07
SC3	1,349,567	\$0.07
SC3A	1,510,798	\$0.01
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00029

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: OCTOBER 28, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 7 OF 12

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: \$4,085,641.93

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$2,203,386.69
SC1C	1.11%	\$45,350.63
SC2ND	3.11%	\$127,063.46
SC2D	16.32%	\$666,776.76
SC3-Secondary	15.50%	\$633,274.50
SC3-Primary	6.21%	\$253,718.36
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$124,612.08
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$31,459.44
Total	100.00%	\$4,085,641.93

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	859,723,136	\$0.00256
SC1C	21,013,559	\$0.00216
SC2ND	56,618,681	\$0.00224
		<u>\$/kW</u>
SC2D	1,086,582	\$0.61
SC3-Secondary	852,997	\$0.74
SC3-Primary	353,924	\$0.72
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.68
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00220

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 8 OF 12

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: \$85,397.95

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$36,464.92
SC1C	0.84%	\$717.34
SC2ND	2.60%	\$2,220.35
SC2D	13.77%	\$11,759.30
SC3-Secondary	12.44%	\$10,623.50
SC3-Primary	5.03%	\$4,295.52
SC3-Subtransmission/Transmission	1.79%	\$1,528.62
SC3A-Secondary/Primary	2.46%	\$2,100.79
SC3A-Sub Transmission	3.83%	\$3,270.74
SC3A-Transmission	14.53%	\$12,408.32
Streetlighting	0.01%	\$8.54
Total	100.00%	\$85,397.95

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00004
SC1C	21,013,559	\$0.00003
SC2ND	56,618,681	\$0.00004
		<u>\$/kW</u>
SC2D	1,086,582	\$0.01
SC3-Secondary	852,997	\$0.01
SC3-Primary	353,924	\$0.01
SC3-Subtransmission/Transmission	142,646	\$0.01
SC3A-Secondary/Primary	184,399	\$0.01
SC3A-Sub Transmission	285,335	\$0.01
SC3A-Transmission	1,041,063	\$0.01
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 9 OF 12

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: \$48,451.31

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$26,129.79
SC1C	1.11%	\$537.81
SC2ND	3.11%	\$1,506.84
SC2D	16.32%	\$7,907.25
SC3-Secondary	15.50%	\$7,509.95
SC3-Primary	6.21%	\$3,008.83
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$1,477.76
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$373.08
Total	100.00%	\$48,451.31

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	859,723,136	\$0.00003
SC1C	21,013,559	\$0.00003
SC2ND	56,618,681	\$0.00003
		<u>\$/kW</u>
SC2D	1,086,582	\$0.01
SC3-Secondary	852,997	\$0.01
SC3-Primary	353,924	\$0.01
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.01
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00003

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 10 OF 12

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: \$1,443.85

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$616.52
SC1C	0.84%	\$12.13
SC2ND	2.60%	\$37.54
SC2D	13.77%	\$198.82
SC3-Secondary	12.44%	\$179.61
SC3-Primary	5.03%	\$72.63
SC3-Subtransmission/Transmission	1.79%	\$25.84
SC3A-Secondary/Primary	2.46%	\$35.52
SC3A-Sub Transmission	3.83%	\$55.30
SC3A-Transmission	14.53%	\$209.79
Streetlighting	0.01%	\$0.14
Total	100.00%	\$1,443.85

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00000
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,582	\$0.00
SC3-Secondary	852,997	\$0.00
SC3-Primary	353,924	\$0.00
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 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 Projects: \$79,133.58

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	93.57%	\$74,041.81
SC1C	0.00%	\$0.00
SC2ND	6.43%	\$5,091.77
Total	100.00%	\$79,133.58

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00009
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00009

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
 PAGE 12 OF 12

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: \$1,241,101.87

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	41.95%	\$520,676.88
SC1C	0.00%	\$0.00
SC2ND	7.23%	\$89,671.31
SC2D	21.68%	\$269,079.27
SC3-Secondary	19.89%	\$246,856.87
SC3-Primary	6.49%	\$80,506.10
SC3-Subtransmission/Transmission	1.38%	\$17,110.58
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.50%	\$6,248.83
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.88%	\$10,952.03
Total	100.00%	\$1,241,101.87

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	859,723,136	\$0.00061
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00158
		<u>\$/kW</u>
SC2D	1,086,582	\$0.25
SC3-Secondary	852,997	\$0.29
SC3-Primary	353,924	\$0.23
SC3-Subtransmission/Transmission	142,646	\$0.12
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.02
SC3A-Transmission	1,041,063	\$0.00
Streetlighting	14,310,262	\$0.00077

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