

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: MAY 1, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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

2022 Average Monthly NYISO Spot Auction Capacity Price: \$2.56/kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 143,589 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$367,706.22

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$157,010.55
SC1C	0.84%	\$3,088.73
SC2ND	2.60%	\$9,560.36
SC2D	13.77%	\$50,633.15
SC3-Secondary	12.44%	\$45,742.65
SC3-Primary	5.03%	\$18,495.62
SC3-Subtransmission/Transmission	1.79%	\$6,581.94
SC3A-Secondary/Primary	2.46%	\$9,045.57
SC3A-Sub Transmission	3.83%	\$14,083.15
SC3A-Transmission	14.53%	\$53,427.71
Streetlighting	0.01%	\$36.77
Total	100.00%	\$367,706.22

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00019
SC1C	19,826,372	\$0.00016
SC2ND	53,035,197	\$0.00018
		<u>\$/kW</u>
SC2D	1,017,321	\$0.05
SC3-Secondary	792,985	\$0.06
SC3-Primary	328,028	\$0.06
SC3-Subtransmission/Transmission	131,578	\$0.05
SC3A-Secondary/Primary	167,325	\$0.05
SC3A-Sub Transmission	259,061	\$0.05
SC3A-Transmission	939,192	\$0.06
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00000

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

Dated: April 21, 2023

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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

2022 Average Monthly NYISO Spot Auction Capacity Price: /kW

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

Total Alternative 2 Capacity Market Value Cost to Recover:

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$47,916.88
SC1C	0.84%	\$942.63
SC2ND	2.60%	\$2,917.66
SC2D	13.77%	\$15,452.35
SC3-Secondary	12.44%	\$13,959.86
SC3-Primary	5.03%	\$5,644.54
SC3-Subtransmission/Transmission	1.79%	\$2,008.69
SC3A-Secondary/Primary	2.46%	\$2,760.55
SC3A-Sub Transmission	3.83%	\$4,297.93
SC3A-Transmission	14.53%	\$16,305.20
Streetlighting	0.01%	\$11.22
Total	100.00%	\$112,217.51

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00006
SC1C	19,826,372	\$0.00005
SC2ND	53,035,197	\$0.00006
		<u>\$/kW</u>
SC2D	1,017,321	\$0.02
SC3-Secondary	792,985	\$0.02
SC3-Primary	328,028	\$0.02
SC3-Subtransmission/Transmission	131,578	\$0.02
SC3A-Secondary/Primary	167,325	\$0.02
SC3A-Sub Transmission	259,061	\$0.02
SC3A-Transmission	939,192	\$0.02
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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

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%	\$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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00000
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00000
		<u>\$/kW</u>
SC2D	1,017,321	\$0.00
SC3-Secondary	792,985	\$0.00
SC3-Primary	328,028	\$0.00
SC3-Subtransmission/Transmission	131,578	\$0.00
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.00
SC3A-Transmission	939,192	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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): \$479,936.53

Total VDER Value Stack Capacity Component Paid to Projects: \$569,901.49

Total Capacity Out of Market Value Cost to Recover: \$89,964.96

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	44.91%	\$40,401.50
SC1C	0.00%	\$0.00
SC2ND	3.72%	\$3,345.37
SC2D	20.58%	\$18,517.87
SC3	25.96%	\$23,352.47
SC3A	2.31%	\$2,074.82
Streetlighting	2.53%	\$2,272.92
Total	100.00%	\$89,964.96

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00005
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00006
		<u>\$/kW</u>
SC2D	1,017,321	\$0.02
SC3	1,252,591	\$0.02
SC3A	1,365,578	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00023

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STATEMENT TYPE: VDER-CR
ATTACHMENT 3 FOR STATEMENT NO. 67
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: \$0.02010/kWh

Total of VDER Projects' Net Injections during recovery month: 51,848,881 kWh

Total Environmental Market Value Cost to Recover: **\$1,042,162.51**

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 1 Tier 1 REC Sale Price of \$20.1/MWh.

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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): \$1,042,162.51

Total VDER Value Stack Environmental Component Paid to Projects: \$1,305,228.10

Total Environmental Out of Market Value Cost to Recover: **\$263,065.59**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	43.97%	\$115,661.56
SC1C	0.00%	\$0.00
SC2ND	3.96%	\$10,410.38
SC2D	21.08%	\$55,441.38
SC3	25.81%	\$67,898.12
SC3A	2.94%	\$7,746.72
Streetlighting	2.25%	\$5,907.42
Total	100.00%	\$263,065.59

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00014
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00020
		<u>\$/kW</u>
SC2D	1,017,321	\$0.05
SC3	1,252,591	\$0.05
SC3A	1,365,578	\$0.01
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00059

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$9,395.39

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$5,066.93
SC1C	1.11%	\$104.29
SC2ND	3.11%	\$292.20
SC2D	16.32%	\$1,533.33
SC3-Secondary	15.50%	\$1,456.29
SC3-Primary	6.21%	\$583.45
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$286.56
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$72.34
Total	100.00%	\$9,395.39

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00001
SC1C	19,826,372	\$0.00001
SC2ND	53,035,197	\$0.00001
		<u>\$/kW</u>
SC2D	1,017,321	\$0.00
SC3-Secondary	792,985	\$0.00
SC3-Primary	328,028	\$0.00
SC3-Subtransmission/Transmission	131,578	\$0.00
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.00
SC3A-Transmission	939,192	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00001

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$65.02

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP 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	811,152,017	\$0.00000
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00000
		<u>\$/kW</u>
SC2D	1,017,321	\$0.00
SC3-Secondary	792,985	\$0.00
SC3-Primary	328,028	\$0.00
SC3-Subtransmission/Transmission	131,578	\$0.00
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.00
SC3A-Transmission	939,192	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$2,668.58

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$1,439.17
SC1C	1.11%	\$29.62
SC2ND	3.11%	\$82.99
SC2D	16.32%	\$435.51
SC3-Secondary	15.50%	\$413.63
SC3-Primary	6.21%	\$165.72
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$81.39
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$20.55
Total	100.00%	\$2,668.58

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00000
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00000
		<u>\$/kW</u>
SC2D	1,017,321	\$0.00
SC3-Secondary	792,985	\$0.00
SC3-Primary	328,028	\$0.00
SC3-Subtransmission/Transmission	131,578	\$0.00
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.00
SC3A-Transmission	939,192	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,083,239	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$0.00

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	ICP 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	811,152,017	\$0.00000
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00000
		\$/kW
SC2D	1,017,321	\$0.00
SC3-Secondary	792,985	\$0.00
SC3-Primary	328,028	\$0.00
SC3-Subtransmission/Transmission	131,578	\$0.00
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.00
SC3A-Transmission	939,192	\$0.00
		\$/kWh
Streetlighting	10,083,239	\$0.00000

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STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$37,477.24

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	93.74%	\$35,130.22
SC1C	0.00%	\$0.00
SC2ND	6.26%	\$2,347.02
Total	100.00%	\$37,477.24

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00004
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00004

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 ATTACHMENT 3 FOR STATEMENT NO. 67
 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: \$778,944.28

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	43.28%	\$337,163.74
SC1C	0.00%	\$0.00
SC2ND	3.61%	\$28,085.66
SC2D	21.40%	\$166,702.28
SC3-Secondary	21.77%	\$169,565.95
SC3-Primary	5.78%	\$45,036.52
SC3-Subtransmission/Transmission	1.05%	\$8,157.59
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.25%	\$1,977.33
SC3A-Transmission	0.41%	\$3,174.18
Streetlighting	2.45%	\$19,081.03
Total	100.00%	\$778,944.28

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	811,152,017	\$0.00042
SC1C	19,826,372	\$0.00000
SC2ND	53,035,197	\$0.00053
		<u>\$/kW</u>
SC2D	1,017,321	\$0.16
SC3-Secondary	792,985	\$0.21
SC3-Primary	328,028	\$0.14
SC3-Subtransmission/Transmission	131,578	\$0.06
SC3A-Secondary/Primary	167,325	\$0.00
SC3A-Sub Transmission	259,061	\$0.01
SC3A-Transmission	939,192	\$0.00
Streetlighting	10,083,239	\$0.00189

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