

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: AUGUST 30, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 59
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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

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

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 118,196 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$372,218.90

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$158,937.47
SC1C	0.84%	\$3,126.64
SC2ND	2.60%	\$9,677.69
SC2D	13.77%	\$51,254.54
SC3-Secondary	12.44%	\$46,304.03
SC3-Primary	5.03%	\$18,722.61
SC3-Subtransmission/Transmission	1.79%	\$6,662.72
SC3A-Secondary/Primary	2.46%	\$9,156.59
SC3A-Sub Transmission	3.83%	\$14,255.98
SC3A-Transmission	14.53%	\$54,083.41
Streetlighting	0.01%	\$37.22
Total	100.00%	\$372,218.90

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00015
SC1C	25,075,600	\$0.00012
SC2ND	60,253,249	\$0.00016
		<u>\$/kW</u>
SC2D	1,186,579	\$0.04
SC3-Secondary	952,371	\$0.05
SC3-Primary	383,067	\$0.05
SC3-Subtransmission/Transmission	153,176	\$0.04
SC3A-Secondary/Primary	190,151	\$0.05
SC3A-Sub Transmission	291,898	\$0.05
SC3A-Transmission	1,077,343	\$0.05
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00000

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

Dated: August 19, 2022

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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

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

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 69,161 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 217,797.94

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$92,999.72
SC1C	0.84%	\$1,829.50
SC2ND	2.60%	\$5,662.75
SC2D	13.77%	\$29,990.78
SC3-Secondary	12.44%	\$27,094.06
SC3-Primary	5.03%	\$10,955.24
SC3-Subtransmission/Transmission	1.79%	\$3,898.58
SC3A-Secondary/Primary	2.46%	\$5,357.83
SC3A-Sub Transmission	3.83%	\$8,341.66
SC3A-Transmission	14.53%	\$31,646.04
Streetlighting	0.01%	\$21.78
Total	100.00%	\$217,797.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00009
SC1C	25,075,600	\$0.00007
SC2ND	60,253,249	\$0.00009
		<u>\$/kW</u>
SC2D	1,186,579	\$0.03
SC3-Secondary	952,371	\$0.03
SC3-Primary	383,067	\$0.03
SC3-Subtransmission/Transmission	153,176	\$0.03
SC3A-Secondary/Primary	190,151	\$0.03
SC3A-Sub Transmission	291,898	\$0.03
SC3A-Transmission	1,077,343	\$0.03
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$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

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	1,027,366,425	\$0.00000
SC1C	25,075,600	\$0.00000
SC2ND	60,253,249	\$0.00000
		\$/kW
SC2D	1,186,579	\$0.00
SC3-Secondary	952,371	\$0.00
SC3-Primary	383,067	\$0.00
SC3-Subtransmission/Transmission	153,176	\$0.00
SC3A-Secondary/Primary	190,151	\$0.00
SC3A-Sub Transmission	291,898	\$0.00
SC3A-Transmission	1,077,343	\$0.00
		\$/kWh
Streetlighting	8,679,057	\$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): \$590,290.82

Total VDER Value Stack Capacity Component Paid to Projects: \$1,077,329.35

Total Capacity Out of Market Value Cost to Recover: **\$487,038.53**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.17%	\$190,774.34
SC1C	0.09%	\$436.51
SC2ND	9.68%	\$47,139.51
SC2D	19.70%	\$95,965.23
SC3	26.52%	\$129,178.70
SC3A	3.81%	\$18,539.20
Streetlighting	1.03%	\$5,005.04
Total	100.00%	\$487,038.53

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00019
SC1C	25,075,600	\$0.00002
SC2ND	60,253,249	\$0.00078
		<u>\$/kW</u>
SC2D	1,186,579	\$0.08
SC3	1,488,615	\$0.09
SC3A	1,559,392	\$0.01
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00058

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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: \$0.01956 /kWh

Total of VDER Projects' Net Injections during recovery month: 83,478,566 kWh

Total Environmental Market Value Cost to Recover: **\$1,632,840.75**

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 2 Tier 1 REC Sale Price of \$19.56/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): \$1,632,840.75

Total VDER Value Stack Environmental Component Paid to Projects: \$2,234,752.07

Total Environmental Out of Market Value Cost to Recover: **\$601,911.32**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.42%	\$231,250.92
SC1C	0.10%	\$580.66
SC2ND	8.61%	\$51,843.83
SC2D	21.87%	\$131,652.07
SC3	27.26%	\$164,090.04
SC3A	2.50%	\$15,073.38
Streetlighting	1.23%	\$7,420.42
Total	100.00%	\$601,911.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00023
SC1C	25,075,600	\$0.00002
SC2ND	60,253,249	\$0.00086
		<u>\$/kW</u>
SC2D	1,186,579	\$0.11
SC3	1,488,615	\$0.11
SC3A	1,559,392	\$0.01
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00085

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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: \$1,471,876.58

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$793,783.04
SC1C	1.11%	\$16,337.83
SC2ND	3.11%	\$45,775.36
SC2D	16.32%	\$240,210.26
SC3-Secondary	15.50%	\$228,140.87
SC3-Primary	6.21%	\$91,403.54
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$44,892.24
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$11,333.45
Total	100.00%	\$1,471,876.58

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00077
SC1C	25,075,600	\$0.00065
SC2ND	60,253,249	\$0.00076
		<u>\$/kW</u>
SC2D	1,186,579	\$0.20
SC3-Secondary	952,371	\$0.24
SC3-Primary	383,067	\$0.24
SC3-Subtransmission/Transmission	153,176	\$0.00
SC3A-Secondary/Primary	190,151	\$0.24
SC3A-Sub Transmission	291,898	\$0.00
SC3A-Transmission	1,077,343	\$0.00
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00131

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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: \$17,899.70

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$7,643.17
SC1C	0.84%	\$150.36
SC2ND	2.60%	\$465.39
SC2D	13.77%	\$2,464.79
SC3-Secondary	12.44%	\$2,226.72
SC3-Primary	5.03%	\$900.35
SC3-Subtransmission/Transmission	1.79%	\$320.40
SC3A-Secondary/Primary	2.46%	\$440.33
SC3A-Sub Transmission	3.83%	\$685.56
SC3A-Transmission	14.53%	\$2,600.83
Streetlighting	0.01%	\$1.79
Total	100.00%	\$17,899.70

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00001
SC1C	25,075,600	\$0.00001
SC2ND	60,253,249	\$0.00001
		<u>\$/kW</u>
SC2D	1,186,579	\$0.00
SC3-Secondary	952,371	\$0.00
SC3-Primary	383,067	\$0.00
SC3-Subtransmission/Transmission	153,176	\$0.00
SC3A-Secondary/Primary	190,151	\$0.00
SC3A-Sub Transmission	291,898	\$0.00
SC3A-Transmission	1,077,343	\$0.00
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00000

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Value Stack Cost Recovery Mechanisms
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LSRV Cost Recovery
Rule 40.3.2.6

Total VDER Value Stack LSRV Component Paid to **Secondary/Primary** Projects: \$6,103.81

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$3,291.78
SC1C	1.11%	\$67.75
SC2ND	3.11%	\$189.83
SC2D	16.32%	\$996.14
SC3-Secondary	15.50%	\$946.09
SC3-Primary	6.21%	\$379.05
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$186.17
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$47.00
Total	100.00%	\$6,103.81

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00000
SC1C	25,075,600	\$0.00000
SC2ND	60,253,249	\$0.00000
		<u>\$/kW</u>
SC2D	1,186,579	\$0.00
SC3-Secondary	952,371	\$0.00
SC3-Primary	383,067	\$0.00
SC3-Subtransmission/Transmission	153,176	\$0.00
SC3A-Secondary/Primary	190,151	\$0.00
SC3A-Sub Transmission	291,898	\$0.00
SC3A-Transmission	1,077,343	\$0.00
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$0.00001

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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)	<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

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,027,366,425	\$0.00000
SC1C	25,075,600	\$0.00000
SC2ND	60,253,249	\$0.00000
		<u>\$/kW</u>
SC2D	1,186,579	\$0.00
SC3-Secondary	952,371	\$0.00
SC3-Primary	383,067	\$0.00
SC3-Subtransmission/Transmission	153,176	\$0.00
SC3A-Secondary/Primary	190,151	\$0.00
SC3A-Sub Transmission	291,898	\$0.00
SC3A-Transmission	1,077,343	\$0.00
		<u>\$/kWh</u>
Streetlighting	8,679,057	\$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: \$94,481.25

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	91.43%	\$86,387.76
SC1C	2.22%	\$2,097.32
SC2ND	6.35%	\$5,996.17
Total	100.00%	\$94,481.25

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,027,366,425	\$0.00008
SC1C	25,075,600	\$0.00008
SC2ND	60,253,249	\$0.00010

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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: \$1,334,975.67

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.69%	\$569,925.03
SC1C	0.00%	\$0.00
SC2ND	3.36%	\$44,816.41
SC2D	23.56%	\$314,511.63
SC3-Secondary	21.10%	\$281,681.65
SC3-Primary	6.48%	\$86,480.70
SC3-Subtransmission/Transmission	1.43%	\$19,033.01
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.51%	\$6,748.87
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.88%	\$11,778.37
Total	100.00%	\$1,334,975.67

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,027,366,425	\$0.00055
SC1C	25,075,600	\$0.00000
SC2ND	60,253,249	\$0.00074
		<u>\$/kW</u>
SC2D	1,186,579	\$0.27
SC3-Secondary	952,371	\$0.30
SC3-Primary	383,067	\$0.23
SC3-Subtransmission/Transmission	153,176	\$0.12
SC3A-Secondary/Primary	190,151	\$0.00
SC3A-Sub Transmission	291,898	\$0.02
SC3A-Transmission	1,077,343	\$0.00
Streetlighting	8,679,057	\$0.00136

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