

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 74
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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: 148,317 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$379,815.63

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$162,181.27
SC1C	0.84%	\$3,190.45
SC2ND	2.60%	\$9,875.21
SC2D	13.77%	\$52,300.61
SC3-Secondary	12.44%	\$47,249.06
SC3-Primary	5.03%	\$19,104.73
SC3-Subtransmission/Transmission	1.79%	\$6,798.70
SC3A-Secondary/Primary	2.46%	\$9,343.46
SC3A-Sub Transmission	3.83%	\$14,546.94
SC3A-Transmission	14.53%	\$55,187.21
Streetlighting	0.01%	\$37.98
Total	100.00%	\$379,815.63

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00016
SC1C	23,834,323	\$0.00013
SC2ND	61,816,380	\$0.00016
		<u>\$/kW</u>
SC2D	1,174,157	\$0.04
SC3-Secondary	917,810	\$0.05
SC3-Primary	379,759	\$0.05
SC3-Subtransmission/Transmission	153,085	\$0.04
SC3A-Secondary/Primary	183,636	\$0.05
SC3A-Sub Transmission	280,921	\$0.05
SC3A-Transmission	1,060,989	\$0.05
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$0.00000

Issued by: Rudolph L. Wynter, President, Syracuse, New York
 Dated: November 17, 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: 48,346 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$123,805.79

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$52,865.07
SC1C	0.84%	\$1,039.97
SC2ND	2.60%	\$3,218.95
SC2D	13.77%	\$17,048.06
SC3-Secondary	12.44%	\$15,401.44
SC3-Primary	5.03%	\$6,227.43
SC3-Subtransmission/Transmission	1.79%	\$2,216.12
SC3A-Secondary/Primary	2.46%	\$3,045.62
SC3A-Sub Transmission	3.83%	\$4,741.76
SC3A-Transmission	14.53%	\$17,988.98
Streetlighting	0.01%	\$12.38
Total	100.00%	\$123,805.79

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	989,446,420	\$0.00005
SC1C	23,834,323	\$0.00004
SC2ND	61,816,380	\$0.00005
		<u>\$/kW</u>
SC2D	1,174,157	\$0.01
SC3-Secondary	917,810	\$0.02
SC3-Primary	379,759	\$0.02
SC3-Subtransmission/Transmission	153,085	\$0.01
SC3A-Secondary/Primary	183,636	\$0.02
SC3A-Sub Transmission	280,921	\$0.02
SC3A-Transmission	1,060,989	\$0.02
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$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: 10 kW

Total Alternative 3 Capacity Market Value Cost to Recover: **\$25.61**

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$10.93
SC1C	0.84%	\$0.22
SC2ND	2.60%	\$0.67
SC2D	13.77%	\$3.53
SC3-Secondary	12.44%	\$3.19
SC3-Primary	5.03%	\$1.29
SC3-Subtransmission/Transmission	1.79%	\$0.46
SC3A-Secondary/Primary	2.46%	\$0.63
SC3A-Sub Transmission	3.83%	\$0.98
SC3A-Transmission	14.53%	\$3.72
Streetlighting	0.01%	\$0.00
Total	100.00%	\$25.61

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	989,446,420	\$0.00000
SC1C	23,834,323	\$0.00000
SC2ND	61,816,380	\$0.00000
		<u>\$/kW</u>
SC2D	1,174,157	\$0.00
SC3-Secondary	917,810	\$0.00
SC3-Primary	379,759	\$0.00
SC3-Subtransmission/Transmission	153,085	\$0.00
SC3A-Secondary/Primary	183,636	\$0.00
SC3A-Sub Transmission	280,921	\$0.00
SC3A-Transmission	1,060,989	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$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): \$503,647.03

Total VDER Value Stack Capacity Component Paid to Projects: \$1,793,455.39

Total Capacity Out of Market Value Cost to Recover: **\$1,289,808.36**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.70%	\$499,122.54
SC1C	5.03%	\$64,882.28
SC2ND	3.42%	\$44,087.88
SC2D	21.00%	\$270,871.07
SC3	26.61%	\$343,219.02
SC3A	3.60%	\$46,444.29
Streetlighting	1.64%	\$21,181.28
Total	100.00%	\$1,289,808.36

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	989,446,420	\$0.00050
SC1C	23,834,323	\$0.00272
SC2ND	61,816,380	\$0.00071
		<u>\$/kW</u>
SC2D	1,174,157	\$0.23
SC3	1,450,654	\$0.24
SC3A	1,525,546	\$0.03
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$0.00145

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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: 94,767,636 kWh

Total Environmental Market Value Cost to Recover: **\$3,470,390.83**

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): \$3,470,390.83

Total VDER Value Stack Environmental Component Paid to Projects: \$2,775,678.56

Total Environmental Out of Market Value Cost to Recover: **-\$694,712.27**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	35.33%	-\$245,458.28
SC1C	4.92%	-\$34,196.78
SC2ND	3.34%	-\$23,209.16
SC2D	22.13%	-\$153,731.45
SC3	27.87%	-\$193,599.50
SC3A	5.19%	-\$36,064.90
Streetlighting	1.22%	-\$8,452.19
Total	100.00%	-\$694,712.27

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	989,446,420	-\$0.00025
SC1C	23,834,323	-\$0.00143
SC2ND	61,816,380	-\$0.00038
		<u>\$/kW</u>
SC2D	1,174,157	-\$0.13
SC3	1,450,654	-\$0.13
SC3A	1,525,546	-\$0.02
		<u>\$/kWh</u>
Streetlighting	14,597,378	-\$0.00058

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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: \$3,106,643.41

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$1,675,412.79
SC1C	1.11%	\$34,483.74
SC2ND	3.11%	\$96,616.61
SC2D	16.32%	\$507,004.20
SC3-Secondary	15.50%	\$481,529.73
SC3-Primary	6.21%	\$192,922.56
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$94,752.62
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$23,921.15
Total	100.00%	\$3,106,643.41

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00169
SC1C	23,834,323	\$0.00145
SC2ND	61,816,380	\$0.00156
		<u>\$/kW</u>
SC2D	1,174,157	\$0.43
SC3-Secondary	917,810	\$0.52
SC3-Primary	379,759	\$0.51
SC3-Subtransmission/Transmission	153,085	\$0.00
SC3A-Secondary/Primary	183,636	\$0.52
SC3A-Sub Transmission	280,921	\$0.00
SC3A-Transmission	1,060,989	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$0.00164

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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: \$180,317.81

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$76,995.70
SC1C	0.84%	\$1,514.67
SC2ND	2.60%	\$4,688.26
SC2D	13.77%	\$24,829.76
SC3-Secondary	12.44%	\$22,431.54
SC3-Primary	5.03%	\$9,069.99
SC3-Subtransmission/Transmission	1.79%	\$3,227.69
SC3A-Secondary/Primary	2.46%	\$4,435.82
SC3A-Sub Transmission	3.83%	\$6,906.17
SC3A-Transmission	14.53%	\$26,200.18
Streetlighting	0.01%	\$18.03
Total	100.00%	\$180,317.81

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00008
SC1C	23,834,323	\$0.00006
SC2ND	61,816,380	\$0.00008
		<u>\$/kW</u>
SC2D	1,174,157	\$0.02
SC3-Secondary	917,810	\$0.02
SC3-Primary	379,759	\$0.02
SC3-Subtransmission/Transmission	153,085	\$0.02
SC3A-Secondary/Primary	183,636	\$0.02
SC3A-Sub Transmission	280,921	\$0.02
SC3A-Transmission	1,060,989	\$0.02
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$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: \$68,130.50

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$36,742.78
SC1C	1.11%	\$756.25
SC2ND	3.11%	\$2,118.86
SC2D	16.32%	\$11,118.90
SC3-Secondary	15.50%	\$10,560.23
SC3-Primary	6.21%	\$4,230.90
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$2,077.98
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$524.60
Total	100.00%	\$68,130.50

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00004
SC1C	23,834,323	\$0.00003
SC2ND	61,816,380	\$0.00003
		<u>\$/kW</u>
SC2D	1,174,157	\$0.01
SC3-Secondary	917,810	\$0.01
SC3-Primary	379,759	\$0.01
SC3-Subtransmission/Transmission	153,085	\$0.00
SC3A-Secondary/Primary	183,636	\$0.01
SC3A-Sub Transmission	280,921	\$0.00
SC3A-Transmission	1,060,989	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$0.00004

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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: \$2,112.40

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$901.99
SC1C	0.84%	\$17.74
SC2ND	2.60%	\$54.92
SC2D	13.77%	\$290.88
SC3-Secondary	12.44%	\$262.78
SC3-Primary	5.03%	\$106.25
SC3-Subtransmission/Transmission	1.79%	\$37.81
SC3A-Secondary/Primary	2.46%	\$51.97
SC3A-Sub Transmission	3.83%	\$80.90
SC3A-Transmission	14.53%	\$306.93
Streetlighting	0.01%	\$0.21
Total	100.00%	\$2,112.40

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00000
SC1C	23,834,323	\$0.00000
SC2ND	61,816,380	\$0.00000
		<u>\$/kW</u>
SC2D	1,174,157	\$0.00
SC3-Secondary	917,810	\$0.00
SC3-Primary	379,759	\$0.00
SC3-Subtransmission/Transmission	153,085	\$0.00
SC3A-Secondary/Primary	183,636	\$0.00
SC3A-Sub Transmission	280,921	\$0.00
SC3A-Transmission	1,060,989	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,597,378	\$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: \$48,908.57

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	74.27%	\$36,324.25
SC1C	19.92%	\$9,742.45
SC2ND	4.83%	\$2,363.29
Total	99.02%	\$48,429.99

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	989,446,420	\$0.00004
SC1C	23,834,323	\$0.00041
SC2ND	61,816,380	\$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: **\$1,318,580.91**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	30.83%	\$406,559.34
SC1C	6.14%	\$80,919.25
SC2ND	3.09%	\$40,716.22
SC2D	24.40%	\$321,796.41
SC3-Secondary	22.29%	\$293,945.77
SC3-Primary	8.04%	\$105,998.87
SC3-Subtransmission/Transmission	0.88%	\$11,625.32
SC3A-Secondary/Primary	0.76%	\$10,073.12
SC3A-Sub Transmission	0.28%	\$3,630.25
SC3A-Transmission	2.16%	\$28,515.40
Streetlighting	1.12%	\$14,800.96
Total	100.00%	\$1,318,580.91

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	989,446,420	\$0.00041
SC1C	23,834,323	\$0.00340
SC2ND	61,816,380	\$0.00066
		<u>\$/kW</u>
SC2D	1,174,157	\$0.27
SC3-Secondary	917,810	\$0.32
SC3-Primary	379,759	\$0.28
SC3-Subtransmission/Transmission	153,085	\$0.08
SC3A-Secondary/Primary	183,636	\$0.05
SC3A-Sub Transmission	280,921	\$0.01
SC3A-Transmission	1,060,989	\$0.03
Streetlighting	14,597,378	\$0.00101

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