

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 71
 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: 136,075 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$348,466.42

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$148,795.16
SC1C	0.84%	\$2,927.12
SC2ND	2.60%	\$9,060.13
SC2D	13.77%	\$47,983.83
SC3-Secondary	12.44%	\$43,349.22
SC3-Primary	5.03%	\$17,527.86
SC3-Subtransmission/Transmission	1.79%	\$6,237.55
SC3A-Secondary/Primary	2.46%	\$8,572.27
SC3A-Sub Transmission	3.83%	\$13,346.26
SC3A-Transmission	14.53%	\$50,632.17
Streetlighting	0.01%	\$34.85
Total	100.00%	\$348,466.42

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00014
SC1C	25,603,430	\$0.00011
SC2ND	62,680,512	\$0.00014
		<u>\$/kW</u>
SC2D	1,202,549	\$0.04
SC3-Secondary	934,367	\$0.05
SC3-Primary	385,986	\$0.05
SC3-Subtransmission/Transmission	154,491	\$0.04
SC3A-Secondary/Primary	194,990	\$0.04
SC3A-Sub Transmission	301,973	\$0.04
SC3A-Transmission	1,091,512	\$0.05
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$0.00000

Issued by: Rudolph L. Wynter, President, Syracuse, New York
 Dated: August 18, 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: 50,581 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$129,528.74

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$55,308.77
SC1C	0.84%	\$1,088.04
SC2ND	2.60%	\$3,367.75
SC2D	13.77%	\$17,836.11
SC3-Secondary	12.44%	\$16,113.38
SC3-Primary	5.03%	\$6,515.30
SC3-Subtransmission/Transmission	1.79%	\$2,318.56
SC3A-Secondary/Primary	2.46%	\$3,186.41
SC3A-Sub Transmission	3.83%	\$4,960.95
SC3A-Transmission	14.53%	\$18,820.53
Streetlighting	0.01%	\$12.95
Total	100.00%	\$129,528.74

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00005
SC1C	25,603,430	\$0.00004
SC2ND	62,680,512	\$0.00005
		<u>\$/kW</u>
SC2D	1,202,549	\$0.01
SC3-Secondary	934,367	\$0.02
SC3-Primary	385,986	\$0.02
SC3-Subtransmission/Transmission	154,491	\$0.02
SC3A-Secondary/Primary	194,990	\$0.02
SC3A-Sub Transmission	301,973	\$0.02
SC3A-Transmission	1,091,512	\$0.02
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$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)	<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	1,047,507,492	\$0.00000
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00000
		<u>\$/kW</u>
SC2D	1,202,549	\$0.00
SC3-Secondary	934,367	\$0.00
SC3-Primary	385,986	\$0.00
SC3-Subtransmission/Transmission	154,491	\$0.00
SC3A-Secondary/Primary	194,990	\$0.00
SC3A-Sub Transmission	301,973	\$0.00
SC3A-Transmission	1,091,512	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$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): \$478,007.97

Total VDER Value Stack Capacity Component Paid to Projects: \$1,559,780.68

Total Capacity Out of Market Value Cost to Recover: **\$1,081,772.71**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	44.53%	\$481,736.46
SC1C	0.00%	\$48.53
SC2ND	3.50%	\$37,899.54
SC2D	20.30%	\$219,619.16
SC3	24.31%	\$262,960.02
SC3A	6.12%	\$66,181.83
Streetlighting	1.23%	\$13,327.18
Total	100.00%	\$1,081,772.71

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00046
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00060
		<u>\$/kW</u>
SC2D	1,202,549	\$0.18
SC3	1,474,844	\$0.18
SC3A	1,588,475	\$0.04
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$0.00113

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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: \$0.02569/kWh

Total of VDER Projects' Net Injections during recovery month: 108,340,192 kWh

Total Environmental Market Value Cost to Recover: **\$2,783,259.53**

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 2 Tier 1 REC Sale Price of \$25.69/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): \$2,783,259.53

Total VDER Value Stack Environmental Component Paid to Projects: \$3,008,474.10

Total Environmental Out of Market Value Cost to Recover: **\$225,214.57**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	40.63%	\$91,506.61
SC1C	0.00%	\$8.28
SC2ND	3.44%	\$7,738.88
SC2D	20.69%	\$46,607.01
SC3	27.69%	\$62,360.34
SC3A	6.53%	\$14,709.04
Streetlighting	1.01%	\$2,284.41
Total	100.00%	\$225,214.57

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,047,507,492	\$0.00009
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00012
		\$/kW
SC2D	1,202,549	\$0.04
SC3	1,474,844	\$0.04
SC3A	1,588,475	\$0.01
		\$/kWh
Streetlighting	11,780,238	\$0.00019

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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: \$1,347,477.46

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$726,694.59
SC1C	1.11%	\$14,957.00
SC2ND	3.11%	\$41,906.55
SC2D	16.32%	\$219,908.32
SC3-Secondary	15.50%	\$208,859.01
SC3-Primary	6.21%	\$83,678.35
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$41,098.06
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$10,375.58
Total	100.00%	\$1,347,477.46

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00069
SC1C	25,603,430	\$0.00058
SC2ND	62,680,512	\$0.00067
		<u>\$/kW</u>
SC2D	1,202,549	\$0.18
SC3-Secondary	934,367	\$0.22
SC3-Primary	385,986	\$0.22
SC3-Subtransmission/Transmission	154,491	\$0.00
SC3A-Secondary/Primary	194,990	\$0.21
SC3A-Sub Transmission	301,973	\$0.00
SC3A-Transmission	1,091,512	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$0.00088

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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: \$14,841.94

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$6,337.51
SC1C	0.84%	\$124.67
SC2ND	2.60%	\$385.89
SC2D	13.77%	\$2,043.74
SC3-Secondary	12.44%	\$1,846.34
SC3-Primary	5.03%	\$746.55
SC3-Subtransmission/Transmission	1.79%	\$265.67
SC3A-Secondary/Primary	2.46%	\$365.11
SC3A-Sub Transmission	3.83%	\$568.45
SC3A-Transmission	14.53%	\$2,156.53
Streetlighting	0.01%	\$1.48
Total	100.00%	\$14,841.94

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00001
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00001
		<u>\$/kW</u>
SC2D	1,202,549	\$0.00
SC3-Secondary	934,367	\$0.00
SC3-Primary	385,986	\$0.00
SC3-Subtransmission/Transmission	154,491	\$0.00
SC3A-Secondary/Primary	194,990	\$0.00
SC3A-Sub Transmission	301,973	\$0.00
SC3A-Transmission	1,091,512	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$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: \$54,003.90

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$29,124.30
SC1C	1.11%	\$599.44
SC2ND	3.11%	\$1,679.52
SC2D	16.32%	\$8,813.44
SC3-Secondary	15.50%	\$8,370.60
SC3-Primary	6.21%	\$3,353.64
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$1,647.12
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$415.83
Total	100.00%	\$54,003.90

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00003
SC1C	25,603,430	\$0.00002
SC2ND	62,680,512	\$0.00003
		<u>\$/kW</u>
SC2D	1,202,549	\$0.01
SC3-Secondary	934,367	\$0.01
SC3-Primary	385,986	\$0.01
SC3-Subtransmission/Transmission	154,491	\$0.00
SC3A-Secondary/Primary	194,990	\$0.01
SC3A-Sub Transmission	301,973	\$0.00
SC3A-Transmission	1,091,512	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$0.00004

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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: \$441.76

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$188.63
SC1C	0.84%	\$3.71
SC2ND	2.60%	\$11.49
SC2D	13.77%	\$60.83
SC3-Secondary	12.44%	\$54.95
SC3-Primary	5.03%	\$22.22
SC3-Subtransmission/Transmission	1.79%	\$7.91
SC3A-Secondary/Primary	2.46%	\$10.87
SC3A-Sub Transmission	3.83%	\$16.92
SC3A-Transmission	14.53%	\$64.19
Streetlighting	0.01%	\$0.04
Total	100.00%	\$441.76

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,047,507,492	\$0.00000
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00000
		<u>\$/kW</u>
SC2D	1,202,549	\$0.00
SC3-Secondary	934,367	\$0.00
SC3-Primary	385,986	\$0.00
SC3-Subtransmission/Transmission	154,491	\$0.00
SC3A-Secondary/Primary	194,990	\$0.00
SC3A-Sub Transmission	301,973	\$0.00
SC3A-Transmission	1,091,512	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,780,238	\$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: \$58,463.51

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.19%	\$55,651.90
SC1C	0.00%	\$0.00
SC2ND	4.81%	\$2,811.61
Total	100.00%	\$58,463.51

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00005
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$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 Projects: \$1,518,826.45

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	40.00%	\$607,476.78
SC1C	0.00%	\$0.00
SC2ND	2.97%	\$45,047.38
SC2D	22.40%	\$340,220.65
SC3-Secondary	22.79%	\$346,169.78
SC3-Primary	8.49%	\$128,900.71
SC3-Subtransmission/Transmission	0.29%	\$4,328.96
SC3A-Secondary/Primary	0.57%	\$8,615.39
SC3A-Sub Transmission	0.32%	\$4,819.17
SC3A-Transmission	1.47%	\$22,293.60
Streetlighting	0.72%	\$10,954.03
Total	100.00%	\$1,518,826.45

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,047,507,492	\$0.00058
SC1C	25,603,430	\$0.00000
SC2ND	62,680,512	\$0.00072
		<u>\$/kW</u>
SC2D	1,202,549	\$0.28
SC3-Secondary	934,367	\$0.37
SC3-Primary	385,986	\$0.33
SC3-Subtransmission/Transmission	154,491	\$0.03
SC3A-Secondary/Primary	194,990	\$0.04
SC3A-Sub Transmission	301,973	\$0.02
SC3A-Transmission	1,091,512	\$0.02
Streetlighting	11,780,238	\$0.00093

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