

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: JULY 31, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 70
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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: 88,892 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$227,638.36

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$97,201.58
SC1C	0.84%	\$1,912.16
SC2ND	2.60%	\$5,918.60
SC2D	13.77%	\$31,345.80
SC3-Secondary	12.44%	\$28,318.21
SC3-Primary	5.03%	\$11,450.21
SC3-Subtransmission/Transmission	1.79%	\$4,074.73
SC3A-Secondary/Primary	2.46%	\$5,599.90
SC3A-Sub Transmission	3.83%	\$8,718.55
SC3A-Transmission	14.53%	\$33,075.85
Streetlighting	0.01%	\$22.76
Total	100.00%	\$227,638.36

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00009
SC1C	26,829,228	\$0.00007
SC2ND	64,277,660	\$0.00009
		<u>\$/kW</u>
SC2D	1,232,488	\$0.03
SC3-Secondary	956,676	\$0.03
SC3-Primary	395,034	\$0.03
SC3-Subtransmission/Transmission	158,006	\$0.03
SC3A-Secondary/Primary	198,954	\$0.03
SC3A-Sub Transmission	308,138	\$0.03
SC3A-Transmission	1,112,747	\$0.03
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$0.00000

Issued by: Rudolph L. Wynter, President, Syracuse, New York
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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: 27,600 kW

Total Alternative 2 Capacity Market Value Cost to Recover: **\$70,679.26**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$30,180.04
SC1C	0.84%	\$593.71
SC2ND	2.60%	\$1,837.66
SC2D	13.77%	\$9,732.53
SC3-Secondary	12.44%	\$8,792.50
SC3-Primary	5.03%	\$3,555.17
SC3-Subtransmission/Transmission	1.79%	\$1,265.16
SC3A-Secondary/Primary	2.46%	\$1,738.71
SC3A-Sub Transmission	3.83%	\$2,707.02
SC3A-Transmission	14.53%	\$10,269.70
Streetlighting	0.01%	\$7.07
Total	100.00%	\$70,679.26

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00003
SC1C	26,829,228	\$0.00002
SC2ND	64,277,660	\$0.00003
		<u>\$/kW</u>
SC2D	1,232,488	\$0.01
SC3-Secondary	956,676	\$0.01
SC3-Primary	395,034	\$0.01
SC3-Subtransmission/Transmission	158,006	\$0.01
SC3A-Secondary/Primary	198,954	\$0.01
SC3A-Sub Transmission	308,138	\$0.01
SC3A-Transmission	1,112,747	\$0.01
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$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	1,097,658,317	\$0.00000
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00000
		<u>\$/kW</u>
SC2D	1,232,488	\$0.00
SC3-Secondary	956,676	\$0.00
SC3-Primary	395,034	\$0.00
SC3-Subtransmission/Transmission	158,006	\$0.00
SC3A-Secondary/Primary	198,954	\$0.00
SC3A-Sub Transmission	308,138	\$0.00
SC3A-Transmission	1,112,747	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$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): \$298,330.43

Total VDER Value Stack Capacity Component Paid to Projects: \$1,130,072.14

Total Capacity Out of Market Value Cost to Recover: **\$831,741.71**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	45.42%	\$377,767.68
SC1C	0.00%	\$0.00
SC2ND	3.71%	\$30,898.75
SC2D	21.77%	\$181,081.57
SC3	23.31%	\$193,904.01
SC3A	4.25%	\$35,347.86
Streetlighting	1.53%	\$12,741.85
Total	100.00%	\$831,741.71

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00034
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00048
		<u>\$/kW</u>
SC2D	1,232,488	\$0.15
SC3	1,509,716	\$0.13
SC3A	1,619,839	\$0.02
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$0.00118

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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: 138,055,116 kWh

Total Environmental Market Value Cost to Recover: **\$3,546,635.93**

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 \$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): \$3,546,635.93

Total VDER Value Stack Environmental Component Paid to Projects: \$3,212,745.52

Total Environmental Out of Market Value Cost to Recover: **-\$333,890.41**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.74%	-\$132,701.98
SC1C	0.00%	\$0.00
SC2ND	3.64%	-\$12,149.09
SC2D	21.95%	-\$73,288.57
SC3	27.10%	-\$90,500.76
SC3A	6.55%	-\$21,881.14
Streetlighting	1.01%	-\$3,368.86
Total	100.00%	-\$333,890.41

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,097,658,317	-\$0.00012
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	-\$0.00019
		<u>\$/kW</u>
SC2D	1,232,488	-\$0.06
SC3	1,509,716	-\$0.06
SC3A	1,619,839	-\$0.01
		<u>\$/kWh</u>
Streetlighting	10,839,338	-\$0.00031

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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: \$8,361.05

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$4,509.11
SC1C	1.11%	\$92.81
SC2ND	3.11%	\$260.03
SC2D	16.32%	\$1,364.52
SC3-Secondary	15.50%	\$1,295.96
SC3-Primary	6.21%	\$519.22
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$255.01
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$64.38
Total	100.00%	\$8,361.05

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00000
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00000
		<u>\$/kW</u>
SC2D	1,232,488	\$0.00
SC3-Secondary	956,676	\$0.00
SC3-Primary	395,034	\$0.00
SC3-Subtransmission/Transmission	158,006	\$0.00
SC3A-Secondary/Primary	198,954	\$0.00
SC3A-Sub Transmission	308,138	\$0.00
SC3A-Transmission	1,112,747	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$0.00001

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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: \$65.02

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP 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	1,097,658,317	\$0.00000
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00000
		<u>\$/kW</u>
SC2D	1,232,488	\$0.00
SC3-Secondary	956,676	\$0.00
SC3-Primary	395,034	\$0.00
SC3-Subtransmission/Transmission	158,006	\$0.00
SC3A-Secondary/Primary	198,954	\$0.00
SC3A-Sub Transmission	308,138	\$0.00
SC3A-Transmission	1,112,747	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$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: \$1,676.26

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$904.01
SC1C	1.11%	\$18.61
SC2ND	3.11%	\$52.13
SC2D	16.32%	\$273.57
SC3-Secondary	15.50%	\$259.82
SC3-Primary	6.21%	\$104.10
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$51.13
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$12.91
Total	100.00%	\$1,676.26

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00000
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00000
		<u>\$/kW</u>
SC2D	1,232,488	\$0.00
SC3-Secondary	956,676	\$0.00
SC3-Primary	395,034	\$0.00
SC3-Subtransmission/Transmission	158,006	\$0.00
SC3A-Secondary/Primary	198,954	\$0.00
SC3A-Sub Transmission	308,138	\$0.00
SC3A-Transmission	1,112,747	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$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 Subtransmission/Transmission Projects: \$0.00

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	1CP 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	1,097,658,317	\$0.00000
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00000
		<u>\$/kW</u>
SC2D	1,232,488	\$0.00
SC3-Secondary	956,676	\$0.00
SC3-Primary	395,034	\$0.00
SC3-Subtransmission/Transmission	158,006	\$0.00
SC3A-Secondary/Primary	198,954	\$0.00
SC3A-Sub Transmission	308,138	\$0.00
SC3A-Transmission	1,112,747	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,839,338	\$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: \$58,616.83

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.19%	\$55,795.22
SC1C	0.00%	\$0.00
SC2ND	4.81%	\$2,821.61
Total	100.00%	\$58,616.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00005
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$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: \$1,660,640.39

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.98%	\$647,350.79
SC1C	0.00%	\$0.00
SC2ND	3.16%	\$52,416.27
SC2D	22.76%	\$378,003.77
SC3-Secondary	22.11%	\$367,207.64
SC3-Primary	9.68%	\$160,725.09
SC3-Subtransmission/Transmission	0.35%	\$5,730.73
SC3A-Secondary/Primary	0.53%	\$8,766.00
SC3A-Sub Transmission	0.50%	\$8,221.37
SC3A-Transmission	1.16%	\$19,261.34
Streetlighting	0.78%	\$12,957.39
Total	100.00%	\$1,660,640.39

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,097,658,317	\$0.00059
SC1C	26,829,228	\$0.00000
SC2ND	64,277,660	\$0.00082
		<u>\$/kW</u>
SC2D	1,232,488	\$0.31
SC3-Secondary	956,676	\$0.38
SC3-Primary	395,034	\$0.41
SC3-Subtransmission/Transmission	158,006	\$0.04
SC3A-Secondary/Primary	198,954	\$0.04
SC3A-Sub Transmission	308,138	\$0.03
SC3A-Transmission	1,112,747	\$0.02
Streetlighting	10,839,338	\$0.00120

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