

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: OCTOBER 28, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 61
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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: 125,789 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$396,131.16

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$169,148.00
SC1C	0.84%	\$3,327.50
SC2ND	2.60%	\$10,299.41
SC2D	13.77%	\$54,547.26
SC3-Secondary	12.44%	\$49,278.72
SC3-Primary	5.03%	\$19,925.40
SC3-Subtransmission/Transmission	1.79%	\$7,090.75
SC3A-Secondary/Primary	2.46%	\$9,744.83
SC3A-Sub Transmission	3.83%	\$15,171.82
SC3A-Transmission	14.53%	\$57,557.86
Streetlighting	0.01%	\$39.61
Total	100.00%	\$396,131.16

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00020
SC1C	21,013,559	\$0.00016
SC2ND	56,618,681	\$0.00018
		<u>\$/kW</u>
SC2D	1,086,582	\$0.05
SC3-Secondary	852,997	\$0.06
SC3-Primary	353,924	\$0.06
SC3-Subtransmission/Transmission	142,646	\$0.05
SC3A-Secondary/Primary	184,399	\$0.05
SC3A-Sub Transmission	285,335	\$0.05
SC3A-Transmission	1,041,063	\$0.06
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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

Dated: October 24, 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: 66,277 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 208,717.32

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$89,122.30
SC1C	0.84%	\$1,753.23
SC2ND	2.60%	\$5,426.65
SC2D	13.77%	\$28,740.37
SC3-Secondary	12.44%	\$25,964.43
SC3-Primary	5.03%	\$10,498.48
SC3-Subtransmission/Transmission	1.79%	\$3,736.04
SC3A-Secondary/Primary	2.46%	\$5,134.45
SC3A-Sub Transmission	3.83%	\$7,993.87
SC3A-Transmission	14.53%	\$30,326.63
Streetlighting	0.01%	\$20.87
Total	100.00%	\$208,717.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00010
SC1C	21,013,559	\$0.00008
SC2ND	56,618,681	\$0.00010
		<u>\$/kW</u>
SC2D	1,086,582	\$0.03
SC3-Secondary	852,997	\$0.03
SC3-Primary	353,924	\$0.03
SC3-Subtransmission/Transmission	142,646	\$0.03
SC3A-Secondary/Primary	184,399	\$0.03
SC3A-Sub Transmission	285,335	\$0.03
SC3A-Transmission	1,041,063	\$0.03
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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)	<u>1CP Allocator</u>	
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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00000
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,582	\$0.00
SC3-Secondary	852,997	\$0.00
SC3-Primary	353,924	\$0.00
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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): \$605,122.45

Total VDER Value Stack Capacity Component Paid to Projects: \$1,471,507.41

Total Capacity Out of Market Value Cost to Recover: **\$866,384.96**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.96%	\$346,203.42
SC1C	0.00%	\$26.41
SC2ND	9.49%	\$82,235.67
SC2D	20.39%	\$176,658.78
SC3	26.87%	\$232,809.48
SC3A	2.61%	\$22,610.40
Streetlighting	0.67%	\$5,840.81
Total	100.00%	\$866,384.96

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	859,723,136	\$0.00040
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00145
		\$/kW
SC2D	1,086,582	\$0.16
SC3	1,349,567	\$0.17
SC3A	1,510,798	\$0.01
		\$/kWh
Streetlighting	14,310,262	\$0.00041

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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: \$0.02184 /kWh

Total of VDER Projects' Net Injections during recovery month: 77,890,331 kWh

Total Environmental Market Value Cost to Recover: **\$1,701,124.82**

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 3 Tier 1 REC Sale Price of \$21.84/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): \$1,701,124.82

Total VDER Value Stack Environmental Component Paid to Projects: \$2,087,612.18

Total Environmental Out of Market Value Cost to Recover: **\$386,487.36**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	37.75%	\$145,904.75
SC1C	0.01%	\$19.79
SC2ND	12.45%	\$48,120.50
SC2D	20.48%	\$79,156.53
SC3	25.82%	\$99,790.35
SC3A	2.40%	\$9,279.57
Streetlighting	1.09%	\$4,215.88
Total	100.00%	\$386,487.35

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00017
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00085
		<u>\$/kW</u>
SC2D	1,086,582	\$0.07
SC3	1,349,567	\$0.07
SC3A	1,510,798	\$0.01
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00029

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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: \$4,085,641.93

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$2,203,386.69
SC1C	1.11%	\$45,350.63
SC2ND	3.11%	\$127,063.46
SC2D	16.32%	\$666,776.76
SC3-Secondary	15.50%	\$633,274.50
SC3-Primary	6.21%	\$253,718.36
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$124,612.08
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$31,459.44
Total	100.00%	\$4,085,641.93

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00256
SC1C	21,013,559	\$0.00216
SC2ND	56,618,681	\$0.00224
		<u>\$/kW</u>
SC2D	1,086,582	\$0.61
SC3-Secondary	852,997	\$0.74
SC3-Primary	353,924	\$0.72
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.68
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00220

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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: \$85,397.95

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$36,464.92
SC1C	0.84%	\$717.34
SC2ND	2.60%	\$2,220.35
SC2D	13.77%	\$11,759.30
SC3-Secondary	12.44%	\$10,623.50
SC3-Primary	5.03%	\$4,295.52
SC3-Subtransmission/Transmission	1.79%	\$1,528.62
SC3A-Secondary/Primary	2.46%	\$2,100.79
SC3A-Sub Transmission	3.83%	\$3,270.74
SC3A-Transmission	14.53%	\$12,408.32
Streetlighting	0.01%	\$8.54
Total	100.00%	\$85,397.95

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00004
SC1C	21,013,559	\$0.00003
SC2ND	56,618,681	\$0.00004
		<u>\$/kW</u>
SC2D	1,086,582	\$0.01
SC3-Secondary	852,997	\$0.01
SC3-Primary	353,924	\$0.01
SC3-Subtransmission/Transmission	142,646	\$0.01
SC3A-Secondary/Primary	184,399	\$0.01
SC3A-Sub Transmission	285,335	\$0.01
SC3A-Transmission	1,041,063	\$0.01
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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: \$48,451.31

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$26,129.79
SC1C	1.11%	\$537.81
SC2ND	3.11%	\$1,506.84
SC2D	16.32%	\$7,907.25
SC3-Secondary	15.50%	\$7,509.95
SC3-Primary	6.21%	\$3,008.83
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$1,477.76
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$373.08
Total	100.00%	\$48,451.31

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00003
SC1C	21,013,559	\$0.00003
SC2ND	56,618,681	\$0.00003
		<u>\$/kW</u>
SC2D	1,086,582	\$0.01
SC3-Secondary	852,997	\$0.01
SC3-Primary	353,924	\$0.01
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.01
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00003

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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: \$1,443.85

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$616.52
SC1C	0.84%	\$12.13
SC2ND	2.60%	\$37.54
SC2D	13.77%	\$198.82
SC3-Secondary	12.44%	\$179.61
SC3-Primary	5.03%	\$72.63
SC3-Subtransmission/Transmission	1.79%	\$25.84
SC3A-Secondary/Primary	2.46%	\$35.52
SC3A-Sub Transmission	3.83%	\$55.30
SC3A-Transmission	14.53%	\$209.79
Streetlighting	0.01%	\$0.14
Total	100.00%	\$1,443.85

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00000
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,582	\$0.00
SC3-Secondary	852,997	\$0.00
SC3-Primary	353,924	\$0.00
SC3-Subtransmission/Transmission	142,646	\$0.00
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.00
SC3A-Transmission	1,041,063	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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: \$79,133.58

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	93.57%	\$74,041.81
SC1C	0.00%	\$0.00
SC2ND	6.43%	\$5,091.77
Total	100.00%	\$79,133.58

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	859,723,136	\$0.00009
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00009

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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: \$1,241,101.87

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	41.95%	\$520,676.88
SC1C	0.00%	\$0.00
SC2ND	7.23%	\$89,671.31
SC2D	21.68%	\$269,079.27
SC3-Secondary	19.89%	\$246,856.87
SC3-Primary	6.49%	\$80,506.10
SC3-Subtransmission/Transmission	1.38%	\$17,110.58
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.50%	\$6,248.83
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.88%	\$10,952.03
Total	100.00%	\$1,241,101.87

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	859,723,136	\$0.00061
SC1C	21,013,559	\$0.00000
SC2ND	56,618,681	\$0.00158
		\$/kW
SC2D	1,086,582	\$0.25
SC3-Secondary	852,997	\$0.29
SC3-Primary	353,924	\$0.23
SC3-Subtransmission/Transmission	142,646	\$0.12
SC3A-Secondary/Primary	184,399	\$0.00
SC3A-Sub Transmission	285,335	\$0.02
SC3A-Transmission	1,041,063	\$0.00
Streetlighting	14,310,262	\$0.00077

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