

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 53
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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: 67,249 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$211,778.94

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$90,429.61
SC1C	0.84%	\$1,778.94
SC2ND	2.60%	\$5,506.25
SC2D	13.77%	\$29,161.96
SC3-Secondary	12.44%	\$26,345.30
SC3-Primary	5.03%	\$10,652.48
SC3-Subtransmission/Transmission	1.79%	\$3,790.84
SC3A-Secondary/Primary	2.46%	\$5,209.76
SC3A-Sub Transmission	3.83%	\$8,111.13
SC3A-Transmission	14.53%	\$30,771.48
Streetlighting	0.01%	\$21.18
Total	100.00%	\$211,778.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	999,388,886	\$0.00009
SC1C	24,392,549	\$0.00007
SC2ND	56,507,389	\$0.00010
		<u>\$/kW</u>
SC2D	1,102,349	\$0.03
SC3-Secondary	893,868	\$0.03
SC3-Primary	360,668	\$0.03
SC3-Subtransmission/Transmission	145,132	\$0.03
SC3A-Secondary/Primary	184,218	\$0.03
SC3A-Sub Transmission	282,513	\$0.03
SC3A-Transmission	1,051,113	\$0.03
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$0.00000

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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: 41,605 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 131,022.02

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$55,946.40
SC1C	0.84%	\$1,100.59
SC2ND	2.60%	\$3,406.57
SC2D	13.77%	\$18,041.73
SC3-Secondary	12.44%	\$16,299.14
SC3-Primary	5.03%	\$6,590.41
SC3-Subtransmission/Transmission	1.79%	\$2,345.29
SC3A-Secondary/Primary	2.46%	\$3,223.14
SC3A-Sub Transmission	3.83%	\$5,018.14
SC3A-Transmission	14.53%	\$19,037.50
Streetlighting	0.01%	\$13.10
Total	100.00%	\$131,022.02

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	999,388,886	\$0.00006
SC1C	24,392,549	\$0.00005
SC2ND	56,507,389	\$0.00006
		<u>\$/kW</u>
SC2D	1,102,349	\$0.02
SC3-Secondary	893,868	\$0.02
SC3-Primary	360,668	\$0.02
SC3-Subtransmission/Transmission	145,132	\$0.02
SC3A-Secondary/Primary	184,218	\$0.02
SC3A-Sub Transmission	282,513	\$0.02
SC3A-Transmission	1,051,113	\$0.02
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$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: 77 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 242.49

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$103.54
SC1C	0.84%	\$2.04
SC2ND	2.60%	\$6.30
SC2D	13.77%	\$33.39
SC3-Secondary	12.44%	\$30.17
SC3-Primary	5.03%	\$12.20
SC3-Subtransmission/Transmission	1.79%	\$4.34
SC3A-Secondary/Primary	2.46%	\$5.97
SC3A-Sub Transmission	3.83%	\$9.29
SC3A-Transmission	14.53%	\$35.23
Streetlighting	0.01%	\$0.02
Total	100.00%	\$242.49

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	999,388,886	\$0.00000
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	\$0.00000
		<u>\$/kW</u>
SC2D	1,102,349	\$0.00
SC3-Secondary	893,868	\$0.00
SC3-Primary	360,668	\$0.00
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.00
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$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): \$343,043.45

Total VDER Value Stack Capacity Component Paid to Projects: \$232,533.18

Total Capacity Out of Market Value Cost to Recover: **-\$110,510.27**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.20%	-\$42,213.35
SC1C	-0.02%	\$19.49
SC2ND	12.48%	-\$13,794.04
SC2D	15.26%	-\$16,861.84
SC3	29.73%	-\$32,858.75
SC3A	2.51%	-\$2,774.40
Streetlighting	1.83%	-\$2,027.38
Total	100.00%	-\$110,510.27

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	999,388,886	-\$0.00004
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	-\$0.00024
		<u>\$/kW</u>
SC2D	1,102,349	-\$0.02
SC3	1,399,667	-\$0.02
SC3A	1,517,844	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	-\$0.00013

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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: \$0.02247 /kWh

Total of VDER Projects' Net Injections during recovery month: 13,359,163 kWh

Total Environmental Market Value Cost to Recover: **\$300,180.39**

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 4 Tier 1 REC Sale Price of \$22.47/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): \$300,180.39

Total VDER Value Stack Environmental Component Paid to Projects: \$345,704.28

Total Environmental Out of Market Value Cost to Recover: **\$45,523.89**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.82%	\$17,672.66
SC1C	-0.01%	-\$3.87
SC2ND	9.84%	\$4,477.40
SC2D	16.18%	\$7,363.83
SC3	31.33%	\$14,261.80
SC3A	1.91%	\$868.73
Streetlighting	1.94%	\$883.35
Total	100.00%	\$45,523.89

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	999,388,886	\$0.00002
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	\$0.00008
		<u>\$/kW</u>
SC2D	1,102,349	\$0.01
SC3	1,399,667	\$0.01
SC3A	1,517,844	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$0.00006

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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: \$33,203.44

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$17,906.62
SC1C	1.11%	\$368.56
SC2ND	3.11%	\$1,032.63
SC2D	16.32%	\$5,418.80
SC3-Secondary	15.50%	\$5,146.53
SC3-Primary	6.21%	\$2,061.93
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$1,012.70
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$255.67
Total	100.00%	\$33,203.44

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	999,388,886	\$0.00002
SC1C	24,392,549	\$0.00002
SC2ND	56,507,389	\$0.00002
		<u>\$/kW</u>
SC2D	1,102,349	\$0.00
SC3-Secondary	893,868	\$0.01
SC3-Primary	360,668	\$0.01
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.01
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$0.00002

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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: \$0.00

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP 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	999,388,886	\$0.00000
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	\$0.00000
		<u>\$/kW</u>
SC2D	1,102,349	\$0.00
SC3-Secondary	893,868	\$0.00
SC3-Primary	360,668	\$0.00
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.00
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$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: \$342.79

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$184.87
SC1C	1.11%	\$3.80
SC2ND	3.11%	\$10.66
SC2D	16.32%	\$55.94
SC3-Secondary	15.50%	\$53.13
SC3-Primary	6.21%	\$21.29
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$10.46
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$2.64
Total	100.00%	\$342.79

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	999,388,886	\$0.00000
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	\$0.00000
		<u>\$/kW</u>
SC2D	1,102,349	\$0.00
SC3-Secondary	893,868	\$0.00
SC3-Primary	360,668	\$0.00
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.00
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$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)	<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	999,388,886	\$0.00000
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	\$0.00000
		<u>\$/kW</u>
SC2D	1,102,349	\$0.00
SC3-Secondary	893,868	\$0.00
SC3-Primary	360,668	\$0.00
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.00
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
		<u>\$/kWh</u>
Streetlighting	15,581,988	\$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: \$13,726.07

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	112.27%	\$15,410.33
SC1C	0.00%	\$0.00
SC2ND	-12.27%	-\$1,684.26
Total	100.00%	\$13,726.07

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	999,388,886	\$0.00002
SC1C	24,392,549	\$0.00000
SC2ND	56,507,389	-\$0.00003

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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: \$214,672.29

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	41.93%	\$90,022.38
SC1C	-0.06%	-\$124.88
SC2ND	6.48%	\$13,902.28
SC2D	18.77%	\$40,286.30
SC3-Secondary	21.34%	\$45,801.64
SC3-Primary	9.62%	\$20,652.62
SC3-Subtransmission/Transmission	0.20%	\$420.00
SC3A-Secondary/Primary	0.02%	\$46.17
SC3A-Sub Transmission	0.32%	\$679.97
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.39%	\$2,985.80
Total	100.00%	\$214,672.29

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	999,388,886	\$0.00009
SC1C	24,392,549	-\$0.00001
SC2ND	56,507,389	\$0.00025
		<u>\$/kW</u>
SC2D	1,102,349	\$0.04
SC3-Secondary	893,868	\$0.05
SC3-Primary	360,668	\$0.06
SC3-Subtransmission/Transmission	145,132	\$0.00
SC3A-Secondary/Primary	184,218	\$0.00
SC3A-Sub Transmission	282,513	\$0.00
SC3A-Transmission	1,051,113	\$0.00
Streetlighting	15,581,988	\$0.00019

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