

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: JUNE 29, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 57
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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: 118,189 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$372,196.86

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$158,928.06
SC1C	0.84%	\$3,126.45
SC2ND	2.60%	\$9,677.12
SC2D	13.77%	\$51,251.51
SC3-Secondary	12.44%	\$46,301.29
SC3-Primary	5.03%	\$18,721.50
SC3-Subtransmission/Transmission	1.79%	\$6,662.32
SC3A-Secondary/Primary	2.46%	\$9,156.04
SC3A-Sub Transmission	3.83%	\$14,255.14
SC3A-Transmission	14.53%	\$54,080.20
Streetlighting	0.01%	\$37.22
Total	100.00%	\$372,196.86

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00014
SC1C	27,321,259	\$0.00011
SC2ND	61,730,089	\$0.00016
		<u>\$/kW</u>
SC2D	1,214,610	\$0.04
SC3-Secondary	971,864	\$0.05
SC3-Primary	390,539	\$0.05
SC3-Subtransmission/Transmission	155,866	\$0.04
SC3A-Secondary/Primary	192,171	\$0.05
SC3A-Sub Transmission	295,091	\$0.05
SC3A-Transmission	1,086,388	\$0.05
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$0.00000

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

Dated: June 15, 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: 41,957 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 132,130.85

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$56,419.87
SC1C	0.84%	\$1,109.90
SC2ND	2.60%	\$3,435.40
SC2D	13.77%	\$18,194.42
SC3-Secondary	12.44%	\$16,437.08
SC3-Primary	5.03%	\$6,646.18
SC3-Subtransmission/Transmission	1.79%	\$2,365.14
SC3A-Secondary/Primary	2.46%	\$3,250.42
SC3A-Sub Transmission	3.83%	\$5,060.61
SC3A-Transmission	14.53%	\$19,198.61
Streetlighting	0.01%	\$13.21
Total	100.00%	\$132,130.85

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00005
SC1C	27,321,259	\$0.00004
SC2ND	61,730,089	\$0.00006
		<u>\$/kW</u>
SC2D	1,214,610	\$0.01
SC3-Secondary	971,864	\$0.02
SC3-Primary	390,539	\$0.02
SC3-Subtransmission/Transmission	155,866	\$0.02
SC3A-Secondary/Primary	192,171	\$0.02
SC3A-Sub Transmission	295,091	\$0.02
SC3A-Transmission	1,086,388	\$0.02
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$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: 195 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 614.09

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$262.22
SC1C	0.84%	\$5.16
SC2ND	2.60%	\$15.97
SC2D	13.77%	\$84.56
SC3-Secondary	12.44%	\$76.39
SC3-Primary	5.03%	\$30.89
SC3-Subtransmission/Transmission	1.79%	\$10.99
SC3A-Secondary/Primary	2.46%	\$15.11
SC3A-Sub Transmission	3.83%	\$23.52
SC3A-Transmission	14.53%	\$89.23
Streetlighting	0.01%	\$0.06
Total	100.00%	\$614.09

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,119,383,926	\$0.00000
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00000
		\$/kW
SC2D	1,214,610	\$0.00
SC3-Secondary	971,864	\$0.00
SC3-Primary	390,539	\$0.00
SC3-Subtransmission/Transmission	155,866	\$0.00
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.00
SC3A-Transmission	1,086,388	\$0.00
		\$/kWh
Streetlighting	10,214,019	\$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): \$504,941.79

Total VDER Value Stack Capacity Component Paid to Projects: \$404,223.40

Total Capacity Out of Market Value Cost to Recover: **-\$100,718.39**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	28.11%	-\$28,316.47
SC1C	0.03%	-\$34.85
SC2ND	25.32%	-\$25,504.15
SC2D	18.07%	-\$18,198.99
SC3	24.39%	-\$24,560.78
SC3A	1.99%	-\$2,002.66
Streetlighting	2.09%	-\$2,100.49
Total	100.00%	-\$100,718.39

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,119,383,926	-\$0.00003
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	-\$0.00041
		<u>\$/kW</u>
SC2D	1,214,610	-\$0.01
SC3	1,518,270	-\$0.02
SC3A	1,573,650	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	-\$0.00021

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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: \$0.02225 /kWh

Total of VDER Projects' Net Injections during recovery month: 60,834,201 kWh

Total Environmental Market Value Cost to Recover: **\$1,353,560.97**

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 1 Tier 1 REC Sale Price of \$22.25/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): \$1,353,560.97

Total VDER Value Stack Environmental Component Paid to Projects: \$1,589,407.44

Total Environmental Out of Market Value Cost to Recover: **\$235,846.47**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	34.22%	\$80,708.46
SC1C	0.03%	\$65.07
SC2ND	18.65%	\$43,981.52
SC2D	20.23%	\$47,721.72
SC3	23.24%	\$54,819.19
SC3A	2.16%	\$5,091.60
Streetlighting	1.47%	\$3,458.91
Total	100.00%	\$235,846.47

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00007
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00071
		<u>\$/kW</u>
SC2D	1,214,610	\$0.04
SC3	1,518,270	\$0.04
SC3A	1,573,650	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$0.00034

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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: \$13,013.85

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$7,018.37
SC1C	1.11%	\$144.45
SC2ND	3.11%	\$404.73
SC2D	16.32%	\$2,123.86
SC3-Secondary	15.50%	\$2,017.15
SC3-Primary	6.21%	\$808.16
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$396.92
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$100.21
Total	100.00%	\$13,013.85

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00001
SC1C	27,321,259	\$0.00001
SC2ND	61,730,089	\$0.00001
		<u>\$/kW</u>
SC2D	1,214,610	\$0.00
SC3-Secondary	971,864	\$0.00
SC3-Primary	390,539	\$0.00
SC3-Subtransmission/Transmission	155,866	\$0.00
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.00
SC3A-Transmission	1,086,388	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$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: \$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	1,119,383,926	\$0.00000
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00000
		<u>\$/kW</u>
SC2D	1,214,610	\$0.00
SC3-Secondary	971,864	\$0.00
SC3-Primary	390,539	\$0.00
SC3-Subtransmission/Transmission	155,866	\$0.00
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.00
SC3A-Transmission	1,086,388	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$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: \$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	1,119,383,926	\$0.00000
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00000
		<u>\$/kW</u>
SC2D	1,214,610	\$0.00
SC3-Secondary	971,864	\$0.00
SC3-Primary	390,539	\$0.00
SC3-Subtransmission/Transmission	155,866	\$0.00
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.00
SC3A-Transmission	1,086,388	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$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	1,119,383,926	\$0.00000
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00000
		<u>\$/kW</u>
SC2D	1,214,610	\$0.00
SC3-Secondary	971,864	\$0.00
SC3-Primary	390,539	\$0.00
SC3-Subtransmission/Transmission	155,866	\$0.00
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.00
SC3A-Transmission	1,086,388	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,214,019	\$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: \$71,705.41

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	92.78%	\$66,528.70
SC1C	0.00%	\$0.00
SC2ND	7.22%	\$5,176.71
Total	100.00%	\$71,705.41

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00006
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00008

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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: \$832,776.21

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.77%	\$322,907.32
SC1C	0.00%	\$0.00
SC2ND	8.47%	\$70,510.14
SC2D	23.05%	\$191,913.71
SC3-Secondary	20.30%	\$169,070.76
SC3-Primary	6.91%	\$57,559.02
SC3-Subtransmission/Transmission	0.60%	\$5,019.65
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.66%	\$5,457.60
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.24%	\$10,338.01
Total	100.00%	\$832,776.21

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,119,383,926	\$0.00029
SC1C	27,321,259	\$0.00000
SC2ND	61,730,089	\$0.00114
		<u>\$/kW</u>
SC2D	1,214,610	\$0.16
SC3-Secondary	971,864	\$0.17
SC3-Primary	390,539	\$0.15
SC3-Subtransmission/Transmission	155,866	\$0.03
SC3A-Secondary/Primary	192,171	\$0.00
SC3A-Sub Transmission	295,091	\$0.02
SC3A-Transmission	1,086,388	\$0.00
Streetlighting	10,214,019	\$0.00101

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