

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 60
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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: 126,301 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$397,742.27

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$169,835.95
SC1C	0.84%	\$3,341.04
SC2ND	2.60%	\$10,341.30
SC2D	13.77%	\$54,769.11
SC3-Secondary	12.44%	\$49,479.14
SC3-Primary	5.03%	\$20,006.44
SC3-Subtransmission/Transmission	1.79%	\$7,119.59
SC3A-Secondary/Primary	2.46%	\$9,784.46
SC3A-Sub Transmission	3.83%	\$15,233.53
SC3A-Transmission	14.53%	\$57,791.95
Streetlighting	0.01%	\$39.77
Total	100.00%	\$397,742.27

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	791,520,991	\$0.00021
SC1C	19,319,766	\$0.00017
SC2ND	55,374,420	\$0.00019
		<u>\$/kW</u>
SC2D	1,086,789	\$0.05
SC3-Secondary	882,957	\$0.06
SC3-Primary	356,462	\$0.06
SC3-Subtransmission/Transmission	143,598	\$0.05
SC3A-Secondary/Primary	182,969	\$0.05
SC3A-Sub Transmission	280,550	\$0.05
SC3A-Transmission	1,045,231	\$0.06
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$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

Average Monthly NYISO Spot Auction Capacity Price: \$ 3.15 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 64,035 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 201,658.15

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$86,108.03
SC1C	0.84%	\$1,693.93
SC2ND	2.60%	\$5,243.11
SC2D	13.77%	\$27,768.33
SC3-Secondary	12.44%	\$25,086.27
SC3-Primary	5.03%	\$10,143.40
SC3-Subtransmission/Transmission	1.79%	\$3,609.68
SC3A-Secondary/Primary	2.46%	\$4,960.79
SC3A-Sub Transmission	3.83%	\$7,723.51
SC3A-Transmission	14.53%	\$29,300.93
Streetlighting	0.01%	\$20.17
Total	100.00%	\$201,658.15

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	791,520,991	\$0.00011
SC1C	19,319,766	\$0.00009
SC2ND	55,374,420	\$0.00009
		<u>\$/kW</u>
SC2D	1,086,789	\$0.03
SC3-Secondary	882,957	\$0.03
SC3-Primary	356,462	\$0.03
SC3-Subtransmission/Transmission	143,598	\$0.03
SC3A-Secondary/Primary	182,969	\$0.03
SC3A-Sub Transmission	280,550	\$0.03
SC3A-Transmission	1,045,231	\$0.03
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$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	791,520,991	\$0.00000
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,789	\$0.00
SC3-Secondary	882,957	\$0.00
SC3-Primary	356,462	\$0.00
SC3-Subtransmission/Transmission	143,598	\$0.00
SC3A-Secondary/Primary	182,969	\$0.00
SC3A-Sub Transmission	280,550	\$0.00
SC3A-Transmission	1,045,231	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$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): \$599,674.39

Total VDER Value Stack Capacity Component Paid to Projects: \$1,740,061.68

Total Capacity Out of Market Value Cost to Recover: **\$1,140,387.29**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	40.23%	\$458,763.78
SC1C	0.00%	\$32.14
SC2ND	7.46%	\$85,053.59
SC2D	21.84%	\$249,074.93
SC3	27.30%	\$311,328.90
SC3A	2.51%	\$28,615.77
Streetlighting	0.66%	\$7,518.18
Total	100.00%	\$1,140,387.29

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	791,520,991	\$0.00058
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00154
		<u>\$/kW</u>
SC2D	1,086,789	\$0.23
SC3	1,383,017	\$0.23
SC3A	1,508,750	\$0.02
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$0.00082

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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: \$0.01956/kWh

Total of VDER Projects' Net Injections during recovery month: 88,057,271 kWh

Total Environmental Market Value Cost to Recover: **\$1,722,400.22**

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 \$19.56/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): \$1,722,400.22

Total VDER Value Stack Environmental Component Paid to Projects: \$2,369,570.93

Total Environmental Out of Market Value Cost to Recover: **\$647,170.71**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.13%	\$253,255.57
SC1C	0.01%	\$37.69
SC2ND	9.28%	\$60,056.78
SC2D	20.83%	\$134,801.88
SC3	27.12%	\$175,485.84
SC3A	2.51%	\$16,242.89
Streetlighting	1.13%	\$7,290.06
Total	100.00%	\$647,170.71

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	791,520,991	\$0.00032
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00108
		<u>\$/kW</u>
SC2D	1,086,789	\$0.12
SC3	1,383,017	\$0.13
SC3A	1,508,750	\$0.01
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$0.00079

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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: \$4,736,620.45

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$2,554,459.41
SC1C	1.11%	\$52,576.49
SC2ND	3.11%	\$147,308.90
SC2D	16.32%	\$773,016.46
SC3-Secondary	15.50%	\$734,176.17
SC3-Primary	6.21%	\$294,144.13
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$144,466.92
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$36,471.98
Total	100.00%	\$4,736,620.45

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	791,520,991	\$0.00323
SC1C	19,319,766	\$0.00272
SC2ND	55,374,420	\$0.00266
		<u>\$/kW</u>
SC2D	1,086,789	\$0.71
SC3-Secondary	882,957	\$0.83
SC3-Primary	356,462	\$0.83
SC3-Subtransmission/Transmission	143,598	\$0.00
SC3A-Secondary/Primary	182,969	\$0.79
SC3A-Sub Transmission	280,550	\$0.00
SC3A-Transmission	1,045,231	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$0.00398

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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: \$94,662.87

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$40,421.05
SC1C	0.84%	\$795.17
SC2ND	2.60%	\$2,461.23
SC2D	13.77%	\$13,035.08
SC3-Secondary	12.44%	\$11,776.06
SC3-Primary	5.03%	\$4,761.54
SC3-Subtransmission/Transmission	1.79%	\$1,694.47
SC3A-Secondary/Primary	2.46%	\$2,328.71
SC3A-Sub Transmission	3.83%	\$3,625.59
SC3A-Transmission	14.53%	\$13,754.52
Streetlighting	0.01%	\$9.47
Total	100.00%	\$94,662.87

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	791,520,991	\$0.00005
SC1C	19,319,766	\$0.00004
SC2ND	55,374,420	\$0.00004
		<u>\$/kW</u>
SC2D	1,086,789	\$0.01
SC3-Secondary	882,957	\$0.01
SC3-Primary	356,462	\$0.01
SC3-Subtransmission/Transmission	143,598	\$0.01
SC3A-Secondary/Primary	182,969	\$0.01
SC3A-Sub Transmission	280,550	\$0.01
SC3A-Transmission	1,045,231	\$0.01
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$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: \$246,236.52

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$132,795.36
SC1C	1.11%	\$2,733.23
SC2ND	3.11%	\$7,657.96
SC2D	16.32%	\$40,185.80
SC3-Secondary	15.50%	\$38,166.66
SC3-Primary	6.21%	\$15,291.29
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$7,510.21
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$1,896.02
Total	100.00%	\$246,236.52

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	791,520,991	\$0.00017
SC1C	19,319,766	\$0.00014
SC2ND	55,374,420	\$0.00014
		<u>\$/kW</u>
SC2D	1,086,789	\$0.04
SC3-Secondary	882,957	\$0.04
SC3-Primary	356,462	\$0.04
SC3-Subtransmission/Transmission	143,598	\$0.00
SC3A-Secondary/Primary	182,969	\$0.04
SC3A-Sub Transmission	280,550	\$0.00
SC3A-Transmission	1,045,231	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$0.00021

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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: \$2,404.77

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$1,026.84
SC1C	0.84%	\$20.20
SC2ND	2.60%	\$62.52
SC2D	13.77%	\$331.14
SC3-Secondary	12.44%	\$299.15
SC3-Primary	5.03%	\$120.96
SC3-Subtransmission/Transmission	1.79%	\$43.05
SC3A-Secondary/Primary	2.46%	\$59.16
SC3A-Sub Transmission	3.83%	\$92.10
SC3A-Transmission	14.53%	\$349.41
Streetlighting	0.01%	\$0.24
Total	100.00%	\$2,404.77

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	791,520,991	\$0.00000
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00000
		<u>\$/kW</u>
SC2D	1,086,789	\$0.00
SC3-Secondary	882,957	\$0.00
SC3-Primary	356,462	\$0.00
SC3-Subtransmission/Transmission	143,598	\$0.00
SC3A-Secondary/Primary	182,969	\$0.00
SC3A-Sub Transmission	280,550	\$0.00
SC3A-Transmission	1,045,231	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,170,306	\$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: \$87,203.32

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	93.55%	\$81,580.57
SC1C	0.00%	\$0.00
SC2ND	6.45%	\$5,622.75
Total	100.00%	\$87,203.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	791,520,991	\$0.00010
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00010

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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: \$1,423,091.94

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	43.25%	\$615,492.74
SC1C	0.00%	\$0.00
SC2ND	2.58%	\$36,763.28
SC2D	23.57%	\$335,390.69
SC3-Secondary	20.90%	\$297,463.18
SC3-Primary	6.95%	\$98,933.47
SC3-Subtransmission/Transmission	1.43%	\$20,409.03
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.48%	\$6,884.45
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.83%	\$11,755.10
Total	100.00%	\$1,423,091.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	791,520,991	\$0.00078
SC1C	19,319,766	\$0.00000
SC2ND	55,374,420	\$0.00066
		<u>\$/kW</u>
SC2D	1,086,789	\$0.31
SC3-Secondary	882,957	\$0.34
SC3-Primary	356,462	\$0.28
SC3-Subtransmission/Transmission	143,598	\$0.14
SC3A-Secondary/Primary	182,969	\$0.00
SC3A-Sub Transmission	280,550	\$0.02
SC3A-Transmission	1,045,231	\$0.00
Streetlighting	9,170,306	\$0.00128

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