

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: MAY 31, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 56
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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: 118,379 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$372,793.63

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$159,182.88
SC1C	0.84%	\$3,131.47
SC2ND	2.60%	\$9,692.63
SC2D	13.77%	\$51,333.68
SC3-Secondary	12.44%	\$46,375.53
SC3-Primary	5.03%	\$18,751.52
SC3-Subtransmission/Transmission	1.79%	\$6,673.01
SC3A-Secondary/Primary	2.46%	\$9,170.72
SC3A-Sub Transmission	3.83%	\$14,278.00
SC3A-Transmission	14.53%	\$54,166.91
Streetlighting	0.01%	\$37.28
Total	100.00%	\$372,793.63

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00018
SC1C	22,103,933	\$0.00014
SC2ND	57,012,809	\$0.00017
		<u>\$/kW</u>
SC2D	1,119,788	\$0.05
SC3-Secondary	907,319	\$0.05
SC3-Primary	366,003	\$0.05
SC3-Subtransmission/Transmission	147,205	\$0.05
SC3A-Secondary/Primary	186,524	\$0.05
SC3A-Sub Transmission	286,070	\$0.05
SC3A-Transmission	1,063,688	\$0.05
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$0.00000

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

Dated: May 17, 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: 50,301 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 158,405.92

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$67,639.33
SC1C	0.84%	\$1,330.61
SC2ND	2.60%	\$4,118.55
SC2D	13.77%	\$21,812.49
SC3-Secondary	12.44%	\$19,705.70
SC3-Primary	5.03%	\$7,967.82
SC3-Subtransmission/Transmission	1.79%	\$2,835.47
SC3A-Secondary/Primary	2.46%	\$3,896.79
SC3A-Sub Transmission	3.83%	\$6,066.95
SC3A-Transmission	14.53%	\$23,016.38
Streetlighting	0.01%	\$15.84
Total	100.00%	\$158,405.92

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00007
SC1C	22,103,933	\$0.00006
SC2ND	57,012,809	\$0.00007
		<u>\$/kW</u>
SC2D	1,119,788	\$0.02
SC3-Secondary	907,319	\$0.02
SC3-Primary	366,003	\$0.02
SC3-Subtransmission/Transmission	147,205	\$0.02
SC3A-Secondary/Primary	186,524	\$0.02
SC3A-Sub Transmission	286,070	\$0.02
SC3A-Transmission	1,063,688	\$0.02
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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: 51 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 160.61

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$68.58
SC1C	0.84%	\$1.35
SC2ND	2.60%	\$4.18
SC2D	13.77%	\$22.12
SC3-Secondary	12.44%	\$19.98
SC3-Primary	5.03%	\$8.08
SC3-Subtransmission/Transmission	1.79%	\$2.87
SC3A-Secondary/Primary	2.46%	\$3.95
SC3A-Sub Transmission	3.83%	\$6.15
SC3A-Transmission	14.53%	\$23.34
Streetlighting	0.01%	\$0.02
Total	100.00%	\$160.61

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00000
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00000
		<u>\$/kW</u>
SC2D	1,119,788	\$0.00
SC3-Secondary	907,319	\$0.00
SC3-Primary	366,003	\$0.00
SC3-Subtransmission/Transmission	147,205	\$0.00
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.00
SC3A-Transmission	1,063,688	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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): \$531,360.15

Total VDER Value Stack Capacity Component Paid to Projects: \$185,045.18

Total Capacity Out of Market Value Cost to Recover: **-\$346,314.97**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	34.56%	-\$119,677.28
SC1C	0.02%	-\$69.45
SC2ND	15.99%	-\$55,362.08
SC2D	20.22%	-\$70,013.38
SC3	24.37%	-\$84,407.63
SC3A	2.99%	-\$10,368.96
Streetlighting	1.85%	-\$6,416.19
Total	100.00%	-\$346,314.97

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	905,604,549	-\$0.00013
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	-\$0.00097
		\$/kW
SC2D	1,119,788	-\$0.06
SC3	1,420,527	-\$0.06
SC3A	1,536,282	-\$0.01
		\$/kWh
Streetlighting	12,821,378	-\$0.00050

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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: 46,963,053 kWh

Total Environmental Market Value Cost to Recover: **\$1,044,927.93**

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 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): \$1,044,927.93

Total VDER Value Stack Environmental Component Paid to Projects: \$1,219,986.91

Total Environmental Out of Market Value Cost to Recover: **\$175,058.98**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	36.17%	\$63,320.46
SC1C	0.03%	\$44.71
SC2ND	14.81%	\$25,934.41
SC2D	19.23%	\$33,656.81
SC3	25.10%	\$43,937.90
SC3A	3.16%	\$5,540.21
Streetlighting	1.50%	\$2,624.49
Total	100.00%	\$175,058.98

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00007
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00045
		<u>\$/kW</u>
SC2D	1,119,788	\$0.03
SC3	1,420,527	\$0.03
SC3A	1,536,282	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$0.00020

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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: \$11,868.88

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$6,400.89
SC1C	1.11%	\$131.74
SC2ND	3.11%	\$369.12
SC2D	16.32%	\$1,937.00
SC3-Secondary	15.50%	\$1,839.68
SC3-Primary	6.21%	\$737.06
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$362.00
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$91.39
Total	100.00%	\$11,868.88

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00001
SC1C	22,103,933	\$0.00001
SC2ND	57,012,809	\$0.00001
		<u>\$/kW</u>
SC2D	1,119,788	\$0.00
SC3-Secondary	907,319	\$0.00
SC3-Primary	366,003	\$0.00
SC3-Subtransmission/Transmission	147,205	\$0.00
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.00
SC3A-Transmission	1,063,688	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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	905,604,549	\$0.00000
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00000
		<u>\$/kW</u>
SC2D	1,119,788	\$0.00
SC3-Secondary	907,319	\$0.00
SC3-Primary	366,003	\$0.00
SC3-Subtransmission/Transmission	147,205	\$0.00
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.00
SC3A-Transmission	1,063,688	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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: \$2,855.69

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$1,540.07
SC1C	1.11%	\$31.70
SC2ND	3.11%	\$88.81
SC2D	16.32%	\$466.05
SC3-Secondary	15.50%	\$442.63
SC3-Primary	6.21%	\$177.34
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$87.10
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$21.99
Total	100.00%	\$2,855.69

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00000
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00000
		<u>\$/kW</u>
SC2D	1,119,788	\$0.00
SC3-Secondary	907,319	\$0.00
SC3-Primary	366,003	\$0.00
SC3-Subtransmission/Transmission	147,205	\$0.00
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.00
SC3A-Transmission	1,063,688	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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	905,604,549	\$0.00000
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00000
		<u>\$/kW</u>
SC2D	1,119,788	\$0.00
SC3-Secondary	907,319	\$0.00
SC3-Primary	366,003	\$0.00
SC3-Subtransmission/Transmission	147,205	\$0.00
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.00
SC3A-Transmission	1,063,688	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,821,378	\$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: \$51,468.68

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.58%	\$49,192.08
SC1C	0.00%	\$0.00
SC2ND	4.42%	\$2,276.60
Total	100.00%	\$51,468.68

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00005
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$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: \$723,968.25

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	44.54%	\$322,468.78
SC1C	0.00%	\$0.00
SC2ND	2.49%	\$18,049.65
SC2D	22.53%	\$163,124.36
SC3-Secondary	19.21%	\$139,109.46
SC3-Primary	9.23%	\$66,832.94
SC3-Subtransmission/Transmission	0.43%	\$3,144.75
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.46%	\$3,294.14
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.10%	\$7,944.17
Total	100.00%	\$723,968.25

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	905,604,549	\$0.00036
SC1C	22,103,933	\$0.00000
SC2ND	57,012,809	\$0.00032
		<u>\$/kW</u>
SC2D	1,119,788	\$0.15
SC3-Secondary	907,319	\$0.15
SC3-Primary	366,003	\$0.18
SC3-Subtransmission/Transmission	147,205	\$0.02
SC3A-Secondary/Primary	186,524	\$0.00
SC3A-Sub Transmission	286,070	\$0.01
SC3A-Transmission	1,063,688	\$0.00
Streetlighting	12,821,378	\$0.00062

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