

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 55
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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: 124,972 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$393,557.03

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$168,048.85
SC1C	0.84%	\$3,305.88
SC2ND	2.60%	\$10,232.48
SC2D	13.77%	\$54,192.80
SC3-Secondary	12.44%	\$48,958.49
SC3-Primary	5.03%	\$19,795.92
SC3-Subtransmission/Transmission	1.79%	\$7,044.67
SC3A-Secondary/Primary	2.46%	\$9,681.50
SC3A-Sub Transmission	3.83%	\$15,073.23
SC3A-Transmission	14.53%	\$57,183.84
Streetlighting	0.01%	\$39.36
Total	100.00%	\$393,557.03

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	761,609,008	\$0.00022
SC1C	18,589,501	\$0.00018
SC2ND	50,479,742	\$0.00020
		<u>\$/kW</u>
SC2D	1,000,955	\$0.05
SC3-Secondary	824,467	\$0.06
SC3-Primary	334,229	\$0.06
SC3-Subtransmission/Transmission	135,751	\$0.05
SC3A-Secondary/Primary	177,859	\$0.05
SC3A-Sub Transmission	272,387	\$0.06
SC3A-Transmission	1,024,712	\$0.06
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$0.00000

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

Dated: April 22, 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: 46,820 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 147,444.61

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$62,958.85
SC1C	0.84%	\$1,238.53
SC2ND	2.60%	\$3,833.56
SC2D	13.77%	\$20,303.12
SC3-Secondary	12.44%	\$18,342.11
SC3-Primary	5.03%	\$7,416.46
SC3-Subtransmission/Transmission	1.79%	\$2,639.26
SC3A-Secondary/Primary	2.46%	\$3,627.14
SC3A-Sub Transmission	3.83%	\$5,647.13
SC3A-Transmission	14.53%	\$21,423.70
Streetlighting	0.01%	\$14.74
Total	100.00%	\$147,444.61

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	761,609,008	\$0.00008
SC1C	18,589,501	\$0.00007
SC2ND	50,479,742	\$0.00008
		<u>\$/kW</u>
SC2D	1,000,955	\$0.02
SC3-Secondary	824,467	\$0.02
SC3-Primary	334,229	\$0.02
SC3-Subtransmission/Transmission	135,751	\$0.02
SC3A-Secondary/Primary	177,859	\$0.02
SC3A-Sub Transmission	272,387	\$0.02
SC3A-Transmission	1,024,712	\$0.02
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$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)	1CP Allocator	
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)	Forecast	\$/kWh
SC1	761,609,008	\$0.00000
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	\$0.00000
		<u>\$/kW</u>
SC2D	1,000,955	\$0.00
SC3-Secondary	824,467	\$0.00
SC3-Primary	334,229	\$0.00
SC3-Subtransmission/Transmission	135,751	\$0.00
SC3A-Secondary/Primary	177,859	\$0.00
SC3A-Sub Transmission	272,387	\$0.00
SC3A-Transmission	1,024,712	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$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): \$541,162.25

Total VDER Value Stack Capacity Component Paid to Projects: \$399,570.31

Total Capacity Out of Market Value Cost to Recover: **-\$141,591.94**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.92%	-\$60,776.83
SC1C	0.02%	-\$25.82
SC2ND	14.44%	-\$20,440.01
SC2D	17.48%	-\$24,754.01
SC3	22.34%	-\$31,638.15
SC3A	1.34%	-\$1,896.94
Streetlighting	1.46%	-\$2,060.17
Total	100.00%	-\$141,591.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	761,609,008	-\$0.00008
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	-\$0.00040
		<u>\$/kW</u>
SC2D	1,000,955	-\$0.02
SC3	1,294,447	-\$0.02
SC3A	1,474,958	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	-\$0.00016

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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: 36,155,477 kWh

Total Environmental Market Value Cost to Recover: **\$804,459.36**

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): \$804,459.36

Total VDER Value Stack Environmental Component Paid to Projects: \$947,484.29

Total Environmental Out of Market Value Cost to Recover: **\$143,024.93**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	43.69%	\$62,481.52
SC1C	0.02%	\$33.35
SC2ND	13.37%	\$19,129.15
SC2D	17.02%	\$24,341.41
SC3	22.49%	\$32,167.36
SC3A	1.97%	\$2,813.05
Streetlighting	1.44%	\$2,059.09
Total	100.00%	\$143,024.93

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	761,609,008	\$0.00008
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	\$0.00038
		<u>\$/kW</u>
SC2D	1,000,955	\$0.02
SC3	1,294,447	\$0.02
SC3A	1,474,958	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$0.00016

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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: \$48,527.08

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$26,170.65
SC1C	1.11%	\$538.65
SC2ND	3.11%	\$1,509.19
SC2D	16.32%	\$7,919.62
SC3-Secondary	15.50%	\$7,521.70
SC3-Primary	6.21%	\$3,013.53
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$1,480.08
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$373.66
Total	100.00%	\$48,527.08

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	761,609,008	\$0.00003
SC1C	18,589,501	\$0.00003
SC2ND	50,479,742	\$0.00003
		<u>\$/kW</u>
SC2D	1,000,955	\$0.01
SC3-Secondary	824,467	\$0.01
SC3-Primary	334,229	\$0.01
SC3-Subtransmission/Transmission	135,751	\$0.00
SC3A-Secondary/Primary	177,859	\$0.01
SC3A-Sub Transmission	272,387	\$0.00
SC3A-Transmission	1,024,712	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$0.00003

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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	761,609,008	\$0.00000
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	\$0.00000
		<u>\$/kW</u>
SC2D	1,000,955	\$0.00
SC3-Secondary	824,467	\$0.00
SC3-Primary	334,229	\$0.00
SC3-Subtransmission/Transmission	135,751	\$0.00
SC3A-Secondary/Primary	177,859	\$0.00
SC3A-Sub Transmission	272,387	\$0.00
SC3A-Transmission	1,024,712	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$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: \$4,412.41

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$2,379.61
SC1C	1.11%	\$48.98
SC2ND	3.11%	\$137.23
SC2D	16.32%	\$720.11
SC3-Secondary	15.50%	\$683.92
SC3-Primary	6.21%	\$274.01
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$134.58
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$33.98
Total	100.00%	\$4,412.41

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	761,609,008	\$0.00000
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	\$0.00000
		<u>\$/kW</u>
SC2D	1,000,955	\$0.00
SC3-Secondary	824,467	\$0.00
SC3-Primary	334,229	\$0.00
SC3-Subtransmission/Transmission	135,751	\$0.00
SC3A-Secondary/Primary	177,859	\$0.00
SC3A-Sub Transmission	272,387	\$0.00
SC3A-Transmission	1,024,712	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$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)	1CP Allocator	
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)	Forecast	<u>\$/kWh</u>
SC1	761,609,008	\$0.00000
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	\$0.00000
		<u>\$/kW</u>
SC2D	1,000,955	\$0.00
SC3-Secondary	824,467	\$0.00
SC3-Primary	334,229	\$0.00
SC3-Subtransmission/Transmission	135,751	\$0.00
SC3A-Secondary/Primary	177,859	\$0.00
SC3A-Sub Transmission	272,387	\$0.00
SC3A-Transmission	1,024,712	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,926,866	\$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: \$38,079.37

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	101.30%	\$38,575.14
SC1C	0.00%	\$0.00
SC2ND	-1.30%	-\$495.77
Total	100.00%	\$38,079.37

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	761,609,008	\$0.00005
SC1C	18,589,501	\$0.00000
SC2ND	50,479,742	-\$0.00001