

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 30, 2021

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 50
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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: \$1.40/kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 20,624 kW

Total Alternative 1 Capacity Market Value Cost to Recover: **\$28,838.95**

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$11,821.08
SC1C	0.81%	\$233.60
SC2ND	2.54%	\$732.51
SC2D	14.46%	\$4,170.11
SC3-Secondary	13.34%	\$3,847.12
SC3-Primary	5.15%	\$1,485.21
SC3-Subtransmission/Transmission	1.65%	\$475.84
SC3A-Secondary/Primary	2.98%	\$859.40
SC3A-Sub Transmission	3.75%	\$1,081.46
SC3A-Transmission	14.31%	\$4,126.85
Streetlighting	0.02%	\$5.77
Total	100.00%	\$28,838.95

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00001
SC1C	24,873,572	\$0.00001
SC2ND	57,815,741	\$0.00001
		<u>\$/kW</u>
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$0.00000

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

Dated: November 18, 2021

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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: \$ 1.40 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 17,747 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 24,815.80

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$10,172.00
SC1C	0.81%	\$201.01
SC2ND	2.54%	\$630.32
SC2D	14.46%	\$3,588.36
SC3-Secondary	13.34%	\$3,310.43
SC3-Primary	5.15%	\$1,278.01
SC3-Subtransmission/Transmission	1.65%	\$409.46
SC3A-Secondary/Primary	2.98%	\$739.51
SC3A-Sub Transmission	3.75%	\$930.59
SC3A-Transmission	14.31%	\$3,551.14
Streetlighting	0.02%	\$4.96
Total	100.00%	\$24,815.80

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00001
SC1C	24,873,572	\$0.00001
SC2ND	57,815,741	\$0.00001
		\$/kW
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		\$/kWh
Streetlighting	11,984,770	\$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: \$ 1.40 /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: 54 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 75.51

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$30.95
SC1C	0.81%	\$0.61
SC2ND	2.54%	\$1.92
SC2D	14.46%	\$10.92
SC3-Secondary	13.34%	\$10.07
SC3-Primary	5.15%	\$3.89
SC3-Subtransmission/Transmission	1.65%	\$1.25
SC3A-Secondary/Primary	2.98%	\$2.25
SC3A-Sub Transmission	3.75%	\$2.83
SC3A-Transmission	14.31%	\$10.81
Streetlighting	0.02%	\$0.02
Total	100.00%	\$75.51

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00000
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00000
		<u>\$/kW</u>
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$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): \$53,730.26

Total VDER Value Stack Capacity Component Paid to Projects: \$605,981.08

Total Capacity Out of Market Value Cost to Recover: **\$552,250.82**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	44.01%	\$243,042.91
SC1C	0.06%	\$336.51
SC2ND	10.51%	\$58,037.98
SC2D	14.66%	\$80,972.54
SC3	28.68%	\$158,368.13
SC3A	0.01%	\$67.99
Streetlighting	2.07%	\$11,424.78
Total	100.00%	\$552,250.82

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,019,095,006	\$0.00024
SC1C	24,873,572	\$0.00001
SC2ND	57,815,741	\$0.00100
		<u>\$/kW</u>
SC2D	1,136,602	\$0.07
SC3	1,431,149	\$0.11
SC3A	1,515,399	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$0.00095

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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: \$0.02201 /kWh

Total of VDER Projects' Net Injections during recovery month: 36,678,787 kWh

Total Environmental Market Value Cost to Recover: **\$807,300.10**

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 3 Tier 1 REC Sale Price of \$22.01/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): \$807,300.10

Total VDER Value Stack Environmental Component Paid to Projects: \$981,921.91

Total Environmental Out of Market Value Cost to Recover: **\$174,621.81**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.86%	\$74,846.28
SC1C	0.05%	\$80.33
SC2ND	8.68%	\$15,157.57
SC2D	16.11%	\$28,130.52
SC3	27.85%	\$48,638.31
SC3A	2.56%	\$4,462.13
Streetlighting	1.89%	\$3,306.67
Total	100.00%	\$174,621.81

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,019,095,006	\$0.00007
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00026
		<u>\$/kW</u>
SC2D	1,136,602	\$0.02
SC3	1,431,149	\$0.03
SC3A	1,515,399	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$0.00028

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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: \$801,222.82

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$453,892.73
SC1C	1.18%	\$9,454.43
SC2ND	3.30%	\$26,440.35
SC2D	18.62%	\$149,187.69
SC3-Secondary	18.51%	\$148,306.34
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$5,929.05
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$8,012.23
Total	100.00%	\$801,222.82

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,019,095,006	\$0.00045
SC1C	24,873,572	\$0.00038
SC2ND	57,815,741	\$0.00046
		<u>\$/kW</u>
SC2D	1,136,602	\$0.13
SC3-Secondary	915,105	\$0.16
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.03
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$0.00067

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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: (\$3,522.03)

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	-\$1,443.68
SC1C	0.81%	-\$28.53
SC2ND	2.54%	-\$89.46
SC2D	14.46%	-\$509.29
SC3-Secondary	13.34%	-\$469.84
SC3-Primary	5.15%	-\$181.38
SC3-Subtransmission/Transmission	1.65%	-\$58.11
SC3A-Secondary/Primary	2.98%	-\$104.96
SC3A-Sub Transmission	3.75%	-\$132.08
SC3A-Transmission	14.31%	-\$504.00
Streetlighting	0.02%	-\$0.70
Total	100.00%	-\$3,522.03

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00000
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00000
		\$/kW
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		\$/kWh
Streetlighting	11,984,770	\$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: \$1,750.78

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$991.82
SC1C	1.18%	\$20.66
SC2ND	3.30%	\$57.78
SC2D	18.62%	\$326.00
SC3-Secondary	18.51%	\$324.07
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$12.96
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$17.51
Total	100.00%	\$1,750.78

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00000
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00000
		\$/kW
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		\$/kWh
Streetlighting	11,984,770	\$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	40.99%	\$0.00
SC1C	0.81%	\$0.00
SC2ND	2.54%	\$0.00
SC2D	14.46%	\$0.00
SC3-Secondary	13.34%	\$0.00
SC3-Primary	5.15%	\$0.00
SC3-Subtransmission/Transmission	1.65%	\$0.00
SC3A-Secondary/Primary	2.98%	\$0.00
SC3A-Sub Transmission	3.75%	\$0.00
SC3A-Transmission	14.31%	\$0.00
Streetlighting	0.02%	\$0.00
Total	100.00%	\$0.00

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00000
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00000
		<u>\$/kW</u>
SC2D	1,136,602	\$0.00
SC3-Secondary	915,105	\$0.00
SC3-Primary	368,433	\$0.00
SC3-Subtransmission/Transmission	147,611	\$0.00
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.00
SC3A-Transmission	1,047,727	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,984,770	\$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: \$72,823.48

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.57%	\$69,598.28
SC1C	0.00%	\$0.00
SC2ND	4.43%	\$3,225.20
Total	100.00%	\$72,823.48

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,019,095,006	\$0.00007
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00006

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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: \$639,961.83

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	43.15%	\$276,165.05
SC1C	0.00%	\$0.00
SC2ND	1.33%	\$8,516.81
SC2D	19.22%	\$123,009.01
SC3-Secondary	21.42%	\$137,051.27
SC3-Primary	9.10%	\$58,260.17
SC3-Subtransmission/Transmission	0.99%	\$6,309.86
SC3A-Secondary/Primary	0.01%	\$69.50
SC3A-Sub Transmission	3.20%	\$20,510.33
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.57%	\$10,069.83
Total	100.00%	\$639,961.83

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,019,095,006	\$0.00027
SC1C	24,873,572	\$0.00000
SC2ND	57,815,741	\$0.00015
		\$/kW
SC2D	1,136,602	\$0.11
SC3-Secondary	915,105	\$0.15
SC3-Primary	368,433	\$0.16
SC3-Subtransmission/Transmission	147,611	\$0.04
SC3A-Secondary/Primary	184,514	\$0.00
SC3A-Sub Transmission	283,159	\$0.07
SC3A-Transmission	1,047,727	\$0.00
Streetlighting	11,984,770	\$0.00084

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