

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 46
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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: 21,478 kW

Total Alternative 1 Capacity Market Value Cost to Recover: **\$30,033.12**

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$12,310.58
SC1C	0.81%	\$243.27
SC2ND	2.54%	\$762.84
SC2D	14.46%	\$4,342.79
SC3-Secondary	13.34%	\$4,006.42
SC3-Primary	5.15%	\$1,546.71
SC3-Subtransmission/Transmission	1.65%	\$495.55
SC3A-Secondary/Primary	2.98%	\$894.99
SC3A-Sub Transmission	3.75%	\$1,126.24
SC3A-Transmission	14.31%	\$4,297.74
Streetlighting	0.02%	\$6.01
Total	100.00%	\$30,033.12

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00001
SC1C	26,721,880	\$0.00001
SC2ND	56,154,928	\$0.00001
		<u>\$/kW</u>
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$0.00000

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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: 16,357 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 22,872.82

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$9,375.57
SC1C	0.81%	\$185.27
SC2ND	2.54%	\$580.97
SC2D	14.46%	\$3,307.41
SC3-Secondary	13.34%	\$3,051.23
SC3-Primary	5.15%	\$1,177.95
SC3-Subtransmission/Transmission	1.65%	\$377.40
SC3A-Secondary/Primary	2.98%	\$681.61
SC3A-Sub Transmission	3.75%	\$857.73
SC3A-Transmission	14.31%	\$3,273.10
Streetlighting	0.02%	\$4.57
Total	100.00%	\$22,872.82

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00001
SC1C	26,721,880	\$0.00001
SC2ND	56,154,928	\$0.00001
		<u>\$/kW</u>
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$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	1,055,803,902	\$0.00000
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00000
		<u>\$/kW</u>
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$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): \$52,981.45

Total VDER Value Stack Capacity Component Paid to Projects: \$445,451.71

Total Capacity Out of Market Value Cost to Recover: **\$392,470.26**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.47%	\$166,692.97
SC1C	0.02%	\$78.43
SC2ND	11.77%	\$46,206.00
SC2D	14.40%	\$56,501.69
SC3	26.25%	\$103,013.47
SC3A	3.90%	\$15,301.84
Streetlighting	1.19%	\$4,675.86
Total	100.00%	\$392,470.26

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,055,803,902	\$0.00016
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00082
		<u>\$/kW</u>
SC2D	1,165,229	\$0.05
SC3	1,444,868	\$0.07
SC3A	1,543,544	\$0.01
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$0.00037

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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: \$0.02256 /kWh

Total of VDER Projects' Net Injections during recovery month: 39,581,874 kWh

Total Environmental Market Value Cost to Recover: **\$892,967.08**

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 \$22.56/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): \$892,967.08

Total VDER Value Stack Environmental Component Paid to Projects: \$1,022,475.00

Total Environmental Out of Market Value Cost to Recover: **\$129,507.92**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	41.99%	\$54,383.48
SC1C	0.03%	\$32.94
SC2ND	4.59%	\$5,940.17
SC2D	19.46%	\$25,197.28
SC3	29.34%	\$37,994.42
SC3A	3.68%	\$4,762.26
Streetlighting	0.92%	\$1,197.37
Total	100.00%	\$129,507.92

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,055,803,902	\$0.00005
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00011
		<u>\$/kW</u>
SC2D	1,165,229	\$0.02
SC3	1,444,868	\$0.03
SC3A	1,543,544	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$0.00009

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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: \$11,972.40

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$6,782.36
SC1C	1.18%	\$141.27
SC2ND	3.30%	\$395.09
SC2D	18.62%	\$2,229.26
SC3-Secondary	18.51%	\$2,216.09
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$88.60
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$119.72
Total	100.00%	\$11,972.40

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00001
SC1C	26,721,880	\$0.00001
SC2ND	56,154,928	\$0.00001
		\$/kW
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		\$/kWh
Streetlighting	12,717,374	\$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: \$282.11

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	40.99%	\$115.64
SC1C	0.81%	\$2.29
SC2ND	2.54%	\$7.17
SC2D	14.46%	\$40.79
SC3-Secondary	13.34%	\$37.63
SC3-Primary	5.15%	\$14.53
SC3-Subtransmission/Transmission	1.65%	\$4.65
SC3A-Secondary/Primary	2.98%	\$8.41
SC3A-Sub Transmission	3.75%	\$10.58
SC3A-Transmission	14.31%	\$40.37
Streetlighting	0.02%	\$0.06
Total	100.00%	\$282.11

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,055,803,902	\$0.00000
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00000
		<u>\$/kW</u>
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$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: \$1,695.48

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$960.49
SC1C	1.18%	\$20.01
SC2ND	3.30%	\$55.95
SC2D	18.62%	\$315.70
SC3-Secondary	18.51%	\$313.83
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$12.55
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$16.95
Total	100.00%	\$1,695.48

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00000
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00000
		\$/kW
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		\$/kWh
Streetlighting	12,717,374	\$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	1,055,803,902	\$0.00000
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00000
		<u>\$/kW</u>
SC2D	1,165,229	\$0.00
SC3-Secondary	915,120	\$0.00
SC3-Primary	378,617	\$0.00
SC3-Subtransmission/Transmission	151,131	\$0.00
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.00
SC3A-Transmission	1,062,818	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,717,374	\$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: \$74,010.04

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	95.28%	\$70,518.10
SC1C	0.00%	\$0.00
SC2ND	4.72%	\$3,491.94
Total	100.00%	\$74,010.04

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00007
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$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: \$696,296.79

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.70%	\$297,296.46
SC1C	0.00%	\$0.00
SC2ND	2.79%	\$19,450.05
SC2D	21.44%	\$149,289.56
SC3-Secondary	21.05%	\$146,541.25
SC3-Primary	9.24%	\$64,352.54
SC3-Subtransmission/Transmission	1.39%	\$9,669.07
SC3A-Secondary/Primary	0.02%	\$131.17
SC3A-Sub Transmission	0.76%	\$5,272.72
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.62%	\$4,293.97
Total	100.00%	\$696,296.79

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,055,803,902	\$0.00028
SC1C	26,721,880	\$0.00000
SC2ND	56,154,928	\$0.00035
		\$/kW
SC2D	1,165,229	\$0.13
SC3-Secondary	915,120	\$0.16
SC3-Primary	378,617	\$0.17
SC3-Subtransmission/Transmission	151,131	\$0.06
SC3A-Secondary/Primary	189,969	\$0.00
SC3A-Sub Transmission	290,757	\$0.02
SC3A-Transmission	1,062,818	\$0.00
Streetlighting	12,717,374	\$0.00034

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