

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: SEPTEMBER 29, 2021

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 48
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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: 21,238 kW

Total Alternative 1 Capacity Market Value Cost to Recover: **\$29,697.80**

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$12,173.13
SC1C	0.81%	\$240.55
SC2ND	2.54%	\$754.32
SC2D	14.46%	\$4,294.30
SC3-Secondary	13.34%	\$3,961.69
SC3-Primary	5.15%	\$1,529.44
SC3-Subtransmission/Transmission	1.65%	\$490.01
SC3A-Secondary/Primary	2.98%	\$884.99
SC3A-Sub Transmission	3.75%	\$1,113.67
SC3A-Transmission	14.31%	\$4,249.76
Streetlighting	0.02%	\$5.94
Total	100.00%	\$29,697.80

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	749,646,824	\$0.00002
SC1C	18,974,057	\$0.00001
SC2ND	48,922,290	\$0.00002
		<u>\$/kW</u>
SC2D	1,017,715	\$0.00
SC3-Secondary	808,776	\$0.00
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.01
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$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: 16,402 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 22,935.88

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$9,401.42
SC1C	0.81%	\$185.78
SC2ND	2.54%	\$582.57
SC2D	14.46%	\$3,316.53
SC3-Secondary	13.34%	\$3,059.65
SC3-Primary	5.15%	\$1,181.20
SC3-Subtransmission/Transmission	1.65%	\$378.44
SC3A-Secondary/Primary	2.98%	\$683.49
SC3A-Sub Transmission	3.75%	\$860.10
SC3A-Transmission	14.31%	\$3,282.12
Streetlighting	0.02%	\$4.59
Total	100.00%	\$22,935.88

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	749,646,824	\$0.00001
SC1C	18,974,057	\$0.00001
SC2ND	48,922,290	\$0.00001
		\$/kW
SC2D	1,017,715	\$0.00
SC3-Secondary	808,776	\$0.00
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.00
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		\$/kWh
Streetlighting	12,300,229	\$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	749,646,824	\$0.00000
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00000
		<u>\$/kW</u>
SC2D	1,017,715	\$0.00
SC3-Secondary	808,776	\$0.00
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.00
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$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): \$52,709.20

Total VDER Value Stack Capacity Component Paid to Projects: \$695,609.66

Total Capacity Out of Market Value Cost to Recover: **\$642,900.46**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	38.15%	\$245,257.87
SC1C	0.01%	\$77.89
SC2ND	7.34%	\$47,197.54
SC2D	21.02%	\$135,133.89
SC3	30.17%	\$193,941.18
SC3A	2.09%	\$13,439.24
Streetlighting	1.22%	\$7,852.87
Total	100.00%	\$642,900.46

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	749,646,824	\$0.00033
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00096
		<u>\$/kW</u>
SC2D	1,017,715	\$0.13
SC3	1,280,383	\$0.15
SC3A	1,429,670	\$0.01
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$0.00064

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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: 33,958,972 kWh

Total Environmental Market Value Cost to Recover: **\$766,114.41**

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): \$766,114.41

Total VDER Value Stack Environmental Component Paid to Projects: \$898,046.35

Total Environmental Out of Market Value Cost to Recover: **\$131,931.94**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.31%	\$51,860.97
SC1C	0.02%	\$21.83
SC2ND	7.94%	\$10,478.12
SC2D	18.67%	\$24,634.17
SC3	30.00%	\$39,579.21
SC3A	2.40%	\$3,161.22
Streetlighting	1.66%	\$2,196.42
Total	100.00%	\$131,931.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	749,646,824	\$0.00007
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00021
		<u>\$/kW</u>
SC2D	1,017,715	\$0.02
SC3	1,280,383	\$0.03
SC3A	1,429,670	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$0.00018

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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: \$1,918,717.70

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$1,086,953.58
SC1C	1.18%	\$22,640.87
SC2ND	3.30%	\$63,317.68
SC2D	18.62%	\$357,265.24
SC3-Secondary	18.51%	\$355,154.65
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$14,198.51
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$19,187.18
Total	100.00%	\$1,918,717.70

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	749,646,824	\$0.00145
SC1C	18,974,057	\$0.00119
SC2ND	48,922,290	\$0.00129
		<u>\$/kW</u>
SC2D	1,017,715	\$0.35
SC3-Secondary	808,776	\$0.44
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.08
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$0.00156

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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: \$39,560.02

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	40.99%	\$16,215.65
SC1C	0.81%	\$320.44
SC2ND	2.54%	\$1,004.82
SC2D	14.46%	\$5,720.38
SC3-Secondary	13.34%	\$5,277.31
SC3-Primary	5.15%	\$2,037.34
SC3-Subtransmission/Transmission	1.65%	\$652.74
SC3A-Secondary/Primary	2.98%	\$1,178.89
SC3A-Sub Transmission	3.75%	\$1,483.50
SC3A-Transmission	14.31%	\$5,661.04
Streetlighting	0.02%	\$7.91
Total	100.00%	\$39,560.02

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	749,646,824	\$0.00002
SC1C	18,974,057	\$0.00002
SC2ND	48,922,290	\$0.00002
		<u>\$/kW</u>
SC2D	1,017,715	\$0.01
SC3-Secondary	808,776	\$0.01
SC3-Primary	336,307	\$0.01
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.01
SC3A-Sub Transmission	267,554	\$0.01
SC3A-Transmission	987,087	\$0.01
		<u>\$/kWh</u>
Streetlighting	12,300,229	\$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: \$14,728.79

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$8,343.86
SC1C	1.18%	\$173.80
SC2ND	3.30%	\$486.05
SC2D	18.62%	\$2,742.50
SC3-Secondary	18.51%	\$2,726.30
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$108.99
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$147.29
Total	100.00%	\$14,728.79

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	749,646,824	\$0.00001
SC1C	18,974,057	\$0.00001
SC2ND	48,922,290	\$0.00001
		\$/kW
SC2D	1,017,715	\$0.00
SC3-Secondary	808,776	\$0.00
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.00
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		\$/kWh
Streetlighting	12,300,229	\$0.00001

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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	749,646,824	\$0.00000
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00000
		\$/kW
SC2D	1,017,715	\$0.00
SC3-Secondary	808,776	\$0.00
SC3-Primary	336,307	\$0.00
SC3-Subtransmission/Transmission	135,301	\$0.00
SC3A-Secondary/Primary	175,029	\$0.00
SC3A-Sub Transmission	267,554	\$0.00
SC3A-Transmission	987,087	\$0.00
		\$/kWh
Streetlighting	12,300,229	\$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: \$61,384.61

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	94.49%	\$57,999.50
SC1C	0.00%	\$0.00
SC2ND	5.51%	\$3,385.11
Total	100.00%	\$61,384.61

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	749,646,824	\$0.00008
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00007

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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: \$622,812.37

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	40.35%	\$251,300.56
SC1C	0.00%	\$0.00
SC2ND	2.97%	\$18,470.27
SC2D	21.07%	\$131,242.39
SC3-Secondary	22.75%	\$141,685.09
SC3-Primary	8.96%	\$55,786.96
SC3-Subtransmission/Transmission	1.58%	\$9,821.92
SC3A-Secondary/Primary	0.02%	\$116.44
SC3A-Sub Transmission	0.78%	\$4,837.14
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.53%	\$9,551.60
Total	100.00%	\$622,812.37

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	749,646,824	\$0.00034
SC1C	18,974,057	\$0.00000
SC2ND	48,922,290	\$0.00038
		<u>\$/kW</u>
SC2D	1,017,715	\$0.13
SC3-Secondary	808,776	\$0.18
SC3-Primary	336,307	\$0.17
SC3-Subtransmission/Transmission	135,301	\$0.07
SC3A-Secondary/Primary	175,029	\$0.00
SC3A-Sub Transmission	267,554	\$0.02
SC3A-Transmission	987,087	\$0.00
Streetlighting	12,300,229	\$0.00078

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