

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

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 51
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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: 20,709 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$28,957.67

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$11,869.75
SC1C	0.81%	\$234.56
SC2ND	2.54%	\$735.52
SC2D	14.46%	\$4,187.28
SC3-Secondary	13.34%	\$3,862.95
SC3-Primary	5.15%	\$1,491.32
SC3-Subtransmission/Transmission	1.65%	\$477.80
SC3A-Secondary/Primary	2.98%	\$862.94
SC3A-Sub Transmission	3.75%	\$1,085.91
SC3A-Transmission	14.31%	\$4,143.84
Streetlighting	0.02%	\$5.79
Total	100.00%	\$28,957.67

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00001
SC1C	28,008,261	\$0.00001
SC2ND	59,528,440	\$0.00001
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$0.00000

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 Dated: December 21, 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: 17,669 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 24,707.43

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$10,127.58
SC1C	0.81%	\$200.13
SC2ND	2.54%	\$627.57
SC2D	14.46%	\$3,572.69
SC3-Secondary	13.34%	\$3,295.97
SC3-Primary	5.15%	\$1,272.43
SC3-Subtransmission/Transmission	1.65%	\$407.67
SC3A-Secondary/Primary	2.98%	\$736.28
SC3A-Sub Transmission	3.75%	\$926.53
SC3A-Transmission	14.31%	\$3,535.63
Streetlighting	0.02%	\$4.94
Total	100.00%	\$24,707.43

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00001
SC1C	28,008,261	\$0.00001
SC2ND	59,528,440	\$0.00001
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$0.00000

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Value Stack Cost Recovery Mechanisms
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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)	<u>1CP Allocator</u>	
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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00000
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00000
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$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): \$53,740.61

Total VDER Value Stack Capacity Component Paid to Projects: \$313,106.58

Total Capacity Out of Market Value Cost to Recover: **\$259,365.97**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	37.42%	\$97,062.40
SC1C	0.03%	\$83.72
SC2ND	21.36%	\$55,390.55
SC2D	13.52%	\$35,067.36
SC3	24.47%	\$63,455.84
SC3A	1.34%	\$3,467.61
Streetlighting	1.87%	\$4,838.49
Total	100.00%	\$259,365.97

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00008
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00093
		<u>\$/kW</u>
SC2D	1,168,056	\$0.03
SC3	1,462,622	\$0.04
SC3A	1,524,021	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$0.00035

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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: 27,320,190 kWh

Total Environmental Market Value Cost to Recover: **\$601,317.38**

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): \$601,317.38

Total VDER Value Stack Environmental Component Paid to Projects: \$695,346.81

Total Environmental Out of Market Value Cost to Recover: **\$94,029.43**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	41.37%	\$38,897.12
SC1C	0.04%	\$41.45
SC2ND	9.22%	\$8,670.22
SC2D	14.26%	\$13,405.87
SC3	26.58%	\$24,991.14
SC3A	6.60%	\$6,203.99
Streetlighting	1.94%	\$1,819.64
Total	100.00%	\$94,029.43

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00003
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00015
		<u>\$/kW</u>
SC2D	1,168,056	\$0.01
SC3	1,462,622	\$0.02
SC3A	1,524,021	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$0.00013

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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: \$113,173.06

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$64,112.54
SC1C	1.18%	\$1,335.44
SC2ND	3.30%	\$3,734.71
SC2D	18.62%	\$21,072.82
SC3-Secondary	18.51%	\$20,948.33
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$837.48
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$1,131.73
Total	100.00%	\$113,173.06

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00006
SC1C	28,008,261	\$0.00005
SC2ND	59,528,440	\$0.00006
		<u>\$/kW</u>
SC2D	1,168,056	\$0.02
SC3-Secondary	935,994	\$0.02
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$0.00008

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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: \$15,651.65

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	40.99%	\$6,415.61
SC1C	0.81%	\$126.78
SC2ND	2.54%	\$397.55
SC2D	14.46%	\$2,263.23
SC3-Secondary	13.34%	\$2,087.93
SC3-Primary	5.15%	\$806.06
SC3-Subtransmission/Transmission	1.65%	\$258.25
SC3A-Secondary/Primary	2.98%	\$466.42
SC3A-Sub Transmission	3.75%	\$586.94
SC3A-Transmission	14.31%	\$2,239.75
Streetlighting	0.02%	\$3.13
Total	100.00%	\$15,651.65

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00001
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00001
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$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: \$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	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00000
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00000
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$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	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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00000
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00000
		<u>\$/kW</u>
SC2D	1,168,056	\$0.00
SC3-Secondary	935,994	\$0.00
SC3-Primary	376,302	\$0.00
SC3-Subtransmission/Transmission	150,326	\$0.00
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.00
SC3A-Transmission	1,052,516	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,722,209	\$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: \$48,270.33

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	94.38%	\$45,559.45
SC1C	0.00%	\$0.00
SC2ND	5.62%	\$2,710.88
Total	100.00%	\$48,270.33

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,147,542,262	\$0.00004
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	\$0.00005

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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: \$421,501.75

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	45.77%	\$192,938.56
SC1C	0.00%	\$0.00
SC2ND	-2.69%	-\$11,352.83
SC2D	17.96%	\$75,719.16
SC3-Secondary	19.62%	\$82,710.98
SC3-Primary	10.24%	\$43,163.72
SC3-Subtransmission/Transmission	0.80%	\$3,362.98
SC3A-Secondary/Primary	0.01%	\$49.98
SC3A-Sub Transmission	6.65%	\$28,039.36
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.63%	\$6,869.84
Total	100.00%	\$421,501.75

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,147,542,262	\$0.00017
SC1C	28,008,261	\$0.00000
SC2ND	59,528,440	-\$0.00019
		<u>\$/kW</u>
SC2D	1,168,056	\$0.06
SC3-Secondary	935,994	\$0.09
SC3-Primary	376,302	\$0.11
SC3-Subtransmission/Transmission	150,326	\$0.02
SC3A-Secondary/Primary	185,974	\$0.00
SC3A-Sub Transmission	285,531	\$0.10
SC3A-Transmission	1,052,516	\$0.00
Streetlighting	13,722,209	\$0.00050

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