

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: JANUARY 28, 2022

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 52
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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: 19,725 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$27,582.54

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$11,306.08
SC1C	0.81%	\$223.42
SC2ND	2.54%	\$700.60
SC2D	14.46%	\$3,988.44
SC3-Secondary	13.34%	\$3,679.51
SC3-Primary	5.15%	\$1,420.50
SC3-Subtransmission/Transmission	1.65%	\$455.11
SC3A-Secondary/Primary	2.98%	\$821.96
SC3A-Sub Transmission	3.75%	\$1,034.35
SC3A-Transmission	14.31%	\$3,947.06
Streetlighting	0.02%	\$5.52
Total	100.00%	\$27,582.54

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00001
SC1C	25,810,645	\$0.00001
SC2ND	56,761,269	\$0.00001
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$0.00000

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

Dated: January 25, 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: \$ 1.40 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 16,595 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 23,205.20

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$9,511.81
SC1C	0.81%	\$187.96
SC2ND	2.54%	\$589.41
SC2D	14.46%	\$3,355.47
SC3-Secondary	13.34%	\$3,095.57
SC3-Primary	5.15%	\$1,195.07
SC3-Subtransmission/Transmission	1.65%	\$382.89
SC3A-Secondary/Primary	2.98%	\$691.52
SC3A-Sub Transmission	3.75%	\$870.20
SC3A-Transmission	14.31%	\$3,320.66
Streetlighting	0.02%	\$4.64
Total	100.00%	\$23,205.20

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00001
SC1C	25,810,645	\$0.00001
SC2ND	56,761,269	\$0.00001
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$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)	<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	1,057,496,070	\$0.00000
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$0.00000
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$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): \$50,863.26

Total VDER Value Stack Capacity Component Paid to Projects: \$223,874.40

Total Capacity Out of Market Value Cost to Recover: \$173,011.14

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	46.91%	\$81,160.26
SC1C	0.07%	\$119.72
SC2ND	-1.28%	-\$2,214.47
SC2D	16.69%	\$28,873.64
SC3	32.78%	\$56,711.92
SC3A	3.07%	\$5,318.19
Streetlighting	1.76%	\$3,041.89
Total	100.00%	\$173,011.14

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00008
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	-\$0.00004
		<u>\$/kW</u>
SC2D	1,121,851	\$0.03
SC3	1,414,225	\$0.04
SC3A	1,502,675	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$0.00021

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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: \$0.02247 /kWh

Total of VDER Projects' Net Injections during recovery month: 19,584,234 kWh

Total Environmental Market Value Cost to Recover: **\$440,057.74**

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 4 Tier 1 REC Sale Price of \$22.47/MWh.

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Value Stack Cost Recovery Mechanisms
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Environmental Out of Market Value Cost Recovery
Rule 40.3.2.4

VDER Value Stack Environmental Market Value (Rule 40.3.2.3): \$440,057.74

Total VDER Value Stack Environmental Component Paid to Projects: \$488,287.15

Total Environmental Out of Market Value Cost to Recover: **\$48,229.41**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	43.35%	\$20,905.39
SC1C	0.05%	\$22.85
SC2ND	2.52%	\$1,216.62
SC2D	17.84%	\$8,603.81
SC3	31.81%	\$15,339.89
SC3A	2.40%	\$1,158.13
Streetlighting	2.04%	\$982.73
Total	100.00%	\$48,229.41

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00002
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$0.00002
		<u>\$/kW</u>
SC2D	1,121,851	\$0.01
SC3	1,414,225	\$0.01
SC3A	1,502,675	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$0.00007

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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: \$26,614.59

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$15,077.17
SC1C	1.18%	\$314.05
SC2ND	3.30%	\$878.28
SC2D	18.62%	\$4,955.64
SC3-Secondary	18.51%	\$4,926.36
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$196.95
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$266.15
Total	100.00%	\$26,614.59

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00001
SC1C	25,810,645	\$0.00001
SC2ND	56,761,269	\$0.00002
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.01
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$0.00002

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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: \$265.73

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	40.99%	\$108.92
SC1C	0.81%	\$2.15
SC2ND	2.54%	\$6.75
SC2D	14.46%	\$38.42
SC3-Secondary	13.34%	\$35.45
SC3-Primary	5.15%	\$13.69
SC3-Subtransmission/Transmission	1.65%	\$4.38
SC3A-Secondary/Primary	2.98%	\$7.92
SC3A-Sub Transmission	3.75%	\$9.96
SC3A-Transmission	14.31%	\$38.03
Streetlighting	0.02%	\$0.05
Total	100.00%	\$265.73

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00000
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$0.00000
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$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: \$6,517.23

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$3,692.01
SC1C	1.18%	\$76.90
SC2ND	3.30%	\$215.07
SC2D	18.62%	\$1,213.51
SC3-Secondary	18.51%	\$1,206.34
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$48.23
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$65.17
Total	100.00%	\$6,517.23

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00000
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$0.00000
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$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	1,057,496,070	\$0.00000
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$0.00000
		<u>\$/kW</u>
SC2D	1,121,851	\$0.00
SC3-Secondary	904,122	\$0.00
SC3-Primary	364,126	\$0.00
SC3-Subtransmission/Transmission	145,977	\$0.00
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.00
SC3A-Transmission	1,039,175	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,512,907	\$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: \$17,493.44

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	84.13%	\$14,718.00
SC1C	0.00%	\$0.00
SC2ND	15.87%	\$2,775.44
Total	100.00%	\$17,493.44

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,057,496,070	\$0.00001
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	\$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: \$321,525.49

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	49.14%	\$157,991.63
SC1C	0.00%	\$0.00
SC2ND	-5.89%	-\$18,953.53
SC2D	21.48%	\$69,067.32
SC3-Secondary	22.16%	\$71,244.23
SC3-Primary	10.54%	\$33,876.25
SC3-Subtransmission/Transmission	0.29%	\$918.01
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.60%	\$1,944.37
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.69%	\$5,437.21
Total	100.00%	\$321,525.49

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,057,496,070	\$0.00015
SC1C	25,810,645	\$0.00000
SC2ND	56,761,269	-\$0.00033
		\$/kW
SC2D	1,121,851	\$0.06
SC3-Secondary	904,122	\$0.08
SC3-Primary	364,126	\$0.09
SC3-Subtransmission/Transmission	145,977	\$0.01
SC3A-Secondary/Primary	182,879	\$0.00
SC3A-Sub Transmission	280,621	\$0.01
SC3A-Transmission	1,039,175	\$0.00
Streetlighting	14,512,907	\$0.00037

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