

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: MAY 31, 2023

STATEMENT TYPE: VDER-CR
 ATTACHMENT 3 FOR STATEMENT NO. 68
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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

2022 Average Monthly NYISO Spot Auction Capacity Price: /kW

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

Total Alternative 1 Capacity Market Value Cost to Recover:

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$161,307.48
SC1C	0.84%	\$3,173.26
SC2ND	2.60%	\$9,822.00
SC2D	13.77%	\$52,018.83
SC3-Secondary	12.44%	\$46,994.50
SC3-Primary	5.03%	\$19,001.79
SC3-Subtransmission/Transmission	1.79%	\$6,762.07
SC3A-Secondary/Primary	2.46%	\$9,293.12
SC3A-Sub Transmission	3.83%	\$14,468.56
SC3A-Transmission	14.53%	\$54,889.87
Streetlighting	0.01%	\$37.78
Total	100.00%	\$377,769.27

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00019
SC1C	20,793,718	\$0.00015
SC2ND	58,884,496	\$0.00017
		<u>\$/kW</u>
SC2D	1,127,215	\$0.05
SC3-Secondary	881,078	\$0.05
SC3-Primary	364,897	\$0.05
SC3-Subtransmission/Transmission	146,639	\$0.05
SC3A-Secondary/Primary	187,678	\$0.05
SC3A-Sub Transmission	290,508	\$0.05
SC3A-Transmission	1,055,847	\$0.05
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$0.00000

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

Dated: May 22, 2023

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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

2022 Average Monthly NYISO Spot Auction Capacity Price: \$2.56/kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 44,528 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$114,027.76

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$48,689.85
SC1C	0.84%	\$957.83
SC2ND	2.60%	\$2,964.72
SC2D	13.77%	\$15,701.62
SC3-Secondary	12.44%	\$14,185.05
SC3-Primary	5.03%	\$5,735.60
SC3-Subtransmission/Transmission	1.79%	\$2,041.10
SC3A-Secondary/Primary	2.46%	\$2,805.08
SC3A-Sub Transmission	3.83%	\$4,367.26
SC3A-Transmission	14.53%	\$16,568.23
Streetlighting	0.01%	\$11.40
Total	100.00%	\$114,027.76

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00006
SC1C	20,793,718	\$0.00005
SC2ND	58,884,496	\$0.00005
		<u>\$/kW</u>
SC2D	1,127,215	\$0.01
SC3-Secondary	881,078	\$0.02
SC3-Primary	364,897	\$0.02
SC3-Subtransmission/Transmission	146,639	\$0.01
SC3A-Secondary/Primary	187,678	\$0.01
SC3A-Sub Transmission	290,508	\$0.02
SC3A-Transmission	1,055,847	\$0.02
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$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

2022 Average Monthly NYISO Spot Auction Capacity Price: /kW

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

Total Alternative 3 Capacity Market Value Cost to Recover:

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	42.70%	\$5.47
SC1C	0.84%	\$0.11
SC2ND	2.60%	\$0.33
SC2D	13.77%	\$1.76
SC3-Secondary	12.44%	\$1.59
SC3-Primary	5.03%	\$0.64
SC3-Subtransmission/Transmission	1.79%	\$0.23
SC3A-Secondary/Primary	2.46%	\$0.31
SC3A-Sub Transmission	3.83%	\$0.49
SC3A-Transmission	14.53%	\$1.86
Streetlighting	0.01%	\$0.00
Total	100.00%	\$12.80

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00000
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00000
		<u>\$/kW</u>
SC2D	1,127,215	\$0.00
SC3-Secondary	881,078	\$0.00
SC3-Primary	364,897	\$0.00
SC3-Subtransmission/Transmission	146,639	\$0.00
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.00
SC3A-Transmission	1,055,847	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$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): \$491,809.83

Total VDER Value Stack Capacity Component Paid to Projects: \$330,312.87

Total Capacity Out of Market Value Cost to Recover: -\$161,496.96

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	41.08%	-\$66,349.80
SC1C	0.00%	\$0.00
SC2ND	3.70%	-\$5,978.38
SC2D	21.53%	-\$34,772.34
SC3	29.57%	-\$47,752.19
SC3A	2.32%	-\$3,745.18
Streetlighting	1.80%	-\$2,899.08
Total	100.00%	-\$161,496.96

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	-\$0.00008
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	-\$0.00010
		<u>\$/kW</u>
SC2D	1,127,215	-\$0.03
SC3	1,392,615	-\$0.03
SC3A	1,534,033	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,221,133	-\$0.00031

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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: \$0.02010/kWh

Total of VDER Projects' Net Injections during recovery month: 86,508,087 kWh

Total Environmental Market Value Cost to Recover: **\$1,738,812.55**

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 1 Tier 1 REC Sale Price of \$20.1/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): \$1,738,812.55

Total VDER Value Stack Environmental Component Paid to Projects: \$2,050,334.56

Total Environmental Out of Market Value Cost to Recover: **\$311,522.01**

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	40.67%	\$126,691.54
SC1C	0.00%	\$0.00
SC2ND	3.44%	\$10,707.69
SC2D	21.12%	\$65,802.80
SC3	27.89%	\$86,889.69
SC3A	5.33%	\$16,609.64
Streetlighting	1.55%	\$4,820.65
Total	100.00%	\$311,522.01

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00015
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00018
		<u>\$/kW</u>
SC2D	1,127,215	\$0.06
SC3	1,392,615	\$0.06
SC3A	1,534,033	\$0.01
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$0.00052

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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: \$8,792.92

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$4,742.02
SC1C	1.11%	\$97.60
SC2ND	3.11%	\$273.46
SC2D	16.32%	\$1,435.00
SC3-Secondary	15.50%	\$1,362.90
SC3-Primary	6.21%	\$546.04
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$268.18
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$67.71
Total	100.00%	\$8,792.92

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00001
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00000
		<u>\$/kW</u>
SC2D	1,127,215	\$0.00
SC3-Secondary	881,078	\$0.00
SC3-Primary	364,897	\$0.00
SC3-Subtransmission/Transmission	146,639	\$0.00
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.00
SC3A-Transmission	1,055,847	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$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: \$65.02

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	42.70%	\$27.76
SC1C	0.84%	\$0.55
SC2ND	2.60%	\$1.69
SC2D	13.77%	\$8.95
SC3-Secondary	12.44%	\$8.09
SC3-Primary	5.03%	\$3.27
SC3-Subtransmission/Transmission	1.79%	\$1.16
SC3A-Secondary/Primary	2.46%	\$1.60
SC3A-Sub Transmission	3.83%	\$2.49
SC3A-Transmission	14.53%	\$9.45
Streetlighting	0.01%	\$0.01
Total	100.00%	\$65.02

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00000
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00000
		<u>\$/kW</u>
SC2D	1,127,215	\$0.00
SC3-Secondary	881,078	\$0.00
SC3-Primary	364,897	\$0.00
SC3-Subtransmission/Transmission	146,639	\$0.00
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.00
SC3A-Transmission	1,055,847	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$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: \$2,527.52

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	53.93%	\$1,363.09
SC1C	1.11%	\$28.06
SC2ND	3.11%	\$78.61
SC2D	16.32%	\$412.49
SC3-Secondary	15.50%	\$391.77
SC3-Primary	6.21%	\$156.96
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$77.09
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$19.46
Total	100.00%	\$2,527.52

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00000
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00000
		<u>\$/kW</u>
SC2D	1,127,215	\$0.00
SC3-Secondary	881,078	\$0.00
SC3-Primary	364,897	\$0.00
SC3-Subtransmission/Transmission	146,639	\$0.00
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.00
SC3A-Transmission	1,055,847	\$0.00
		<u>\$/kWh</u>
Streetlighting	9,221,133	\$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)	ICP Allocator	
SC1	42.70%	\$0.00
SC1C	0.84%	\$0.00
SC2ND	2.60%	\$0.00
SC2D	13.77%	\$0.00
SC3-Secondary	12.44%	\$0.00
SC3-Primary	5.03%	\$0.00
SC3-Subtransmission/Transmission	1.79%	\$0.00
SC3A-Secondary/Primary	2.46%	\$0.00
SC3A-Sub Transmission	3.83%	\$0.00
SC3A-Transmission	14.53%	\$0.00
Streetlighting	0.01%	\$0.00
Total	100.00%	\$0.00

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	850,728,799	\$0.00000
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00000
		\$/kW
SC2D	1,127,215	\$0.00
SC3-Secondary	881,078	\$0.00
SC3-Primary	364,897	\$0.00
SC3-Subtransmission/Transmission	146,639	\$0.00
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.00
SC3A-Transmission	1,055,847	\$0.00
		\$/kWh
Streetlighting	9,221,133	\$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: \$50,131.76

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	92.93%	\$46,589.04
SC1C	0.00%	\$0.00
SC2ND	7.07%	\$3,542.72
Total	100.00%	\$50,131.76

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00005
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$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: \$1,119,707.84

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	39.32%	\$440,262.87
SC1C	0.00%	\$0.00
SC2ND	3.03%	\$33,951.62
SC2D	22.70%	\$254,179.99
SC3-Secondary	23.37%	\$261,666.70
SC3-Primary	7.68%	\$85,983.16
SC3-Subtransmission/Transmission	1.11%	\$12,478.30
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.27%	\$3,031.09
SC3A-Transmission	0.82%	\$9,204.85
Streetlighting	1.69%	\$18,949.26
Total	100.00%	\$1,119,707.84

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	850,728,799	\$0.00052
SC1C	20,793,718	\$0.00000
SC2ND	58,884,496	\$0.00058
		<u>\$/kW</u>
SC2D	1,127,215	\$0.23
SC3-Secondary	881,078	\$0.30
SC3-Primary	364,897	\$0.24
SC3-Subtransmission/Transmission	146,639	\$0.09
SC3A-Secondary/Primary	187,678	\$0.00
SC3A-Sub Transmission	290,508	\$0.01
SC3A-Transmission	1,055,847	\$0.01
Streetlighting	9,221,133	\$0.00205

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