

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: MAY 28, 2021

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 44
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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: 22,629 kW

Total Alternative 1 Capacity Market Value Cost to Recover: **\$31,643.16**

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$12,970.53
SC1C	0.81%	\$256.31
SC2ND	2.54%	\$803.74
SC2D	14.46%	\$4,575.60
SC3-Secondary	13.34%	\$4,221.20
SC3-Primary	5.15%	\$1,629.62
SC3-Subtransmission/Transmission	1.65%	\$522.11
SC3A-Secondary/Primary	2.98%	\$942.97
SC3A-Sub Transmission	3.75%	\$1,186.62
SC3A-Transmission	14.31%	\$4,528.14
Streetlighting	0.02%	\$6.33
Total	100.00%	\$31,643.16

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	855,060,304	\$0.00002
SC1C	21,641,687	\$0.00001
SC2ND	50,973,608	\$0.00002
		\$/kW
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.01
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.01
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		\$/kWh
Streetlighting	10,974,861	\$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: 16,312 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 22,809.75

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$9,349.72
SC1C	0.81%	\$184.76
SC2ND	2.54%	\$579.37
SC2D	14.46%	\$3,298.29
SC3-Secondary	13.34%	\$3,042.82
SC3-Primary	5.15%	\$1,174.70
SC3-Subtransmission/Transmission	1.65%	\$376.36
SC3A-Secondary/Primary	2.98%	\$679.73
SC3A-Sub Transmission	3.75%	\$855.37
SC3A-Transmission	14.31%	\$3,264.08
Streetlighting	0.02%	\$4.56
Total	100.00%	\$22,809.75

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	855,060,304	\$0.00001
SC1C	21,641,687	\$0.00001
SC2ND	50,973,608	\$0.00001
		<u>\$/kW</u>
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,974,861	\$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	855,060,304	\$0.00000
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00000
		<u>\$/kW</u>
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,974,861	\$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): \$54,528.43

Total VDER Value Stack Capacity Component Paid to Projects: \$42,582.04

Total Capacity Out of Market Value Cost to Recover: **-\$11,946.39**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.63%	-\$4,734.74
SC1C	0.02%	-\$2.62
SC2ND	13.23%	-\$1,580.95
SC2D	14.72%	-\$1,758.10
SC3	26.63%	-\$3,181.44
SC3A	4.91%	-\$586.18
Streetlighting	0.86%	-\$102.37
Total	100.00%	-\$11,946.39

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	855,060,304	-\$0.00001
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	-\$0.00003
		<u>\$/kW</u>
SC2D	1,060,211	\$0.00
SC3	1,322,371	\$0.00
SC3A	1,438,502	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,974,861	-\$0.00001

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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: \$0.02 /kWh

Total of VDER Projects' Net Injections during recovery month: 34,156,483 kWh

Total Environmental Market Value Cost to Recover: **\$762,714.27**

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 \$22.33/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): \$762,714.27

Total VDER Value Stack Environmental Component Paid to Projects: \$894,763.56

Total Environmental Out of Market Value Cost to Recover: **\$132,049.29**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	39.98%	\$52,798.64
SC1C	0.02%	\$22.20
SC2ND	14.67%	\$19,369.98
SC2D	15.21%	\$20,089.40
SC3	25.68%	\$33,907.10
SC3A	3.67%	\$4,850.12
Streetlighting	0.77%	\$1,011.86
Total	100.00%	\$132,049.29

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	855,060,304	\$0.00006
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00038
		<u>\$/kW</u>
SC2D	1,060,211	\$0.02
SC3	1,322,371	\$0.03
SC3A	1,438,502	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,974,861	\$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: \$12,741.78

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$7,218.22
SC1C	1.18%	\$150.35
SC2ND	3.30%	\$420.48
SC2D	18.62%	\$2,372.52
SC3-Secondary	18.51%	\$2,358.50
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$94.29
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$127.42
Total	100.00%	\$12,741.78

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	855,060,304	\$0.00001
SC1C	21,641,687	\$0.00001
SC2ND	50,973,608	\$0.00001
		\$/kW
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		\$/kWh
Streetlighting	10,974,861	\$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	855,060,304	\$0.00000
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00000
		<u>\$/kW</u>
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		<u>\$/kWh</u>
Streetlighting	10,974,861	\$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	855,060,304	\$0.00000
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00000
		\$/kW
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		\$/kWh
Streetlighting	10,974,861	\$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	855,060,304	\$0.00000
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00000
		\$/kW
SC2D	1,060,211	\$0.00
SC3-Secondary	836,631	\$0.00
SC3-Primary	346,848	\$0.00
SC3-Subtransmission/Transmission	138,892	\$0.00
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.00
SC3A-Transmission	991,608	\$0.00
		\$/kWh
Streetlighting	10,974,861	\$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: \$69,848.35

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.31%	\$66,572.03
SC1C	0.00%	\$0.00
SC2ND	4.69%	\$3,276.32
Total	100.00%	\$69,848.35

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	855,060,304	\$0.00008
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$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: \$534,641.32

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	47.09%	\$251,786.87
SC1C	0.00%	\$0.00
SC2ND	3.58%	\$19,142.43
SC2D	17.28%	\$92,409.72
SC3-Secondary	19.54%	\$104,479.57
SC3-Primary	9.03%	\$48,288.57
SC3-Subtransmission/Transmission	1.63%	\$8,719.27
SC3A-Secondary/Primary	0.00%	\$21.70
SC3A-Sub Transmission	1.81%	\$9,654.73
SC3A-Transmission	0.03%	\$138.46
Streetlighting	0.00%	\$0.00
Total	100.00%	\$534,641.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	855,060,304	\$0.00029
SC1C	21,641,687	\$0.00000
SC2ND	50,973,608	\$0.00038
		<u>\$/kW</u>
SC2D	1,060,211	\$0.09
SC3-Secondary	836,631	\$0.12
SC3-Primary	346,848	\$0.14
SC3-Subtransmission/Transmission	138,892	\$0.06
SC3A-Secondary/Primary	176,655	\$0.00
SC3A-Sub Transmission	270,239	\$0.04
SC3A-Transmission	991,608	\$0.00
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