

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: OCTOBER 29, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 25
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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: \$ 1.81 /kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 797 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 1,444.50

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$592.10
SC1C	0.81%	\$11.70
SC2ND	2.54%	\$36.69
SC2D	14.46%	\$208.87
SC3-Secondary	13.34%	\$192.70
SC3-Primary	5.15%	\$74.39
SC3-Subtransmission/Transmission	1.65%	\$23.83
SC3A-Secondary/Primary	2.98%	\$43.05
SC3A-Sub Transmission	3.75%	\$54.17
SC3A-Transmission	14.31%	\$206.71
Streetlighting	0.02%	\$0.29
Total	100.00%	\$1,444.50

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		<u>\$/kW</u>
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		<u>\$/kWh</u>
Streetlighting	19,098,671	\$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: \$ 1.81 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: - kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ -

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

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		\$/kWh
Streetlighting	19,098,671	\$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: \$ 1.81 /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: 350 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 634.67

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$260.15
SC1C	0.81%	\$5.14
SC2ND	2.54%	\$16.12
SC2D	14.46%	\$91.77
SC3-Secondary	13.34%	\$84.66
SC3-Primary	5.15%	\$32.69
SC3-Subtransmission/Transmission	1.65%	\$10.47
SC3A-Secondary/Primary	2.98%	\$18.91
SC3A-Sub Transmission	3.75%	\$23.80
SC3A-Transmission	14.31%	\$90.82
Streetlighting	0.02%	\$0.13
Total	100.00%	\$634.67

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		<u>\$/kW</u>
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		<u>\$/kWh</u>
Streetlighting	19,098,671	\$0.00000

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Value Stack Cost Recovery Mechanisms
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Capacity Out of Market Value Cost Recovery
Rule 40.3.2.2

VDER Value Stack Capacity Market Value (Rule 40.3.2.1): \$ 2,079.17

Total VDER Value Stack Capacity Component Paid to Projects: \$ 6,512.72

Total Capacity Out of Market Value Cost to Recover: \$ 4,433.55

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	70.14%	\$3,109.48
SC1C	0.00%	\$0.00
SC2ND	2.15%	\$95.13
SC2D	7.07%	\$313.65
SC3	20.64%	\$915.29
SC3A	0.00%	\$0.00
Total	100.00%	\$4,433.55

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3	1,520,884	\$0.00
SC3A	1,666,003	\$0.00

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Value Stack Cost Recovery Mechanisms
VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Environmental Market Value Cost Recovery
Rule 40.3.2.3

NYSERDA Tier 1 REC rate in effect for the recovery month: \$ 0.02243 /kWh

Total of VDER Projects' Net Injections during recovery month: 1,339,193 kWh

Total Environmental Market Value Cost to Recover: \$ 30,038.10

The Environmental Market Value costs will be recovered annually as part of the
Clean Energy Standard Supply charge annual reconconciliation as specified in Rule 46.3.5.

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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): \$ 30,038.10

Total VDER Value Stack Environmental Component Paid to Projects: \$ 35,669.70

Total Environmental Out of Market Value Cost to Recover: \$ 5,631.60

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	73.20%	\$4,122.19
SC1C	0.00%	\$0.00
SC2ND	2.41%	\$135.92
SC2D	7.27%	\$409.41
SC3	17.12%	\$964.08
SC3A	0.00%	\$0.00
Total	100.00%	\$5,631.60

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	779,401,884	\$0.00001
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3	1,520,884	\$0.00
SC3A	1,666,003	\$0.00

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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: \$ 10,313.55

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$5,842.63
SC1C	1.18%	\$121.70
SC2ND	3.30%	\$340.35
SC2D	18.62%	\$1,920.38
SC3-Secondary	18.51%	\$1,909.04
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$76.32
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$103.14
Total	100.00%	\$10,313.55

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	779,401,884	\$0.00001
SC1C	21,659,158	\$0.00001
SC2ND	50,237,616	\$0.00001
		<u>\$/kW</u>
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		<u>\$/kWh</u>
Streetlighting	19,098,671	\$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: \$ -

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	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		\$/kWh
Streetlighting	19,098,671	\$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: \$ 990.70

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$561.23
SC1C	1.18%	\$11.69
SC2ND	3.30%	\$32.69
SC2D	18.62%	\$184.47
SC3-Secondary	18.51%	\$183.38
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$7.33
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$9.91
Total	100.00%	\$990.70

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		\$/kWh
Streetlighting	19,098,671	\$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 **Subtransmission/Transmission** Projects: \$ -

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	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00000
		\$/kW
SC2D	1,117,553	\$0.00
SC3-Secondary	1,024,001	\$0.00
SC3-Primary	356,300	\$0.00
SC3-Subtransmission/Transmission	140,582	\$0.00
SC3A-Secondary/Primary	226,632	\$0.00
SC3A-Sub Transmission	301,589	\$0.00
SC3A-Transmission	1,137,782	\$0.00
		\$/kWh
Streetlighting	19,098,671	\$0.00000

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Value Stack Cost Recovery Mechanisms
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MTC Cost Recovery
Rule 40.3.2.7

Total VDER Value Stack MTC Component Paid to Projects: \$ 24,413.94

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	98.49%	\$24,044.19
SC1C	0.00%	\$0.00
SC2ND	1.51%	\$369.75
Total	100.00%	\$24,413.94

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	779,401,884	\$0.00003
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00001

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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: \$ 2,160.41

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	84.71%	\$1,830.01
SC1C	0.00%	\$0.00
SC2ND	15.29%	\$330.40
Total	100.00%	\$2,160.41

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	779,401,884	\$0.00000
SC1C	21,659,158	\$0.00000
SC2ND	50,237,616	\$0.00001