

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: APRIL 30, 2020

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 31
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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: \$ 0.85 /kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 7,472 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 6,376.11

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$2,613.57
SC1C	0.81%	\$51.65
SC2ND	2.54%	\$161.95
SC2D	14.46%	\$921.99
SC3-Secondary	13.34%	\$850.57
SC3-Primary	5.15%	\$328.37
SC3-Subtransmission/Transmission	1.65%	\$105.21
SC3A-Secondary/Primary	2.98%	\$190.01
SC3A-Sub Transmission	3.75%	\$239.10
SC3A-Transmission	14.31%	\$912.42
Streetlighting	0.02%	\$1.28
Total	100.00%	\$6,376.11

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		<u>\$/kW</u>
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,806,517	\$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: \$ 0.85 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 556 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 474.37

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$194.44
SC1C	0.81%	\$3.84
SC2ND	2.54%	\$12.05
SC2D	14.46%	\$68.59
SC3-Secondary	13.34%	\$63.28
SC3-Primary	5.15%	\$24.43
SC3-Subtransmission/Transmission	1.65%	\$7.83
SC3A-Secondary/Primary	2.98%	\$14.14
SC3A-Sub Transmission	3.75%	\$17.79
SC3A-Transmission	14.31%	\$67.88
Streetlighting	0.02%	\$0.09
Total	100.00%	\$474.37

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		\$/kW
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		\$/kWh
Streetlighting	12,806,517	\$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: \$ 0.85 /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)	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	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		\$/kW
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		\$/kWh
Streetlighting	12,806,517	\$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): \$ 6,850.47

Total VDER Value Stack Capacity Component Paid to Projects: \$ 1,212.30

Total Capacity Out of Market Value Cost to Recover: \$ (5,638.17)

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	59.49%	-\$3,353.87
SC1C	0.06%	-\$3.44
SC2ND	3.00%	-\$169.11
SC2D	13.37%	-\$754.10
SC3	20.15%	-\$1,136.29
SC3A	0.00%	\$0.00
Streetlighting	3.93%	-\$221.35
Total	100.00%	-\$5,638.17

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		\$/kW
SC2D	1,069,102	\$0.00
SC3	1,316,098	\$0.00
SC3A	1,753,340	\$0.00
		\$/kWh
Streetlighting	12,806,517	-\$0.00002

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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: \$ 0.02209 /kWh

Total of VDER Projects' Net Injections during recovery month: 3,153,232 kWh

Total Environmental Market Value Cost to Recover: \$ 69,654.89

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): \$ 69,654.89

Total VDER Value Stack Environmental Component Paid to Projects: \$ 78,906.33

Total Environmental Out of Market Value Cost to Recover: **\$ 9,251.44**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	56.96%	\$5,269.97
SC1C	0.06%	\$5.50
SC2ND	3.72%	\$343.90
SC2D	9.37%	\$866.88
SC3	26.33%	\$2,435.74
SC3A	0.00%	\$0.00
Streetlighting	3.56%	\$329.45
Total	100.00%	\$9,251.44

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	747,097,453	\$0.00001
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00001
		\$/kW
SC2D	1,069,102	\$0.00
SC3	1,316,098	\$0.00
SC3A	1,753,340	\$0.00
		\$/kWh
Streetlighting	12,806,517	\$0.00003

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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: \$ 5,020.88

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$2,844.33
SC1C	1.18%	\$59.25
SC2ND	3.30%	\$165.69
SC2D	18.62%	\$934.89
SC3-Secondary	18.51%	\$929.36
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$37.15
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$50.21
Total	100.00%	\$5,020.88

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		<u>\$/kW</u>
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,806,517	\$0.00000

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Value Stack Cost Recovery Mechanisms
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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	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		\$/kW
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		\$/kWh
Streetlighting	12,806,517	\$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: \$ 779.51

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$441.59
SC1C	1.18%	\$9.20
SC2ND	3.30%	\$25.72
SC2D	18.62%	\$145.14
SC3-Secondary	18.51%	\$144.29
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$5.77
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$7.80
Total	100.00%	\$779.51

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		<u>\$/kW</u>
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		<u>\$/kWh</u>
Streetlighting	12,806,517	\$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	747,097,453	\$0.00000
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00000
		\$/kW
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.00
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00
		\$/kWh
Streetlighting	12,806,517	\$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: \$ 17,965.19

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	94.11%	\$16,906.35
SC1C	0.00%	\$0.00
SC2ND	5.89%	\$1,058.84
Total	100.00%	\$17,965.19

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	747,097,453	\$0.00002
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00002

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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: \$ 37,299.23

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	74.02%	\$27,610.33
SC1C	0.00%	\$0.00
SC2ND	3.16%	\$1,177.53
SC2D	2.80%	\$1,044.76
SC3-Secondary	20.02%	\$7,466.61
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Total	100.00%	\$37,299.23

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	747,097,453	\$0.00004
SC1C	19,968,286	\$0.00000
SC2ND	49,264,744	\$0.00002
		\$/kW
SC2D	1,069,102	\$0.00
SC3-Secondary	847,259	\$0.01
SC3-Primary	335,854	\$0.00
SC3-Subtransmission/Transmission	132,984	\$0.00
SC3A-Secondary/Primary	253,671	\$0.00
SC3A-Sub Transmission	342,424	\$0.00
SC3A-Transmission	1,157,245	\$0.00