

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: FEBRUARY 28, 2020

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 29
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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: 4,536 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 3,870.38

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$1,586.47
SC1C	0.81%	\$31.35
SC2ND	2.54%	\$98.31
SC2D	14.46%	\$559.66
SC3-Secondary	13.34%	\$516.31
SC3-Primary	5.15%	\$199.32
SC3-Subtransmission/Transmission	1.65%	\$63.86
SC3A-Secondary/Primary	2.98%	\$115.34
SC3A-Sub Transmission	3.75%	\$145.14
SC3A-Transmission	14.31%	\$553.85
Streetlighting	0.02%	\$0.77
Total	100.00%	\$3,870.38

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		\$/kWh
Streetlighting	16,123,161	\$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: - 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	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		\$/kWh
Streetlighting	16,123,161	\$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: \$ 0.85 /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: 17 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 14.17

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$5.81
SC1C	0.81%	\$0.11
SC2ND	2.54%	\$0.36
SC2D	14.46%	\$2.05
SC3-Secondary	13.34%	\$1.89
SC3-Primary	5.15%	\$0.73
SC3-Subtransmission/Transmission	1.65%	\$0.23
SC3A-Secondary/Primary	2.98%	\$0.42
SC3A-Sub Transmission	3.75%	\$0.53
SC3A-Transmission	14.31%	\$2.03
Streetlighting	0.02%	\$0.00
Total	100.00%	\$14.17

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		\$/kWh
Streetlighting	16,123,161	\$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): \$ 3,884.54

Total VDER Value Stack Capacity Component Paid to Projects: \$ 426.13

Total Capacity Out of Market Value Cost to Recover: \$ (3,458.41)

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	78.17%	-\$2,703.39
SC1C	0.00%	\$0.00
SC2ND	3.32%	-\$114.95
SC2D	-46.12%	\$1,595.18
SC3	62.01%	-\$2,144.54
SC3A	0.00%	\$0.00
Streetlighting	2.62%	-\$90.71
Total	100.00%	-\$3,458.41

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3	1,420,538	\$0.00
SC3A	1,787,759	\$0.00
		\$/kWh
Streetlighting	16,123,161	-\$0.00001

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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: 971,461 kWh

Total Environmental Market Value Cost to Recover: \$ 21,459.57

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): \$ 21,459.57

Total VDER Value Stack Environmental Component Paid to Projects: \$ 25,568.89

Total Environmental Out of Market Value Cost to Recover: **\$ 4,109.32**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	36.07%	\$1,482.16
SC1C	0.00%	\$0.00
SC2ND	2.41%	\$98.85
SC2D	9.44%	\$388.11
SC3	49.68%	\$2,041.70
SC3A	0.00%	\$0.00
Streetlighting	2.40%	\$98.50
Total	100.00%	\$4,109.32

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		<u>\$/kW</u>
SC2D	1,174,069	\$0.00
SC3	1,420,538	\$0.00
SC3A	1,787,759	\$0.00
		<u>\$/kWh</u>
Streetlighting	16,123,161	\$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 **Secondary/Primary** Projects: \$ 5,297.16

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$3,000.84
SC1C	1.18%	\$62.51
SC2ND	3.30%	\$174.81
SC2D	18.62%	\$986.33
SC3-Secondary	18.51%	\$980.50
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$39.20
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$52.97
Total	100.00%	\$5,297.16

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		<u>\$/kW</u>
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		<u>\$/kWh</u>
Streetlighting	16,123,161	\$0.00000

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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	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		\$/kWh
Streetlighting	16,123,161	\$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: \$ 538.61

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$305.12
SC1C	1.18%	\$6.36
SC2ND	3.30%	\$17.77
SC2D	18.62%	\$100.29
SC3-Secondary	18.51%	\$99.70
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$3.99
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$5.39
Total	100.00%	\$538.61

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		<u>\$/kW</u>
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		<u>\$/kWh</u>
Streetlighting	16,123,161	\$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: \$ -

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	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000
		\$/kW
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00
		\$/kWh
Streetlighting	16,123,161	\$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: \$ 4,726.59

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	98.53%	\$4,657.10
SC1C	0.00%	\$0.00
SC2ND	1.47%	\$69.49
Total	100.00%	\$4,726.59

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00000

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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: \$ 6,773.69

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	53.88%	\$3,649.59
SC1C	0.00%	\$0.00
SC2ND	4.70%	\$318.28
SC2D	5.13%	\$347.56
SC3-Secondary	36.29%	\$2,458.27
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%	\$6,773.69

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	980,038,788	\$0.00000
SC1C	26,194,347	\$0.00000
SC2ND	54,256,059	\$0.00001
		<u>\$/kW</u>
SC2D	1,174,069	\$0.00
SC3-Secondary	917,267	\$0.00
SC3-Primary	361,484	\$0.00
SC3-Subtransmission/Transmission	141,787	\$0.00
SC3A-Secondary/Primary	260,048	\$0.00
SC3A-Sub Transmission	351,511	\$0.00
SC3A-Transmission	1,176,200	\$0.00