

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: JULY 31, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 22
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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: 578 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 1,048.29

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$429.69
SC1C	0.81%	\$8.49
SC2ND	2.54%	\$26.63
SC2D	14.46%	\$151.58
SC3-Secondary	13.34%	\$139.84
SC3-Primary	5.15%	\$53.99
SC3-Subtransmission/Transmission	1.65%	\$17.30
SC3A-Secondary/Primary	2.98%	\$31.24
SC3A-Sub Transmission	3.75%	\$39.31
SC3A-Transmission	14.31%	\$150.01
Streetlighting	0.02%	\$0.21
Total	100.00%	\$1,048.29

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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: - 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	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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): \$ 1,048.29

Total VDER Value Stack Capacity Component Paid to Projects: \$ 4,318.00

Total Capacity Out of Market Value Cost to Recover: \$ 3,269.71

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	0.00%	\$0.00
SC1C	0.00%	\$0.00
SC2ND	76.25%	\$2,492.99
SC2D	7.98%	\$260.87
SC3	15.78%	\$515.85
SC3A	0.00%	\$0.00
Total	100.00%	\$3,269.71

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00004
		\$/kW
SC2D	1,327,863	\$0.00
SC3	1,775,123	\$0.00
SC3A	1,861,002	\$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: 943,049 kWh

Total Environmental Market Value Cost to Recover: \$ 21,152.59

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
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Environmental Out of Market Value Cost Recovery
Rule 40.3.2.4

VDER Value Stack Environmental Market Value (Rule 40.3.2.3): \$ 21,152.59

Total VDER Value Stack Environmental Component Paid to Projects: \$ 25,095.23

Total Environmental Out of Market Value Cost to Recover: **\$ 3,942.64**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	0.00%	\$0.00
SC1C	0.00%	\$0.00
SC2ND	75.52%	\$2,977.63
SC2D	6.99%	\$275.54
SC3	17.49%	\$689.47
SC3A	0.00%	\$0.00
Total	100.00%	\$3,942.64

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00005
		<u>\$/kW</u>
SC2D	1,327,863	\$0.00
SC3	1,775,123	\$0.00
SC3A	1,861,002	\$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: \$ 3,017.59

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$1,709.46
SC1C	1.18%	\$35.61
SC2ND	3.30%	\$99.58
SC2D	18.62%	\$561.88
SC3-Secondary	18.51%	\$558.56
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$22.33
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$30.18
Total	100.00%	\$3,017.59

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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: \$ 511.09

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$289.53
SC1C	1.18%	\$6.03
SC2ND	3.30%	\$16.87
SC2D	18.62%	\$95.16
SC3-Secondary	18.51%	\$94.60
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$3.78
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$5.11
Total	100.00%	\$511.09

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000
		\$/kW
SC2D	1,327,863	\$0.00
SC3-Secondary	1,196,191	\$0.00
SC3-Primary	416,044	\$0.00
SC3-Subtransmission/Transmission	162,889	\$0.00
SC3A-Secondary/Primary	254,736	\$0.00
SC3A-Sub Transmission	339,534	\$0.00
SC3A-Transmission	1,266,732	\$0.00
		\$/kWh
Streetlighting	14,040,391	\$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: \$ 19,211.88

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	0.00%	\$0.00
SC1C	0.00%	\$0.00
SC2ND	100.00%	\$19,211.88
Total	100.00%	\$19,211.88

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00032

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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: \$ -

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	0.00%	\$0.00
SC1C	0.00%	\$0.00
SC2ND	0.00%	\$0.00
Total	0.00%	\$0.00

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,040,880,059	\$0.00000
SC1C	28,925,507	\$0.00000
SC2ND	59,915,326	\$0.00000