

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 1 OF 12

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: 1,402 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 2,542.84

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$1,042.31
SC1C	0.81%	\$20.60
SC2ND	2.54%	\$64.59
SC2D	14.46%	\$367.69
SC3-Secondary	13.34%	\$339.21
SC3-Primary	5.15%	\$130.96
SC3-Subtransmission/Transmission	1.65%	\$41.96
SC3A-Secondary/Primary	2.98%	\$75.78
SC3A-Sub Transmission	3.75%	\$95.36
SC3A-Transmission	14.31%	\$363.88
Streetlighting	0.02%	\$0.51
Total	100.00%	\$2,542.84

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		\$/kW
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		\$/kWh
Streetlighting	19,055,413	\$0.00000

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 2 OF 12

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	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		\$/kW
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		\$/kWh
Streetlighting	19,055,413	\$0.00000

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 3 OF 12

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	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		\$/kW
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		\$/kWh
Streetlighting	19,055,413	\$0.00000

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 4 OF 12

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): \$ 2,542.84

Total VDER Value Stack Capacity Component Paid to Projects: \$ 7,818.08

Total Capacity Out of Market Value Cost to Recover: \$ 5,275.24

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	76.53%	\$4,037.32
SC1C	0.00%	\$0.00
SC2ND	17.32%	\$913.78
SC2D	2.03%	\$107.32
SC3	4.11%	\$216.82
SC3A	0.00%	\$0.00
Total	100.00%	\$5,275.24

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00002
		\$/kW
SC2D	1,207,584	\$0.00
SC3	1,457,916	\$0.00
SC3A	1,820,975	\$0.00

P.S.C. 220 ELECTRICITY
NIAGARA MOHAWK POWER CORPORATION
INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
WORKPAPER FOR STATEMENT NO. 26
PAGE 5 OF 12

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: 1,772,378 kWh

Total Environmental Market Value Cost to Recover: \$ 39,754.44

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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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 6 OF 12

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): \$ 39,754.44

Total VDER Value Stack Environmental Component Paid to Projects: \$ 48,031.80

Total Environmental Out of Market Value Cost to Recover: \$ 8,277.36

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	74.84%	\$6,194.71
SC1C	0.00%	\$0.00
SC2ND	16.39%	\$1,356.59
SC2D	1.63%	\$135.26
SC3	7.14%	\$590.80
SC3A	0.00%	\$0.00
Total	100.00%	\$8,277.36

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	984,872,080	\$0.00001
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00002
		\$/kW
SC2D	1,207,584	\$0.00
SC3	1,457,916	\$0.00
SC3A	1,820,975	\$0.00

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 7 OF 12

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: \$ 14,891.20

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$8,435.86
SC1C	1.18%	\$175.72
SC2ND	3.30%	\$491.41
SC2D	18.62%	\$2,772.74
SC3-Secondary	18.51%	\$2,756.36
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$110.19
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$148.91
Total	100.00%	\$14,891.20

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	984,872,080	\$0.00001
SC1C	26,323,525	\$0.00001
SC2ND	55,856,737	\$0.00001
		<u>\$/kW</u>
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		<u>\$/kWh</u>
Streetlighting	19,055,413	\$0.00001

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 8 OF 12

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	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		\$/kW
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		\$/kWh
Streetlighting	19,055,413	\$0.00000

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 9 OF 12

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: \$ 2.30

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$1.30
SC1C	1.18%	\$0.03
SC2ND	3.30%	\$0.08
SC2D	18.62%	\$0.43
SC3-Secondary	18.51%	\$0.43
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$0.02
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$0.02
Total	100.00%	\$2.30

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		<u>\$/kW</u>
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		<u>\$/kWh</u>
Streetlighting	19,055,413	\$0.00000

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 10 OF 12

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	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000
		\$/kW
SC2D	1,207,584	\$0.00
SC3-Secondary	941,769	\$0.00
SC3-Primary	370,860	\$0.00
SC3-Subtransmission/Transmission	145,287	\$0.00
SC3A-Secondary/Primary	265,075	\$0.00
SC3A-Sub Transmission	358,372	\$0.00
SC3A-Transmission	1,197,528	\$0.00
		\$/kWh
Streetlighting	19,055,413	\$0.00000

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 11 OF 12

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: \$ 34,151.18

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	99.30%	\$33,912.65
SC1C	0.00%	\$0.00
SC2ND	0.70%	\$238.53
Total	100.00%	\$34,151.18

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	984,872,080	\$0.00003
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 27, 2019

STATEMENT TYPE: VDER-CR
 WORKPAPER FOR STATEMENT NO. 26
 PAGE 12 OF 12

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: \$ 2,534.45

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	96.72%	\$2,451.26
SC1C	0.00%	\$0.00
SC2ND	3.28%	\$83.19
Total	100.00%	\$2,534.45

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	984,872,080	\$0.00000
SC1C	26,323,525	\$0.00000
SC2ND	55,856,737	\$0.00000