

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 0.85 /kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 10,073 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 8,595.46

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$3,523.28
SC1C	0.81%	\$69.62
SC2ND	2.54%	\$218.32
SC2D	14.46%	\$1,242.90
SC3-Secondary	13.34%	\$1,146.63
SC3-Primary	5.15%	\$442.67
SC3-Subtransmission/Transmission	1.65%	\$141.83
SC3A-Secondary/Primary	2.98%	\$256.14
SC3A-Sub Transmission	3.75%	\$322.33
SC3A-Transmission	14.31%	\$1,230.01
Streetlighting	0.02%	\$1.72
Total	100.00%	\$8,595.46

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00000
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00000
		<u>\$/kW</u>
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00000

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 0.85 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 12,158 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 10,374.40

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$4,252.47
SC1C	0.81%	\$84.03
SC2ND	2.54%	\$263.51
SC2D	14.46%	\$1,500.14
SC3-Secondary	13.34%	\$1,383.94
SC3-Primary	5.15%	\$534.28
SC3-Subtransmission/Transmission	1.65%	\$171.18
SC3A-Secondary/Primary	2.98%	\$309.16
SC3A-Sub Transmission	3.75%	\$389.04
SC3A-Transmission	14.31%	\$1,484.58
Streetlighting	0.02%	\$2.07
Total	100.00%	\$10,374.40

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00000
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00001
		<u>\$/kW</u>
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00000

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 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)	<u>1CP Allocator</u>	
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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00000
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00000
		<u>\$/kW</u>
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00000

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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): \$ 18,969.86

Total VDER Value Stack Capacity Component Paid to Projects: \$ 93,710.01

Total Capacity Out of Market Value Cost to Recover: \$ 74,740.15

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	49.12%	\$36,715.44
SC1C	0.06%	\$41.93
SC2ND	10.27%	\$7,673.16
SC2D	12.22%	\$9,134.63
SC3	26.43%	\$19,753.32
SC3A	0.00%	\$0.00
Streetlighting	1.90%	\$1,421.67
Total	100.00%	\$74,740.15

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00004
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00015
		<u>\$/kW</u>
SC2D	1,082,871	\$0.01
SC3	1,342,237	\$0.01
SC3A	1,432,277	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00008

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

STATEMENT TYPE: VDER-CR
WORKPAPERS FOR STATEMENT NO. 38
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: \$ 0.02209 /kWh

Total of VDER Projects' Net Injections during recovery month: 13,797,568 kWh

Total Environmental Market Value Cost to Recover: \$ 304,788.28

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

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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): \$ 304,788.28

Total VDER Value Stack Environmental Component Paid to Projects: \$ 371,380.21

Total Environmental Out of Market Value Cost to Recover: \$ 66,591.93

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	44.81%	\$29,839.75
SC1C	0.04%	\$24.76
SC2ND	15.39%	\$10,245.32
SC2D	13.33%	\$8,873.47
SC3	25.07%	\$16,696.16
SC3A	0.00%	\$0.00
Streetlighting	1.37%	\$912.47
Total	100.00%	\$66,591.93

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00003
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00020
		<u>\$/kW</u>
SC2D	1,082,871	\$0.01
SC3	1,342,237	\$0.01
SC3A	1,432,277	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00005

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 262,158.63

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$148,512.86
SC1C	1.18%	\$3,093.47
SC2ND	3.30%	\$8,651.23
SC2D	18.62%	\$48,813.94
SC3-Secondary	18.51%	\$48,525.56
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$1,939.97
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$2,621.59
Total	100.00%	\$262,158.63

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00015
SC1C	25,610,732	\$0.00012
SC2ND	52,331,427	\$0.00017
		<u>\$/kW</u>
SC2D	1,082,871	\$0.05
SC3-Secondary	850,175	\$0.06
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.01
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00014

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 27,720.45

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$11,362.61
SC1C	0.81%	\$224.54
SC2ND	2.54%	\$704.10
SC2D	14.46%	\$4,008.38
SC3-Secondary	13.34%	\$3,697.91
SC3-Primary	5.15%	\$1,427.60
SC3-Subtransmission/Transmission	1.65%	\$457.39
SC3A-Secondary/Primary	2.98%	\$826.07
SC3A-Sub Transmission	3.75%	\$1,039.52
SC3A-Transmission	14.31%	\$3,966.80
Streetlighting	0.02%	\$5.54
Total	100.00%	\$27,720.45

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,011,907,639	\$0.00001
SC1C	25,610,732	\$0.00001
SC2ND	52,331,427	\$0.00001
		\$/kW
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		\$/kWh
Streetlighting	18,496,455	\$0.00000

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 1,228.28

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$695.82
SC1C	1.18%	\$14.49
SC2ND	3.30%	\$40.53
SC2D	18.62%	\$228.71
SC3-Secondary	18.51%	\$227.35
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$9.09
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$12.28
Total	100.00%	\$1,228.28

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00000
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00000
		<u>\$/kW</u>
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00000

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 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: NOVEMBER 30, 2020

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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)	<u>1CP Allocator</u>	
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)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00000
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00000
		<u>\$/kW</u>
SC2D	1,082,871	\$0.00
SC3-Secondary	850,175	\$0.00
SC3-Primary	351,703	\$0.00
SC3-Subtransmission/Transmission	140,360	\$0.00
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00
		<u>\$/kWh</u>
Streetlighting	18,496,455	\$0.00000

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 43,912.66

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	94.78%	\$41,618.96
SC1C	0.00%	\$0.00
SC2ND	5.22%	\$2,293.70
Total	100.00%	\$43,912.66

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00004
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00004

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 38
 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: \$ 196,924.53

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	53.35%	\$105,065.16
SC1C	0.00%	\$0.00
SC2ND	3.68%	\$7,238.62
SC2D	16.51%	\$32,516.45
SC3-Secondary	13.07%	\$25,742.82
SC3-Primary	12.85%	\$25,295.45
SC3-Subtransmission/Transmission	0.54%	\$1,066.03
SC3A-Secondary/Primary	0.00%	\$0.00
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Total	100.00%	\$196,924.53

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,011,907,639	\$0.00010
SC1C	25,610,732	\$0.00000
SC2ND	52,331,427	\$0.00014
		<u>\$/kW</u>
SC2D	1,082,871	\$0.03
SC3-Secondary	850,175	\$0.03
SC3-Primary	351,703	\$0.07
SC3-Subtransmission/Transmission	140,360	\$0.01
SC3A-Secondary/Primary	176,299	\$0.00
SC3A-Sub Transmission	269,844	\$0.00
SC3A-Transmission	986,134	\$0.00