

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

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 34
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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: 8,057 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$ 6,874.97

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$2,818.05
SC1C	0.81%	\$55.69
SC2ND	2.54%	\$174.62
SC2D	14.46%	\$994.12
SC3-Secondary	13.34%	\$917.12
SC3-Primary	5.15%	\$354.06
SC3-Subtransmission/Transmission	1.65%	\$113.44
SC3A-Secondary/Primary	2.98%	\$204.87
SC3A-Sub Transmission	3.75%	\$257.81
SC3A-Transmission	14.31%	\$983.81
Streetlighting	0.02%	\$1.37
Total	100.00%	\$6,874.97

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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: 3,336 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 2,846.98

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>1CP Allocator</u>	
SC1	40.99%	\$1,166.98
SC1C	0.81%	\$23.06
SC2ND	2.54%	\$72.31
SC2D	14.46%	\$411.67
SC3-Secondary	13.34%	\$379.79
SC3-Primary	5.15%	\$146.62
SC3-Subtransmission/Transmission	1.65%	\$46.98
SC3A-Secondary/Primary	2.98%	\$84.84
SC3A-Sub Transmission	3.75%	\$106.76
SC3A-Transmission	14.31%	\$407.40
Streetlighting	0.02%	\$0.57
Total	100.00%	\$2,846.98

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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: - 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	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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): \$ 9,721.94

Total VDER Value Stack Capacity Component Paid to Projects: \$ 54,725.40

Total Capacity Out of Market Value Cost to Recover: \$ 45,003.46

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	64.84%	\$29,178.07
SC1C	0.02%	\$7.28
SC2ND	9.94%	\$4,475.00
SC2D	5.51%	\$2,479.62
SC3	17.91%	\$8,061.61
SC3A	0.00%	\$0.00
Streetlighting	1.78%	\$801.88
Total	100.00%	\$45,003.46

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	1,005,609,796	\$0.00003
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00008
		\$/kW
SC2D	1,262,664	\$0.00
SC3	1,519,916	\$0.01
SC3A	1,878,804	\$0.00
		\$/kWh
Streetlighting	13,797,698	\$0.00006

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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: 8,001,341 kWh

Total Environmental Market Value Cost to Recover: \$ 176,749.62

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.

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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): \$ 176,749.62

Total VDER Value Stack Environmental Component Paid to Projects: \$ 211,892.69

Total Environmental Out of Market Value Cost to Recover: \$ 35,143.07

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	71.96%	\$25,288.84
SC1C	0.01%	\$4.70
SC2ND	7.07%	\$2,486.31
SC2D	4.00%	\$1,407.01
SC3	15.58%	\$5,474.76
SC3A	0.00%	\$0.00
Streetlighting	1.37%	\$481.45
Total	100.00%	\$35,143.07

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00003
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00004
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3	1,519,916	\$0.00
SC3A	1,878,804	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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: \$ 5,302.97

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$3,004.13
SC1C	1.18%	\$62.58
SC2ND	3.30%	\$175.00
SC2D	18.62%	\$987.41
SC3-Secondary	18.51%	\$981.58
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$39.24
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$53.03
Total	100.00%	\$5,302.97

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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)	<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	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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: \$ 77.82

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	<u>NCP Allocator</u>	
SC1	56.65%	\$44.09
SC1C	1.18%	\$0.92
SC2ND	3.30%	\$2.57
SC2D	18.62%	\$14.49
SC3-Secondary	18.51%	\$14.40
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$0.58
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$0.78
Total	100.00%	\$77.82

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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)	<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	1,005,609,796	\$0.00000
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00000
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.00
SC3-Primary	386,440	\$0.00
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00
		<u>\$/kWh</u>
Streetlighting	13,797,698	\$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: \$ 47,112.81

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.72%	\$45,095.88
SC1C	0.00%	\$0.00
SC2ND	4.28%	\$2,016.93
Total	100.00%	\$47,112.81

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00004
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00003

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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: \$ 113,774.95

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	81.61%	\$92,855.62
SC1C	0.00%	\$0.00
SC2ND	1.74%	\$1,977.46
SC2D	1.63%	\$1,855.32
SC3-Secondary	9.55%	\$10,868.86
SC3-Primary	5.46%	\$6,217.69
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%	\$113,774.95

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	1,005,609,796	\$0.00009
SC1C	26,877,793	\$0.00000
SC2ND	58,312,659	\$0.00003
		<u>\$/kW</u>
SC2D	1,262,664	\$0.00
SC3-Secondary	982,338	\$0.01
SC3-Primary	386,440	\$0.02
SC3-Subtransmission/Transmission	151,138	\$0.00
SC3A-Secondary/Primary	273,772	\$0.00
SC3A-Sub Transmission	370,225	\$0.00
SC3A-Transmission	1,234,807	\$0.00