

P.S.C. 220 ELECTRICITY
 NIAGARA MOHAWK POWER CORPORATION
 INITIAL EFFECTIVE DATE: AUGUST 31, 2021

STATEMENT TYPE: VDER-CR
 WORKPAPERS FOR STATEMENT NO. 47
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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: \$1.40/kW

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 21,738 kW

Total Alternative 1 Capacity Market Value Cost to Recover: **\$30,396.55**

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$12,459.55
SC1C	0.81%	\$246.21
SC2ND	2.54%	\$772.07
SC2D	14.46%	\$4,395.34
SC3-Secondary	13.34%	\$4,054.90
SC3-Primary	5.15%	\$1,565.42
SC3-Subtransmission/Transmission	1.65%	\$501.54
SC3A-Secondary/Primary	2.98%	\$905.82
SC3A-Sub Transmission	3.75%	\$1,139.87
SC3A-Transmission	14.31%	\$4,349.75
Streetlighting	0.02%	\$6.08
Total	100.00%	\$30,396.55

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	958,050,446	\$0.00001
SC1C	24,248,109	\$0.00001
SC2ND	54,341,484	\$0.00001
		<u>\$/kW</u>
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$0.00000

Issued by: Rudolph L. Wynter, President, Syracuse, New York

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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: \$ 1.40 /kW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 16,448 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$ 22,999.79

Cost Allocation

Service Class (with Voltage Delivery Level)	ICP Allocator	
SC1	40.99%	\$9,427.61
SC1C	0.81%	\$186.30
SC2ND	2.54%	\$584.19
SC2D	14.46%	\$3,325.77
SC3-Secondary	13.34%	\$3,068.17
SC3-Primary	5.15%	\$1,184.49
SC3-Subtransmission/Transmission	1.65%	\$379.50
SC3A-Secondary/Primary	2.98%	\$685.39
SC3A-Sub Transmission	3.75%	\$862.49
SC3A-Transmission	14.31%	\$3,291.27
Streetlighting	0.02%	\$4.60
Total	100.00%	\$22,999.79

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	958,050,446	\$0.00001
SC1C	24,248,109	\$0.00001
SC2ND	54,341,484	\$0.00001
		\$/kW
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		\$/kWh
Streetlighting	11,596,640	\$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: \$ 1.40 /kW

Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak: 54 kW

Total Alternative 3 Capacity Market Value Cost to Recover: \$ 75.51

Cost Allocation

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	40.99%	\$30.95
SC1C	0.81%	\$0.61
SC2ND	2.54%	\$1.92
SC2D	14.46%	\$10.92
SC3-Secondary	13.34%	\$10.07
SC3-Primary	5.15%	\$3.89
SC3-Subtransmission/Transmission	1.65%	\$1.25
SC3A-Secondary/Primary	2.98%	\$2.25
SC3A-Sub Transmission	3.75%	\$2.83
SC3A-Transmission	14.31%	\$10.81
Streetlighting	0.02%	\$0.02
Total	100.00%	\$75.51

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	958,050,446	\$0.00000
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00000
		<u>\$/kW</u>
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$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): \$53,471.85

Total VDER Value Stack Capacity Component Paid to Projects: \$596,337.42

Total Capacity Out of Market Value Cost to Recover: **\$542,865.57**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	43.79%	\$237,725.92
SC1C	0.02%	\$95.86
SC2ND	1.80%	\$9,780.89
SC2D	17.44%	\$94,650.93
SC3	33.24%	\$180,474.81
SC3A	2.81%	\$15,261.20
Streetlighting	0.90%	\$4,875.95
Total	100.00%	\$542,865.57

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	958,050,446	\$0.00025
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00018
		<u>\$/kW</u>
SC2D	1,127,791	\$0.08
SC3	1,400,059	\$0.13
SC3A	1,500,948	\$0.01
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$0.00042

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Value Stack Cost Recovery Mechanisms
VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)

Environmental Market Value Cost Recovery¹
Rule 40.3.2.3

NYSERDA Tier 1 REC rate in effect for the recovery month²: \$0.02256 /kWh

Total of VDER Projects' Net Injections during recovery month: 41,632,057 kWh

Total Environmental Market Value Cost to Recover: **\$939,219.21**

Notes:

1. The Environmental Market Value costs are recovered annually as part of the Clean Energy Standard Supply charge as specified in Rule 46.3.5.
2. NYSERDA's 2021 Quarter 2 Tier 1 REC Sale Price of \$22.56/MWh.

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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): \$939,219.21

Total VDER Value Stack Environmental Component Paid to Projects: \$1,133,213.07

Total Environmental Out of Market Value Cost to Recover: **\$193,993.86**

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	43.38%	\$84,152.36
SC1C	0.02%	\$32.98
SC2ND	3.81%	\$7,391.86
SC2D	17.89%	\$34,696.83
SC3	30.85%	\$59,856.63
SC3A	3.17%	\$6,147.71
Streetlighting	0.88%	\$1,715.49
Total	100.00%	\$193,993.86

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	958,050,446	\$0.00009
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00014
		<u>\$/kW</u>
SC2D	1,127,791	\$0.03
SC3	1,400,059	\$0.04
SC3A	1,500,948	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$0.00015

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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: \$934,242.77

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$529,248.53
SC1C	1.18%	\$11,024.06
SC2ND	3.30%	\$30,830.01
SC2D	18.62%	\$173,956.00
SC3-Secondary	18.51%	\$172,928.34
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$6,913.40
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$9,342.43
Total	100.00%	\$934,242.77

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	958,050,446	\$0.00055
SC1C	24,248,109	\$0.00045
SC2ND	54,341,484	\$0.00057
		<u>\$/kW</u>
SC2D	1,127,791	\$0.15
SC3-Secondary	886,555	\$0.20
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.04
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$0.00081

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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: \$15,177.60

Subtransmission/Transmission Cost Allocation

Service Class (with Voltage Delivery Level)	<u>ICP Allocator</u>	
SC1	40.99%	\$6,221.30
SC1C	0.81%	\$122.94
SC2ND	2.54%	\$385.51
SC2D	14.46%	\$2,194.68
SC3-Secondary	13.34%	\$2,024.69
SC3-Primary	5.15%	\$781.65
SC3-Subtransmission/Transmission	1.65%	\$250.43
SC3A-Secondary/Primary	2.98%	\$452.29
SC3A-Sub Transmission	3.75%	\$569.16
SC3A-Transmission	14.31%	\$2,171.91
Streetlighting	0.02%	\$3.04
Total	100.00%	\$15,177.60

Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	958,050,446	\$0.00001
SC1C	24,248,109	\$0.00001
SC2ND	54,341,484	\$0.00001
		<u>\$/kW</u>
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		<u>\$/kWh</u>
Streetlighting	11,596,640	\$0.00000

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Value Stack Cost Recovery Mechanisms
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LSRV Cost Recovery
Rule 40.3.2.6

Total VDER Value Stack LSRV Component Paid to **Secondary/Primary** Projects: \$8,027.57

Secondary/Primary Cost Allocation

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	56.65%	\$4,547.62
SC1C	1.18%	\$94.73
SC2ND	3.30%	\$264.91
SC2D	18.62%	\$1,494.73
SC3-Secondary	18.51%	\$1,485.90
SC3-Primary	0.00%	\$0.00
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	0.74%	\$59.40
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	1.00%	\$80.28
Total	100.00%	\$8,027.57

Secondary/Primary Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	958,050,446	\$0.00000
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00000
		\$/kW
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		\$/kWh
Streetlighting	11,596,640	\$0.00001

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Value Stack Cost Recovery Mechanisms
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LSRV Cost Recovery
Rule 40.3.2.6

Total VDER Value Stack LSRV Component Paid to **Subtransmission/Transmission** Projects: \$0.00

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	958,050,446	\$0.00000
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00000
		\$/kW
SC2D	1,127,791	\$0.00
SC3-Secondary	886,555	\$0.00
SC3-Primary	366,943	\$0.00
SC3-Subtransmission/Transmission	146,561	\$0.00
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.00
SC3A-Transmission	1,033,716	\$0.00
		\$/kWh
Streetlighting	11,596,640	\$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: \$72,110.03

Cost Allocation

Service Class (with Voltage Delivery Level)	<u>Allocator</u>	
SC1	95.64%	\$68,962.56
SC1C	0.00%	\$0.00
SC2ND	4.36%	\$3,147.47
Total	100.00%	\$72,110.03

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	<u>Forecast</u>	<u>\$/kWh</u>
SC1	958,050,446	\$0.00007
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00006

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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: \$786,773.19

Cost Allocation

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.73%	\$336,211.53
SC1C	0.00%	\$0.00
SC2ND	3.26%	\$25,655.47
SC2D	20.01%	\$157,395.47
SC3-Secondary	23.47%	\$184,679.56
SC3-Primary	7.75%	\$60,960.31
SC3-Subtransmission/Transmission	1.19%	\$9,350.98
SC3A-Secondary/Primary	0.01%	\$102.38
SC3A-Sub Transmission	0.82%	\$6,468.59
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.76%	\$5,948.90
Total	100.00%	\$786,773.19

Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	\$/kWh
SC1	958,050,446	\$0.00035
SC1C	24,248,109	\$0.00000
SC2ND	54,341,484	\$0.00047
		\$/kW
SC2D	1,127,791	\$0.14
SC3-Secondary	886,555	\$0.21
SC3-Primary	366,943	\$0.17
SC3-Subtransmission/Transmission	146,561	\$0.06
SC3A-Secondary/Primary	184,648	\$0.00
SC3A-Sub Transmission	282,584	\$0.02
SC3A-Transmission	1,033,716	\$0.00
Streetlighting	11,596,640	\$0.00051

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