STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 73 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

2022 4 37 41	D CONTRACT			A	/4 ** *
2022 Average Monthly	NVISO	ot Alletion ('s	macity Price.	\$2.56	/ Iz \ \ \ /
2022 Average Monthly	TATION OF	$o_i Auchon C_i$	ipacity i licc.	92.30	/ IX V V

Total of Alternative 1 VDER Projects' Net Injections at hour of NYISO Peak: 143,323 kW

Total Alternative 1 Capacity Market Value Cost to Recover: \$367,025.55

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$156,719.91
SC1C	0.84%	\$3,083.01
SC2ND	2.60%	\$9,542.66
SC2D	13.77%	\$50,539.42
SC3-Secondary	12.44%	\$45,657.98
SC3-Primary	5.03%	\$18,461.39
SC3-Subtransmission/Transmission	1.79%	\$6,569.76
SC3A-Secondary/Primary	2.46%	\$9,028.83
SC3A-Sub Transmission	3.83%	\$14,057.08
SC3A-Transmission	14.53%	\$53,328.81
Streetlighting	0.01%	\$36.70
Total	100.00%	\$367,025.55

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00018
SC1C	21,217,150	\$0.00015
SC2ND	56,733,249	\$0.00017
		<u>\$/kW</u>
SC2D	1,088,655	\$0.05
SC3-Secondary	854,147	\$0.05
SC3-Primary	354,318	\$0.05
SC3-Subtransmission/Transmission	142,752	\$0.05
SC3A-Secondary/Primary	184,303	\$0.05
SC3A-Sub Transmission	285,199	\$0.05
SC3A-Transmission	1,040,061	\$0.05
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

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## <u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

### Capacity Market Value Cost Recovery - ALTERNATIVE 2 Rule 40.3.2.1

2022 Arrana an Month	WINTED Const	Amatian Can	a aiter Deiaa.	ea 5 (	/1_337
2022 Average Month	IV IN I 130 3001	Auction Car	bachty Price:	\$2.56	/KW

Total of Alternative 2 VDER Projects' Net Injections at hour of NYISO Peak: 56,213 kW

Total Alternative 2 Capacity Market Value Cost to Recover: \$143,951.87

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$61,467.45
SC1C	0.84%	\$1,209.20
SC2ND	2.60%	\$3,742.75
SC2D	13.77%	\$19,822.17
SC3-Secondary	12.44%	\$17,907.61
SC3-Primary	5.03%	\$7,240.78
SC3-Subtransmission/Transmission	1.79%	\$2,576.74
SC3A-Secondary/Primary	2.46%	\$3,541.22
SC3A-Sub Transmission	3.83%	\$5,513.36
SC3A-Transmission	14.53%	\$20,916.21
Streetlighting	0.01%	\$14.40
Total	100.00%	\$143,951.87

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00007
SC1C	21,217,150	\$0.00006
SC2ND	56,733,249	\$0.00007
		<u>\$/kW</u>
SC2D	1,088,655	\$0.02
SC3-Secondary	854,147	\$0.02
SC3-Primary	354,318	\$0.02
SC3-Subtransmission/Transmission	142,752	\$0.02
SC3A-Secondary/Primary	184,303	\$0.02
SC3A-Sub Transmission	285,199	\$0.02
SC3A-Transmission	1,040,061	\$0.02
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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

Total Alternative 3 Capacity Market Value Cost to Recover:	\$12.80
Total of Alternative 3 VDER Projects' Net Injections at hour of NYISO Peak:	5 kW
2022 Average Monthly NYISO Spot Auction Capacity Price:	\$2.56 /kW

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$5.47
SC1C	0.84%	\$0.11
SC2ND	2.60%	\$0.33
SC2D	13.77%	\$1.76
SC3-Secondary	12.44%	\$1.59
SC3-Primary	5.03%	\$0.64
SC3-Subtransmission/Transmission	1.79%	\$0.23
SC3A-Secondary/Primary	2.46%	\$0.31
SC3A-Sub Transmission	3.83%	\$0.49
SC3A-Transmission	14.53%	\$1.86
Streetlighting	0.01%	\$0.00
Total	100.00%	\$12.80

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00000
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	\$0.00000
		<u>\$/kW</u>
SC2D	1,088,655	\$0.00
SC3-Secondary	854,147	\$0.00
SC3-Primary	354,318	\$0.00
SC3-Subtransmission/Transmission	142,752	\$0.00
SC3A-Secondary/Primary	184,303	\$0.00
SC3A-Sub Transmission	285,199	\$0.00
SC3A-Transmission	1,040,061	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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): \$510,990.22

Total VDER Value Stack Capacity Component Paid to Projects: \$1,912,156.97

Total Capacity Out of Market Value Cost to Recover: \$1,401,166.75

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.04%	\$589,015.81
SC1C	0.00%	\$56.28
SC2ND	3.05%	\$42,793.31
SC2D	20.66%	\$289,509.36
SC3	26.86%	\$376,423.16
SC3A	6.11%	\$85,555.24
Streetlighting	1.27%	\$17,813.58
Total	100.00%	\$1,401,166.75

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00068
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	\$0.00075
		<u>\$/kW</u>
SC2D	1,088,655	\$0.27
SC3	1,351,216	\$0.28
SC3A	1,509,563	\$0.06
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00124

Received: 10/18/2023

P.S.C. 220 ELECTRICITY NIAGARA MOHAWK POWER CORPORATION INITIAL EFFECTIVE DATE: OCTOBER 30, 2023 STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 73 PAGE 5 OF 12

## <u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

## Environmental Market Value Cost Recovery<sup>1</sup> Rule 40.3.2.3

Total of VDER Projects' Net Injections during recovery month:	109,222,113 kWh
Total Environmental Market Value Cost to Recover:	\$3,999,713.78

#### 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 2023 Quarter 3 Tier 1 REC Sale Price of \$36.62/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): \$3,999,713.78

Total VDER Value Stack Environmental Component Paid to Projects: \$2,433,684.29

Total Environmental Out of Market Value Cost to Recover: -\$1,566,029.49

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	Allocator	
SC1	44.06%	-\$689,958.93
SC1C	0.00%	-\$73.27
SC2ND	3.41%	-\$53,357.07
SC2D	21.05%	-\$329,602.34
SC3	25.27%	-\$395,714.44
SC3A	4.88%	-\$76,376.71
Streetlighting	1.34%	-\$20,946.73
Total	100.00%	-\$1,566,029,49

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	-\$0.00079
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	-\$0.00094
		<u>\$/kW</u>
SC2D	1,088,655	-\$0.30
SC3	1,351,216	-\$0.29
SC3A	1,509,563	-\$0.05
		<u>\$/kWh</u>
Streetlighting	14,310,262	-\$0.00146

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## <u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

### **DRV Cost Recovery Rule 40.3.2.5**

Total VDER Value Stack DRV Component Paid to **Secondary/Primary** Customers: \$4,864,383.85

#### **Secondary/Primary Cost Allocation**

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$2,623,362.21
SC1C	1.11%	\$53,994.66
SC2ND	3.11%	\$151,282.34
SC2D	16.32%	\$793,867.44
SC3-Secondary	15.50%	\$753,979.50
SC3-Primary	6.21%	\$302,078.24
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$148,363.71
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$37,455.76
Total	100.00%	\$4.864.383.85

#### **Secondary/Primary Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00302
SC1C	21,217,150	\$0.00254
SC2ND	56,733,249	\$0.00267
		<u>\$/kW</u>
SC2D	1,088,655	\$0.73
SC3-Secondary	854,147	\$0.88
SC3-Primary	354,318	\$0.85
SC3-Subtransmission/Transmission	142,752	\$0.00
SC3A-Secondary/Primary	184,303	\$0.80
SC3A-Sub Transmission	285,199	\$0.00
SC3A-Transmission	1,040,061	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00262

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## <u>Value Stack Cost Recovery Mechanisms</u> **VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)**

### **DRV Cost Recovery Rule 40.3.2.5**

Total VDER Value Stack DRV Component Paid to **Subtransmission/Transmission** Customers: \$166,004.67

#### **Subtransmission/Transmission Cost Allocation**

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$70,883.99
SC1C	0.84%	\$1,394.44
SC2ND	2.60%	\$4,316.12
SC2D	13.77%	\$22,858.84
SC3-Secondary	12.44%	\$20,650.98
SC3-Primary	5.03%	\$8,350.03
SC3-Subtransmission/Transmission	1.79%	\$2,971.48
SC3A-Secondary/Primary	2.46%	\$4,083.71
SC3A-Sub Transmission	3.83%	\$6,357.98
SC3A-Transmission	14.53%	\$24,120.48
Streetlighting	0.01%	\$16.60
Total	100.00%	\$166,004,67

#### **Subtransmission/Transmission Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00008
SC1C	21,217,150	\$0.00007
SC2ND	56,733,249	\$0.00008
		<u>\$/kW</u>
SC2D	1,088,655	\$0.02
SC3-Secondary	854,147	\$0.02
SC3-Primary	354,318	\$0.02
SC3-Subtransmission/Transmission	142,752	\$0.02
SC3A-Secondary/Primary	184,303	\$0.02
SC3A-Sub Transmission	285,199	\$0.02
SC3A-Transmission	1,040,061	\$0.02
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$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 Customers:	\$66,934.67
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#### **Secondary/Primary Cost Allocation**

Service Class (with Voltage Delivery Level)	NCP Allocator	
SC1	53.93%	\$36,097.87
SC1C	1.11%	\$742.97
SC2ND	3.11%	\$2,081.67
SC2D	16.32%	\$10,923.74
SC3-Secondary	15.50%	\$10,374.87
SC3-Primary	6.21%	\$4,156.64
SC3-Subtransmission/Transmission	0.00%	\$0.00
SC3A-Secondary/Primary	3.05%	\$2,041.51
SC3A-Sub Transmission	0.00%	\$0.00
SC3A-Transmission	0.00%	\$0.00
Streetlighting	0.77%	\$515.40
Total	100.00%	\$66,934,67

#### **Secondary/Primary Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00004
SC1C	21,217,150	\$0.00004
SC2ND	56,733,249	\$0.00004
		<u>\$/kW</u>
SC2D	1,088,655	\$0.01
SC3-Secondary	854,147	\$0.01
SC3-Primary	354,318	\$0.01
SC3-Subtransmission/Transmission	142,752	\$0.00
SC3A-Secondary/Primary	184,303	\$0.01
SC3A-Sub Transmission	285,199	\$0.00
SC3A-Transmission	1,040,061	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00004

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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** Customers: \$1,515.13

#### **Subtransmission/Transmission Cost Allocation**

Service Class (with Voltage Delivery Level)	1CP Allocator	
SC1	42.70%	\$646.96
SC1C	0.84%	\$12.73
SC2ND	2.60%	\$39.39
SC2D	13.77%	\$208.63
SC3-Secondary	12.44%	\$188.48
SC3-Primary	5.03%	\$76.21
SC3-Subtransmission/Transmission	1.79%	\$27.12
SC3A-Secondary/Primary	2.46%	\$37.27
SC3A-Sub Transmission	3.83%	\$58.03
SC3A-Transmission	14.53%	\$220.15
Streetlighting	0.01%	\$0.15
Total	100.00%	\$1.515.13

### Subtransmission/Transmission Rate Design by Forecast

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00000
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	\$0.00000
		<u>\$/kW</u>
SC2D	1,088,655	\$0.00
SC3-Secondary	854,147	\$0.00
SC3-Primary	354,318	\$0.00
SC3-Subtransmission/Transmission	142,752	\$0.00
SC3A-Secondary/Primary	184,303	\$0.00
SC3A-Sub Transmission	285,199	\$0.00
SC3A-Transmission	1,040,061	\$0.00
		<u>\$/kWh</u>
Streetlighting	14,310,262	\$0.00000

Received: 10/18/2023

P.S.C. 220 ELECTRICITY NIAGARA MOHAWK POWER CORPORATION INITIAL EFFECTIVE DATE: OCTOBER 30, 2023 STATEMENT TYPE: VDER-CR ATTACHMENT 3 FOR STATEMENT NO. 73 PAGE 11 OF 12

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

#### MTC Cost Recovery Rule 40.3.2.7

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Total VDER Value S	Stack MTC Component 1	Paid to Customers:	\$57,223.88

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	Allocator	
SC1	94.59%	\$54,129.40
SC1C	0.00%	\$0.00
SC2ND	5.41%	\$3,094.48
Total	100.00%	\$57,223,88

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00006
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	\$0.00005

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### <u>Value Stack Cost Recovery Mechanisms</u> <u>VALUE OF DISTRIBUTED ENERGY RESOURCES (VDER)</u>

### Community Credit Cost Recovery Rule 40.3.2.7

Total VDER Value Stack Community Credit Component Paid to Customers: \$1,153,436.31

#### **Cost Allocation**

Service Class (with Voltage Delivery Level)	Allocator	
SC1	42.18%	\$486,467.93
SC1C	0.00%	\$0.00
SC2ND	3.01%	\$34,709.78
SC2D	23.06%	\$265,937.34
SC3-Secondary	20.46%	\$235,988.91
SC3-Primary	7.50%	\$86,531.39
SC3-Subtransmission/Transmission	0.47%	\$5,367.34
SC3A-Secondary/Primary	0.65%	\$7,496.06
SC3A-Sub Transmission	0.37%	\$4,306.02
SC3A-Transmission	1.07%	\$12,311.97
Streetlighting	1.24%	\$14,319.57
Total	100.00%	\$1,153,436.31

#### **Rate Design by Forecast**

Service Class (with Voltage Delivery Level)	Forecast	<u>\$/kWh</u>
SC1	868,052,580	\$0.00056
SC1C	21,217,150	\$0.00000
SC2ND	56,733,249	\$0.00061
		<u>\$/<b>kW</b></u>
SC2D	1,088,655	\$0.24
SC3-Secondary	854,147	\$0.28
SC3-Primary	354,318	\$0.24
SC3-Subtransmission/Transmission	142,752	\$0.04
SC3A-Secondary/Primary	184,303	\$0.04
SC3A-Sub Transmission	285,199	\$0.02
SC3A-Transmission	1,040,061	\$0.01
Streetlighting	14,310,262	\$0.00100