



March 31, 2023

VIA ELECTRONIC MAIL

Ms. Sherri L. Golden
Secretary of the Board
State of New Jersey
Board of Public Utilities
44 South Clinton Avenue, 1st Floor,
PO Box 350
Trenton, New Jersey 08625-0350

Re: In the Matter of the Petition of Rockland Electric Company Requesting Approval of a Tariff Amendment to Add Basic Generation Service (BGS) Time-of-Use Rates Pursuant to N.J.A.C. 14: 1-5.11 and N.J.A.C. 14:3-1.3 BPU Docket No.

Dear Secretary Golden:

Rockland Electric Company (the "Company" or "RECO") hereby submits for filing with the Board of Public Utilities (the "Board") in draft format Leaf No. 50 to its Schedule for Electric Service B.P.U. No. 3 – ELECTRICITY.

The Board's November 9, 2022 Order in Docket No. ER22030127 ("November Order")¹ directed the New Jersey Electric Distribution Companies ("EDCs") to establish a "BGS Time-of-Use ("TOU") rate" to address Electric Vehicle ("EV") charging "on the residential supply side to take effect June 1, 2023." The Company is making this filing pursuant to N.J.A.C. 14:3-1.3(a)² and N.J.A.C. 14:1-5.11.³

The Board's <u>Decision and Order Approving Stipulation</u> dated October 12, 2022⁴ (the "October Order") approved a stipulation which included a new Service Classification ("SC") No. 1 Distribution Charge applicable to Voluntary-Time-of-Day ("TOD")⁵ Service. On October 28, 2022, the Company submitted a compliance filing amending its tariff in compliance with the October Order, to be effective October 31, 2022.

In the section titled "EV BGS Rates Issues" in the November Order, the Board noted that "the distribution side of residential EV charging was addressed in some of the EDC's EV

¹ In the Matter of the Provision of Basic Generation Service (BGS) for the Period Beginning June 1, 2023, BPU Docket No. ER22030127, Order dated November 9, 2022.

² N.J.A.C. 14:3-1.3(a) requires that "each public utility shall, prior to offering a utility service to the public, submit a tariff or tariff amendments to the Board for approval, with electronic copy to Rate Counsel."

³ N.J.A.C. 14:1-5.11 addresses tariff filings that do not propose increases in charges to customers.

⁴ In the Matter of the Petition of Rockland Electric Company for Approval of an Electric Vehicle Program, Establishment of an Electric Vehicle Surcharge, and for Other Relief, BPU Docket No. EO20110730, Order dated October 12, 2022.

⁵ The terms TOD and TOU have the same meaning.

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proceedings," and included a footnote identifying RECO's October Order. The November Order also stated that, "The Board believes a BGS Time-of-Use ("TOU") rate can be created and **HEREBY ORDERS** the EDCs to create a similar solution on the residential supply side to take effect June 1, 2023."

As required by the November Order, this filing proposes a residential supply side solution to be applicable to customers electing the Company's SC No. 1 Voluntary TOD Service approved by the Board. The Company is filing as Attachment A to this letter, a draft revised tariff leaf that would become effective June 1, 2023. This draft tariff leaf reflects new SC No. 1 TOD BGS Charges that would be applicable to customers who elect the Company's Voluntary TOD Service. In determining the SC No. 1 TOD BGS Charges, the Company has utilized the same rate design used for the BGS – Residential and Small Commercial Pricing rates applicable to all other SCs. Attachments B and C contain that rate design.

The Company also requests that all costs associated with the revised tariff (including costs of upgrading RECO systems) flow through the Company's quarterly BGS Reconciliation charge, consistent with the Board's November 18, 2020 Order in Docket No. ER20030190.

Please note that the Company is making this filing solely in electronic form pursuant to the Board's directive in its Emergency Order dated March 19, 2020 in BPU Docket No. EO20030254.

Any questions regarding this filing can be directed to Cheryl Ruggiero at (212) 460-3189 or at ruggieroc@coned.com.

Respectfully submitted,

/s/

William A. Atzl, Jr. Director – Rate Engineering

DRAFT

Revised Leaf No. 50 Superseding Revised Leaf No. 50

GENERAL INFORMATION

No. 31 BASIC GENERATION SERVICE ("BGS")

(1) <u>Basic Generation Service – Residential Small Commercial Pricing (BGS-RSCP)</u> Applicable to Service Classification Nos. 1, 2, 3, 4, and 6

Applicable to Service Classification Nos. 1, 2 (Non-Demand Billed), 3, 4, and 6 Charges per kilowatthour:

| Service Classification | Summer Months* | Other Months |
|-----------------------------------|----------------|--------------|
| 1 (Non-TOD) – First 600 kWh | 4.599¢ | 7.879¢ |
| 1 (Non-TOD) – Over 600 kWh | 9.956¢ | 7.879¢ |
| 1 (TOD) – Peak | X.XXX¢ | X.XXX¢ |
| 1 (TOD) – Off-Peak | X.XXX¢ | X.XXX¢ |
| 2 - (Non-Demand Billed) - All kWh | 6.823¢ | 6.598¢ |
| 3 – Peak | 10.497¢ | 10.166¢ |
| 3 – Off-Peak | 5.497¢ | 5.890¢ |
| 4 – All kWh | 6.228¢ | 6.170¢ |
| 6 – All kWh | 6.221¢ | 6.150¢ |

Applicable to Service Classification No. 2 Demand Billed customers who do not take BGS-CIEP service in accordance with General Information Section No. 31(2):

| | Summer Months* | Other Months | | | | |
|--------------------|----------------|--------------|--|--|--|--|
| Demand Charges | | | | | | |
| First 5 kW (\$/kW) | 0.93 | 1.05 | | | | |
| Over 5 kW (\$/kW) | 3.42 | 2.71 | | | | |
| Usage Charges | | | | | | |
| All kWh (¢/kWh) | 6.165¢ | 6.062¢ | | | | |

The above Basic Generation Service Charges reflect costs for Energy, Generation Capacity, and Ancillary Services (including ISO Administrative Charges).

*Definition of Summer Billing Months - June through September

(Continued)

ISSUED: EFFECTIVE:

ISSUED BY: Robert Sanchez, President Mahwah, New Jersey 07430

Development of BGS Cost and Bid Factors for Rates Effective June 1, 2023

Table #1

Based on 2022 Load Profile Information

On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays % Usage During PJM On-Peak Period

| | | | Profile Meter | | | Profile Meter |
|-----------|--------------------|--------------------|---------------|----------------|--------|---------------|
| | Profile Meter Data | Profile Meter Data | Data | Other Analysis | | Data |
| | <u>SC1</u> | SC3 | SC2 ND | SC4 | SC6 | SC2 Dem |
| January | 48.84% | 44.39% | 31.84% | 50.34% | 50.34% | 51.00% |
| February | 51.74% | 46.03% | 33.60% | 53.20% | 53.20% | 53.06% |
| March | 53.28% | 48.02% | 33.82% | 55.58% | 55.58% | 55.93% |
| April | 51.09% | 44.76% | 31.51% | 52.53% | 52.53% | 54.01% |
| May | 51.33% | 43.24% | 26.75% | 53.05% | 53.05% | 53.55% |
| June | 55.53% | 47.70% | 27.37% | 56.32% | 56.32% | 57.39% |
| July | 52.01% | 41.21% | 24.43% | 49.75% | 49.75% | 52.15% |
| August | 59.02% | 47.22% | 28.37% | 56.90% | 56.90% | 58.67% |
| September | 52.80% | 43.63% | 32.55% | 52.10% | 52.10% | 54.60% |
| October | 49.82% | 43.07% | 32.00% | 50.72% | 50.72% | 53.36% |
| November | 49.80% | 45.26% | 33.05% | 52.17% | 52.17% | 53.49% |
| December | 49.68% | 44.35% | 31.91% | 51.31% | 51.31% | 50.98% |

% Usage During RECO On-Peak Billing Period Table #2

On-Peak periods as defined in specified rate schedule

| | N/A | | N/A | N/A | N/A | N/A | |
|-----------------------------|------------|------------|--------|------------|------------|---------|---------|
| (data rounded to nearest %) | <u>SC1</u> | <u>SC3</u> | SC2 ND | <u>SC4</u> | <u>SC6</u> | SC2 Dem | SC1 TOD |
| | | | | | | | |
| January | | 32.6% | | | | | 23.2% |
| February | | 35.9% | | | | | 24.4% |
| March | | 33.6% | | | | | 23.4% |
| April | | 34.8% | | | | | 22.7% |
| May | | 36.0% | | | | | 26.5% |
| June | | 39.5% | | | | | 30.5% |
| July | | 41.7% | | | | | 31.4% |
| August | | 42.9% | | | | | 31.8% |
| September | | 41.8% | | | | | 29.4% |
| October | | 40.0% | | | | | 24.1% |
| November | | 37.6% | | | | | 26.0% |
| December | | 35.8% | | | | | 24.6% |

| Table #3 | Class | Usage | @ | customer |
|----------|-------|-------|---|----------|
|----------|-------|-------|---|----------|

| Calendar month billed sales forecas | sted for 2023 | | | | | | |
|-------------------------------------|---------------|-----------|--------------|------------|------------|---------------|---------------|
| in MWh | <u>SC1</u> | SC3 | SC2 ND | SC4 | <u>SC6</u> | SC2 Dem | <u>Total</u> |
| January | 57,249 | 33 | 1,609 | 671 | 476 | 35,510 | 95,547 |
| February | 51,407 | 29 | 1,858 | 580 | 423 | 31,572 | 85,869 |
| March | 47,197 | 25 | 2,085 | 553 | 379 | 30,303 | 80,541 |
| April | 43,981 | 26 | 1,248 | 457 | 391 | 32,629 | 78,732 |
| May | 44,146 | 21 | 970 | 414 | 380 | 28,833 | 74,763 |
| June | 59,018 | 28 | 950 | 378 | 341 | 31,531 | 92,246 |
| July | 81,819 | 34 | 1,121 | 408 | 337 | 35,806 | 119,525 |
| August | 88,718 | 36 | 1,173 | 462 | 342 | 39,218 | 129,949 |
| September | 74,963 | 32 | 1,077 | 509 | 407 | 37,494 | 114,481 |
| October | 52,253 | 22 | 1,024 | 586 | 479 | 32,831 | 87,194 |
| November | 44,519 | 21 | 991 | 631 | 519 | 29,854 | 76,535 |
| December | <u>53,488</u> | <u>30</u> | <u>1,505</u> | <u>680</u> | <u>514</u> | <u>32,184</u> | <u>88,399</u> |
| Total | 698,755 | 337 | 15,611 | 6,326 | 4,987 | 397,767 | 1,123,782 |

Table #4 Forwards Prices - Energy Only @ bulk system

in \$/MWh (See Table 18)

Table #5

| III \$/IVIVIII (See Table 10) | | | | | | |
|-------------------------------|------------|----------|---------|------------|------------|---------|
| | On-Peak | Off-Peak | | | | |
| January | 100.94 | 84.19 | | | | |
| February | 94.22 | 78.77 | | | | |
| March | 53.77 | 44.31 | | | | |
| April | 46.05 | 38.04 | | | | |
| May | 45.30 | 37.30 | | | | |
| June | 51.65 | 34.76 | | | | |
| July | 68.53 | 45.74 | | | | |
| August | 60.95 | 40.68 | | | | |
| September | 48.29 | 32.88 | | | | |
| October | 44.72 | 36.51 | | | | |
| November | 48.87 | 39.87 | | | | |
| December | 67.49 | 56.49 | | | | |
| | | | | | | |
| Losses | <u>SC1</u> | SC3 | SC2 ND | <u>SC4</u> | <u>SC6</u> | SC2 Dem |
| Expansion Factor = | 1.08640 | 1.08640 | 1.08640 | 1.08261 | 1.08261 | 1.08640 |
| • | | | | | | |
| Expansion Factor (net | | | | | | |
| Marginal Losses) | 1.07635 | 1.07635 | 1.07338 | 1.07261 | 1.06614 | 1.07635 |
| • | | | | | | |

Table #6 Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods based on Forwards prices corrected for basis differential & losses in \$/MWh

| | | <u>SC1</u> | SC3 | SC2 ND | <u>SC4</u> | <u>SC6</u> | SC2 Dem |
|------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Summer - all hrs | | \$ 53.74 | \$ 51.39 | \$ 47.82 | \$ 52.36 | \$ 52.23 | \$ 53.36 |
| | PJM on pk | \$ 63.08 | \$ 62.59 | \$ 61.95 | \$ 61.63 | \$ 61.47 | \$ 62.35 |
| | PJM off pk | \$ 42.35 | \$ 42.28 | \$ 42.28 | \$ 41.59 | \$ 41.51 | \$ 42.06 |
| Winter - all hrs | | \$ 63.84 | \$ 64.65 | \$ 63.59 | \$ 64.11 | \$ 62.79 | \$ 63.36 |
| | PJM on pk | \$ 69.57 | \$ 71.43 | \$ 72.24 | \$ 69.63 | \$ 68.23 | \$ 68.52 |
| | PJM off pk | \$ 57.97 | \$ 59.12 | \$ 59.49 | \$ 58.07 | \$ 56.84 | \$ 57.52 |
| Annual | | \$ 59.44 | \$ 59.54 | \$ 59.22 | \$ 60.85 | \$ 59.77 | \$ 59.74 |
| System Total | | \$ 59.55 | | | | | |

Table #7 Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods based on Forwards prices corrected for basis differential & losses in \$1000

| | | <u>SC1</u> | SC3 | SC2 ND | <u>SC4</u> | SC6 | SC2 Dem |
|------------------|------------|--------------|----------|-----------|------------|-----------|--------------|
| Summer - all hrs | | \$ 16,364 | \$ 7 | \$ 207 | \$ 92 | \$ 75 | \$ 7,686 |
| | PJM on pk | \$ 10,551 | \$ 4 | \$ 75 | \$ 58 | \$ 47 | \$ 5,003 |
| | PJM off pk | \$ 5,813 | \$ 3 | \$ 131 | \$ 34 | \$ 27 | \$ 2,683 |
| Winter - all hrs | | \$ 25,170 | \$ 13 | \$ 718 | \$ 293 | \$ 224 | \$ 16,077 |
| | PJM on pk | \$ 13,887 | \$ 7 | \$ 262 | \$ 166 | \$ 127 | \$ 9,234 |
| | PJM off pk | \$ 11,283 | \$ 7 | \$ 456 | \$ 127 | \$ 97 | \$ 6,843 |
| Annual | | \$ 41,533 | \$ 20 | \$ 925 | \$ 385 | \$ 298 | \$ 23,763 |
| System Total | | \$ 66,924 | | | | | |

Table #8 Summary of Average BGS Energy Only Unit Costs @ customer - RECO Time Periods
based on Forwards prices corrected for basis differential & losses - RECO billing time periods in \$/MWh

| | | | | <u>SC1</u> | | SC3 | | SC2 ND | SC4 | | SC6 | SC2 Dem | | SC1 TOD | |
|-----------|--|---|------------------|---------------------------|--|-------------------------|-----|-----------------------------|---------------|-------|--|------------------------|----------------|-------------------------|------------------------|
| | | RECO On pk RECO Off pk | \$ | 53.74 | \$ \$ \$ | 51.39 63.26 42.95 | \$ | 47.82 | \$ 52.36 | \$ | 52.23 | \$ 53.36 | \$ \$ \$ | 53.74 67.99 47.26 | |
| | | RECO On pk RECO Off pk | \$ | 63.84 | \$ \$ \$ | 64.65 72.59 60.28 | \$ | 63.59 | \$ 64.11 | \$ | 62.79 | \$ 63.36 | \$ \$ \$ | 63.84 72.62 61.02 | |
| | Annual Average System Average | | \$ \$ | 59.44 59.55 | \$ | 59.54 | \$ | 59.22 | \$ 60.85 | \$ | 59.77 | \$ 59.74 | \$ | 59.44 | |
| Table #9 | Generation & Trans Obligations - annual | | | | | t estimat | tes | | | | | | | | |
| | in MW | | | <u>SC1</u> | | SC3 | | SC2 ND | <u>SC4</u> | | <u>SC6</u> | SC2 Dem | | <u>Total FP</u> | |
| | Gen Obl - MW | | | 303.503 | | 0.116 | | 2.803 | 0.0 | | 0.0 | 82.848 | | 389.270 | TRUE |
| | Trans Obl - MW | | | 294.013 | | 0.110 | | 2.774 | 0.0 | | 0.0 | 81.490 | | 378.387 | TRUE |
| | # of Months and Day | s used in this | analysis | 7 | # of summer days = # of winter days = | | | 122 244 | # of | winte | er months = er months = # months = | 4 8 12 | | | |
| | Transmission Cost* | | \$ | 42,548 | per MW-yr | | | 116.25 | | iotai | # IIIOIIIII3 = | 12 | | | |
| | Generation Capacity (see Table 19) | | summer winter | | | \$71.12 \$56.32 | | • | Resulting avg | gen | cap cost = | summer >> winter >> | | | per kW/yr per kW/yr |
| | Current residential su Current Tariff and % | | | | SC1 · | | | | | | | | | | |
| Table #10 | Calculate |) kWh/month) >600 kWh/m) ed inversion = | | Charges 4.599 9.956 | ¢/kWh ¢/kWh ¢/kWh | | | % usage 42.97% 57.03% | | | | | | | |

Table #10 Ancillary Services

forecasted overall annual average \$18.95 /MWh

Table #11 Summary of Obligation Costs Expressed as \$/MWh @ customer (for non-demand rates only)

| | <u>SC1</u> | SC3 | SC2 ND | SC4 | SC6 | SC1 TOD |
|-------------------------------|-------------|-------------|------------|---------|---------|-------------|
| Transmission Obl - all months | \$ 17.90 | \$ 13.89 | \$ 7.56 | \$ - | \$ - | \$ 17.90 |
| Generation Obl - | | | | | | |
| per annual MWh | \$ 9.74 | \$ 7.72 | \$ 4.03 | \$ - | \$ - | \$ 9.74 |
| per summer MWh | \$ 8.65 | \$ 7.74 | \$ 5.63 | \$ - | \$ - | \$ 8.65 |
| per winter MWh | \$ 10.58 | \$ 7.70 | \$ 3.41 | \$ - | \$ - | \$ 10.58 |

Table #12 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES (includes energy, G&T obligations, and Ancillary Services - adjusted to billing time periods in \$/MWh)

| | | | <u>SC1</u> | | SC3 | SC2 ND | SC4 | <u>SC6</u> | | SC1 TOD |
|------------------|---|----|--------------------------|----------------|---------------------------|-------------|-------------|-------------|----------------|---------------------------|
| Summer - all hrs | RECO On pk RECO Off pk Block 1 Block 2 | • | 99.24 68.69 122.26 | \$ \$ \$ | 91.97 114.72 75.79 | \$ 79.96 | \$ 71.31 | \$ 71.18 | \$ \$ \$ | 99.24 132.87 84.12 |
| Winter - all hrs | RECO On pk RECO Off pk | \$ | 111.28 | \$ \$ \$ | 105.19 127.10 93.12 | \$ 93.51 | \$ 83.06 | \$ 81.74 | \$ \$ \$ | 111.28 152.98 97.87 |
| Annual -all hrs | | \$ | 106.03 | \$ | 100.09 | \$ 89.76 | \$ 79.80 | \$ 78.72 | \$ | 106.03 |

DEMAND RATES (includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in \$/MWh)

| | | SC2 Dem | PLUS: | | | |
|-------------------------------|----|---------|--------------------------|--------------|-------------------|--------|
| Summer - all hrs | \$ | 72.31 | Gen Cost (per kW of Bill | led Demand/M | onth) | |
| | | | | | <u><</u> 5 kW | > 5 kW |
| Winter - all hrs | \$ | 82.31 | summer | \$ | 0.432 \$ | 1.677 |
| | | | winter | \$ | 0.625 \$ | 1.455 |
| | • | 70.00 | <u>Trans cost</u> | 0.55 | | |
| Annual - all hrs per MWh only | \$ | 78.69 | all months \$ | 3.55 per k | W of T obl /montl | n |

Table #12 (Continued)

| Including T&G Obligation \$ Summer - all hrs | \$ | 86.32 | Gen Cost (per kW of E | Billed Demand/M | lonth) | |
|--|-------------|---|--|-----------------|---------------------------------|---------------------------------|
| Winter - all hrs | \$ | 97.27 | summer winter | \$ | ≤ 5 kW 0.432 \$ 0.625 \$ | > 5 kW 1.677 1.455 |
| Annual - including T&G Obl \$ | \$ | 92.08 | | | | |
| ALL RATES Grand Total Cost in \$1000 All-In Avera All-In Average costs @ | ge cost @ c | 113,046 ustomer = \$ n nodes = \$ | 100.59 per MWh at customer (per customer n 93.47 per MWH at transmission nodes (per r | , | t transmission no | de) |

Table #13 Ratio of BGS Unit Costs @ customer to All-In Average Cost @ transmission nodes

NON-DEMAND RATES

Includes energy, G&T obligations, and Ancillary Services - adjusted to billing time periods

| | | SC1 | SC3 | SC2 ND | SC4 | <u>SC6</u> | SC1 TOD |
|------------------|----------------------------------|-------|----------------|--------|-------|------------|------------------|
| Summer - all hrs | RECO On pk RECO Off pk | 1.062 | 1.227 0.811 | 0.855 | 0.763 | 0.762 | 1.422 0.900 |
| | Constant Blk 1 Constant Blk 2 | (, | | | | | |
| Winter - all hrs | RECO On pk RECO Off pk | 1.191 | 1.360 0.996 | 1.000 | 0.889 | 0.875 | 1.6370 1.0470 |
| Annual - all hrs | | 1.134 | 1.071 | 0.960 | 0.854 | 0.842 | 1.1340 |

Table #13 (Continued)

DEMAND RATES

Includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods

| Summer - all hrs | SC2 Dem Multiplier 0.923 \$ | SC2 Dem Constant (14.008) | PLUS: Gen Cost (per kW of Billed Demar | ıd/Month) | |
|-------------------------------|-----------------------------------|---------------------------------|---|-----------------------|--------------|
| | | | | <u>≤</u> 5 kW | > 5 kW |
| Winter - all hrs | 1.041 \$ | (14.950) | summer \$ winter \$ | 0.62 6 | 1.68 1.46 |
| Annual - including T&G Obl \$ | 0.985 | | Trans cost all months \$ 3.546 pe | er kW of T obl /month | |

Table #14 Summary of BGS Unit Costs Less Transmission @ customer

NON-DEMAND RATES

Includes energy, generation capacity obligation, and Ancillary Services - adjusted to billing time periods. Transmission billed at retail tariff level. in \$/MWh

| | | <u>SC1</u> | | SC3 | SC2 ND | <u>SC4</u> | <u>SC6</u> | | SC1 TOD |
|------------------|---|--------------------------|----------------|--------------------------|-------------|-------------|-------------|----------------|--------------------------|
| Summer - all hrs | RECO On pk RECO Off pk Block 1 Block 2 | 81.33 50.78 104.35 | \$ \$ \$ | 78.09 100.83 61.90 | \$ 72.40 | \$ 71.31 | \$ 71.18 | \$ \$ \$ | 81.33 114.97 66.21 |
| Winter - all hrs | RECO On pk RECO Off pk | \$ 93.37 | \$ \$ \$ | 91.30 113.21 79.23 | \$ 85.95 | \$ 83.06 | \$ 81.74 | \$ \$ \$ | 93.37 135.08 79.97 |
| Annual -all hrs | | \$ 88.13 | \$ | 86.20 | \$ 82.20 | \$ 79.80 | \$ 78.72 | \$ | 88.13 |

Table #14 (Continued)

DEMAND RATES

Includes energy and Ancillary Services, generation obligation charged separately - adjusted to billing time periods. Transmission billed at retail tariff level. In \$/MWh.

| | | SC2 Dem | PLUS: | | | |
|--|-----------|---------------|--|-----------|----------------|------------------|
| Summer - all hrs | \$ | 72.31 | Gen Cost (per kW of Billed D | emand/Mo | onth) | |
| | | | | | < 5 kW | <u>> 5 kW</u> |
| Winter - all hrs | \$ | 82.31 | summer winter | \$ \$ | 0.432 0.625 | 1.677 1.455 |
| Annual - all hrs per MWh only | \$ | 78.69 | | | | |
| Including Generation Obligation \$ Summer - all hrs | \$ | 78.29 | | | | |
| Winter - all hrs | \$ | 88.15 | | | | |
| Annual - including T&G Obl \$ | \$ | 84.58 | | | | |
| ALL RATES | | | | | | |
| Grand Total Cost in \$1000 = | | 97,433 | 22 - 20 - 10 - 10 - 10 - 10 - 10 - 10 - | | | |
| All-In Average | | | 86.70 per MWh at customer (per customer metered MWh) | | | |
| All-In Average costs @ t | ansmissio | on nodes = \$ | 80.56 per MWh at tranmission node system (per metered MWh at tra | ansmissio | n node) | |

Table #15 Ratio of BGS Unit Costs Less Transmission @ customer to All-In Average Cost @ transmission nodes

NON-DEMAND RATES

Includes energy, G&T obligations, and Ancillary Services - adjusted to billing time periods

| | | <u>SC1</u> | SC3 | SC2 ND | SC4 | <u>SC6</u> | SC1 TOD |
|------------------|-------------------------------------|------------------|----------------|--------|-------|------------|----------------|
| Summer - all hrs | RECO On pk RECO Off pk | 1.010 | 1.252 0.768 | 0.899 | 0.885 | 0.884 | 1.427 0.822 |
| | Constant Blk 1 \$ Constant Blk 2 \$ | (30.55) 23.02 | | | | | |
| Winter - all hrs | RECO On pk RECO Off pk | 1.159 | 1.405 0.983 | 1.067 | 1.031 | 1.015 | 1.677 0.993 |
| Annual - all hrs | | 1.094 | 1.070 | 1.020 | 0.991 | 0.977 | 1.094 |

DEMAND RATES

includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods

| Summer - all hrs | SC2 Dem <u>Multiplier</u> 0.972 | SC2 Dem Constant (5.985) | PLUS: Gen Cost (per kW of Billed I | onth) | | |
|-------------------------------|---------------------------------------|--------------------------------|-------------------------------------|----------|----------------------|------------------|
| | | | | | < 5 kW | <u>> 5 kW</u> |
| Winter - all hrs | 1.094 | (5.840) | summer winter | \$ \$ | 0.432 \$ 0.625 \$ | 1.677 1.455 |
| Annual - including T&G Obl \$ | 1.050 | | | | | |

Table #16 Summary of Total BGS Costs by Season

| | <u>SC1</u> | SC3 | | SC2 ND | | SC4 | | <u>s</u> | C6 | | SC2 Dem | SC1 TOD | |
|---------------------------------|---------------|--------------------|------|------------|------|---------------|-----|------------|------|------|---------|----------------------|-------|
| Total Costs by Rate - in \$1000 | | | | | | | | | | | | | |
| Summer | \$ 30,219 | \$ 12 3 | \$ | 346 | \$ | 125 | \$ | 1 | 02 | \$ | 12,291 | \$ 30,219 | |
| Winter | \$ 43,869 | \$ 22 3 | \$ | 1,056 | \$ | 380 | \$ | 2 | 91 | \$ | 24,335 | \$ 43,869 | |
| Total | \$ 74,089 | \$ 34 | \$ | 1,401 | \$ | 505 | \$ | 3 | 93 | \$ | 36,625 | \$ 74,089 | |
| % of Annual Total \$ by Rate | | | | | | | | | | | | | |
| Summer | 41% | 35% | | 25% | | 25% | | 2 | 6% | | 34% | 41% | |
| Winter | 59% | 65% | | 75% | | 75% | 1 | 7 | 4% | | 66% | 59% | |
| Total Costs - in \$1000 | | | | | | | | | | | | | |
| Summer | \$ 43,095 | | | | | | | | | | | | |
| Winter | \$ 69,952 | | | | | | | | | | | | |
| Total | \$ 113,046 | | | | | | | | | | | | |
| % of Annual Total \$ | | If total \$ were s | plit | on a per M | Wh I | basis (on tra | nsm | nission no | de M | lWhs | s): | Ratio to All-In Cost | |
| Summer | 38% | | \$ | 87.77 | per | MWh @ trai | nsm | ission noo | des | | | Summer 0 | .9390 |
| Winter | 62% | \$ | \$ | 97.36 | per | MWh @ trai | nsm | ission noo | des | | | Winter 1 | .0417 |

Table #17 Summary of Total BGS Costs by Season - Less Transmission

| | <u>SC1</u> | SC3 | | SC2 ND | | <u>SC4</u> | | SC6 | SC2 Dem | SC1 TOD | |
|---------------------------------|-----------------|------------------|-------|------------|------|-----------------|------|-----------------|---------|-----------------|--------|
| Total Costs by Rate - in \$1000 | | | | | | | | | | | |
| Summer | \$ 24,768 \$ | 5 10 | \$ | 313 | \$ | 125 | \$ | 102 \$ | 11,135 | \$ 24,768 | |
| Winter | \$ 36,811 \$ | 5 19 | \$ | 970 | \$ | 380 | \$ | 291 \$ | 22,023 | \$ 36,811 | |
| Total | \$ 61,579 \$ | 29 | \$ | 1,283 | \$ | 505 | \$ | 393 \$ | 33,158 | \$ 61,579 | |
| % of Annual Total \$ by Rate | | | | | | | | | | | |
| Summer | 40% | 35% | | 24% | | 25% | | 26% | 34% | 40% | |
| Winter | 60% | 65% | | 76% | | 75% | | 74% | 66% | 60% | |
| Total Costs - in \$1000 | | | | | | | | | | | |
| Summer | \$ 36,453 | | | | | | | | | | |
| Winter | \$ 60,494 | | | | | | | | | | |
| Total | \$ 96,947 | | | | | | | | | | |
| % of Annual Total \$ | | If total \$ were | split | on a per M | Wh I | basis (on trans | smi | ission node MWh | ns): | Ratio to All-Ir | n Cost |
| Summer | 38% | | \$ | 74.24 | per | MWh @ trans | smis | ssion nodes | | Summer | 0.9216 |
| Winter | 62% | | \$ | 84.20 | per | MWh @ trans | smis | ssion nodes | | Winter | 1.0452 |

P.IM Forward Prices

Table #18 Forward Energy Prices

| | | | | Zone to western n | เนม | FJIVI FOI Walu Flices | > | | |
|-----------------------------|--------------------|-------------|----------|--------------------|----------|-----------------------|---------------------------|--|--|
| PJM Forward Prices - Energy | Only @ bulk system | | | Basis Differential | | (incl basis different | (incl basis differential) | | |
| in \$/MWh | _ | Off/On Peak | | in \$/MWh | | in \$/MWh | | | |
| | <u>On-Peak</u> | LMP ratio | Off-Peak | On-Peak | Off-Peak | <u>On-Peak</u> | Off-Peak | | |
| January | 105.85 | 0.7862 | 83.22 | 91% | 95% | 96.32 | 79.06 | | |
| February | 98.35 | 0.7862 | 77.32 | 91% | 95% | 89.50 | 73.45 | | |
| March | 56.95 | 0.7862 | 44.77 | 91% | 95% | 51.82 | 42.53 | | |
| April | 50.35 | 0.7862 | 39.59 | 91% | 95% | 45.82 | 37.61 | | |
| May | 50.45 | 0.7862 | 39.66 | 91% | 95% | 45.91 | 37.68 | | |
| June | 59.30 | 0.6456 | 38.28 | 88% | 91% | 52.18 | 34.83 | | |
| July | 77.45 | 0.6456 | 50.00 | 88% | 91% | 68.16 | 45.50 | | |
| August | 68.60 | 0.6456 | 44.29 | 88% | 91% | 60.37 | 40.30 | | |
| September | 55.65 | 0.6456 | 35.93 | 88% | 91% | 48.97 | 32.70 | | |
| October | 49.80 | 0.7862 | 39.15 | 91% | 95% | 45.32 | 37.19 | | |
| November | 52.90 | 0.7862 | 41.59 | 91% | 95% | 48.14 | 39.51 | | |
| December | 69.95 | 0.7862 | 54.99 | 91% | 95% | 63.65 | 52.24 | | |
| | | | | | | | | | |
| | | | | | | | | | |

Zone to Western Hub

NYISO Forward Prices - Energy Only @ bulk system in \$/MWh

On-Peak Off-Peak On-Peak January 135.25 122.25 January 100.94 February 129.25 118.25 February 94.22 68.25 53.77 March 57.50 March April 47.75 41.25 April 46.05 May 40.75 34.50 May 45.30 June 34.25 51.65 47.75 June July 71.25 47.50 July 68.53 65.25 60.95 August 43.50 August September 48.29 September 43.25 34.25 October 40.25 October 44.72 31.50 November 54.25 42.50 November 48.87 December 96.00 88.00 December 67.49

Weighted Average Forward Prices - Energy Only @ bulk system (88.1% PJM - 11.9% NYISO) in \$/MWh

Off-Peak

84.19

78.77

44.31

38.04

37.30

34.76

45.74

40.68

32.88

36.51

39.87

56.49

Attachment B
Page 12 of 12

ROCKLAND ELECTRIC COMPANY

Table #19 Generation Capacity Prices (\$/MW/Day)

| | PJM Base <u>Capacity</u> | PJM <u>88.1%</u> | NYISO <u>11.9%</u> | Weighted <u>Average</u> |
|--------|-----------------------------|---------------------|-----------------------|----------------------------|
| Summer | \$53.53 | \$53.53 | \$201.69 | \$71.12 |
| Winter | \$53.53 | \$53.53 | 77.00 | \$56.32 |

Table #20 Ancillary Services

| Weighted | NYISO | PJM | Renewable | NYISO Ancillary | PJM Ancillary |
|----------------|--------------|--------------|------------|-----------------|-----------------|
| <u>Average</u> | <u>11.9%</u> | <u>88.1%</u> | Power Cost | Services | <u>Services</u> |
| \$18.95 | \$19.16 | \$18.92 | \$16.92 | \$2.24 | \$2.00 |

Assumptions:

Gen Cost = \$71.12 per MW-day in summer

\$56.32 per MW-day in winter

Trans cost = \$ 42,548 per MW-yr

Analysis time period = 4 summer months

8 winter months

Ancillary Services = \$ 18.95 /MWh

Energy Costs = Based on Jun 2023 to May 2024 Forwards @ PJM West as of January 04, 2023

Based on Jun 2023 to May 2024 Forwards @ NYISO Zone G and Lower Hudson Valley (LHV) as of January 18, 2023

Usage patterns = Forecasted 2022 energy use by class, PJM on/off % from 2021 class load profiles,

RECO billing on/off % from 6/21 to 5/22 actual data

Obligations = Class totals for 2022

Losses = Per RECO's Third Party Supplier Agreement adjusted for PJM 500kV losses and inadvertent energy.

PJM Time Periods = PJM trading time periods - 7 AM to 11 PM weekdays, local time, x NERC

Holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas

RECO Billing time periods = as per specific rate schedule

Table B Ratio of BGS Unit Costs Less Transmission @ customer to All-In Average Cost @ transmission nodes (from Table 15 of Bid Factor Spreadsheet)

NON-DEMAND RATES

includes energy, G&T obligations, and Ancillary Services - adjusted to billing time periods

| | | <u>SC1</u> | <u>SC3</u> | SC2 ND | SC4 | <u>SC6</u> | SC1 TOD |
|------------------|-------------------------------------|------------------|----------------|--------|-------|------------|----------------|
| Summer - all hrs | RECO On pk RECO Off pk | 1.010 | 1.252 0.768 | 0.899 | 0.885 | 0.884 | 1.427 0.822 |
| | Constant Blk 1 \$ Constant Blk 2 \$ | (30.55) 23.02 | | | | | |
| Winter - all hrs | RECO On pk RECO Off pk | 1.159 | 1.405 0.983 | 1.067 | 1.031 | 1.015 | 1.677 0.993 |
| Annual - all hrs | | 1.094 | 1.070 | 1.020 | 0.991 | 0.977 | 1.094 |

DEMAND RATES

includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods

| Summer - all hrs | SC2 Dem Multiplier 0.972 | SC2 Dem <u>Constant</u> (5.985) | PLUS: Gen Cost (per kW of E | PLUS: Gen Cost (per kW of Billed Demand/Month) | | | | | | |
|-------------------------------|--------------------------------|---------------------------------------|------------------------------|---|----------|----------------------|------------------|--|--|--|
| | | | | <u>0</u> | <u>)</u> | < 5 kW | <u>> 5 kW</u> | | | |
| Winter - all hrs | 1.094 | (5.840) | summer \$ winter \$ | - | \$ \$ | 0.432 \$ 0.625 \$ | 1.677 1.455 | | | |
| Annual - including T&G Obl \$ | 1.050 | | | | | | | | | |

Table C Determination of Preliminary Retail Rates to be Charged to BGS Customers

| All-In Average costs @ Trans node = | \$ 78.23 /MWh* | * Price from Table A (which does not include |
|-------------------------------------|-------------------|---|
| Less Transmission | \$ /MWh** | transmission for the Central/Western Division). |
| BGS Cost | \$ 78.23 /MWh | |

Retail BGS Rates (excl SUT) (¢/kWh)

| | <u>SC1</u> | <u>SC3</u> | SC2 ND | <u>SC4</u> | <u>SC6</u> | SC2 Dem | SC1 TOD |
|---|------------|------------|--------|------------|------------|----------------|---------|
| <u>Summer</u> | | | | | | | |
| All kWh (¢/kWh) | 7.901 | | 7.033 | 6.923 | 6.916 | 7.005 | |
| Peak kWh (¢/kWh) | | 9.794 | | | | | 11.163 |
| Off-Peak kWh (¢/kWh) | | 6.008 | | | | | 6.431 |
| Block1 | 4.846 | | | | | | |
| Block2 | 10.203 | | | | | | |
| Demand Charge (\$/kW) 1st 5kW Demand Charge (\$/kW)> 5 kW | | | | | | 0.432 1.677 | |
| Winter | 0.007 | | 0.047 | 0.000 | 7.040 | 7.074 | |
| All kWh (¢/kWh) | 9.067 | 40.004 | 8.347 | 8.066 | 7.940 | 7.974 | 10.110 |
| Peak kWh (¢/kWh) | | 10.991 | | | | | 13.119 |
| Off-Peak kWh (¢/kWh) | | 7.690 | | | | | 7.768 |
| Demand Charge (\$/kW) 1st 5kW Demand Charge (\$/kW) > 5 kW | | | | | | 0.625 1.455 | |

Table D Calculation of Rate Adjustment Factors

| | | SC1 | | SC3 | | SC2 ND | SC4 | | SC6 | SC2 Dem | SC1 TOD |
|---------------------------------|-----------------|---------|----|--------------|----|-------------------|-----------|------|--------|--------------|--------------|
| Total BGS Revenue (Excl SU | Γ) - in \$10 | | | | | | | | | | |
| Summer | \$ | 24,060 | \$ | 10 | \$ | 304 | \$ 122 | \$ | 99 | \$ | \$ 24,029 |
| Winter | \$ | 35,745 | \$ | 18 | \$ | 942 | \$ 369 | \$ | 283 | \$ 21,713 | \$ 35,754 |
| Total | \$ | 59,805 | \$ | 28 | \$ | 1,246 | \$ 491 | \$ | 382 | \$ 32,666 | \$ 59,783 |
| Total | | | | | | | | | | | |
| Summer | \$ | 35,548 | | | | | | | | | |
| Winter | \$ | 59,070 | | | | | | | | | |
| Total | \$ | 94,618 | | | | | | | | | |
| | | | | | | | | | | | |
| Total Supplier Payments - in \$ | <u> 1000</u> | | | | | | | | | | |
| Eastern Division | | Total | | Transmission | | Net BGS | | | | | |
| Summer | \$ | 34,321 | | | \$ | 34,321 | | | | | |
| Winter | \$ | 50,221 | | | \$ | 50,221 | | | | | |
| Total | \$ | 84,543 | \$ | - | \$ | 84,543 | | | | | |
| Central/Western Division | | Total | | Transmission | | Not BCS | | | | | |
| | _ | Total | - | Transmission | _ | Net BGS | | | | | |
| Summer | \$ | 4,127 | \$ | - | \$ | 4,127 | | | | | |
| Winter | \$ | 5,983 | \$ | | \$ | 5,983 | | | | | |
| Total | \$ | 10,110 | \$ | - | \$ | 10,110 | | | | | |
| Total RECO FP | | Total | | Transmission | | Net BGS | | | | | |
| Summer | \$ | 38,448 | \$ | - | \$ | 38,448 | | | | | |
| Winter | | 56,204 | \$ | - | \$ | 56,204 | | | | | |
| Total | <u>\$</u> \$ | 94,653 | \$ | _ | \$ | 94,653 | | | | | |
| | , | - , | • | | • | - , | | | Rate | | |
| Differences | | BGS | | BGS | | | | Adju | stment | | |
| | | Revenue | | Costs | | Difference | | - | actors | | |
| Summer | \$ | 35,548 | \$ | 38,448 | \$ | 2,900 | | 1. | .08159 | | |
| 140.4 | _ | | _ | | _ | /: | | _ | | | |

56,204 \$ 94,653 \$ (2,866)

0.95149

59,070 \$

94,618 \$

Winter

Total

Table E Final Retail BGS Rates (¢/kWh)

Rates Excluding SUT:

| | <u>SC1</u> | SC3 | SC2 ND | SC4 | <u>SC6</u> | SC2 Dem | SC1 TOD |
|--|--------------------------|----------------------|--------|----------------------------|----------------------------|-------------------------|----------------------------|
| Summer All kWh (¢/kWh) Peak kWh (¢/kWh) Off-Peak kWh (¢/kWh) Block1 Block2 | 8.546 5.241 11.035 | 10.593 6.498 | 7.607 | 7.488 | 7.480 | 7.577 | 12.074 6.956 |
| Demand Charge (\$/kW) 1st 5kW Demand Charge (\$/kW) > 5 kW | | | | | | 0.467 1.814 | |
| Winter All kWh (¢/kWh) Peak kWh (¢/kWh) Off-Peak kWh (¢/kWh) | 8.627 | 10.458 7.317 | 7.942 | 7.675 | 7.555 | 7.587 | 12.483 7.391 |
| Demand Charge (\$/kW) 1st 5kW Demand Charge (\$/kW) > 5 kW | | | | | | 0.595 1.384 | |
| Rates Including SUT: | SUT | · @ | 6.625% | | | | |
| | 001 | w | 0.023% | | | | |
| - - | <u>sc1</u> | <u>sc3</u> | SC2 ND | SC4 | SC6 | SC2 Dem | SC1 TOD |
| Summer All kWh (¢/kWh) Peak kWh (¢/kWh) Off-Peak kWh (¢/kWh) Block1 Block2 | | | | <u>SC4</u> 7.984 | <u>SC6</u> 7.976 | <u>SC2 Dem</u> 8.079 | SC1 TOD 12.874 7.417 |
| Summer All kWh (¢/kWh) Peak kWh (¢/kWh) Off-Peak kWh (¢/kWh) Block1 | <u>SC1</u> 5.588 | <u>SC3</u> 11.295 | SC2 ND | | | | 12.874 |
| Summer All kWh (¢/kWh) Peak kWh (¢/kWh) Off-Peak kWh (¢/kWh) Block1 Block2 Demand Charge (\$/kW) 1st 5kW | <u>SC1</u> 5.588 | <u>SC3</u> 11.295 | SC2 ND | | | 8.079 0.50 | 12.874 |

Table F Spreadsheet Error Checking

Total BGS Revenue (Excl SUT) - in \$1000

| | <u>SC1</u> | | SC3 | | SC2 ND | SC4 | SC6 | SC2 Dem |
|-------------------------------|--------------|----|---------------|----|-------------------|--------------|-----|--------------|
| Summer | \$ 26,024 | \$ | 11 | \$ | 329 | \$ 131 \$ | 107 | \$ 11,847 |
| Winter | \$ 34,011 | \$ | 17 | \$ | 897 | \$ | 269 | \$ 20,659 |
| Total | \$ 60,035 | \$ | 28 | \$ | 1,226 | \$ 482 \$ | 376 | \$ 32,506 |
| Total | | | | | | | | |
| Summer | \$ 38,449 | | | | | | | |
| Winter | \$ 56,204 | | | | | | | |
| Total | \$ 94,653 | | | | | | | |
| Supplier Payments - in \$1000 | | | | | | | | |
| Eastern Division | | | | | | | | |
| | Total | | Transmission | | Net BGS | | | |
| Summer | \$ 34,321 | \$ | - | \$ | 34,321 | | | |
| Winter | \$ 50,221 | \$ | - | \$ | 50,221 | | | |
| Total | \$ 84,543 | \$ | - | \$ | 84,543 | | | |
| Central/Western Division | | | | | | | | |
| | Total | _ | Transmission | | Net BGS | | | |
| Summer | \$ 4,127 | \$ | - | \$ | 4,127 | | | |
| Winter | \$ 5,983 | \$ | - | \$ | 5,983 | | | |
| Total | \$ 10,110 | \$ | - | \$ | 10,110 | | | |
| Total RECO FP | | | | | | | | |
| | Total | | Transmission | _ | Net BGS | | | |
| Summer | \$ 38,448 | \$ | - | \$ | 38,448 | | | |
| Winter | \$ 56,204 | \$ | - | \$ | 56,204 | | | |
| Total | \$ 94,653 | \$ | - | \$ | 94,653 | | | |
| Differences | | | | | | | | |
| | BGS | | BGS | | | | | |
| | Revenue | | <u>Costs</u> | | <u>Difference</u> | | | |
| Summer | \$ 38,449 | \$ | 38,448 | \$ | (1) | | | |
| Winter | \$ 56,204 | \$ | <u>56,204</u> | \$ | 0 | | | |
| Total | \$ 94,653 | \$ | 94,653 | \$ | (0) | | | |