IN THE MATTER OF THE PROVISION OF	:	
BASIC GENERATION SERVICE FOR THE	:	**Docket No. ER22030127**
PERIOD BEGINNING JUNE 1, 2023	:	

JERSEY CENTRAL POWER & LIGHT COMPANY

PROPOSAL FOR BASIC GENERATION SERVICE BEYOND MAY 31, 2023

COMPANY SPECIFIC ADDENDUM

AMENDED COMPLIANCE FILING

December 6, 2022

TABLE OF CONTENTS

I. Use of Committed Supply and Contingency Plans

A. Committed Supply

"Committed Supply," means power supplies to which JCP&L has an existing physical or financial entitlement. This will include specifically NUG contracts, including any restructured replacement power contracts, customer generation under the operational control of JCP&L and generation assets still owned by JCP&L JCP&L will retain the right to negotiate changes in all NUG contracts and to make changes with respect to the operational control over dispatchable NUGs.

In prior auctions, JCP&L provided renewable attributes from non-utility generation contracts on a pro-rata basis to BGS-RSCP Suppliers. Since JCP&L's last non-utility generation contract with renewable attributes was terminated in February 2017, no renewable attributes will be available going forward.

As previously directed by the New Jersey Board of Public Utilities ("Board" or "BPU") in its Order dated December 11, 2001 (Docket No. EX01050303), except where retained to meet requirements of the Contingency Plan, JCP&L will continue to sell all of the remaining energy, capacity and ancillary services associated with its Committed Supply into the PJM Spot Market unless and until the Board determines that a different sales protocol is appropriate. All net revenues from these sales will be credited to the NGC, provided that, in the case of JCP&L-owned generation assets, the all-in costs of those assets will continue to be recovered through BGS charges or JCP&L's NGC Deferred Balance.

In the event that JCP&L is required to invoke its Contingency Plan, Committed Supply may be used to offset requirements associated with the Contingency Plan.

BGS-RSCP and CIEP Suppliers will be responsible for obtaining and providing related verification information to JCP&L for the minimum Solar, Class I and Class II percentages or amounts required in the RPS associated with the tranches they serve, subject to the foregoing limitations, to each BGS-RSCP and BGS-CIEP Supplier's tranches using the BGS-RSCP and BGS-CIEP Supplier Responsibility Share. Such verification will be provided to the Company pursuant to the procedures and timeframes set forth in the BGS Supplier Master Agreements.

B. Contingency Plans

While not every contingency can be anticipated, JCP&L has identified three possible occurrences for which a Contingency Plan has been developed:

(a) JCP&L receives an insufficient number of bids to provide for a fully subscribed Auction Volume, either for the BGS-RSCP auction or the BGS-CIEP auction;

(b) A default by one of the winning bidders prior to June 1, 2023;

(c) A default during the June 1, 2023 – May 31, 2026 supply period.

(a) Insufficient Number of Bids in Auction

In order for the Auction Process to achieve the best price for customers, the degree of competition in the auction must be sufficient. To ensure a sufficient degree of competition, the target volume of BGS-RSCP and BGS-CIEP Load purchased at each auction will be decided after the round 1 bids are received. Provided that there are sufficient bids at the starting prices, the auctions will be held for 100% of BGS-CIEP Load with yearly rolling procurements for the BGS-RSCP Load, where approximately one-third of the required supply is contracted for the next three years.

It is possible that the number of initial bids will not result in a competitive auction for 100% of the BGS-CIEP Load and the approximately one-third of the yearly BGS-RSCP Load. This determination will be made by the Auction Manager in consultation with the State's electric distribution companies, BPU Staff and the Board Advisor.

In the event that the Auction volume is reduced to less than 100% of BGS-RSCP or BGS-CIEP Load, JCP&L will implement a Contingency Plan for the remaining tranches. Under that plan, JCP&L will purchase necessary services for the remaining tranches through PJM-administered markets. JCP&L's procurements will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches.

This Contingency Plan will alert bidders that in order to secure BGS-RSCP or BGS-CIEP prices from New Jersey BGS customers for the bidders' supply, it will be necessary to bid in the auctions. Failure to bid will mean that the BGS market faced by suppliers will be a spot market with volatility and related risks.

Since the Contingency Plan calls for the purchase of BGS supply in PJM-administered markets, it is considered a strong feature of the auction proposal because it provides bidders a strong incentive to participate in the Auction Process. If bidders were to believe that a less than fully subscribed auction would lead to a negotiation or a secondary market in which JCP&L, on behalf of its customers, would seek to acquire seasonally differentiated-priced supplies, then the incentive to participate in the auction and the incentive for bidders to present their best offer in the auction would be diminished.

(b) Defaults prior to June 1, 2023

If a winning bidder defaults prior to the beginning of the BGS service, then, at JCP&L's option, the open tranches may be offered to the other winning bidders or these tranches may be bid out as quickly as possible, or procured in PJM-administered markets. JCP&L's procurements in PJM-administered markets will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches. Additional costs incurred by JCP&L in implementing this Contingency Plan will be assessed against the defaulting supplier's credit security, to the extent available.

(c) Defaults during the Supply Period

If a default occurs during the June 1, 2023 through May 31, 2026 period, at JCP&L's option, the available tranches may be offered to other winning bidders or bid out or procured in PJM-administered markets. JCP&L's procurements in PJM-administered markets will be made at prevailing Day-ahead JCP&L zonal spot market prices, and, unless instructed otherwise by the BPU, JCP&L will not enter into hedging transactions to attempt to mitigate the associated price or volume risks to serve these tranches. Additional costs incurred by JCP&L in implementing this Contingency Plan will be assessed against the defaulting supplier's credit security, to the extent available.

II. Accounting and Cost Recovery

The accounting and cost recovery that JCP&L proposes for its BGS is summarized in this section. These provisions are intended to be applicable to JCP&L only. Each EDC will provide individual BGS cost recovery proposals.

A. BGS-RSCP and BGS-CIEP Reconciliation Charges (BGS-RSCPRC, BGS-CIEPRC)

JCP&L's BGS accounting will account for BGS-RSCP revenues and BGS-CIEP revenues individually as follows:

1. BGS-RSCP and BGS-CIEP revenues will be tracked using established accounting procedures and recorded separately as BGS-RSCP revenue and BGS-CIEP revenue.

2. As previously established for JCP&L, uncollectible revenues are recovered through a component of JCP&L's Societal Benefits Charge.

3. Revenues related to the Board-approved Transmission and Transmission related Charges (e.g., TEC), as set forth in applicable Supplier Master Agreements (SMAs) and any amendments or supplements thereto, will be tracked separately and recorded using established accounting procedures.

JCP&L's BGS accounting will account for BGS-RSCP and BGS-CIEP costs individually as the sum of the following:

1. Payments made to winning BGS bidders for the provision of BGS-RSCP or BGS-CIEP service.

2. Any administrative costs associated with the provision of BGS-RSCP and BGS-CIEP service.

   a. Administrative costs are defined as commonly-incurred or directly-incurred. Commonly-incurred costs are costs shared among all of the New Jersey Electric Distribution Companies (the "EDCs"). Directly-incurred costs are costs specifically incurred by each EDC, individually.

   Commonly-incurred costs include, but are not limited to, the following:

   - preparing and conducting the annual auction, which includes all pre-auction development work, developing and printing materials, developing and maintaining the BGS auction website, conducting information sessions for prospective bidders, as well as other consulting services provided by the Auction Manager

   - oversight of the auction process on behalf of the Board, as performed by the Board's consultant

- rent and maintenance of office space in New Jersey for the auction manager
- outside counsel legal costs associated with the prosecution and/or defense of BGS patent claims
- facility costs associated with viewing the annual auction in real time, which includes, but are not limited to, costs for physical space and equipment/media connections

Directly-incurred costs (for JCP&L) include, but are not limited to, the following:

- advertising
- court reporter fees

b. The commonly-incurred cost estimates for each BGS Auction cycle are paid for by the winning bidders of the auction at the start of each Energy Year through the Tranche Fee. The difference between the estimated commonly-incurred costs and the actual commonly-incurred costs and all the directly-incurred costs are paid through the BGS Reconciliation charges.

As noted above, one commonly-incurred cost has been the costs associated with the rent and maintenance of the office space in New Jersey for the Auction Manager to conduct the annual BGS Auction. Due to the restrictions and safeguards put in place for the COVID-19 pandemic, the February 2021 and 2022 BGS Auction were conducted remotely (*i.e.*, the aforementioned office space was not utilized), without issue. Pursuant to the Board Order, JCP&L will conduct future BGS Auctions in this same remote manner. As such, in the 2021 BGS Proposal filed on July 1, 2021, the Company proposed to begin subletting or otherwise closing the physical BGS Office located in Newark, New Jersey, in an effort to eliminate the costs related to the same. On November 17, 2021 the Board approved the request to close or sublet the physical BGS office located in Newark, New Jersey, and on May 16,2022 PSE&G was able to sublet the BGS office.

Additionally, in response to a recommendation included in the BGS Administrative Expense Audit (BPU Docket No. EA17010004), JCP&L has evaluated its administrative costs and identified additional directly incurred costs that are common across the EDCs and related to the provision of BGS service. The Company plans to account for such costs in a manner similar to other BGS administrative costs (*i.e.*, through the reconciliation charge(s)), until such time as said costs are determined to be recoverable through base rates as part of the Company's next base rate case.

3. The cost of any procurement of necessary services, including capacity, energy, ancillary services, transmission, RPS compliance and other expenses related to the Contingency Plan, less payments, if any, recovered from defaulting suppliers or from defaulting suppliers' credit security.

4. Payments to PJM for Transmission and Transmission related Charges, as set forth in applicable SMAs and any amendments and/or supplements thereto, (e.g., TEC) will be tracked separately and recorded using established accounting procedures.

BGS-RSCP and BGS-CIEP rates will be subject to deferred accounting since there will be differences between the BGS revenue and costs (as defined above). Adjustment-type charges are necessary in order to balance out the difference between (1)(a) the amount paid to the BGS-RSCP and BGS-CIEP suppliers for BGS-RSCP and BGS-CIEP supply, (b) the total administrative costs, net of amounts received from BGS-RSCP and BGS-CIEP suppliers, (c) the total Contingency Plan costs, net of recoveries from defaulting bidders, and (d) the payments to PJM for Transmission and Transmission related Charges, and (2) the total revenue received from customers for BGS-RSCP and BGS-CIEP services, respectively.

A BGS deferral/credit will be determined individually for the BGS-RSCP and BGS-CIEP rates as the difference between recorded BGS-RSCP or BGS-CIEP revenue and the total BGS-RSCP or BGS-CIEP costs. The individual BGS deferrals will be accounted for in the following manner:

1. If individual BGS costs, as defined above, are higher than individual BGS recorded revenue, then the difference will be charged on a monthly basis to a reconciliation account to be reconciled and recovered from customers, with interest, on a quarterly basis through the BGS-RSCPRC and/or the BGS-CIEPRC;

2. If individual BGS costs, as defined above, are lower than individual BGS recorded revenue, then the difference will be credited on a monthly basis to a reconciliation account to be reconciled and returned to customers, with interest, on a quarterly basis through the BGS-RSCPRC and/or BGS-CIEPRC.

Reconciliation Charge rates will be calculated separately each quarter, with interest, for BGS-RSCP and BGS-CIEP, on a cents/kWh basis, and the respective rates applied to all BGS-RSCP and BGS-CIEP kWh billed. Interest will be calculated monthly at the interest rate equal to the average monthly rate actually incurred on the Company's short term debt (debt maturing in less

than one year), or the rate on equivalent temporary cash investments if the Company has no short-term debt outstanding. These charges may be combined with the seasonally differentiated BGS-RSCP rates and BGS-CIEP hourly charges for billing, although they will be published in separate BGS-RSCPRC and BGS-CIEPRC tariff sheets that will be revised quarterly to reflect adjustments made based on actual costs.

Consistent with the Board-approved mechanisms for all prior BGS Post Transition Years and the related quarterly reconciliations, JCP&L will file formula-based BGS-RSCPRC and BGS-CIEPRC rates with the Board at least 30 days in advance of the effective dates. The filed rates will become final and effective 30 days after filing, absent a determination of manifest error by the Board. The quarterly reconciliation effective dates will be March 1, June 1, September 1 and December 1 of each year. For billing reasons, the June 1 effective date for reconciliation is aligned with the beginning of the BGS annual supply period (i.e., June 1, 2023). The subsequent formula-based reconciliation will continue every three months thereafter.

In connection with this filing, JCP&L is requesting the Board to make the following determinations with respect to BGS accounting and cost recovery:

1. that JCP&L's proposed accounting for BGS is approved by the Board for purposes of accounting and BGS cost recovery; and

2. that the proposed BGS Contingency Plan is approved by the Board and there will exist a presumption of reasonableness and prudence with respect to (i) the BGS Auction Plan method, (ii) the costs incurred for BGS supply under the Auction Plan, and (iii) the related Contingency Plan.

B. Accounting for the NGC Deferred Balance

The NGC Deferred Balance will be credited with net revenues from the sale of Committed Supply energy, capacity and ancillary services in the wholesale market.

The NGC Deferred Balance will be charged with all costs associated with Committed Supply, including NUGs.

III. Description of BGS Tariff Sheets and Other Tariff Changes

A. General

As described in the generic section of the EDCs' 2023 BGS Proposal, two different methods will be utilized for the pricing of BGS default supply service to customers – seasonally differentiated energy pricing and variable hourly energy pricing. For JCP&L, the seasonally differentiated energy pricing will be termed "Basic Generation Service – Residential Small Commercial Pricing", or BGS-RSCP, and the hourly energy pricing service will be termed "Basic Generation Service – Commercial Industrial Energy Pricing", or BGS-CIEP.

The BGS-RSCP default service is proposed to be available to residential and small and medium sized business customers, specifically those served on Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except as noted below. This comprises the majority of the number of customers and approximately 86% of the total load on the JCP&L electric system.

JCP&L will be making a filing to address supply rates for residential electric vehicle charging pursuant to the Board's Order of November 9, 2022.

The BGS-CIEP default service will be available to the larger business customers, specifically those served on Service Classifications GP – General Service Primary and GT- General Service Transmission, and as noted below. Approximately 815 customers, excluding GS and GST customers as noted below, would thus be eligible to receive BGS-CIEP default service, which would comprise about 14% of the total load on the JCP&L electric system.

B. BGS-RSCP (Rider BGS-RSCP)

The tariff sheet for the Basic Generation Service – Residential Small Commercial Pricing (BGS-RSCP) default supply service is included in Attachment 1. The BGS-RSCP default service is proposed to be available to customers served on Service Classification RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for GS and GST customers with peak load shares of 500 kW or greater as of November 1, 2022, and those GS and GST customers that have opted to take BGS-CIEP default service for the 2023/2024 BGS Supply Period (June 1, 2023 through May 31, 2024) as of January 4, 2023.

On any meter reading date, and with prior requisite notice, a customer taking supply service under BGS-RSCP may switch to third-party supply service, and a customer taking third-party supply service may switch to BGS-RSCP supply service.

As indicated on the proposed tariff sheet, the BGS-RSCP default service is made up of three components: BGS-RSCP Energy Charges, BGS-RSCP Transmission Charges, and the BGS-RSCP Reconciliation Charge.

(1) BGS-RSCP Energy Charges

The BGS-RSCP Energy Charges applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for certain GS and GST customers as noted above, include the costs related to energy, ancillary services and generation capacity and administrative-related costs. This calculation is consistent with the current, approved methodology of recovering all electric supply service costs in the kWh charges for these rate classes.

The specific costs that will be used to calculate the BGS-RSCP Energy Charges will be calculated as the "winning bid price" for the JCP&L zone times the appropriate Ratio of BGS Unit Costs (excluding Transmission) at customer to All-In Average Cost (excluding Transmission) at transmission nodes, as shown on Table #C7 of the Composite Cost Allocation of the 2023 BGS Auction Cost and Bid Factor Tables, included in Attachment 2. "Winning bid price" is defined as the tranche weighted average of the winning bid prices adjusted for the seasonal payment factors. For the RS rate class, the Summer energy charges are further modified by the blocking differential found in Table #C7 of the Composite Cost Allocation of the 2023 BGS Auction Cost and Bid Factor Tables.

With the prior postponement of the 2023/2024 and 2024/2025 PJM Base Residual Auctions ("BRA") for the Reliability Pricing Model ("RPM") products for the 2023/2024 and 2024/2025 delivery years, the EDCs proposed and the Board adopted the use of Capacity Proxy Prices to provide bidders in the 2021 and 2022 BGS-RSCP auctions with some certainty regarding capacity prices for the BGS-RSCP load in the 2023/2024 and 2024/2025 delivery years. The Capacity Proxy Price for JCP&L for the 2021 BGS Auctions was $146.51 for the 2023/2024 delivery years. For the 2022 BGS-RSCP auction, JCP&L proposed and the Board approved a Capacity Proxy Price of $118.12 for the 2023/2024 delivery year and a Capacity Proxy Price of $87.98 for the 2024/2025 delivery year. Similarly, the EDCs proposed the use of a Capacity Proxy Price to provide bidders in the 2023 BGS-RSCP auction with some certainty regarding capacity prices for the BGS-RSCP load in the 2024/2025 and 2025/2026 delivery years. For the 2023 BGS-RSCP auction, JCP&L proposes a Capacity Proxy Price of $66.38 for the 2024/2025 delivery year and a Capacity Proxy Price of $44.63 for the 2025/2026 delivery year.

For Energy Year (EY) 2025, payments to the BGS-RSCP suppliers that have executed the Supplement A to the BGS-RSCP SMA approved by the Board on November 9, 2022, if the BRA for the 2024/2025 Delivery Year has not occurred at least five (5) business days prior to the BGS-RSCP Auction, will be adjusted for the difference between the "Zonal Capacity Price", which is the price paid by BGS-RSCP suppliers for Capacity in the Company's PJM Zone, as may be determined under the Reliability Pricing Model or its successor or otherwise and the 2024/2025 Capacity Proxy Price for the 2024/2025 BGS Supply Period (the "Capacity Price True-up"). Similarly, for EY 2026, payments to the BGS-RSCP suppliers that have executed the Supplement B to the BGS-RSCP SMA approved by the Board on November 9, 2022, if the BRA for the 2025/2026 Delivery Year has not occurred at least five (5) business days prior to the BGS-RSCP Auction, will be adjusted for capacity prices difference between the "Zonal Capacity Price", which is the price paid by the BGS-RSCP Suppliers for Capacity in the Company's PJM Zone, as may be determined under the Reliability Pricing Model or its successor or otherwise in the 2025/2026 delivery year and the 2025/2026 Capacity Proxy Price. BGS-RSCP Energy Charges for the 2024/2025 and 2025/2026 BGS Supply Period will also be adjusted to reflect the impact of such Capacity Price Adjustments for payments made pursuant to the Supplements. Attachment 3, Table A, Page 2, shows the Development of Capacity Proxy Price True Up and the resulting "Winning bid price" for the 2024/2025 BGS Supply Period. Attachment 3, Table A, Page 3, shows the Development of Capacity Proxy Price True Up and the resulting "Winning bid price" for the 2025/2026 BGS Supply Period for illustrative purposes.

For the 2023/2024 BGS Supply Period, the SMA Supplements signed by BGS Suppliers in February 2021 and February 2022 are still in effect for approximately two-thirds of the load. Payments to suppliers that executed the Supplement to the SMA approved by the Board on

November 18, 2020 and November 17, 2021 will be adjusted for the price difference between the price paid by BGS-RSCP Suppliers for Capacity in the Company's PJM Zone and the Capacity Proxy Price for the 2023/2024 Delivery Year. Upon the conclusion of the final incremental RPM auction, or the RPM's successor or otherwise, the price paid by BGS-RSCP Suppliers for Capacity in the Company's PJM Zone will be known. JCP&L will file new tariff sheets reflecting the impact of the Supplements. The rate design spreadsheets include the formulas that will be used to reflect the impact of payments made pursuant to the Supplements executed by BGS Suppliers in February 2021 and February 2022. The value ($49.59 per MW-day) of the recently concluded BRA in June of 2022 is used as an approximation for the price paid by BGS-RSCP Suppliers for Capacity in the Company's PJM Zone for the 2023/2024 Delivery Year, as shown in Attachment 3, Table A, Page 1

(2) BGS-RSCP Transmission Charges

BGS-RSCP Transmission Charges will be based on such applicable rate schedules on file with and approved by the Board as may be in effect from time to time.

JCP&L will file with the BPU to change the transmission charges to customers as the Federal Energy Regulatory Commission (the "FERC") approves changes in the Network Integration Transmission Service charges for the JCP&L zone in the PJM Open Access Transmission Tariff (the "PJM OATT"), or the FERC approves other network transmission-related charges in the PJM OATT at a minimum of twice per year for rates to become effective January 1 and June 1. To the extent that there is a change to the payments required by PJM for transmission, either as a result of a change in the firm transmission rate or as a result of a cost reallocation, the EDCs may submit an additional filing to the Board to change the transmission charge paid by BGS customers.

JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT, and any rate translation spreadsheets used.

(3) BGS-RSCP Reconciliation Charge

Implementation of the BGS-RSCP Reconciliation Charge for the BGS-RSCP default service is explained in Section II - Accounting and Cost Recovery, above.

C. BGS-CIEP (Rider BGS-CIEP)

The tariff sheet for the Basic Generation Service – Commercial Industrial Energy Pricing (BGS-CIEP) is included in Attachment 1. The BGS-CIEP default service will be the only default service for customers served on Service Classifications GP – General Service Primary and GT – General Service Transmission and for customers served on Service Classifications GS – General Service Secondary and GST – General Service Secondary Time-of-Day customers with peak load shares of 500 kW or greater as of November 1, 2022, those GS and GST customers that have opted to take BGS-CIEP default service for the 2023/2024 BGS Supply Period (June 1, 2023 through May 31, 2024) as of January 4, 2023, and those GS and GST customers that previously opted to take BGS-CIEP default service and do not notify the Company, by January 4, 2023, that they opt to return to BGS-RSCP default service for the 2023/2024 BGS Supply Period (June 1, 2023 through May 31, 2024).

JCP&L will identify all GS and GST customers with loads of 500 kW or greater based on the individual customer's share of the capacity peak load assigned to the JCP&L Transmission Zone by PJM, as in effect on November 1, 2022, adjusted for billing anomalies.

All GS and GST customers (with the exception of non-metered accounts) may "opt in" to BGS-CIEP, effective June 1, 2023, provided that they notify the Company no later than January 4, 2023. The Company will post a notice on its website informing these customers that they may voluntarily opt-in to BGS-CIEP, along with a toll free number, printable enrollment form or web address to use to opt in.

All customers voluntarily requesting to be billed under BGS-CIEP will be required to pay the metering and communications costs to accommodate BGS-CIEP billing. In addition, any GS customer with special provision (d) or (e) for restricted water heating service ("Restricted Off-Peak Water Heating Service" or "Restricted Controlled Water Heating Service") who opts to take BGS-CIEP will no longer qualify for such special provisions effective June 1, 2023.

The rates for BGS-CIEP are comprised of several segments: BGS-CIEP Energy Charges, a BGS-CIEP Capacity Charge, BGS-CIEP Transmission Charges and the BGS-CIEP Reconciliation Charge.

(1) BGS-CIEP Energy Charges

The primary component of this charge will be the actual real time PJM load weighted average Residual Metered Aggregate Locational Marginal Price ("LMP") of energy for the JCP&L Transmission Zone plus the ancillary service costs (including PJM Administrative Costs). This sum will then be adjusted for losses for service at the various voltage levels to which this service

is applicable (such losses will be updated to reflect actual PJM marginal loss). The ancillary service costs will be set at $0.006 per kWh for all monthly usage.

(2) BGS-CIEP Capacity Charge

This charge is designed to recover the costs associated with generation capacity for customers served under Service Classifications GP and GT, GS and GST customers that have a peak load share of 500 kW or greater as of November 1, 2022, and GS and GST customers that have opted in no later than January 4, 2023. The BGS-CIEP Capacity Charge is expressed on a per kW of generation capacity obligation at $0.xxxxx per kW-day to be applied to the customer's share of capacity peak load assigned to the JCP&L Transmission Zone by PJM, as adjusted by PJM assigned capacity related factors. The capacity charge will be determined in the BGS-CIEP Auction Process.

(3) BGS-CIEP Transmission Charges

The BGS-CIEP Transmission Charges will be based on such applicable rate schedules on file with and approved by the Board as may be in effect from time to time.

JCP&L will file with the BPU to change the transmission charges to customers as the FERC approves changes in the Network Integration Transmission Service rates for the JCP&L zone in the PJM OATT, or the FERC approves other network transmission-related charges in the PJM OATT at a minimum of twice per year for the rates to become effective January 1 and June 1. To the extent that there is a change to the payments required by PJM for transmission, either as a result of a change in the firm transmission rate or as a result of a cost reallocation, the EDCs may submit an additional filing to the Board to change the transmission charge paid by BGS customers.

JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT, and any rate translation spreadsheets used.

(4) BGS-CIEP Reconciliation Charge

Implementation of the BGS-CIEP Reconciliation Charge for the BGS-CIEP default service is explained in Section II - Accounting and Cost Recovery, above.

D. CIEP Standby Fee (Rider CIEP - Standby Fee (formerly Rider DSSAC))

This charge (formerly the "Default Supply Service Availability Charge"), equal to $0.00015 per kWh of BGS-CIEP-Eligible Customers' usage, is intended to recover the BGS-CIEP Suppliers' costs associated with maintaining the availability of the hourly priced default electric supply service for all customers on the applicable rate classes as indicated in the Rider and, thus, this charge will be paid directly to the BGS-CIEP Suppliers by the Company.

IV. Description of BGS Pricing Spreadsheet

The charge for each BGS rate element (*i.e.* Rate RT Summer charge, Winter charge, etc.) for the BGS-RSCP service will be based on a factor times the final winning bid price. These factors have been developed based on the ratios of the estimated underlying market costs of each rate element (for each rate class) to the overall all-in BGS cost, as determined by the percent load weighted costs of the remaining load served from the 2021 and 2022 BGS auctions and the forecasted cost for the 2023 BGS auction. The tables included in Attachment 2 present all of the input data, intermediate calculations, and the final results in the calculation of these ratios.

A separate cost allocation is performed for each auction (2021/2022, 2022/2023 and 2023/2024, BGS Supply Periods). Except where noted, the tables are identical for each year.

Table #1 (% Usage during PJM On-Peak Period) contains the percentage of on-peak load, inputted by month, for each rate schedule. The on-peak period as used in this table (referred to as PJM periods) is defined as the 16-hour period from 7 AM to 11 PM, Monday through Friday (non-holidays). All remaining weekday hours and all hours on weekends and holidays recognized by the National Electric Reliability Council ("NERC") are considered the off-peak period. This is consistent with the time periods used in the forwards market for trading of bulk power. The values in this table are an average based on the on-peak versus total usage for the respective rate class and calendar month using 2019, 2020 and 2021 data.

Table #2 (% Usage During JCP&L On-Peak Billing Period) contains the percentage of on-peak load, forecasted for 2022, by month, for JCP&L's RT and GST rate schedule based on the definitions of time periods as contained in JCP&L's Tariff under the applicable rate schedule. RT and GST are the two rate schedules in Table #1 for which JCP&L bills energy charges differentiated by on-peak and off-peak prices.

Table #3 (Class Usage @ customer) contains the calendar month sales forecasted for the calendar year 2022. The values in Table #3 will be updated in January 2023 to better reflect the amount by rate schedule that could be in effect starting on June 1, 2023. The GS and GST classes exclude the usage of those accounts with peak load shares of 500 kW or greater to be served under BGS-CIEP.

Table #4 (Forwards Prices – Energy Only @ bulk system) contains the forwards prices for energy, by time period and month, for the applicable Post Transition Year. For the 2021/2022 and 2022/2023 BGS Supply Periods, the initial prices that were used were adjusted by a uniform amount (see Table #17) so that the total costs match the total payments at the final bid price for

the 36-month tranches from the 2021 and 2022 BGS auctions. These values consist of the published energy on-peak forwards at the time the respective year's Pricing Spreadsheet was developed, and an estimate of the unpublished costs for the off-peak periods of each month derived based on a ratio of on-peak to off-peak prices.

An adjustment of the forward prices contained in Table #4 must be made to correct for the pricing differential between the PJM West trading hub and the JCP&L zone where the BGS supply will be utilized.

Table #5 (Zone-Hub Basis Differential) contains an estimate of the average differential, by month and time period, which, when multiplied by the prices at the PJM West trading hub, will result in costs for power delivered into the JCP&L zone.

The factors utilized for average system losses and unaccounted-for supply are inputted in Table #6 (Losses) by rate schedule. Loss factors (@ bulk) are those currently in effect and approved by the Board. Since the service for all of the rates indicated is at secondary voltages, the loss factors are identical for all rates. The loss factors (@ transmission node) shown on the lower portion of this Table reflected PJM marginal loss.

Table #7 (Summary of Average BGS Energy Only Unit Costs @ customer – PJM Time Periods) is the calculation of the energy-only costs by rate, time period and season. These values are the seasonal and time period average costs per MWh as measured at the customer billing meter (from Table #3), based on the forward prices (from Table #4) corrected for zone-hub differential (from Table #5), losses (from Table #6), and monthly time period weights (from Table #1). These average costs do not include the costs associated with Ancillary Services, Renewable Portfolio

Standard compliance, Generation Obligation or Transmission, which will be considered in subsequent calculations.

Table #8 (Summary of Average BGS Energy Only Costs @ Customer – PJM Time Periods) indicates the total value, in thousands of dollars, of the average BGS energy-only costs. These are the results of the multiplication of the unit costs from Table #7 and the total sales to customers from Table #3. Since the end result of these calculations will be utilized in the development of retail BGS rates, the rates utilizing time-of-day pricing must be developed based upon the time periods as defined for billing.

Table #9 (Summary of Average BGS Energy Only Unit Costs @ Customer – JCP&L Time Periods) shows the result of the corrections for the RT and GST rates billed on a time-of-day basis. These values are calculated by starting with the revenue in Table #8. Because JCP&L bills fewer on-peak hours than the hours defined by PJM, a portion of the PJM on-peak costs had to be reallocated to the revenue to be collected at Tariff off-peak hour prices. This was accomplished by first calculating the difference between the two sets of on-peak hours by multiplying the total respective RT and GST MWh usage for each month from Table #3 by the percentages in Table #1 versus the percentages in Table #2. This difference between these two sets of on-peak MWh was then totaled by season (Summer and Winter) and multiplied by the average of the applicable Summer or Winter on-peak and off-peak prices in Table #7. This revenue amount was added to the respective off-peak revenue amount in Table #8 and subtracted from the respective on-peak revenue amount in Table #8. The revenue amounts in Table #8 (with the respective RT and GST on-peak and off-peak revenue adjusted by the calculations noted above) were then divided by the Tariff-based MWh for the respective rate class and usage type (total, on-peak or off-peak) and season (Summer or Winter) to arrive at the unit costs in Table #9.

Table #10 sets up the calculations to establish the costs of the Generation Capacity and Transmission obligations. The top portion of Table #10 (Generation & Transmission Obligations and Costs) shows the total obligations, by rate schedule, that are currently being utilized in the year 2022, with the GS and GST obligation reduced to reflect the accounts with a peak load share of 500 kW or greater taking service under BGS-CIEP. The values in the top portion of Table #10 will be updated in January 2023 to better reflect the aggregate amount by rate schedule that could be in effect on June 1, 2023. The middle portion of this table shows the number of Summer and Winter days and months and the seasonally differentiated costs of generation capacity that were projected during the applicable BGS Supplier Period. For the 2021/2022 and 2022/2023 BGS Supply Periods, the initial prices used are adjusted by a uniform amount (see Table #17) so that the total costs match the final bid price for the 36-month tranches from the 2021 and 2022 BGS auctions. Beginning June 2021, transmission service is no longer a component of the BGS Auction, and the cost of transmission service is set to zero. The bottom portion of this table shows the Summer BGS price block differential for the RS rate class as prescribed by the Board. The percentage usage figures are based on the amount of RS Summer billing month usage forecasted to be billed at the respective price blocks for 2022. These price block usage percentages are used in Table #13 to lower the first block (0-600 kWh per month) and raise the second block (over 600 kWh per month) RS Summer prices on an overall revenue neutral basis.

Table #11 (Ancillary Services) For 2023/2024 BGS Supply Period, an estimate of the effects of the cost of ancillary services and the Renewable Portfolio Standard is included in the development of the final BGS rates. The values of $2.00 per MWh and $16.92 per MWh are used, respectively. Since the actual costs are a complex combination of many factors, this Board approved estimate of the overall annual average value, expressed on a dollar per MWh basis, is used as a reasonable

and practical alternative. For the 2021/2022 and 2022/2023 BGS Supply Periods, the initial prices used are adjusted by a uniform amount (see Table #17) so that the total costs match the final bid price for the 36 month tranches from the 2021 and 2022 BGS auctions.

Table #12 (Summary of Obligation Costs Expressed as $/MWh @ customer) provides transmission and generation obligation costs. Beginning June 2021, transmission service is no longer a component of the BGS Auction, and the cost of transmission service is set to zero. The values for the generation obligations are calculated by taking the total generation capacity costs from the middle of Table #10 (Summer, Winter and annual) and allocating them by rate class based on each rate class's portion of the BGS-RSCP Total Generation Obligation (from the top of Table #10). The respective allocated capacity costs for each rate class and season are then divided by the associated MWh. The MWhs are taken from Table #3 for the All Hours costs to arrive at the Generation Obligation $/MWh in Table #12. For RT and GST, the respective MWhs from Table #3 are multiplied by the on-peak percentages from Table #2 to arrive at the On-Peak Generation Obligation $/MWh in Table #12.

Table #13 (Summary of BGS Unit Costs @ customer) is the result of the inclusion of generation capacity and Ancillary Services costs in the energy only costs shown in Table #9. Note: the Ancillary Services cost in Table #11 is corrected for losses (from Table #6). This table shows the total estimated all-in BGS costs on a dollars per MWh basis.

Table #14 (Units at Customer) is the forecasted 2022 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak as applicable. This table is linked to Table #3 and will be updated in January 2023.

Table #15 (Summary of Total Estimated BGS Costs by Season) provides the total cost by rate class by season, usage block and on-peak versus off-peak period, as applicable. This is based on the unit costs in Table #13 multiplied by the applicable units in Table #14.

Table #16 (Customer and Bulk System Costs) applies only to the 2021/2022 and 2022/2023 BGS Supply Periods. This table takes the total costs at customer from Table #15, summarizes the units from Table #14 by season and then calculates the Supplier Payment that would be required if 100% of the load was provided based on the final bid price and seasonal factors for the applicable auction year.

Table #17 (Adjustment Factor Calculation) applies only to the 2021/2022 and 2022/2023 BGS Supply Periods. This table compares the Total Supplier Payments from Table #16 to the total Estimated BGS Costs by Season in Table #15 based upon the initial Forwards Prices in Table #4, Generation Capacity Cost in Table #10 and Ancillary Service Charges in Table #11. The resulting Summer and Winter adjustment factors are then used to derive the adjusted Forwards Prices in Table #4, Generation Capacity Cost in Table #10 and Ancillary Service Charges in Table #11. After updating the applicable formulas with these adjustment factors the Total Suppliers Payments in Table #16 and the Total Estimated BGS Costs by Season in Table #15 should match within rounding error and the adjustment factor calculation should arrive at (or very close to) 1.

Table #18 (Bulk System Costs) applies only to the 2023/2024 BGS Supply Period. This table takes the total cost from Table #15 and divides it by the total units in Table #3 adjusted by the loss factors in Table #6 to derive the average annual cost per wholesale MWh.

Table #19 (Seasonal Payment Factors) performs a similar calculation to Table #18, but on a seasonal basis to arrive at the average Summer cost per wholesale MWh and the average Winter

cost per wholesale MWh. It then compares these average seasonal costs to the average annual cost to derive the Seasonal Payment Factors for the 2023/2024 BGS Supply Period. Since the normal calculation would produce the atypical result of a Summer Seasonal Payment Factor that is lower than the Winter Seasonal Payment Factor for the 2023/2024 BGS Supply Period, a factor of 1.0 will be used for both the Summer and Winter Seasonal Payment Factors.

The Composite Cost Allocation uses the Total Estimated BGS Costs excluding Transmission by Season from Table #15 for the 2021/2022, 2022/2023 and 2023/2024 BGS Supplier Periods to derive the tranche weighted average cost excluding Transmission for June 1, 2023 through May 31, 2024, for each rate class, by season, usage block and on-peak versus off-peak as applicable.

Tables #C1, #C2 and #C3 are the costs excluding transmission for the three bid years along with the number of tranches that will be served from each respective bid year for the period June 1, 2023 through May 31, 2024.

Table #C4 (Composite Percent Load Weighted Costs) is the cost for each of the bid years multiplied by the respective number of tranches to be served in each bid year divided by the total number of tranches.

Table #C5 (Units @ Customer) This is the forecasted 2022 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak, as applicable. This table is linked to Table #3 and will also be updated in January 2023.

Table #C6 (Summary of BGS Unit Costs @ customer) is the average cost per MWh for each rate class, season, usage block and on-peak versus off-peak (as applicable), based on the Composite Costs in Table #C4 divided by the units at customer in Table #C5 with a migration adjustment.

The second part of Table #C6 takes the total Composite Cost from Table #C4 and divides it by the total wholesale MWh (2023/2024 BGS Supply Period, Table #3 adjusted by the loss factors in 2023/2024 BGS Supply Period, Table #6) to arrive at the Average Costs at bulk system and the Average Costs at transmission nodes.

Table #C7 (Ratio of BGS Unit Costs @ customer to Average Cost @ transmission nodes) indicates the ratio of the individual rate element costs to the overall cost as measured at the transmission nodes, both from Table #C6. These ratios are to be used to go from the bid price to the rate class-specific retail BGS rates effective June 1, 2023 through May 31, 2024. For all but the RS service classification, the rate class specific energy, capacity and ancillary services rate will be the bid price times the ratio in Table #C7, the result of which is increased for sales and use tax. Customers will continue to be billed the current Tariff transmission rates. For the RS service classification, Table #C7 also provides constants (excluding sales and use taxes) to be applied to all RS Summer first and second block units (after applying the ratio in Table #C7) to achieve the prescribed first versus second block differential (per the bottom of Table #10) while maintaining the same overall revenue. Other than adjusting the price by this constant, all rates for the RS service classification are calculated as indicated above.

V. CONCLUSION

JCP&L hereby submits its Company Specific Addendum to the Board and requests that the Board issue an Order specifically approving, as reasonable and prudent, the Company's proposals for (1) use of its Committed Supply; (2) a Contingency Plan; (3) Tariff sheets for Riders BGS-RSCP, BGS-CIEP, and CIEP - Standby Fee; and (4) BGS pricing.

JERSEY CENTRAL POWER & LIGHT COMPANY

XX Rev. Sheet No. 41

BPU No. 13 ELECTRIC - PART III **Superseding XX Rev. Sheet No. 41**

Rider BGS-RSCP
Basic Generation Service – Residential Small Commercial Pricing
(Applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED)

Effective June 1, 2015, Rider BGS-FP (Basic Generation Service – Fixed Pricing) is renamed Rider BGS-RSCP to comply with the BPU Order dated November 24, 2014 (Docket No. ER14040370).

AVAILABILITY: Rider BGS-RSCP is available to and provides Basic Generation Service (default service) charges applicable to all KWH usage for Full Service Customers taking service at secondary voltages under Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for GS and GST customers that have a peak load share of 500 KW or greater as of November 1, 2022. Rider BGS-RSCP-eligible GS and GST customers may elect to take default service under Rider BGS-CIEP no later than the second business day in January of each year. Such election will be effective June 1 of that year and Rider BGS-CIEP will remain the customer's default service for the entire 12-month period from June 1 through May 31 of the following year. BGS-RSCP-eligible customers who have elected to take default service under BGS-CIEP may return to BGS-RSCP by notifying the Company no later than the second business day in January of each year. Such notification to return to BGS-RSCP will become effective June 1 of that year.

RATE PER BILLING MONTH: (For service rendered effective June 1, 2023 through May 31, 2024)
1) BGS Energy Charge per KWH: (All charges include Sales and Use Tax as provided in Rider SUT.)

Service Classification	June through September	October through May
RS - first 600 KWH	**$x.xxxxxx**	
- all KWH over 600	**$x.xxxxxx**	
- all KWH		**$x.xxxxxx**
(Excludes off-peak and controlled water heating special provisions)		
RT - all on-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
- all off-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
RGT - all on-peak KWH	**$x.xxxxxx**	
- all off-peak KWH	**$x.xxxxxx**	
- all KWH		**$x.xxxxxx**
RS and GS Water Heating – all KWH	**$x.xxxxxx**	**$x.xxxxxx**
(For separately metered off-peak and controlled water heating usage under applicable special provisions)		
GS - all KWH	**$x.xxxxxx**	**$x.xxxxxx**
(Excludes off-peak and controlled water heating special provisions)		
GST - all on-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
- all off-peak KWH	**$x.xxxxxx**	**$x.xxxxxx**
OL, SVL, MVL, ISL, LED - all KWH	**$x.xxxxxx**	**$x.xxxxxx**

BGS Energy Charges above reflect costs for energy, generation capacity, ancillary services and related cost.

Issued: **Effective:**

Filed pursuant to Order of Board of Public Utilities
Docket No. dated

Issued by James V. Fakult, President
300 Madison Avenue, Morristown, NJ 07962-1911

JERSEY CENTRAL POWER & LIGHT COMPANY

XX Rev. Sheet No. 43

BPU No. 13 ELECTRIC - PART III **Superseding XX Rev. Sheet No. 43**

Rider BGS-CIEP
Basic Generation Service – Commercial Industrial Energy Pricing
(Applicable to Service Classifications GP and GT and Certain Customers under Service Classifications GS and GST)

AVAILABILITY: Rider BGS-CIEP is available to and provides Basic Generation Service (default service) charges applicable to all Full Service Customers taking service at primary and transmission voltages under Service Classifications GP and GT and any Full Service Customers taking service at secondary voltages under Service Classifications GS and GST that have a peak load share of 500 KW or greater as of November 1, 2022, or that have elected to take BGS-CIEP service no later than the second business day in January of each year. All BGS-CIEP customers remain subject to this Rider for the entire 12-month period from June 1 of any given year through May 31 of the following year.

RATE PER BILLING MONTH:
(For service rendered effective June 1, 2023 through May 31, 2024)

1) BGS Energy Charge per KWH: The sum of actual real-time PJM load weighted average Residual Metered Load Aggregate Locational Marginal Price for JCP&L Transmission Zone and ancillary services of **$0.00600** per KWH, times the Losses Multiplier provided below, times 1.06625 multiplier for Sales and Use Tax as provided in Rider SUT.

Losses Multiplier:	GT – High Tension Service	1.005
	GT	1.027
	GP	1.047
	GST	1.103
	GS	1.103

2) BGS Capacity Charge per KW of Generation Obligation: **$x.xxxxx** per KW-day times BGS-CIEP customer's share of the capacity peak load assigned to the JCP&L Transmission Zone by the PJM Interconnection, L.L.C., as adjusted by PJM assigned capacity related factors, times 1.06625 multiplier for Sales and Use Tax as provided in Rider SUT.

3) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications GS, GST, GP and GT. Effective September 1, 2019, a RMR surcharge will be added to the BGS Transmission Charge applicable to all KWH usage, as follows (includes Sales and Use Tax as provided in Rider SUT):

GT – High Tension Service	**$0.000000**
GT	**$0.000000**
GP	**$0.000000**
GS and GST	**$0.000000**

JERSEY CENTRAL POWER & LIGHT COMPANY

XX Rev. Sheet No. 45
BPU No. 13 ELECTRIC - PART III **Superseding XX Rev. Sheet No. 45**

Rider CIEP – Standby Fee
Commercial Industrial Energy Pricing Standby Fee
(Applicable to Service Classifications GP and GT and Certain Customers under Service Classifications GS and GST)

Effective June 1, 2007, Rider DSSAC (Default Supply Service Availability Charge) is renamed Rider CIEP – Standby Fee to comply with the BPU Order dated December 22, 2006 (Docket No. EO06020119).

APPLICABILITY: Rider CIEP – Standby Fee provides a charge applicable to all KWH usage of all Full Service Customers or Delivery Service Customers taking service under Service Classifications GP and GT and any Full Service Customer or Delivery Service Customer taking service under Service Classifications GS and GST that has a peak load share of 500 KW or greater as of November 1, 2022, or that has elected to take Basic Generation Service-Commercial Industrial Energy Pricing under Rider-CIEP no later than the second business day in January of each year. This charge is applicable for service rendered from June 1, 2023 through May 31, 2024 to recover costs associated with administrating and maintaining the availability of the hourly-priced default Basic Generation Service for these customers.

CIEP – Standby Fee per KWH: $0.000150

(**$0.000160** including Sales and Use Tax as provided in Rider SUT)

Jersey Central Power & Light
Attachment 2
2023 BGS Auction Cost and Bid Factor Tables

2021/2022 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors

Adjusted to Billing Time Periods

Table #1 **% Usage During PJM On-Peak Period**

Based on an average of 2019 through 2021 Load Profile Information
On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	47.97%	50.10%	56.31%	53.95%	33.47%
February	47.26%	49.97%	56.35%	54.00%	30.93%
March	48.06%	50.87%	58.78%	54.12%	30.87%
April	51.01%	53.19%	60.50%	55.99%	32.13%
May	45.39%	47.03%	56.49%	53.16%	28.85%
June	52.87%	53.54%	58.17%	56.36%	29.96%
July	53.01%	52.81%	58.14%	55.75%	29.63%
August	53.07%	53.09%	57.82%	55.39%	30.01%
September	48.24%	49.25%	58.21%	55.19%	31.31%
October	48.71%	51.28%	58.86%	56.17%	33.64%
November	45.25%	48.23%	56.16%	52.96%	32.19%
December	48.34%	50.56%	57.51%	54.32%	34.18%

Table #2 **% Usage During JCP&L On-Peak Billing Period**

On-Peak periods as defined in specified rate schedule

(data rounded to nearest .01 %)	*2022 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2022 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.79%	----	----	41.60%	----
February	35.08%	----	----	42.02%	----
March	35.05%	----	----	42.03%	----
April	35.90%	----	----	42.10%	----
May	37.85%	----	----	43.34%	----
June	40.58%	----	----	44.70%	----
July	42.01%	----	----	45.22%	----
August	42.49%	----	----	44.82%	----
September	41.70%	----	----	45.33%	----
October	38.40%	----	----	44.95%	----
November	35.99%	----	----	44.04%	----
December	35.92%	----	----	42.20%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

Jersey Central Power & Light
Attachment 2

Table #3 **Class Usage @ customer**

calendar month sales forecasted for 2022
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	21,535	822,622	451,304	12,259	9,750	1,317,470
February	21,597	786,500	525,381	21,743	9,750	1,364,971
March	20,220	746,694	440,707	15,549	9,750	1,232,920
April	15,915	645,619	427,408	14,458	9,750	1,113,150
May	12,967	595,134	431,350	16,197	9,751	1,065,399
June	13,595	727,466	485,581	13,637	9,751	1,250,030
July	17,306	1,076,379	546,742	17,458	9,751	1,667,636
August	17,627	1,129,731	571,069	17,940	9,751	1,746,118
September	16,257	1,023,837	527,878	15,959	9,752	1,593,683
October	11,201	680,164	459,634	14,499	9,752	1,175,250
November	11,606	578,223	417,652	13,829	9,752	1,031,062
December	16,071	680,488	438,038	15,512	9,752	1,159,861
Total	195,897	9,492,857	5,722,744	189,040	117,012	15,717,550

Table #4 **Forwards Prices - Energy Only @ bulk system**

in $/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	44.35	38.291	35.019	30.234
February	41.80	36.089	33.005	28.496
March	33.90	29.268	26.767	23.110
April	29.75	25.685	23.491	20.281
May	30.25	26.117	23.885	20.622
June	30.40	35.137	20.359	23.531
July	36.55	42.245	24.478	28.292
August	33.45	38.662	22.401	25.891
September	31.70	36.639	21.229	24.537
October	30.15	26.031	23.806	20.553
November	30.45	26.290	24.043	20.758
December	32.55	28.103	25.701	22.189

Table #5 **Zone-Hub Basis Differential**
Based on 3 Year Average

	On-Peak	Off-Peak
January	92%	97%
February	92%	97%
March	92%	97%
April	92%	97%
May	92%	97%
June	89%	89%
July	89%	89%
August	89%	89%
September	89%	89%
October	92%	97%
November	92%	97%
December	92%	97%

Table #6 **Losses**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factor =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors from Transmission Nodes =	9.8423%	9.8423%	9.8423%	9.8423%	9.8423%
Expansion Factor to Transmission Nodes =	1.10917	1.10917	1.10917	1.10917	1.10917

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Jersey Central Power & Light
Attachment 2

Table #7 **Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 32.109	$ 32.223	$ 32.812	$ 32.600	$ 29.225
	PJM on pk	$ 38.222	$ 38.297	$ 38.085	$ 38.193	$ 37.953
	PJM off pk	$ 25.539	$ 25.614	$ 25.508	$ 25.583	$ 25.443
Winter - all hrs		$ 28.577	$ 28.254	$ 28.365	$ 28.180	$ 26.875
	PJM on pk	$ 31.298	$ 30.817	$ 30.477	$ 30.495	$ 30.354
	PJM off pk	$ 26.080	$ 25.669	$ 25.496	$ 25.428	$ 25.235
Annual		$ 29.745	$ 29.909	$ 30.021	$ 29.700	$ 27.658

System Total $ 29.93

Table #8 **Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 2,080	$ 127,518	$ 69,932	$ 2,119	$ 1,140	$ 202,789
	PJM on pk	$ 1,283	$ 78,967	$ 47,142	$ 1,381	$ 447	$ 129,220
	PJM off pk	$ 798	$ 48,551	$ 22,790	$ 738	$ 692	$ 73,569
Winter - all hrs		$ 3,747	$ 156,401	$ 101,871	$ 3,496	$ 2,096	$ 267,611
	PJM on pk	$ 1,963	$ 85,671	$ 63,041	$ 2,054	$ 758	$ 153,489
	PJM off pk	$ 1,783	$ 70,730	$ 38,830	$ 1,441	$ 1,338	$ 114,122
Annual		$ 5,827	$ 283,919	$ 171,803	$ 5,614	$ 3,236	$ 470,400

System Total $ 470,400

Jersey Central Power & Light
Attachment 2

Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 32.109	$ 32.223	$ 32.812	$ 32.600	$ 29.225
	JCP&L On pk	$ 39.750			$ 39.679	
	JCP&L Off pk	$ 26.629			$ 26.801	
Winter - all hrs		$ 28.577	$ 28.254	$ 28.365	$ 28.180	$ 26.875
	JCP&L On pk	$ 31.103			$ 31.180	
	JCP&L Off pk	$ 27.154			$ 25.940	
Annual Average		$ 29.745	$ 29.909	$ 30.021	$ 29.700	$ 27.658
System Average	$ 29.93					

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2022; costs are market estimates
in MW

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	45.4	3,120.6	1,402.7	26.4	0.5	4,595.5

Trans Obl - MW — Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4
# of winter days =	244	# of winter months =	8
		total # months =	12

Transmission charges will be based on Retail Tariff rates for the applicable rate schedules

		Initial	Adjusted				
Generation Capacity cost	Summer	$ 164.89	142.361	$/MW/day	Summer Total	$ 79,815,378	
	Winter	$ 164.89	142.361	$/MW/day	Winter Total	$ 159,630,755	
					Annual Total	$ 239,446,133	25%

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	Rate	
	Charges	% usage
Block 1 (0-600 kWh/m)		52.42%
Block 2 (>600 kWh/m)		47.58%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

	Initial	Adjusted	
Forecasted Ancillary Services Cost	$2.00		$/MWh
Renewable Portfolio Standard Cost	$15.39		$/MWh
forecasted overall annual average	$17.39	$15.014	$/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ -	$ -	$ -	$ -	$ -
Generation Obl $/MWh - all months	$ 12.066	$ 17.128	$ 12.771	$ 7.264	$ 0.225
Generation Obl $/MWh - Summer - All Hours	$ 12.161	$ 13.695	$ 11.431		$ 0.225
Generation Obl $/MWh - Summer - On-Peak Hours	$ 29.120			$ 15.640	
Generation Obl $/MWh - Winter - All Hours	$ 12.018	$ 19.582	$ 13.567		$ 0.225
Generation Obl $/MWh - Winter - On-Peak Hours	$ 33.354			$ 17.262	

Jersey Central Power & Light
Attachment 2

Table #13 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES

includes energy, Generation obligations, and Ancillary Services - adjusted to billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 61.06	$ 62.70	$ 61.03		$ 46.24
JCP&L On pk	$ 85.66			$ 72.11	
JCP&L Off pk	$ 43.41			$ 43.59	
Block 1 (0-600 kWh/m)		$ 58.59			
Block 2 (>600 kWh/m)		$ 67.24			
Winter - all hrs	$ 57.38	$ 64.62	$ 58.72		$ 43.89
JCP&L On pk	$ 81.24			$ 65.23	
JCP&L Off pk	$ 43.94			$ 42.73	
Annual -all hrs	$ 58.60	$ 63.82	$ 59.58	$ 53.75	$ 44.67

DEMAND RATES

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

JCP&L does not have a demand component in its BGS charges

Jersey Central Power & Light
Attachment 2

Table #14 **Units @ Customer**

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,152,066		2,131,270,000		39,005,000	
JCP&L On pk	26,158,679			29,265,169		
JCP&L Off pk	36,474,255			35,728,831		
Block 1 (0-600 kWh/m)		2,074,593,000				
Block 2 (>600 kWh/m)		1,882,820,000				
Winter - all hrs	5,274,005	5,535,444,000	3,591,474,000		78,007,000	
JCP&L On pk	45,337,858			53,031,651		
JCP&L Off pk	80,500,138			71,014,349		
						Total
Summer Total	64,785,000	3,957,413,000	2,131,270,000	64,994,000	39,005,000	6,257,467,000
Winter Total	131,112,000	5,535,444,000	3,591,474,000	124046000	78007000	9,460,083,000
Annual Total	195,897,000	9,492,857,000	5,722,744,000	189,040,000	117,012,000	15,717,550,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 131		$ 130,069		$ 1,803	
JCP&L On pk	$ 2,241			$ 2,110		
JCP&L Off pk	$ 1,584			$ 1,557		
Block 1 (0-600 kWh/m)		$ 121,545				
Block 2 (>600 kWh/m)		$ 126,600				
Winter - all hrs	$ 303	$ 357,714	$ 210,881		$ 3,423	
JCP&L On pk	$ 3,683			$ 3,459		
JCP&L Off pk	$ 3,537			$ 3,034		
Total Costs - in $1000						
Summer	$ 3,956	$ 248,145	$ 130,069	$ 3,667	$ 1,803	$ 387,640
Winter	$ 7,523	$ 357,714	$ 210,881	$ 6,493	$ 3,423	$ 586,035
Total	$ 11,479	$ 605,859	$ 340,950	$ 10,161	$ 5,227	$ 973,675
% of Annual Total $						
Summer	34%	41%	38%	36%	35%	40%
Winter	66%	59%	62%	64%	65%	60%

Jersey Central Power & Light
Attachment 2

Table #16 **Customer & Bulk System Costs**

Customer Costs Per Allocation Matrix

Grand Total Cost in $1000 = $ 973,675

Seasonal Units	**RT{1}**	**RS{2}**	**GS{3}**	**GST {4}**	**OL/SL**	**Total**
Summer	72,430	4,424,385	2,382,758	72,663	43,608	6,995,844
Winter	146,583	6,188,622	4,015,265	138,683	87,212	10,576,365

Supplier Payment in $1000	Seasonal	Price per MWH			
Post Transition Year 19 Bid price plus Capacity P	Factor	55.410	Units		Payment
Seasonally Adjusted Summer Payment	1.0000	55.410	6,995,844	$	387,640
Seasonally Adjusted Winter Payment	1.0000	55.410	10,576,365	$	586,036
Total Supplier Payment				$	973,676

Table #17 **Adjustment Factor Calculation**

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):				Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer	$ 55.41	per MWh @ bulk system		55.41	1.0000	1.155810
Winter	$ 55.41	per MWh @ bulk system		55.41	1.0000	0.863371

Assumptions:

Generation Capacity Cost =	$ 142.36	per MW day Summer
	$ 142.36	per MW day Winter
Transmission cost =	Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.	
Analysis time period =	4	summer months
	8	winter months
Ancillary Services =	$ 15.01	per MWh
Energy Costs =	Based on Forwards prices @ PJM West corrected for hub-zone basis differential (both based on the figures used to derive the Bid Factors and establish retail rates in Post Transition Year 19 and adjusted to match the total cost at the actual supplier bid price.	
Usage patterns =	forecasted 2022 energy use by class based upon PJM on/off % from 2019 through 2021 class load profiles JCP&L billing on/off % from 2022 forecasted billing determinants	
Obligations =	class totals for 2022 excluding accounts required to take service under BGS-CIEP as of June 1, 2023	
Losses =	Consistent with Losses as approved by the BPU	
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas	
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday. GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday. The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.	
NJ Sales and Use Tax (SUT) =	SUT excluded from all costs	

Jersey Central Power & Light
Attachment 2
2023 BGS Auction Cost and Bid Factor Tables

2022/2023 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors

Adjusted to Billing Time Periods

Based on an average of 2019 through 2021 Load Profile Information

Table #1 **% Usage During PJM On-Peak Period** *On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays*

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	47.97%	50.10%	56.31%	53.95%	33.47%
February	47.26%	49.97%	56.35%	54.00%	30.93%
March	48.06%	50.87%	58.78%	54.12%	30.87%
April	51.01%	53.19%	60.50%	55.99%	32.13%
May	45.39%	47.03%	56.49%	53.16%	28.85%
June	52.87%	53.54%	58.17%	56.36%	29.96%
July	53.01%	52.81%	58.14%	55.75%	29.63%
August	53.07%	53.09%	57.82%	55.39%	30.01%
September	48.24%	49.25%	58.21%	55.19%	31.31%
October	48.71%	51.28%	58.86%	56.17%	33.64%
November	45.25%	48.23%	56.16%	52.96%	32.19%
December	48.34%	50.56%	57.51%	54.32%	34.18%

Table #2 **% Usage During JCP&L On-Peak Billing Period** *On-Peak periods as defined in specified rate schedule*

(data rounded to nearest .01 %)	*2022 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2022 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.79%	----	----	41.60%	----
February	35.08%	----	----	42.02%	----
March	35.05%	----	----	42.03%	----
April	35.90%	----	----	42.10%	----
May	37.85%	----	----	43.34%	----
June	40.58%	----	----	44.70%	----
July	42.01%	----	----	45.22%	----
August	42.49%	----	----	44.82%	----
September	41.70%	----	----	45.33%	----
October	38.40%	----	----	44.95%	----
November	35.99%	----	----	44.04%	----
December	35.92%	----	----	42.20%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

Jersey Central Power & Light
Attachment 2

Table #3 **Class Usage @ customer**

calendar month sales forecasted for 2022
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	21,535	822,622	451,304	12,259	9,750	1,317,470
February	21,597	786,500	525,381	21,743	9,750	1,364,971
March	20,220	746,694	440,707	15,549	9,750	1,232,920
April	15,915	645,619	427,408	14,458	9,750	1,113,150
May	12,967	595,134	431,350	16,197	9,751	1,065,399
June	13,595	727,466	485,581	13,637	9,751	1,250,030
July	17,306	1,076,379	546,742	17,458	9,751	1,667,636
August	17,627	1,129,731	571,069	17,940	9,751	1,746,118
September	16,257	1,023,837	527,878	15,959	9,752	1,593,683
October	11,201	680,164	459,634	14,499	9,752	1,175,250
November	11,606	578,223	417,652	13,829	9,752	1,031,062
December	16,071	680,488	438,038	15,512	9,752	1,159,861
Total	195,897	9,492,857	5,722,744	189,040	117,012	15,717,550

Table #4 **Forwards Prices - Energy Only @ bulk system**

in $/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	67.200	69.353	51.855	53.516
February	63.000	65.018	48.614	50.172
March	45.200	46.648	34.879	35.996
April	40.800	42.107	31.484	32.493
May	40.900	42.210	31.561	32.572
June	44.350	55.492	29.642	37.089
July	50.800	63.563	33.953	42.483
August	47.550	59.496	31.781	39.765
September	45.450	56.869	30.377	38.009
October	45.050	46.493	34.763	35.877
November	46.600	48.093	35.959	37.111
December	48.900	50.467	37.734	38.943

Table #5 **Zone-Hub Basis Differential**
Based on 3 Year Average

	On-Peak	Off-Peak
January	88%	92%
February	88%	92%
March	88%	92%
April	88%	92%
May	88%	92%
June	88%	89%
July	88%	89%
August	88%	89%
September	88%	89%
October	88%	92%
November	88%	92%
December	88%	92%

Table #6 **Losses**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factor =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors from Transmission Nodes =	9.8296%	9.8296%	9.8296%	9.8296%	9.8296%
Expansion Factor to Transmission Nodes =	1.10901	1.10901	1.10901	1.10901	1.10901

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Jersey Central Power & Light
Attachment 2

Table #7 **Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 49.165	$ 49.306	$ 50.270	$ 49.910	$ 44.839
	PJM on pk	$ 58.460	$ 58.541	$ 58.300	$ 58.424	$ 58.147
	PJM off pk	$ 39.177	$ 39.260	$ 39.146	$ 39.231	$ 39.073
Winter - all hrs		$ 47.058	$ 46.610	$ 46.872	$ 46.468	$ 44.032
	PJM on pk	$ 52.232	$ 51.492	$ 50.884	$ 50.880	$ 50.733
	PJM off pk	$ 42.310	$ 41.685	$ 41.423	$ 41.223	$ 40.873
Annual		$ 47.755	$ 47.734	$ 48.138	$ 47.651	$ 44.301

System Total $ 47.85

Table #8 **Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 3,185	$ 195,125	$ 107,139	$ 3,244	$ 1,749	$ 310,442
	PJM on pk	$ 1,962	$ 120,708	$ 72,164	$ 2,113	$ 686	$ 197,633
	PJM off pk	$ 1,223	$ 74,417	$ 34,975	$ 1,131	$ 1,063	$ 112,810
Winter - all hrs		$ 6,170	$ 258,008	$ 168,339	$ 5,764	$ 3,435	$ 441,716
	PJM on pk	$ 3,277	$ 143,148	$ 105,252	$ 3,428	$ 1,268	$ 256,372
	PJM off pk	$ 2,893	$ 114,860	$ 63,087	$ 2,336	$ 2,167	$ 185,344
Annual		$ 9,355	$ 453,133	$ 275,479	$ 9,008	$ 5,184	$ 752,158

System Total $ 752,158

Jersey Central Power & Light
Attachment 2

Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 49.165	$ 49.306	$ 50.270	$ 49.910	$ 44.839
	JCP&L On pk	$ 60.782			$ 60.686	
	JCP&L Off pk	$ 40.834			$ 41.084	
Winter - all hrs		$ 47.058	$ 46.610	$ 46.872	$ 46.468	$ 44.032
	JCP&L On pk	$ 53.345			$ 52.186	
	JCP&L Off pk	$ 43.516			$ 42.198	
Annual Average		$ 47.755	$ 47.734	$ 48.138	$ 47.651	$ 44.301
System Average	$ 47.85					

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2022; costs are market estimates

in MW	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	45.4	3,120.6	1,402.7	26.4	0.5	4,595.5

Trans Obl - MW — Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4
# of winter days =	244	# of winter months =	8
		total # months =	12

Transmission charges will be based on Retail Tariff rates for the applicable rate schedules

		Initial	Adjusted				
Generation Capacity cost	Summer	$ 97.75	100.882	$/MW/day	Summer Total	$ 56,559,977	
	Winter	$ 97.75	100.882	$/MW/day	Winter Total	$ 113,119,954	
					Annual Total	$ 169,679,931	14%

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	---------- Rate ---------- Charges	% usage
Block 1 (0-600 kWh/m)		52.42%
Block 2 (>600 kWh/m)		47.58%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

	Initial	Adjusted	
Forecasted Ancillary Services Cost	$2.00		
Renewable Portfolio Standard Cost	$16.09		
forecasted overall annual average	$18.09	18.670	$/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ -	$ -	$ -	$ -	$ -
Generation Obl $/MWh - all months	$ 8.550	$ 12.138	$ 9.050	$ 5.147	$ 0.160
Generation Obl $/MWh - Summer - All Hours	$ 8.618	$ 9.705	$ 8.100		$ 0.160
Generation Obl $/MWh - Summer - On-Peak Hours	$ 20.636			$ 11.083	
Generation Obl $/MWh - Winter - All Hours	$ 8.517	$ 13.877	$ 9.614		$ 0.160
Generation Obl $/MWh - Winter - On-Peak Hours	$ 23.636			$ 12.232	

Jersey Central Power & Light
Attachment 2

Table #13 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES
includes energy, Generation , and Ancillary Services - adjusted to billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 78.66	$ 79.88	$ 79.24		$ 65.87
JCP&L On pk	$ 102.29			$ 92.64	
JCP&L Off pk	$ 61.71			$ 61.96	
Block 1 (0-600 kWh/m)		$ 75.77			
Block 2 (>600 kWh/m)		$ 84.42			
Winter - all hrs	$ 76.45	$ 81.36	$ 77.36		$ 65.06
JCP&L On pk	$ 97.85			$ 85.29	
JCP&L Off pk	$ 64.39			$ 63.07	
Annual -all hrs	$ 77.18	$ 80.74	$ 78.06	$ 73.67	$ 65.33

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

JCP&L does not have a demand component in its BGS charges

Jersey Central Power & Light
Attachment 2

Table #14 **Units @ Customer**

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,152,066		2,131,270,000		39,005,000	
JCP&L On pk	26,158,679			29,265,169		
JCP&L Off pk	36,474,255			35,728,831		
Block 1 (0-600 kWh/m)		2,074,593,000				
Block 2 (>600 kWh/m)		1,882,820,000				
Winter - all hrs	5,274,005	5,535,444,000	3,591,474,000		78,007,000	
JCP&L On pk	45,337,858			53,031,651		
JCP&L Off pk	80,500,138			71,014,349		
						Total
Summer Total	64,785,000	3,957,413,000	2,131,270,000	64,994,000	39,005,000	6,257,467,000
Winter Total	131,112,000	5,535,444,000	3591474000	124046000	78007000	9,460,083,000
Annual Total	195,897,000	9,492,857,000	5,722,744,000	189,040,000	117,012,000	15,717,550,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 169		$ 168,889		$ 2,569	
JCP&L On pk	$ 2,676			$ 2,711		
JCP&L Off pk	$ 2,251			$ 2,214		
Block 1 (0-600 kWh/m)		$ 157,188				
Block 2 (>600 kWh/m)		$ 158,948				
Winter - all hrs	$ 403	$ 450,364	$ 277,832		$ 5,075	
JCP&L On pk	$ 4,436			$ 4,523		
JCP&L Off pk	$ 5,183			$ 4,479		
Total Costs - in $1000						
Summer	$ 5,096	$ 316,135	$ 168,889	$ 4,925	$ 2,569	$ 497,615
Winter	$ 10,023	$ 450,364	$ 277,832	$ 9,002	$ 5,075	$ 752,296
Total	$ 15,119	$ 766,499	$ 446,722	$ 13,927	$ 7,645	$ 1,249,911
% of Annual Total $						
Summer	34%	41%	38%	35%	34%	40%
Winter	66%	59%	62%	65%	66%	60%

Jersey Central Power & Light
Attachment 2

Table #16 **Customer & Bulk System Costs**

Customer Costs Per Allocation Matrix

Grand Total Cost in $1000 = $ 1,249,911

Seasonal Units	**RT{1}**	**RS{2}**	**GS{3}**	**GST {4}**	**OL/SL**	**Total**
Summer	72,430	4,424,385	2,382,758	72,663	43,608	6,995,844
Winter	146,583	6,188,622	4,015,265	138,683	87,212	10,576,365

Supplier Payment in $1000	Seasonal	Price per MWH			
Post Transition Year 20 Bid price plus Capacity P	Factor	71.130	Units		Payment
Seasonally Adjusted Summer Payment	1.0000	71.130	6,995,844	$	497,614
Seasonally Adjusted Winter Payment	1.0000	71.130	10,576,365	$	752,297
Total Supplier Payment				$	1,249,911

Table #17 **Adjustment Factor Calculation**

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):				Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer	$ 71.13	per MWh @ bulk system		71.13	1.0000	1.251234
Winter	$ 71.13	per MWh @ bulk system		71.13	1.0000	1.032039

Assumptions:

Generation Capacity Cost =	$ 100.88	per MW day Summer
	$ 100.88	per MW day Winter
Transmission cost =	Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.	
Analysis time period =	4	summer months
	8	winter months
Ancillary Services =	$ 18.67	per MWh
Energy Costs =	Based on Forwards prices @ PJM West corrected for hub-zone basis differential (both based on the figures used to derive the Bid Factors and establish retail rates in Post Transition Year 20 and adjusted to match the total cost at the actual supplier bid price.	
Usage patterns =	forecasted 2022 energy use by class based upon PJM on/off % from 2019 through 2021 class load profiles JCP&L billing on/off % from 2022 forecasted billing determinants	
Obligations =	class totals for 2022 excluding accounts required to take service under BGS-CIEP as of June 1, 2023	
Losses =	Consistent with Losses as approved by the BPU	
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas	
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday. GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday. The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.	
NJ Sales and Use Tax (SUT) =	SUT excluded from all costs	

Jersey Central Power & Light
Attachment 2
2023 BGS Auction Cost and Bid Factor Tables

2023/202024 BGS Supply Period Estimated Supplier Payments Allocated by Rate Class

Development of Post Transition Period BGS Cost and Bid Factors

Adjusted to Billing Time Periods

Based on an average of 2019 through 2021 Load Profile Information

Table #1 **% Usage During PJM On-Peak Period** *On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays*

(data rounded to nearest .01 %)	*Profile Meter Data* **RT{1}**	*Profile Meter Data* **RS{2}**	*Profile Meter Data* **GS{3}**	*Profile Meter Data* **GST**	*Other Analysis* **OL/SL**
January	47.97%	50.10%	56.31%	53.95%	33.47%
February	47.26%	49.97%	56.35%	54.00%	30.93%
March	48.06%	50.87%	58.78%	54.12%	30.87%
April	51.01%	53.19%	60.50%	55.99%	32.13%
May	45.39%	47.03%	56.49%	53.16%	28.85%
June	52.87%	53.54%	58.17%	56.36%	29.96%
July	53.01%	52.81%	58.14%	55.75%	29.63%
August	53.07%	53.09%	57.82%	55.39%	30.01%
September	48.24%	49.25%	58.21%	55.19%	31.31%
October	48.71%	51.28%	58.86%	56.17%	33.64%
November	45.25%	48.23%	56.16%	52.96%	32.19%
December	48.34%	50.56%	57.51%	54.32%	34.18%

Table #2 **% Usage During JCP&L On-Peak Billing Period** *On-Peak periods as defined in specified rate schedule*

(data rounded to nearest .01 %)	*2022 Forecasted Calendar Month Sales* **RT{1}**	*N/A* **RS{2}**	*N/A* **GS{3}**	*2022 Forecasted Calendar Month Sales* **GST**	*N/A* **OL/SL**
January	35.79%	----	----	41.60%	----
February	35.08%	----	----	42.02%	----
March	35.05%	----	----	42.03%	----
April	35.90%	----	----	42.10%	----
May	37.85%	----	----	43.34%	----
June	40.58%	----	----	44.70%	----
July	42.01%	----	----	45.22%	----
August	42.49%	----	----	44.82%	----
September	41.70%	----	----	45.33%	----
October	38.40%	----	----	44.95%	----
November	35.99%	----	----	44.04%	----
December	35.92%	----	----	42.20%	----

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includes the summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.

{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage

{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions

Jersey Central Power & Light
Attachment 2

Table #3 **Class Usage @ customer**

calendar month sales forecasted for ***2022***

in MWh	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	21,535	822,622	451,304	12,259	9,750	1,317,470
February	21,597	786,500	525,381	21,743	9,750	1,364,971
March	20,220	746,694	440,707	15,549	9,750	1,232,920
April	15,915	645,619	427,408	14,458	9,750	1,113,150
May	12,967	595,134	431,350	16,197	9,751	1,065,399
June	13,595	727,466	485,581	13,637	9,751	1,250,030
July	17,306	1,076,379	546,742	17,458	9,751	1,667,636
August	17,627	1,129,731	571,069	17,940	9,751	1,746,118
September	16,257	1,023,837	527,878	15,959	9,752	1,593,683
October	11,201	680,164	459,634	14,499	9,752	1,175,250
November	11,606	578,223	417,652	13,829	9,752	1,031,062
December	16,071	680,488	438,038	15,512	9,752	1,159,861
Total	195,897	9,492,857	5,722,744	189,040	117,012	15,717,550

Table #4 **Forwards Prices - Energy Only @ bulk system**

in $/MWh

	On-Peak	Off/On Pk LMP ratio	Off-Peak
January	106.10	0.7862	83.411
February	100.15	0.7862	78.733
March	62.35	0.7862	49.017
April	54.75	0.7862	43.042
May	54.50	0.7862	42.845
June	66.65	0.6456	43.031
July	82.80	0.6456	53.458
August	76.20	0.6456	49.197
September	63.25	0.6456	40.836
October	57.95	0.7862	45.558
November	60.70	0.7862	47.720
December	70.75	0.7862	55.620

Table #5 **Zone-Hub Basis Differential**
Based on 3 Year Average

	On-Peak	Off-Peak
January	84%	90%
February	84%	90%
March	84%	90%
April	84%	90%
May	84%	90%
June	83%	90%
July	83%	90%
August	83%	90%
September	83%	90%
October	84%	90%
November	84%	90%
December	84%	90%

Table #6 **Losses**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors @ Bulk =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factors @ Bulk =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors @ Transmission Node =	9.7690%	9.7690%	9.7690%	9.7690%	9.7690%
Expansion Factors @ Transmission Node =	1.10827	1.10827	1.10827	1.10827	1.10827

{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Jersey Central Power & Light
Attachment 2

Table #7 **Summary of Average BGS Energy Only Unit Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - PJM time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 57.731	$ 57.927	$ 58.830	$ 58.555	$ 52.882
	PJM on pk	$ 67.849	$ 67.957	$ 67.448	$ 67.719	$ 67.072
	PJM off pk	$ 46.856	$ 47.016	$ 46.890	$ 47.060	$ 46.734
Winter - all hrs		$ 64.148	$ 62.889	$ 62.771	$ 62.390	$ 59.364
	PJM on pk	$ 69.793	$ 68.172	$ 66.999	$ 67.125	$ 66.628
	PJM off pk	$ 58.968	$ 57.560	$ 57.028	$ 56.762	$ 55.941
Annual		$ 62.025	$ 60.821	$ 61.303	$ 61.072	$ 57.203

System Total $ 60.99

Table #8 **Summary of Average BGS Energy Only Costs @ customer - PJM Time Periods**
based on Forwards prices corrected for zone-hub differential and losses
in $1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		$ 3,740	$ 229,240	$ 125,382	$ 3,806	$ 2,063	$ 364,231
	PJM on pk	$ 2,277	$ 140,123	$ 83,487	$ 2,449	$ 791	$ 229,127
	PJM off pk	$ 1,463	$ 89,117	$ 41,895	$ 1,357	$ 1,272	$ 135,104
Winter - all hrs		$ 8,411	$ 348,120	$ 225,439	$ 7,739	$ 4,631	$ 594,340
	PJM on pk	$ 4,378	$ 189,517	$ 138,586	$ 4,522	$ 1,665	$ 338,669
	PJM off pk	$ 4,032	$ 158,603	$ 86,853	$ 3,217	$ 2,966	$ 255,670
Annual		$ 12,151	$ 577,360	$ 350,821	$ 11,545	$ 6,693	$ 958,570

System Total $ 958,570

Jersey Central Power & Light
Attachment 2

Table #9 **Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in $/MWh

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		$ 57.731	$ 57.927	$ 58.830	$ 58.555	$ 52.882
	JCP&L On pk	$ 70.377			$ 70.154	
	JCP&L Off pk	$ 48.660			$ 49.055	
Winter - all hrs		$ 64.148	$ 62.889	$ 62.771	$ 62.390	$ 59.364
	JCP&L On pk	$ 73.864			$ 68.526	
	JCP&L Off pk	$ 58.674			$ 57.808	
Annual Average		$ 62.025	$ 60.821	$ 61.303	$ 61.072	$ 57.203
System Average	$ 60.99					

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**
obligations - annual average forecasted for 2022; costs are market estimates
in MW

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	45.4	3,120.6	1,402.7	26.4	0.5	4,595.5

Trans Obl - MW Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes

# of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4
# of winter days =	244	# of winter months =	8
		total # months =	12

Transmission charges will be based on Retail Tariff rates for the applicable rate schedules

Generation Capacity cost	Summer	$ 49.59	$/MW/day	Summer Total	$	27,802,871
	Winter	$ 49.59	$/MW/day	Winter Total	$	55,605,743
				Annual Total	$	83,408,614

Residential summer BGS + Transmission charge differential
per BPU and summer blocking percentages

	Rate	
	Charges	% usage
Block 1 (0-600 kWh/m)		52.42%
Block 2 (>600 kWh/m)		47.58%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**

Forecasted Ancillary Services Cost	$2.00	$/MWh
Renewable Portfolio Standard Cost	$16.92	$/MWh
Total Forecasted Ancillary Services & Renewable Power Costs	$18.92	$/MWh

Table #12 **Summary of Obligation Costs Expressed as $/MWh @ customer**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	$ -	$ -	$ -	$ -	$ -
Generation Obl $/MWh - all months	$ 4.203	$ 5.966	$ 4.449	$ 2.530	$ 0.079
Generation Obl $/MWh - Summer - All Hours	$ 4.236	$ 4.771	$ 3.982		$ 0.079
Generation Obl $/MWh - Summer - On-Peak Hours	$ 10.144			$ 5.448	
Generation Obl $/MWh - Winter - All Hours	$ 4.186	$ 6.821	$ 4.726		$ 0.079
Generation Obl $/MWh - Winter - On-Peak Hours	$ 11.619			$ 6.013	

Jersey Central Power & Light
Attachment 2

Table #13 **Summary of BGS Unit Costs @ customer** $ 77.88

NON-DEMAND RATES

includes Energy, Generation Obligations, and Ancillary Services - adjusted to billing time periods
in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 83.12	$ 83.85	$ 83.96		$ 74.11
JCP&L On pk	$ 101.67			$ 96.75	
JCP&L Off pk	$ 69.81			$ 70.21	
Block 1 (0-600 kWh/m)		$ 79.73			
Block 2 (>600 kWh/m)		$ 88.39			
Winter - all hrs	$ 89.49	$ 90.86	$ 88.65		$ 80.60
JCP&L On pk	$ 106.64			$ 95.69	
JCP&L Off pk	$ 79.83			$ 78.96	
Annual -all hrs	$ 87.38	$ 87.94	$ 86.90	$ 84.75	$ 78.43

DEMAND RATES

includes Energy and Ancillary Services, Generation Obligations charged separately - adjusted to billing time periods

JCP&L does not have a demand component in its BGS charges

Jersey Central Power & Light
Attachment 2

Table #14 **Units @ Customer**

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,152,066		2,131,270,000		39,005,000	
JCP&L On pk	26,158,679			29,265,169		
JCP&L Off pk	36,474,255			35,728,831		
Block 1 (0-600 kWh/m)		2,074,593,000				
Block 2 (>600 kWh/m)		1,882,820,000				
Winter - all hrs	5,274,005	5,535,444,000	3,591,474,000		78,007,000	
JCP&L On pk	45,337,858			53,031,651		
JCP&L Off pk	80,500,138			71,014,349		
						Total
Summer Total	64,785,000	3,957,413,000	2,131,270,000	64,994,000	39,005,000	6,257,467,000
Winter Total	131,112,000	5,535,444,000	3591474000	124046000	78007000	9,460,083,000
Annual Total	195,897,000	9,492,857,000	5,722,744,000	189,040,000	117,012,000	15,717,550,000

Table #15 **Summary of Total Estimated BGS Costs by Season**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in $1000						
Summer - all hrs	$ 179		$ 178,950		$ 2,891	
JCP&L On pk	$ 2,660			$ 2,832		
JCP&L Off pk	$ 2,546			$ 2,508		
Block 1 (0-600 kWh/m)		$ 165,415				
Block 2 (>600 kWh/m)		$ 166,414				
Winter - all hrs	$ 472	$ 502,968	$ 318,381		$ 6,287	
JCP&L On pk	$ 4,835			$ 5,075		
JCP&L Off pk	$ 6,426			$ 5,607		
Total Costs - in $1000						
Summer	$ 5,385	$ 331,829	$ 178,950	$ 5,340	$ 2,891	$ 524,395
Winter	$ 11,733	$ 502,968	$ 318,381	$ 10,682	$ 6,287	$ 850,050
Total	$ 17,118	$ 834,797	$ 497,331	$ 16,022	$ 9,178	$ 1,374,445
% of Annual Total $						
Summer	31%	40%	36%	33%	31%	38%
Winter	69%	60%	64%	67%	69%	62%

Jersey Central Power & Light
Attachment 2

Table #16 & Table #17 **Not Applicable to 2023/2024 BGS Supply Period**

Table #18 **Bulk System Costs**

ALL RATES

Grand Total Cost in $1000 = $ 1,374,445

All-In Average costs @ bulk system = $ 78.22 per MWh at bulk system (per bulk system metered MWh)

Table #19 **Seasonal Payment Factors**

If total $ were split on a per MWh basis (on bulk nodes MWhs):

Summer	$	74.96	per MWh @ bulk system
Winter	$	80.37	per MWh @ bulk system

Ratio to All-In Cost (rounded to 4 decimal places)

Summer	**0.9583**
Winter	**1.0276**

Ratio to All-In Cost (If Winter is greater than Summer)

Summer	**1.0000**
Winter	**1.0000**

Assumptions:

Generation Capacity Cost =	$	49.59	per MW day Summer
	$	49.59	per MW day Winter
Transmission cost =	Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.		
Analysis time period =		4	summer months
		8	winter months
Ancillary Services and Renewable Power Cost =	$	18.92	per MWh
Energy Costs =	based on 6/23 to 5/24 Forwards @ PJM West corrected for hub-zone basis differential		
Usage patterns =	forecasted 2022 energy use by class based upon PJM on/off % from 2019 through 2021 class load profiles		
	JCP&L billing on/off % from 2022 forecasted billing determinants		
Obligations =	class totals for 2022 excluding accounts required to take service under BGS-CIEP as of June 1, 2023		
Loss =	Consistent with Losses as approved by the BPU		
PJM Marginal Losses =	PJM's calculated mean value of hourly marginal loss factor		
PJM Time Periods =	PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC		
	holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas		
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday.		
	GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday.		
	The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.		
NJ Sales and Use Tax (SUT) =	SUT excluded from all costs		

Jersey Central Power & Light
Attachment 2
2023 BGS Auction Cost and Bid Factor Tables

BGS-RSCP Composite Cost Allocation

Table #C1 **Post Transition Year 19 Costs w/o Transmission** **Size of Tranches =** **20**
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 131		$ 130,069		$ 1,803	
JCP&L On pk	$ 2,241			$ 2,110		
JCP&L Off pk	$ 1,584			$ 1,557		
Block 1 (0-600 kWh/m)		$ 121,545				
Block 2 (>600 kWh/m)		$ 126,600				
Winter - all hrs	$ 303	$ 357,714	$ 210,881		$ 3,423	
JCP&L On pk	$ 3,683			$ 3,459		
JCP&L Off pk	$ 3,537			$ 3,034		
Total Costs - in $1000						
Summer	$ 3,956	$ 248,145	$ 130,069	$ 3,667	$ 1,803	$ 387,640
Winter	$ 7,523	$ 357,714	$ 210,881	$ 6,493	$ 3,423	$ 586,035
Total	$ 11,479	$ 605,859	$ 340,950	$ 10,161	$ 5,227	$ 973,675

Table #C2 **Post Transition Year 20 Costs w/o Transmission** **Size of Tranches =** **18**
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 169		$ 168,889		$ 2,569	
JCP&L On pk	$ 2,676			$ 2,711		
JCP&L Off pk	$ 2,251			$ 2,214		
Block 1 (0-600 kWh/m)		$ 157,188				
Block 2 (>600 kWh/m)		$ 158,948				
Winter - all hrs	$ 403	$ 450,364	$ 277,832		$ 5,075	
JCP&L On pk	$ 4,436			$ 4,523		
JCP&L Off pk	$ 5,183			$ 4,479		
Total Costs - in $1000						
Summer	$ 5,096	$ 316,135	$ 168,889	$ 4,925	$ 2,569	$ 497,615
Winter	$ 10,023	$ 450,364	$ 277,832	$ 9,002	$ 5,075	$ 752,296
Total	$ 15,119	$ 766,499	$ 446,722	$ 13,927	$ 7,645	$ 1,249,911

{1} For BGS purposes the RT rate class includes the RS and GS rate class Off-Peak (OPWH) and Controlled Water Heating (CTWH) provisions. The RT rate class also includ summer billing month RGT rate class usage. OPWH and CTWH is billed on the average RT rates, while RT and Summer RGT use is billed at on-peak and off-peak rates.
{2} For BGS purposes the RS rate class excludes the Off-Peak and Controlled Water Heating provisions and includes the winter billing month RGT rate class usage
{3} For BGS purposes the GS rate class excludes the Off-Peak and Controlled Water Heating provisions
{4} The GS and GST units exclude the units associated with the 500 kW and above PLS accounts that will be required to take service under BGS-CIEP

Jersey Central Power & Light
Attachment 2

Table #C3 **Post Transition Year 21 Costs w/o Transmission** **Size of Tranches =** **15**
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 179		$ 178,950		$ 2,891	
JCP&L On pk	$ 2,660			$ 2,832		
JCP&L Off pk	$ 2,546			$ 2,508		
Block 1 (0-600 kWh/m)		$ 165,415				
Block 2 (>600 kWh/m)		$ 166,414				
Winter - all hrs	$ 472	$ 502,968	$ 318,381		$ 6,287	
JCP&L On pk	$ 4,835			$ 5,075		
JCP&L Off pk	$ 6,426			$ 5,607		
Total Costs - in $1000						
Summer	$ 5,385	$ 331,829	$ 178,950	$ 5,340	$ 2,891	$ 524,395
Winter	$ 11,733	$ 502,968	$ 318,381	$ 10,682	$ 6,287	$ 850,050
Total	$ 17,118	$ 834,797	$ 497,331	$ 16,022	$ 9,178	$ 1,374,445

Table #C4 **Composite (Tranche Weighted) Costs w/o Transmission**
in $1,000's

Total Costs by Rate - in $1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	$ 158		$ 157,087		$ 2,371	
JCP&L On pk	$ 2,507			$ 2,518		
JCP&L Off pk	$ 2,083			$ 2,049		
Block 1 (0-600 kWh/m)		$ 146,066				
Block 2 (>600 kWh/m)		$ 148,854				
Winter - all hrs	$ 385	$ 430,289	$ 264,044		$ 4,795	
JCP&L On pk	$ 4,265			$ 4,278		
JCP&L Off pk	$ 4,914			$ 4,253		
Total Costs - in $1000						
Summer	$ 4,747	$ 294,920	$ 157,087	$ 4,568	$ 2,371	$ 463,694
Winter	$ 9,564	$ 430,289	$ 264,044	$ 8,531	$ 4,795	$ 717,222
Total	$ 14,311	$ 725,210	$ 421,131	$ 13,099	$ 7,166	$ 1,180,916

Jersey Central Power & Light
Attachment 2

Table #C5 **Units @ Customer**

Forecasted 2022 kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs	2,152,066		2,131,270,000		39,005,000	
JCP&L On pk	26,158,679			29,265,169		
JCP&L Off pk	36,474,255			35,728,831		
Block 1 (0-600 kWh/m)		2,074,593,000				
Block 2 (>600 kWh/m)		1,882,820,000				
Winter - all hrs	5,274,005	5,535,444,000	3,591,474,000		78,007,000	
JCP&L On pk	45,337,858			53,031,651		
JCP&L Off pk	80,500,138			71,014,349		
Summer Total	64,785,000	3,957,413,000	2,131,270,000	64,994,000	39,005,000	6,257,467,000
Winter Total	131,112,000	5,535,444,000	3,591,474,000	124,046,000	78,007,000	9,460,083,000
Annual Total	195,897,000	9,492,857,000	5,722,744,000	189,040,000	117,012,000	15,717,550,000

Table #C6 **Summary of BGS Unit Costs @ customer**

NON-DEMAND RATES

includes Energy, Generation obligations, and Ancillary Services - adjusted to billing time periods in $/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	$ 73.28		$ 73.23		$ 60.79
JCP&L On pk	$ 95.21			$ 86.06	
JCP&L Off pk	$ 56.73			$ 57.36	
Block 1 (0-600 kWh/m)		$ 69.94			
Block 2 (>600 kWh/m)		$ 78.53			
Winter - all hrs	$ 72.94	$ 77.22	$ 73.04		$ 61.47
JCP&L On pk	$ 93.46			$ 80.66	
JCP&L Off pk	$ 60.64			$ 59.89	
Annual -all hrs	$ 72.58	$ 75.89	$ 73.11	$ 69.29	$ 61.24

DEMAND RATES

includes Energy and Ancillary Services, Generation Obligations charged separately - adjusted to billing time periods in $/MWh

JCP&L does not have a demand component in its BGS charges

ALL RATES

Grand Total Cost in $1000 = $ 1,180,916

All-In Average costs @ bulk system = $ 67.20 per MWh at bulk system (per bulk system metered MWh)

All-In Average costs @ transmission nodes = $ 67.79 per MWh at transmission nodes (per transmission nodes metered MWh)

Jersey Central Power & Light
Attachment 2

Table #C7 **Ratio of BGS Unit Costs @ customer to All-In Average Cost @ transmission nodes (rounded to 3 decimal places)**

NON-DEMAND RATES

includes Energy, Generation Obligations, and Ancillary Services - adjusted to billing time periods

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		**1.081**	**1.092**	**1.080**		**0.897**
	JCP&L On pk	**1.404**			**1.269**	
	JCP&L Off pk	**0.837**			**0.846**	
	Constant for Block 1 (0-600 kWh/m) usage (Excl. SUT)		**(4.116)**			
	Constant for Block 2 (>600 kWh/m) usage (Excl. SUT)		**4.536**			
Winter - all hrs		**1.076**	**1.139**	**1.077**		**0.907**
	JCP&L On pk	**1.379**			**1.190**	
	JCP&L Off pk	**0.895**			**0.883**	
Annual - all hrs		**1.071**	**1.119**	**1.078**	**1.022**	**0.903**

DEMAND RATES

includes Energy and Ancillary Services, Generation Obligations charged separately - adjusted to billing time periods

JCP&L does not have a demand component in its BGS charges

Jersey Central Power & Light
Attachment 3 - Page 1 of 3
Development of Capacity Proxy Price True-Up $/MWh
and Calculation of Composite BGS-RSCP Price

Table A - 2023/2024 Delivery Year - Illustrative Only

		2023/2024 Delivery Year for Winning Suppliers from 2021 BGS-RSCP Auction	2023/2024 Delivery Year for Winning Suppliers from 2022 BGS-RSCP Auction	Notes:
1	**Zonal Capacity Price ($/MW-day) - JCPL Zone**	$49.59	$49.59	BRA @ June 2022 illustratively, will be updated with Final PJM RPM Zonal Net Price for 2023/2024 Delivery Year in March, 2023
2	**Capacity Proxy Price ($/MW-day)**	$146.51	$118.12	BGS Order Docket No. ER20030190 dated Nov. 18, 2020 and Docket No. ER21030631 dated Nov. 17, 2021
3	**Capacity Proxy Price True-Up - $/MW-day**	-$96.92	-$68.53	Line 1 - Line2
4	**Total BGS-RSCP Gen Obl - MW**	4,595.5	4,595.5	Table #10 of the 2023 BGS Auction Cost and Bid Factor Tables
5	**Days in BGS Delivery Year**	366	366	
6	**Capacity Proxy Price True-Up Annual Cost**	-$163,015,989	-$115,265,020	= line 3 * line 4 * line 5
7	**Eligible Tranches**	20	18	
8	**Total Tranches**	53	53	
9	**% of tranches eligible for Payment**	37.7%	34.0%	= line 7/ line 8
10	**Capacity Proxy Price True-Up Cost**	-$61,515,467	-$39,146,610	= line 6 * line 9
11	**Total Applicable Customer Usage @ transmission nodes -** *in MWh*	17,419,227	17,419,227	Table #14 * Table #6 from 2023 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12	**Eligible customer Usage @ transmission nodes -** *in MWh*	6,573,293	5,915,964	= line 9 * line 11
13	**Capacity Proxy Price True-Up - $/MWh**	-$9.36	-$6.62	= line 10 / line 12 (rounded to 2 decimal places)

NJ Sales and Use Tax (SUT) excluded

Jersey Central Power and Light
Calculation of Composite BGS-RSCP Price
June 1, 2023 through May 31, 2024 - Illustrative Only

	BGS Post Transition Year 19	BGS Post Transition Year 20	BGS Post Transition Year 21	Total BGS-RSCP Cost
	2021 Auction	*2022 Auction*	*2023 Auction*	
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in $/MWh	$64.77	$77.75	$71.13	
Capacity Proxy Price True Up in $/MWH	($9.36)	($6.62)		
	$55.41	$71.13	$71.13	
Total # of Tranches				
Size of Tranches	20	18	15	
Total # of Tranches	53	53	53	
Seasonal Factors				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
Applicable Customer Usage @ transmission node				
Summer MWh	6,934,938	6,934,938	6,934,938	6,934,938
Winter MWh	10,484,289	10,484,289	10,484,289	10,484,289
All-in BGS-RSCP Cost				
Summer	$145,005,628	$167,529,783	$139,608,153	$452,143,564
Winter	$219,220,548	$253,272,728	$211,060,607	$683,553,883
Total	$364,226,177	$420,802,511	$350,668,759	$1,135,697,447

Composite Bid Price **$65.20** L/(H+I), Rounded to 2 de

Jersey Central Power & Light
Attachment 3 - Page 2 of 3
Development of Capacity Proxy Price True-Up $/MWh
and Calculation of Composite BGS-RSCP Price

Table A - 2024/2025 Delivery Year - Illustrative Only

		2024/2025 Delivery Year for Winning Suppliers from 2022 BGS-RSCP Auction	2024/2025 Delivery Year for Winning Suppliers from 2023 BGS-RSCP Auction*	Notes:
1	**Zonal Capacity Price ($/MW-day) - JCPL Zone**	$50.00	$50.00	Illustrative Only
2	**Capacity Proxy Price ($/MW-day)**	$87.98	$66.38	BGS Order Docket No. ER21030631 dated Nov. 17, 2021 and ER22030127 dated Nov. 9, 2022
3	**Capacity Proxy Price True-Up - $/MW-day**	-$37.98	-$16.38	Line 1 - Line2
4	**Total BGS-RSCP Gen Obl - MW**	4,595.5	4,595.5	Table #10 of the 2023 BGS Auction Cost and Bid Factor Tables
5	**Days in BGS Delivery Year**	365	365	
6	**Capacity Proxy Price True-Up Annual Cost**	-$63,706,469	-$27,475,302	= line 3 * line 4 * line 5
7	**Eligible Tranches**	18	15	
8	**Total Tranches**	53	53	
9	**% of tranches eligible for Payment**	34.0%	28.3%	= line 7/ line 8
10	**Capacity Proxy Price True-Up Cost**	-$21,636,159	-$7,776,029	= line 6 * line 9
11	**Total Applicable Customer Usage @ transmission nodes -** *in MWh*	17,419,227	17,419,227	Table #14 * Table #6 from 2023 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12	**Eligible customer Usage @ transmission nodes -** *in MWh*	5,915,964	4,929,970	= line 9 * line 11
13	**Capacity Proxy Price True-Up - $/MWh**	-$3.66	-$1.58	= line 10 / line 12 (rounded to 2 decimal places)

NJ Sales and Use Tax (SUT) excluded

*: If PJM holds an auction under the Reliability Pricing Model ("RPM") or its successor or otherwise at least 5 business days prior to the BGS-RSCP Auction, then capacity proxy price for delivery year 2024/2025 is void.

Calculation of Composite BGS-RSCP Price
June 1, 2024 through May 31, 2025 - Illustrative Only

	BGS Post Transition Year 20	BGS Post Transition Year 21	BGS Post Transition Year 22	Total BGS-RSCP Cost
	2022 Auction	*2023 Auction*	*2024 Auction*	
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in $/MWh	$77.75	$71.13	$69.55	
Capacity Proxy Price True Up in $/MWH	($3.66)	($1.58)		
	$74.09	$69.55	$69.55	
Total # of Tranches				
Size of Tranches	18	15	20	
Total # of Tranches	53	53	53	
Seasonal Factors				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
Applicable Customer Usage @ transmission node				
Summer MWh	6,934,938	6,934,938	6,934,938	6,934,938
Winter MWh	10,484,289	10,484,289	10,484,289	10,484,289
All-in BGS-RSCP Cost				
Summer	$174,501,359	$136,507,058	$182,009,411	$493,017,827
Winter	$263,812,406	$206,372,349	$275,163,132	$745,347,887
Total	$438,313,764	$342,879,407	$457,172,543	$1,238,365,714

Composite Bid Price **$71.09** L/(H+I), Rounded to 2 decimals

Jersey Central Power & Light
Attachment 3 - Page 3 of 3
Development of Capacity Proxy Price True-Up $/MWh
and Calculation of Composite BGS-RSCP Price

Table A - 2025/2026 Delivery Year - Illustrative Only

		2025/2026 Delivery Year	Notes:
1	**Zonal Capacity Price ($/MW-day) - JCPL Zone**	$50.00	Illustrative Only
2	**Capacity Proxy Price ($/MW-day)**	$44.63	BGS Order Docket No. ER22030127 dated Nov. 9, 2022
3	**Capacity Proxy Price True-Up - $/MW-day**	$5.37	Line 1 - Line2
4	**Total BGS-RSCP Gen Obl - MW**	4,595.5	Table #10 of the 2023 BGS Auction Cost and Bid Factor Tables
5	**Days in BGS Delivery Year**	365	
6	**Capacity Proxy Price True-Up Annual Cost**	$9,007,471	= line 3 * line 4 * line 5
7	**Eligible Tranches**	15	
8	**Total Tranches**	53	
9	**% of tranches eligible for Payment**	28.3%	= line 7/ line 8
10	**Capacity Proxy Price True-Up Cost**	$2,549,284	= line 6 * line 9
11	**Total Applicable Customer Usage @ transmission nodes -** *in MWh*	17,419,227	Table #14 * Table #6 from 2023 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12	**Eligible customer Usage @ transmission nodes -** *in MWh*	4,929,970	= line 9 * line 11
13	**Capacity Proxy Price True-Up - $/MWh**	$0.52	= line 10 / line 12 (rounded to 2 decimal places)

NJ Sales and Use Tax (SUT) excluded

Calculation of Composite BGS-RSCP Price
June 1, 2025 through May 31, 2026 - Illustrative Only

	BGS Post Transition Year 21	BGS Post Transition Year 22	BGS Post Transition Year 23	Total BGS-RSCP Cost
	2023 Auction	*2024 Auction*	*2025 Auction*	
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in $/MWh	$71.13	$71.65	$71.65	
Capacity Proxy Price True Up in $/MWH	$0.52			
	$71.65	$71.65	$71.65	
Total # of Tranches				
Size of Tranches	15	20	18	
Total # of Tranches	53	53	53	
Seasonal Factors				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
Applicable Customer Usage @ transmission node				
Summer MWh	6,934,938	6,934,938	6,934,938	6,934,938
Winter MWh	10,484,289	10,484,289	10,484,289	10,484,289
All-in BGS-RSCP Cost				
Summer	$140,628,766	$187,505,022	$168,754,520	$496,888,308
Winter	$212,603,577	$283,471,437	$255,124,293	$751,199,307
Total	$353,232,344	$470,976,458	$423,878,812	$1,248,087,615

Composite Bid Price **$71.65** L/(H+I), Rounded to 2 decima