IN THE MATTER OF THE PROVISION OF BASIC GENERATION SERVICE FOR THE PERIOD BEGINNING JUNE 1, 2022

Docket No. ER21030631

JERSEY CENTRAL POWER & LIGHT COMPANY

PROPOSAL FOR BASIC GENERATION SERVICE BEYOND MAY 31, 2022

COMPANY SPECIFIC ADDENDUM COMPLIANCE FILING

December 2, 2021

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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

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¹ On May 6, 2020, JCP&L submitted a Verified Petition seeking approval of its proposed sale of Yards Creek, which the BPU assigned to Docket No. EM20050343. On October 28, 2020, the BPU issued an Order approving the Company's proposed sale of its interest in Yards Creek and ordering that JCP&L "[w]ithin thirty (30) days of the date of closing on this transaction the Company shall file with the Board proof of the closing, net transaction costs, and final journal entries alone with a detailed calculation, including selling expenses, of the sale." On May 5, 2021, JCP&L closed on the transaction for the sale of Yards Creek. As such, Yards Creek is no longer considered Committed Supply for BGS.

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, 2022;
- (c) A default during the June 1, 2022 May 31, 2025 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, 2022

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, 2022 through May 31, 2025 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 preauction 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 BGS Auction was conducted remotely (*i.e.*, the aforementioned office space was not utilized), without issue. Given the success of conducting the recent auction remotely, JCP&L believes it would be prudent (and will reduce costs for the benefit of BGS customers) to

conduct future BGS Auctions in this same remote manner. As such, the Company proposes 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.

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, 2022). 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. Additionally, as applicable to the SMA, the NGC Deferred Balance will be credited with any revenues resulting from JCP&L's assumption of Unaccounted for Energy, Meter Corrections, and Inadvertent Energy.

The NGC Deferred Balance will be charged with all costs associated with Committed Supply, including NUGs and Yards Creek. The NGC Deferred Balance will also be charged for the costs associated with any RPS compliance requirements resulting from JCP&L's assumption of Unaccounted for Energy.

III. DESCRIPTION OF BGS TARIFF SHEETS AND OTHER TARIFF CHANGES

A. General

As described in the generic section of the EDCs' 2022 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 87% of the total load on the JCP&L electric system.

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 834 customers, excluding GS and GST customers as noted below, would thus be eligible to receive BGS-CIEP default service, which would comprise about 13% 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, 2021, and those GS and GST customers that have opted to take BGS-CIEP default service for the 2022/2023 BGS Supply Period (June 1, 2022 through May 31, 2023) as of January 4, 2022.

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 2022 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. "Winning bid price" from 2020 auction is reduced by the estimated transmission cost. Attachment 4 shows the development of estimated transmission cost included in the "Winning bid price" from 2020's auction. 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 2022 BGS Auction Cost and Bid Factor Tables.

With the prior postponement of the 2022/2023 and 2023/2024 PJM Base Residual Auctions ("BRA") for the Reliability Pricing Model ("RPM") products for the 2022/2023 and 2023/2024 delivery years, the EDCs proposed and the Board adopted the use of Capacity Proxy Prices to provide bidders in the 2020 and 2021 BGS-RSCP auctions with some certainty regarding capacity prices for the BGS-RSCP load in the 2022/2023 and 2023/2024 delivery years. The Capacity Proxy Price for JCP&L for the 2020 and 2021 BGS Auctions were \$152.06 for the 2022/2023 delivery year and for the 2021 BGS Auctions was \$146.51 for the 2023/2024 delivery years. Similarly, the EDCs propose the use of a Capacity Proxy Price to provide bidders in the 2022 BGS-RSCP auction with some certainty regarding capacity prices for the BGS-RSCP load in the 2023/2024 and 2024/2025 delivery years. For the 2022 BGS-RSCP auction, JCP&L proposes 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.

For Energy Year (EY) 2024, payments to the BGS-RSCP suppliers that have executed the Supplement A to the BGS-RSCP SMA, if the capacity charge for the 2023/2024 Delivery Year is not known 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 2023/2024 Capacity Proxy Price for the 2023/2024 BGS Supply Period (the "Capacity Price True-up"). Similarly, for EY 2025, payments to the BGS-RSCP suppliers that have executed the Supplement B to the BGS-RSCP SMA, if the capacity charge for the 2024/2025 Delivery Year is not known at least twenty (20) 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 2024/2025 delivery year and the 2024/2025 Capacity Proxy Price. BGS-RSCP Energy Charges for the 2023/2024 and 2024/2025 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 2023/2024 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 2024/2025 BGS Supply Period for illustrative purposes.

For the 2022/2023 BGS Supply Period, the SMA Supplements signed by BGS Suppliers in February 2020 and February 2021 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 13, 2019 and November 18, 2020 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 2022/2023 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 2020 and February 2021. The value (\$97.75per MW-day) of the recently concluded BRA in June of 2021 is used as an approximation for the price paid by BGS-RSCP Suppliers for Capacity in

the Company's PJM Zone for the 2022/2023 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, 2021, those GS and GST customers that have opted to take BGS-CIEP default service for the 2022/2023 BGS Supply Period (June 1, 2022 through May 31, 2023) as of January 4, 2022, and those GS and GST customers that previously opted to take BGS-CIEP default service and do not notify the Company, by January 4, 2022, that they opt to return to BGS-RSCP default service for the 2022/2023 BGS Supply Period (June 1, 2022 through May 31, 2023).

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, 2021, 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, 2022, provided that they notify the Company no later than January 4, 2022. 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, 2022.

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, 2021, and GS and GST customers that have opted in no later than January 4, 2022. 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 2020 and 2021 BGS auctions and the forecasted cost for the 2022 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 (2020/2021, 2021/2022 and 2022/2023, 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 2018, 2019 and 2020 data.

Table #2 (% Usage During JCP&L On-Peak Billing Period) contains the percentage of on-peak load, forecasted for 2021, 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 2021. The values in Table #3 will be updated in January 2022 to better reflect the amount by rate schedule that could be in effect starting on June 1, 2022. 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 2020/2021 and 2021/2022 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 2020 and 2021 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 2021, 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 2022 to better reflect the aggregate amount by rate schedule that could be in effect on June 1, 2022. 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 2020/2021 and 2021/2022 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 2020 and 2021 BGS

auctions. The cost of transmission service is equal to the current transmission rate under the JCP&L retail tariff approved by the BPU, excluding the pass-through of transmission rate increases (e.g., TECs) that are subject to refund. For the 2021/2022 and 2022/2023 BGS Supply Periods, 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 2021. 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 2022/2023 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 \$16.09 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 2020/2021 and 2021/2022 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 2020 and 2021 BGS auctions.

Table #12 (Summary of Obligation Costs Expressed as \$/MWh @ customer) provides transmission obligations for 2020/2021 BGS Supply Periods, which are JCP&L's Tariff transmission rates for the rate schedules indicated, excluding the pass-through of transmission rate increases (e.g., TEC), and sales and use tax, and shows the result of the allocation of generation costs on a per MWh basis. For the 2021/2022 and 2022/2023 BGS Supply Periods, transmission cost 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 the transmission (excluding the pass-through of transmission rate increases (e.g., TEC)) for 2020/2021 BGS Supply Period only, 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 2021 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak as applicable.

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 #15A (Summary of Total Estimated BGS Costs by Season excluding Transmission) applies only to the 2020/2021 BGS Supply Periods. This table takes the total cost from Table #15 and subtracts the transmission obligation cost, which is determined as the transmission cost in

(\$/MWh) from Table 12 multiplied by the Table 14 Units @ Customers by rate class, season and block for each of the 2020/2021 BGS Supply Periods.

Table #16 (Customer and Bulk System Costs) applies only to the 2020/2021 and 2021/2022 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 2020/2021 and 2021/2022 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 2022/2023 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 2022/2023 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 2022/2023 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 and 2022/2023 BGS Supplier Periods and Table #15A for the 2020/2021 BGS Supply Periods to derive the tranche weighted average cost excluding Transmission for June 1, 2022 through May 31, 2023, 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, 2022 through May 31, 2023.

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 2021 units at customer (metered usage without losses) by rate class, season, usage block and on-peak versus off-peak, as applicable.

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 (2022/2023 BGS Supply Period, Table #3 adjusted by the loss factors in 2022/2023 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, 2022 through May 31, 2023. 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, 2021. 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, 2022 through May 31, 2023)

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.xxxxx	
- all KWH over 600	\$x.xxxxx	
- all KWH		\$x.xxxxxx
(Excludes off-peak and controlled water	heating special provisions)	
RT - all on-peak KWH	\$x.xxxxx	\$x.xxxxx
- all off-peak KWH	\$x.xxxxx	\$x.xxxxxx
RGT - all on-peak KWH	\$x.xxxxx	
- all off-peak KWH	\$x.xxxxx	
- all KWH	ΨΑΙΛΛΑΛΑ	\$x.xxxxx
RS and GS Water Heating – all KWH (For separately metered off-peak and cor	\$x.xxxxxx ntrolled water heating usage un	\$x.xxxxxx der applicable special provisions)
GS - all KWH	\$x.xxxxx	\$x.xxxxx
(Excludes off-peak and controlled water	heating special provisions)	
GST - all on-peak KWH	\$x.xxxxx	\$x.xxxxxx
- all off-peak KWH	\$x.xxxxxx	\$x.xxxxx
OL, SVL, MVL, ISL, LED - all KWH	\$x.xxxxxx	\$x.xxxxxx
BGS Energy Charges above reflect costs	for energy, generation capacity	y, ancillary services and related cost.

Filed nursuant to Order of Board of Public Utilities

Effective:

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Docket No. dated

Issued:

JERSEY CENTRAL POWER & LIGHT COMPANY

XX Rev. Sheet No. 43 Superseding XX Rev. Sheet No. 43

BPU No. 13 ELECTRIC - PART III

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, 2021, 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, 2022 through May 31, 2023)

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	\$0.00000
GT	\$0.00000
GP	\$0.000000
GS and GST	\$0.000000

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BPU No. 13 ELECTRIC - PART III

XX Rev. Sheet No. 45 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, 2021, 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, 2022 through May 31, 2023 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)

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Docket No. dated

Jersey Central Power & Light Attachment 2 2022 BGS Auction Cost and Bid Factor Tables

2020/2021 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

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% Usage During PJM On-Peak Period

Based on an average of 2018 through 2020 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	49.26%	51.71%	57.70%	55.37%	33.70%
February	47.00%		56.66%		30.82%
March	47.66%		58.23%		30.21%
April	50.07%		59.84%		31.45%
May	47.79%		58.46%		29.65%
June	52.17%		57.71%		29.33%
July	52.81%		58.42%		29.37%
August	53.61%		58.67%		30.19%
September	46.66%		56.78%		30.29%
October	49.91%		60.49%		34.64%
November	45.64%		56.46%		32.22%
December	46 16%		55 37%		32 63%

Table #2

Table #1

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

	2021 Forecasted			2021 Forecasted	
	Calendar Month			Calendar Month	
	Sales	N/A	N/A	Sales	N/A
(data rounded to nearest .01 %)	RT{1}	RS{2}	GS{3}	GST	OL/SL
January	35.23%			41.96%	
February	34.75%			42.80%	
March	34.48%			42.74%	
April	35.09%			43.52%	
May	36.95%			44.42%	
June	39.81%			46.05%	
July	41.46%			45.92%	
August	41.87%			46.00%	
September	40.83%			46.35%	
October	37.07%			45.92%	
November	35.20%			44.43%	
December	35.21%			42.44%	

^{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.

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^{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

1.10943

1.10943

1.10943

Table #3	Class Usage @ customer calendar month sales forecaste	ed for 2021							
	in MWh			RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
	January			22,142	816,952	461,911	16,347	9,591	1,326,943
	February			20,768	733,590	457,070	17,353	9,591	1,238,372
	March			19,458	694,392	446,967	16,155	9,591	1,186,563
	April			17,588	622,304	424,176	18,178	9,591	1,091,837
	May			13,518	575,300	403,525	17,667	9,591	1,019,601
	June			14,337	723,824	451,534	17,075	9,592	1,216,362
	July			17,436	1,009,661	508,986	18,215	9,592	1,563,890
	August			18,793	1,124,675	522,761	17,554	9,592	1,693,375
	September			15,686	913,501	502,169	17,167	9,592	1,458,115
	October			11,029	623,412	433,635	15,970	9,592	1,093,638
	November			12,570	551,904	408,518	15,357	9,592	997,941
	December			17,910	683,892	455,614	18,297	9,593	1,185,306
	Total			201,235	9,073,407	5,476,866	205,335	115,100	15,071,943
Table #4	Forwards Prices - Energy Onl				one-Hub Basis Dif				
	in \$/MWh					В	ased on 3 Year Av	erage	
		1 141 1							
		Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak		On-Peak	Off-Peak	
	January						On-Peak 94%	Off-Peak 96%	
	January February	On-Peak	On-Peak	Off-Peak	Off-Peak				
		On-Peak 42.050	On-Peak 41.063	Off-Peak 33.119 31.307 25.282	Off-Peak 32.341		94%	96%	
	February	On-Peak 42.050 39.750	On-Peak 41.063 38.817	Off-Peak 33.119 31.307	Off-Peak 32.341 30.572		94% 94%	96% 96%	
	February March	On-Peak 42.050 39.750 32.100	On-Peak 41.063 38.817 31.346	Off-Peak 33.119 31.307 25.282	Off-Peak 32.341 30.572 24.688		94% 94% 94%	96% 96% 96%	
	February March April May June	On-Peak 42.050 39.750 32.100 29.050	On-Peak 41.063 38.817 31.346 28.368	Off-Peak 33.119 31.307 25.282 22.880	Off-Peak 32.341 30.572 24.688 22.343	Г	94% 94% 94% 94%	96% 96% 96% 96%	
	February March April May	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318	Γ	94% 94% 94% 94% 94% 93% 93%	96% 96% 96% 96% 96% 90%	
	February March April May June	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175		94% 94% 94% 94% 94% 93% 93%	96% 96% 96% 96% 96% 90% 90%	
	February March April May June July	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136		94% 94% 94% 94% 94% 93% 93% 93% 93%	96% 96% 96% 96% 96% 90% 90% 90%	
	February March April May June July August	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804		94% 94% 94% 94% 93% 93% 93% 93%	96% 96% 96% 96% 90% 90% 90% 90%	
	February March April May June July August September	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350 28.800	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684 28.124	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328 22.683	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804 22.150		94% 94% 94% 94% 94% 93% 93% 93% 93% 94%	96% 96% 96% 96% 96% 90% 90% 90% 96% 96%	
	February March April May June July August September October	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804		94% 94% 94% 94% 93% 93% 93% 93%	96% 96% 96% 96% 90% 90% 90% 90%	
Table #6	February March April May June July August September October November	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350 28.800	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684 28.124	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328 22.683	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804 22.150	GS{3}	94% 94% 94% 94% 94% 93% 93% 93% 93% 94%	96% 96% 96% 96% 96% 90% 90% 90% 96% 96%	
Table #6	February March April May June July August September October November December Losses Loss Factors =	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350 28.800	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684 28.124	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328 22.683 24.849 RT{1}	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804 22.150 24.266 RS{2}	10.5545%	94% 94% 94% 94% 94% 93% 93% 93% 94% 94% 94%	96% 96% 96% 96% 96% 90% 90% 90% 96% 96% 96%	
Table #6	February March April May June July August September October November December Losses	On-Peak 42.050 39.750 32.100 29.050 29.050 28.250 32.900 30.750 30.450 28.350 28.800	On-Peak 41.063 38.817 31.346 28.368 28.368 37.665 43.864 40.998 40.598 27.684 28.124	Off-Peak 33.119 31.307 25.282 22.880 22.880 18.882 21.990 20.553 20.353 22.328 22.683 24.849 RT{1}	Off-Peak 32.341 30.572 24.688 22.343 22.343 25.175 29.318 27.402 27.136 21.804 22.150 24.266 RS{2}		94% 94% 94% 94% 94% 93% 93% 93% 94% 94% 94%	96% 96% 96% 96% 90% 90% 90% 90% 96% 96%	

⁽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

1.10943

1.10943

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Expansion Factor to Transmission Nodes =

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		\$ 35.267	\$ 35.393	\$ 36.183	\$ 35.804	\$ 31.889
	PJM on pk	\$ 42.582	\$ 42.667	\$ 42.509	\$ 42.457	\$ 42.403
	PJM off pk	\$ 27.518	\$ 27.588	\$ 27.479	\$ 27.460	\$ 27.426
Winter - all hrs		\$ 30.897	\$ 30.720	\$ 30.854	\$ 30.477	\$ 28.990
	PJM on pk	\$ 34.409	\$ 34.031	\$ 33.580	\$ 33.428	\$ 33.467
	PJM off pk	\$ 27.662	\$ 27.351	\$ 27.108	\$ 26.907	\$ 26.891
Annual		\$ 32.336	\$ 32.662	\$ 32.786	\$ 32.293	\$ 29.956

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

\$

32.68

n \$1000

System Total

m \$1000		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		\$ 2,337	\$ 133,489	\$ 71,839	\$ 2,507	\$ 1,224	\$ 211,395
	PJM on pk	\$ 1,451	\$ 83,295	\$ 48,876	\$ 1,654	\$ 485	\$ 135,761
	PJM off pk	\$ 885	\$ 50,194	\$ 22,963	\$ 853	\$ 739	\$ 75,635
Winter - all hrs		\$ 4,171	\$ 162,869	\$ 107,724	\$ 4,124	\$ 2,224	\$ 281,112
	PJM on pk	\$ 2,227	\$ 90,991	\$ 67,856	\$ 2,476	\$ 820	\$ 164,370
	PJM off pk	\$ 1,944	\$ 71,878	\$ 39,867	\$ 1,648	\$ 1,405	\$ 116,742
Annual		\$ 6,507	\$ 296,358	\$ 179,563	\$ 6,631	\$ 3,448	\$ 492,507

System Total \$ 492,507

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Table #9	Summary of Average BGS En based on Forwards prices corn					riods							
	in \$/MWh			RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	
	Summer - all hrs JCP&L Or	n pk	\$	35.267 44.489		35.393	\$	36.183	\$	35.804 44.012	\$	31.889	
	JCP&L Of			28.840					\$	28.789			
	Winter - all hrs JCP&L Or		\$	30.897 34.176		30.720	\$		\$	30.477 34.270	\$	28.990	
	JCP&L Of	f pk		\$ 29.104					\$	27.556			
	Annual Average System Average	\$ 32	2.68	32.336	\$	32.662	\$	32.786	\$	32.293	\$	29.956	
Table #10	Generation & Transmission obligations - annual average for												BGS-RSCP
	in MW	70000100 707 2027	, coole are market com	RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	TOTAL
	Gen Obl - MW			49.8	3	3,258.7	•	1,418.5		31.6		1.0	4,759.6
	Trans Obl - MW	Not applicabl	e for JCP&L - Transmi	ssion rates are ba	sed or	Retail Tariff ra	ates 1	for the respective	rate	classes			
	# of Months and Days used in	•											
			# of summer days = # of winter days =	122 243		#	# of	ummer months = winter months = total # months =		4 8 12			
	Transmission charges will be b	ased on Retail Ta	riff rates for the applica	able rate schedule	S								
			<u>Initial</u>	Adjusted 470 000					•	00 004 000			
	Generation Capacity cost	Summer Winter	\$ 175.11 \$ 175.11	170.999 170.999		•		Summer Total Winter Total Annual Total	\$	99,294,922 197,775,951 297,070,873			
	Residential summer BGS + Tra per BPU and summer blocking	-											
	Block 1 (0-600 kWh Block 2 (>600 kWh		Rate	% usage 53.06% 46.94%									
	Differential (Excl. S	UT) 0.8	3652 ¢/kWh										
Table #11	Ancillary Services Forecasted Ancillary Services Renewable Portfolio Standard		<u>Initial</u> \$2.00 \$16.72	<u>Adjusted</u>									
	forecasted overall annual avera		\$18.72	18.281	1 \$/M\	Vh							
Table #12	Summary of Obligation Cost	s Expressed as \$	6/MWh @ customer										
				RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	
	Transmission Obl - all mor	nths	\$	8.214	\$	8.214	\$	8.214	\$	8.214	\$	-	
Gener	Generation Obl \$/MWh - all mon ation Obl \$/MWh - Summer - All Ho		\$			22.416 18.025		16.165 14.905	\$	9.596	\$ \$	0.546 0.548	
Generation C	Dbl \$/MWh - Summer - On-Peak Ho eration Obl \$/MWh - Winter - All Ho	ours	\$	38.195		25.541			\$	20.416	\$	0.546	
Congretion	Obl \$/MM/h Winter On Book He	uro		12 206					Ф	22 202			

\$

43.386

22.282

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Generation Obl \$/MWh - Winter - On-Peak Hours

Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 79.61	\$ 82.07	\$ 79.74	\$	52.87
JCP&L On pk	\$ 111.34			\$ 93.08	
JCP&L Off pk	\$ 57.49			\$ 57.44	
Block 1 (0-600 kWh/m)		\$ 78.01			
Block 2 (>600 kWh/m)		\$ 86.66			
Winter - all hrs	\$ 74.88	\$ 84.91	\$ 76.39	\$	49.97
JCP&L On pk	\$ 106.21			\$ 85.20	
JCP&L Off pk	\$ 57.76			\$ 56.21	
Annual -all hrs	\$ 76.44	\$ 83.73	\$ 77.60	\$ 70.54 \$	50.94

DEMAND RATES

includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in $\mbox{\it S/MWh}$

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

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Table #14 Units @ Customer

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,446,237		1,985,450,000		38,368,000	
JCP&L On pk	26,206,974			32,259,110		
JCP&L Off pk	37,598,789			37,751,890		
Block 1 (0-600 kWh/m)		2,001,184,000				
Block 2 (>600 kWh/m)		1,770,477,000				
Winter - all hrs	5,877,031	5,301,746,000	3,491,416,000		76,732,000	
JCP&L On pk	45,630,734			58,871,465		
JCP&L Off pk	83,475,235			76,452,535		
						Total
Summer Total	66,252,000	3,771,661,000	1,985,450,000	70,011,000	38,368,000	5,931,742,000
Winter Total	134,983,000	5,301,746,000	3491416000	135324000	76732000	9,140,201,000
Annual Total	201,235,000	9,073,407,000	5,476,866,000	205,335,000	115,100,000	15,071,943,000

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	\$ 195		\$ 158,319		\$ 2,029	
JCP&L On pk	\$ 2,918			\$ 3,003		
JCP&L Off pk	\$ 2,162			\$ 2,169		
Block 1 (0-600 kWh/m)		\$ 156,109				
Block 2 (>600 kWh/m)		\$ 153,430				
Winter - all hrs	\$ 440	\$ 450,185	\$ 266,703		\$ 3,835	
JCP&L On pk	\$ 4,847			\$ 5,016		
JCP&L Off pk	\$ 4,821			\$ 4,297		
Total Costs - in \$1000						
Summer	\$ 5,274	\$ 309,539	\$ 158,319	\$ 5,171	\$ 2,029	\$ 480,332
Winter	\$ 10,108	\$ 450,185	\$ 266,703	\$ 9,313	\$ 3,835	\$ 740,143
Total	\$ 15,382	\$ 759,724	\$ 425,022	\$ 14,485	\$ 5,863	\$ 1,220,476
% of Annual Total \$						
Summer	34%	41%	37%	36%	35%	39%
Winter	66%	59%	63%	64%	65%	61%

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Table #15A Summary of Total Estimated BGS Costs by Season excluding Transmission

Table #16

Table #17

Assumptions:

•		R	T{1}	RS{2}		GS{3}		GST {4}	OL/SL		Total
Total Costs by Rate - in \$1000				(-,		(-)		(-)			
Summer - all hrs		\$	175		\$	142,011			\$ 2,0	029	
JCP&L On pk		\$	2,703				\$	2,738			
JCP&L Off pk		\$	1,853				\$	1,858			
Block 1 (0-600 kWh/m)				\$ 139,6	71						
Block 2 (>600 kWh/m)				\$ 138,8	87						
Winter - all hrs		\$	392	\$ 406,6	36 \$	238,024			\$ 3,8	335	
JCP&L On pk		\$	4,472				\$	4,533			
JCP&L Off pk		\$	4,136				\$	3,669			
Total Costs - in \$1000											
Summer		\$	4,730	\$ 278,5	59 \$	142,011	\$	4,596	\$ 2,0	029	\$ 431,924
Winter		\$	8,999	\$ 406,6	36 \$	238,024	\$	8,202	\$ 3,8	335	\$ 665,696
Total		\$	13,729	\$ 685,1	95 \$	380,035	\$	12,798	\$ 5,8	363	\$ 1,097,620
% of Annual Total \$											
Summer			34%	4	1%	37%		36%	3	35%	39%
Winter			66%	5	9%	63%		64%	(65%	61%
Customer & Bulk System Costs											
Customer Costs Per Allocation M											
Grand Total Cost in \$1000 =	\$ 1,220,476	_									
Seasonal Units		R	T{1}	RS{2}		GS{3}		GST {4}	OL/SL		Total
Summer			74,070	4,216,7		2,219,732		78,272		895	6,631,683
Winter			150,911	5,927,3	548	3,903,400		151,292	85,	786	10,218,737
Supplier Payment in \$1000	Seasonal	Price per									
Post Transition Year 18 Bid price			72.430	<u>Units</u>		<u>Payment</u>					
Seasonally Adjusted Summer Payr			72.430	6,631,6							
Seasonally Adjusted Winter Payme	ent 1.0000		72.430	10,218,							
Total Supplier Payment					\$	1,220,476					
Adjustment Factor Calculation				Seasonal Supplier		Adjustment Factor	А	djustment			
Allocated Customer Costs on a per	MWh basis (on bulk system MWI	ns):		<u>Payment</u>		Calculation		<u>Factor</u>			
Summer	\$ 72.43 per MWh @ bu	ılk system		72	.43	1.0000		1.333260			
Winter	\$ 72.43 per MWh @ bu	ılk system		72	.43	1.0000		0.976524			
0 " 0 " 0	474.00										
Generation Capacity Cost =											
Transmission cost -	\$ 171.00 per MW day W Transmission charges retail tariff				- 4- h.						
Analysis time period =	4 summer month		trie applicab	ie rate scriedule	S IO DE	e excluded					
Analysis time period =	8 winter months	15									
Ancillary Services =											
	Based on Forwards prices @ PJ	M West co	orrected for I	nub-zone basis o	liffere	ntial (both based or	n the t	figures used to	derive the		
	Bid Factors and establish retail r	ates in Po	st Transition	Year 18 and a	djuste	d to match the total	I cost	at the actual s	upplier bid pri	ce.	
Usage patterns =	forecasted 2021 energy use by o	lass base	d upon PJM	on/off % from 2	018 th	rough 2020 class le	oad p	rofiles			
	JCP&L billing on/off % from 202	21 forecas	ted billing de	eterminants							
	class totals for 2021 excluding a			re service under	BGS-	-CIEP as of June 1,	, 2022	!			
	Consistent with Losses as appro	,									
PJM Time Periods =	PJM trading time periods - 7 AM holidays - New Year's, Memor										
JCP&L Billing time periods =	RT On-peak hours are 8 am to 8										
	GST On-peak hours are 8 am to		-			•					
NJ Sales and Use Tax (SUT) =	The Holidays identified by PJM a SUT excluded from all costs	are not exc	cluded from	tne RT or GST E	silling	On-Peak kWh.					

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Jersey Central Power & Light Attachment 2 2022 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 2018 through 2020 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	49.26%	51.71%	57.70%	55.37%	33.70%
February	47.00%	49.77%	56.66%	54.60%	30.82%
March	47.66%	50.31%	58.23%	53.75%	30.21%
April	50.07%	52.19%	59.84%	55.60%	31.45%
May	47.79%	49.49%	58.46%	55.47%	29.65%
June	52.17%	52.87%	57.71%	56.05%	29.33%
July	52.81%	52.68%	58.42%	56.00%	29.37%
August	53.61%	53.55%	58.67%	56.42%	30.19%
September	46.66%	47.66%	56.78%	54.03%	30.29%
October	49.91%	52.91%	60.49%	57.61%	34.64%
November	45.64%	48.42%	56.46%	53.26%	32.22%
December	46.16%	48.29%	55.37%	52.36%	32.63%

Table #2

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

	2021 Forecasted			2021 Forecasted	
	Calendar Month			Calendar Month	
	Sales	N/A	N/A	Sales	N/A
(data rounded to nearest .01 %)	RT{1}	RS{2}	GS{3}	GST	OL/SL
January	35.23%			41.96%	
February	34.75%			42.80%	
March	34.48%			42.74%	
April	35.09%			43.52%	
May	36.95%			44.42%	
June	39.81%			46.05%	
July	41.46%			45.92%	
August	41.87%			46.00%	
September	40.83%			46.35%	
October	37.07%			45.92%	
November	35.20%			44.43%	
December	35.21%			42.44%	

^{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.

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^{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

Table #3	Class Usage @ customer calendar month sales forecasted	for 2021							
	in MWh			RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
	January			22,142	816,952	461,911	16,347	9,591	1,326,943
	February			20,768	733,590	457,070	17,353	9,591	1,238,372
	March			19,458	694,392	446,967	16,155	9,591	1,186,563
	April			17,588	622,304	424,176	18,178	9,591	1,091,837
	May			13,518	575,300	403,525	17,667	9,591	1,019,601
	June			14,337	723,824	451,534	17,075	9,592	1,216,362
	July			17,436	1,009,661	508,986	18,215	9,592	1,563,890
	August			18,793	1,124,675	522,761	17,554	9,592	1,693,375
	September			15,686	913,501	502,169	17,167	9,592	1,458,115
	October			11,029	623,412	433,635	15,970	9,592	1,093,638
	November			12,570	551,904	408,518	15,357	9,592	997,941
	December			17,910	683,892	455,614	18,297	9,593	1,185,306
	Total			201,235	9,073,407	5,476,866	205,335	115,100	15,071,943
Table #4	Forwards Prices - Energy Only	@ hulk evetem				Table #5 Z	one-Hub Basis Dif	forontial	
Tubic II4	in \$/MWh	@ bank byotom					ased on 3 Year Av		
	III WINIVIII	Initial	Adjusted	Initial	Adjusted		asea on s Teal Av	erage	
		On-Peak	On-Peak	Off-Peak	Off-Peak		On-Peak	Off-Peak	
	January	44.35	43.942	35.019	34.697		92%	97%	
		41.80							
	February	41.80	41.415	33.005	32.701		92%	97%	
	February March	33.90	41.415 33.588	33.005 26.767	32.701 26.521		92% 92%	97% 97%	
	February March April	33.90 29.75	41.415 33.588 29.476	33.005 26.767 23.491	32.701 26.521 23.275		92% 92% 92%	97% 97% 97%	
	February March April May	33.90 29.75 30.25	41.415 33.588 29.476 29.972	33.005 26.767 23.491 23.885	32.701 26.521 23.275 23.665	Г	92% 92% 92% 92%	97% 97% 97% 97%	
	February March April May June	33.90 29.75 30.25 30.40	41.415 33.588 29.476 29.972 40.343	33.005 26.767 23.491 23.885 20.359	32.701 26.521 23.275 23.665 27.018	Γ	92% 92% 92% 92% 89%	97% 97% 97% 97% 89%	
	February March April May June July	33.90 29.75 30.25 30.40 36.55	41.415 33.588 29.476 29.972 40.343 48.504	33.005 26.767 23.491 23.885 20.359 24.478	32.701 26.521 23.275 23.665 27.018 32.484		92% 92% 92% 92% 92% 89% 89%	97% 97% 97% 97% 89% 89%	
	February March April May June July August	33.90 29.75 30.25 30.40 36.55 33.45	41.415 33.588 29.476 29.972 40.343 48.504 44.390	33.005 26.767 23.491 23.885 20.359 24.478 22.401	32.701 26.521 23.275 23.665 27.018 32.484 29.727		92% 92% 92% 92% 92% 89% 89%	97% 97% 97% 97% 89% 89% 89%	
	February March April May June July August September	33.90 29.75 30.25 30.40 36.55 33.45 31.70	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172		92% 92% 92% 92% 89% 89% 89%	97% 97% 97% 97% 89% 89% 89%	
	February March April May June July August September October	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229 23.806	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587		92% 92% 92% 92% 89% 89% 89% 99%	97% 97% 97% 97% 89% 89% 89% 97%	
	February March April May June July August September	33.90 29.75 30.25 30.40 36.55 33.45 31.70	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172		92% 92% 92% 92% 89% 89% 89%	97% 97% 97% 97% 89% 89% 89%	
Tahlo #6	February March April May June July August September October November December	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873 30.170	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229 23.806 24.043 25.701	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587 23.822 25.465	GS/33	92% 92% 92% 92% 89% 89% 89% 92% 92%	97% 97% 97% 97% 89% 89% 89% 89% 97% 97%	
Table #6	February March April May June July August September October November December	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873 30.170	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229 23.806 24.043 25.701	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587 23.822 25.465	GS(3)	92% 92% 92% 92% 92% 89% 89% 89% 89% 92% 92%	97% 97% 97% 97% 89% 89% 89% 97% 97%	
Table #6	February March April May June July August September October November December Losses Loss Factors =	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873 30.170	33.005 26,767 23.491 23.885 20.359 24.478 22.401 21.229 23.806 24.043 25.701 RT{1}	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587 23.822 25.465 RS{2}	10.5545%	92% 92% 92% 92% 92% 89% 89% 89% 89% 92% 92% 92%	97% 97% 97% 97% 97% 89% 89% 89% 97% 97% OL/SL	
Table #6	February March April May June July August September October November December	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873 30.170	33.005 26.767 23.491 23.885 20.359 24.478 22.401 21.229 23.806 24.043 25.701	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587 23.822 25.465		92% 92% 92% 92% 92% 89% 89% 89% 89% 92% 92%	97% 97% 97% 97% 89% 89% 89% 97% 97%	
Table #6	February March April May June July August September October November December Losses Loss Factors =	33.90 29.75 30.25 30.40 36.55 33.45 31.70 30.15 30.45 32.55	41.415 33.588 29.476 29.972 40.343 48.504 44.390 42.068 29.873 30.170	33.005 26,767 23.491 23.885 20.359 24.478 22.401 21.229 23.806 24.043 25.701 RT{1}	32.701 26.521 23.275 23.665 27.018 32.484 29.727 28.172 23.587 23.822 25.465 RS{2}	10.5545%	92% 92% 92% 92% 92% 89% 89% 89% 89% 92% 92% 92%	97% 97% 97% 97% 97% 89% 89% 89% 97% 97% OL/SL	

⁽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

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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		\$ 36.810	\$ 36.940	\$ 37.645	\$ 37.287	\$ 33.495
	PJM on pk	\$ 43.895	\$ 43.980	\$ 43.742	\$ 43.701	\$ 43.599
	PJM off pk	\$ 29.304	\$ 29.387	\$ 29.256	\$ 29.242	\$ 29.206
Winter - all hrs		\$ 32.668	\$ 32.471	\$ 32.527	\$ 32.139	\$ 30.835
	PJM on pk	\$ 35.797	\$ 35.427	\$ 34.949	\$ 34.769	\$ 34.834
	PJM off pk	\$ 29.785	\$ 29.464	\$ 29.198	\$ 28.960	\$ 28.961
Annual		\$ 34.031	\$ 34.329	\$ 34.382	\$ 33.894	\$ 31.722

System Total \$ 34.32

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

in \$1000

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		\$ 2,439	\$ 139,326	\$ 74,742	\$ 2,610	\$ 1,285	\$ 220,402
PJM on pk		\$ 1,496	\$ 85,857	\$ 50,293	\$ 1,702	\$ 498	\$ 139,847
PJM off pk		\$ 943	\$ 53,469	\$ 24,449	\$ 908	\$ 787	\$ 80,555
Winter - all hrs		\$ 4,410	\$ 172,154	\$ 113,564	\$ 4,349	\$ 2,366	\$ 296,842
PJM on pk		\$ 2,317	\$ 94,722	\$ 70,623	\$ 2,576	\$ 853	\$ 171,090
PJM off pk		\$ 2,093	\$ 77,432	\$ 42,941	\$ 1,774	\$ 1,513	\$ 125,753
Annual		\$ 6,848	\$ 311,480	\$ 188,306	\$ 6,960	\$ 3,651	\$ 517,245
System Total \$	517,245						

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Table #9	Summary of Average BGS En	ergy Only U	nit Costs @	customer - JC	P&L Time Perio	ds								
	based on Forwards prices corre in \$/MWh	cted for zone	e-hub differer	itial and losses	- JCP&L billing ti	те ре	riods							
	Π ΦΙΝΝΝΠ				RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	
	Summer - all hrs JCP&L On			\$	36.810 45.742	\$	36.940	\$	37.645	\$	37.287 45.201	\$	33.495	
	JCP&L Off	pk		\$	30.584					\$	30.524			
	Winter - all hrs JCP&L On	nk		\$ \$	32.668 35.506	\$	32.471	\$	32.527	\$ \$	32.139 35.519	\$	30.835	
	JCP&L Off			\$	31.116					\$	29.537			
	Annual Average System Average	\$	34.32	\$	34.031	\$	34.329	\$	34.382	\$	33.894	\$	31.722	
	,													
Table #10	Generation & Transmission O													DOO DOOD
	obligations - annual average for in MW	ecasted for a	2021, COSIS al	re market estim	RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	BGS-RSCP TOTAL
	Gen Obl - MW				49.8	3	3,258.7		1,418.5		31.6		1.0	4,759.6
	Trans Obl - MW	Not appli	cable for JCF	AL - Transmiss	sion rates are bas	sed or	Retail Tariff ra	ates f	or the respective	rate	e classes			
	# of Months and Days used in the	nis analysis												
	·			imer days = inter days =	122 243		#		ummer months = winter months =		4 8			
				·					total # months =		12			
	Transmission charges will be ba	sed on Reta	il Tariff rates	for the applicab	ole rate schedules	8								
	Generation Capacity cost	Summer	\$	Initial 164.89	Adjusted 163.373	\$/M\	V/day		Summer Total	\$	94,866,691			
	Constation Supporty Soci	Winter	\$	164.89	163.373		•		Winter Total	\$	188,955,786			
	Residential summer BGS + Trai		arge differen	tial					Annual Total	\$	283,822,477			
	por 2r o ana cammor sicolariy p	-		Rate	0/									
	Block 1 (0-600 kWh/		<u>rges</u>		<u>% usage</u> 53.06%									
	Block 2 (>600 kWh/ Differential (Excl. SU		0.8652 ¢/k\	Wh	46.94%	•								
Table #11	Ancillary Services	4		<u>Initial</u>	<u>Adjusted</u>		\n							
	Forecasted Ancillary Services C Renewable Portfolio Standard C			\$2.00 <u>\$15.39</u>		\$/M\ \$/M\								
	forecasted overall annual avera	ge		\$17.39	\$17.230	\$/M\	Vh							
Table #12	Summary of Obligation Costs	Expressed	as \$/MWh @) customer										
					RT{1}		RS{2}		GS{3}		GST {4}		OL/SL	
	Transmission Obl - all mont	ns		\$	-	\$	-	\$	-	\$	-	\$	-	
General	Generation Obl \$/MWh - all mont tion Obl \$/MWh - Summer - All Hou			\$ \$	14.762 14.987		21.417 17.221		15.444 14.240	\$	9.168	\$	0.522 0.523	
	bl \$/MWh - Summer - On-Peak Hou			\$	36.492	Ψ	11.221	Φ	14.240	\$	19.505	φ	0.323	
	ration Obl \$/MWh - Winter - All Hou Obl \$/MWh - Winter - On-Peak Hou			\$ \$	14.652 41.451	\$	24.402	\$	16.129	\$	21.288	\$	0.521	

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Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods

	RT{1}	RS{2}	GS{3}	GST {4}	OL/S	L
Summer - all hrs \$	71.06	\$ 73.42	\$ 71.15	:	\$	53.28
JCP&L On pk \$	101.50			\$ 83.97		
JCP&L Off pk \$	49.85			\$ 49.79		
Block 1 (0-600 kWh/m)		\$ 69.36				
Block 2 (>600 kWh/m)		\$ 78.01				
Winter - all hrs \$	66.58	\$ 76.14	\$ 67.92	:	\$	50.62
JCP&L On pk \$	96.22			\$ 76.07		
JCP&L Off pk \$	50.38			\$ 48.80		
Annual -all hrs \$	68.06	\$ 75.01	\$ 69.09	\$ 62.33	\$	51.51

DEMAND RATES

includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in $\mbox{\it S/MWh}$

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

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Table #14	Units @ Customer
I able #14	Office @ Custoffier

in	k١	٨	J	h	

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,446,237		1,985,450,000		38,368,000	
JCP&L On pk	26,206,974			32,259,110		
JCP&L Off pk	37,598,789			37,751,890		
Block 1 (0-600 kWh/m)		2,001,184,000				
Block 2 (>600 kWh/m)		1,770,477,000				
Winter - all hrs	5,877,031	5,301,746,000	3,491,416,000		76,732,000	
JCP&L On pk	45,630,734			58,871,465		
JCP&L Off pk	83,475,235			76,452,535		
						Total
Summer Total	66,252,000	3,771,661,000	1,985,450,000	70,011,000	38,368,000	5,931,742,000
Winter Total	134,983,000	5,301,746,000	3,491,416,000	135324000	76732000	9,140,201,000
Annual Total	201,235,000	9,073,407,000	5,476,866,000	205,335,000	115,100,000	15,071,943,000

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	\$ 174		\$ 141,260		\$ 2,044	
JCP&L On pk	\$ 2,660			\$ 2,709		
JCP&L Off pk	\$ 1,874			\$ 1,880		
Block 1 (0-600 kWh/m)		\$ 138,808				
Block 2 (>600 kWh/m)		\$ 138,124				
Winter - all hrs	\$ 391	\$ 403,653	\$ 237,133		\$ 3,884	
JCP&L On pk	\$ 4,391			\$ 4,478		
JCP&L Off pk	\$ 4,205			\$ 3,731		
Total Costs - in \$1000						
Summer	\$ 4,708	\$ 276,932	\$ 141,260	\$ 4,588	\$ 2,044 \$	429,533
Winter	\$ 8,987	\$ 403,653	\$ 237,133	\$ 8,209	\$ 3,884 \$	661,867
Total	\$ 13,695	\$ 680,585	\$ 378,394	\$ 12,798	\$ 5,928 \$	1,091,400
% of Annual Total \$						
Summer	34%	41%	37%	36%	34%	39%
Winter	66%	59%	63%	64%	66%	61%

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Adjustment

Table #16 Customer & Bulk System Costs

Customer Costs Per Allocation Matrix

Grand Total Cost in \$1000 = \$ 1,091,400

Seasonal Units	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer	74,070	4,216,714	2,219,732	78,272	42,895	6,631,683
Winter	150,911	5,927,348	3,903,400	151,292	85,786	10,218,737

Supplier Payment in \$1000	Seasonal	Price per MWH		
Post Transition Year 19 Bid price	<u>Factor</u>	64.770	<u>Units</u>	Payment
Seasonally Adjusted Summer Payment	1.0000	64.770	6,631,683	\$ 429,534
Seasonally Adjusted Winter Payment	1.0000	64.770	10,218,737	\$ 661,868
Total Supplier Payment				\$ 1.091.402

Table #17 Adjustment Factor Calculation

			Supplier	Factor	Adjustment
Allocated Customer Costs on	a per MWh I	pasis (on bulk system MWhs):	Payment	Calculation	Factor
Summer	\$	64.77 per MWh @ bulk system	64.77	1.0000	1.327060
Winter	\$	64.77 per MWh @ bulk system	64.77	1.0000	0.990800

Assumptions:

Generation Capacity Cost = \$ 163.37 per MW day Summer \$ 163.37 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 = \$ 17.23 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.

Seasonal

Usage patterns = forecasted 2021 energy use by class based upon PJM on/off % from 2018 through 2020 class load profiles

JCP&L billing on/off % from 2021 forecasted billing determinants

Obligations = class totals for 2021 excluding accounts required to take service under BGS-CIEP as of June 1, 2022

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

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2022 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 2018 through 2020 Load Profile Information % Usage During PJM On-Peak Period On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays Profile Meter Profile Meter Data Profile Meter Data Profile Meter Data Other Analysis Data (data rounded to nearest .01 %) RT{1} GST OL/SL RS{2} GS{3} January 49.26% 55.37% 33.70% 51.71% 57.70% 47.00% 56.66% 54.60% 30.82% February 49.77% 47.66% 58.23% 53.75% 30.21% March 50.31% 50.07% 52.19% 59.84% 55.60% 31.45% April Mav 47.79% 49.49% 58.46% 55.47% 29.65% June 52.17% 52.87% 57.71% 56.05% 29.33% July 52.81% 52.68% 58.42% 56.00% 29.379 August 53.61% 53.55% 58.67% 56.42% 30.19% September 46.66% 47.66% 56.78% 54.03% 30.29% 49.91% 52.91% 34.64% October 60.49% 57.61% November 45.64% 48.42% 56.46% 53.26% 32.22%

46.16%

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

December

Table #1

On-Peak periods as defined in specified rate schedule

55.37%

52.36%

32.63%

48.29%

	2021				
	Forecasted				
	Calendar Month			Calendar Month	
	Sales	N/A	N/A	Sales	N/A
(data rounded to nearest .01 %)	RT{1}	RS{2}	GS{3}	GST	OL/SL
January	35.23%			41.96%	
February	34.75%			42.80%	
March	34.48%			42.74%	
April	35.09%			43.52%	
May	36.95%			44.42%	
June	39.81%			46.05%	
July	41.46%			45.92%	
August	41.87%			46.00%	
September	40.83%			46.35%	
October	37.07%			45.92%	
November	35.20%			44.43%	
December	35.21%			42.44%	

^{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.

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^{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

551,904

683,892

9,073,407

1.10901

408,518

455,614

1.10901

5,476,866

9,592

9,593

115,100

1.10901

15,357

18,297

205,335

1.10901

997,941

1,185,306

15,071,943

Table #3	Class Usage @ customer calendar month sales forecasted for 2021						
	in MWh	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
	January	22,142	816,952	461,911	16,347	9,591	1,326,943
	February	20,768	733,590	457,070	17,353	9,591	1,238,372
	March	19,458	694,392	446,967	16,155	9,591	1,186,563
	April	17,588	622,304	424,176	18,178	9,591	1,091,837
	May	13,518	575,300	403,525	17,667	9,591	1,019,601
	June	14,337	723,824	451,534	17,075	9,592	1,216,362
	July	17,436	1,009,661	508,986	18,215	9,592	1,563,890
	August	18,793	1,124,675	522,761	17,554	9,592	1,693,375
	September	15,686	913,501	502,169	17,167	9,592	1,458,115
	October	11,029	623,412	433,635	15,970	9,592	1,093,638

12,570

17,910

201,235

Table #4 Forwards Prices - Energy Only @ bulk system Zone-Hub Basis Differential Table #5 in \$/MWh Based on 3 Year Average

				_	aseu on a rear Av	rciugo
	Off/On Pk					
On-Peak	LMP ratio	Off-Peak			On-Peak	Off-Peak
71.45	0.7717	55.135			88%	92%
66.60	0.7717	51.392			88%	92%
48.45	0.7717	37.387			88%	92%
40.20	0.7717	31.021			88%	92%
40.20	0.7717	31.021			88%	92%
47.00	0.6684	31.413			88%	89%
55.40	0.6684	37.027			88%	89%
51.75	0.6684	34.588			88%	89%
47.50	0.6684	31.747			88%	89%
45.45	0.7717	35.072			88%	92%
46.65	0.7717	35.998			88%	92%
50.25	0.7717	38.776			88%	92%
		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
		10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
		1.11800	1.11800	1.11800	1.11800	1.11800
e =		9.8296%	9.8296%	9.8296%	9.8296%	9.8296%
	71.45 66.60 48.45 40.20 47.00 55.40 51.75 47.50 45.45 46.65 50.25	On-Peak LMP ratio 71.45 0.7717 66.60 0.7717 48.45 0.7717 40.20 0.7717 47.00 0.6684 55.40 0.6684 47.50 0.6684 45.45 0.7717 46.65 0.7717 50.25 0.7717	On-Peak LMP ratio Off-Peak 71.45 0.7717 55.135 66.60 0.7717 51.392 48.45 0.7717 37.387 40.20 0.7717 31.021 47.00 0.6684 31.413 55.40 0.6684 37.027 51.75 0.6684 34.588 47.50 0.6684 31.747 45.45 0.7717 35.072 46.65 0.7717 35.998 50.25 0.7717 38.776 RT{1} 10.5545% 1.11800	On-Peak LMP ratio Off-Peak 71.45 0.7717 55.135 66.60 0.7717 51.392 48.45 0.7717 37.387 40.20 0.7717 31.021 47.00 0.6684 31.413 55.40 0.6684 34.588 47.50 0.6684 34.588 47.50 0.6684 31.747 45.45 0.7717 35.072 46.65 0.7717 35.998 50.25 0.7717 38.776 RT{1} RS{2} 10.5545% 1.11800 1.11800	On-Peak LMP ratio Off-Peak 71.45 0.7717 55.135 66.60 0.7717 51.392 48.45 0.7717 37.387 40.20 0.7717 31.021 47.00 0.6684 31.413 55.40 0.6684 37.027 51.75 0.6684 34.588 47.50 0.6684 31.747 45.45 0.7717 35.072 46.65 0.7717 35.972 46.65 0.7717 35.978 50.25 RT{1} RS{2} GS{3} RT{1} RS{2} GS{3}	On-Peak LMP ratio Off-Peak On-Peak 71.45 0.7717 55.135 88% 66.60 0.7717 51.392 88% 48.45 0.7717 37.387 88% 40.20 0.7717 31.021 88% 40.20 0.7717 31.021 88% 47.00 0.6684 31.413 88% 55.40 0.6684 37.027 88% 51.75 0.6684 34.588 88% 47.50 0.6684 31.747 88% 45.45 0.7717 35.072 88% 46.65 0.7717 35.998 88% 50.25 0.7717 38.776 88% RT{1} RS{2} GS{3} GST {4}

1.10901

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November

December

Table #6

Total

Expansion Factors @ Transmission Node =

^{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

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			\$	42.121	\$ 42.260	\$	43.050	\$ 42.649	\$ 38.338
	PJM on pk		\$	50.200	\$ 50.284	\$	49.985	\$ 49.949	\$ 49.824
	PJM off pk		\$	33.561	\$ 33.651	\$	33.508	\$ 33.494	\$ 33.463
Winter - all hrs			\$	47.021	\$ 46.731	\$	46.753	\$ 45.999	\$ 43.899
	PJM on pk		\$	52.213	\$ 51.642	\$	50.741	\$ 50.333	\$ 50.601
	PJM off pk		\$	42.239	\$ 41.734	\$	41.273	\$ 40.758	\$ 40.757
Annual			\$	45.408	\$ 44.872	\$	45.410	\$ 44.857	\$ 42.045
System Total		\$ 45.05							

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			\$ 2,791	\$ 159,391	\$ 85,473	\$ 2,986	\$ 1,471	\$ 252,112
PJM on pk	(\$ 1,711	\$ 98,165	\$ 57,471	\$ 1,946	\$ 570	\$ 159,862
PJM off pk	(\$ 1,080	\$ 61,227	\$ 28,002	\$ 1,040	\$ 901	\$ 92,250
Winter - all hrs			\$ 6,347	\$ 247,754	\$ 163,233	\$ 6,225	\$ 3,368	\$ 426,928
PJM on pk	(\$ 3,379	\$ 138,078	\$ 102,533	\$ 3,728	\$ 1,239	\$ 248,958
PJM off pk	(\$ 2,968	\$ 109,677	\$ 60,700	\$ 2,496	\$ 2,129	\$ 177,970
Annual			\$ 9,138	\$ 407,146	\$ 248,707	\$ 9,211	\$ 4,839	\$ 679,040
System Total	\$	679,040						

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Jersey Central Power & Light

Attachment 2

Table #9	Summary of Average BGS Energy Only Unit Costs @ customer - JCP&L Time Periods
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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		\$ 42.121	\$ 42.260	\$ 43.050	\$ 42.649	\$ 38.338
JCP&L On pk		\$ 52.307			\$ 51.655	
JCP&L Off pk		\$ 35.021			\$ 34.952	
Winter - all hrs		\$ 47.021	\$ 46.731	\$ 46.753	\$ 45.999	\$ 43.899
JCP&L On pk		\$ 55.890			\$ 51.569	
JCP&L Off pk		\$ 42.172			\$ 41.711	
Annual Average		\$ 45.408	\$ 44.872	\$ 45.410	\$ 44.857	\$ 42.045
System Average \$	45.05					

Table #10

Generation & Transmission Obligations and Costs and Other Adjustments

obligations - annual average forecasted for 2021; costs are market estimates
in MW RT{1} RS{2} GS{3} GST {4} OL/SL TOTAL

Gen Obl - MW 49.8 3,258.7 1,418.5 31.6 1.0

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 = 243 # of winter months = 8
total # months = 12

4,759.6

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

 Generation Capacity cost
 Summer
 \$ 97.75
 \$/MW/day
 Summer Total
 \$ 56,761,025

 Winter
 \$ 97.75
 \$/MW/day
 Winter Total
 \$ 113,056,797

 Annual Total
 Annual Total
 \$ 169,817,822

Residential summer BGS + Transmission charge differential

per BPU and summer blocking percentages

----- Rate -----

 Charges
 % usage

 Block 1 (0-600 kWh/m)
 53.06%

 Block 2 (>600 kWh/m)
 46.94%

 Differential (Excl. SUT)
 0.8652 ¢/kWh

Table #11 Ancillary Services

Forecasted Ancillary Services Cost \$2.00 \$/MWh
Renewable Portfolio Standard Cost \$16.09 \$/MWh
Total Forecasted Ancillary Services & Renewable Power Costs \$18.09 \$/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	\$ 8.833	\$ 12.814	\$ 9.241	\$ 5.485	\$ 0.312
Generation Obl \$/MWh - Summer - All Hours	\$ 8.967	\$ 10.304	\$ 8.520		\$ 0.313
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 21.834			\$ 11.670	
Generation Obl \$/MWh - Winter - All Hours	\$ 8.767	\$ 14.600	\$ 9.650		\$ 0.312
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 24.801			\$ 12.737	

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Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL	L/SL
Summer - all hrs	\$ 71.31	\$ 72.79	\$ 71.79		\$	58.88
JCP&L On pk	\$ 94.37			\$ 83.55		
JCP&L Off pk	\$ 55.25			\$ 55.18		
Block 1 (0-600 kWh/m)		\$ 68.73				
Block 2 (>600 kWh/m)		\$ 77.38				
Winter - all hrs	\$ 76.01	\$ 81.56	\$ 76.63		\$	64.44
JCP&L On pk	\$ 100.92			\$ 84.53		
JCP&L Off pk	\$ 62.40			\$ 61.94		
Annual -all hrs	\$ 74.47	\$ 77.91	\$ 74.88	\$ 70.57	\$	62.58

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

BGS PTY20 Cost Alloc Page 19 of 29

Table #14	Units @ Customer
	in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,446,237		1,985,450,000		38,368,000	
JCP&L On pk	26,206,974			32,259,110		
JCP&L Off pk	37,598,789			37,751,890		
Block 1 (0-600 kWh/m)		2,001,184,000				
Block 2 (>600 kWh/m)		1,770,477,000				
Winter - all hrs	5,877,031	5,301,746,000	3,491,416,000		76,732,000	
JCP&L On pk	45,630,734			58,871,465		
JCP&L Off pk	83,475,235			76,452,535		
						Total
Summer Total	66,252,000	3,771,661,000	1,985,450,000	70,011,000	38,368,000	5,931,742,000
Winter Total	<u>134,983,000</u>	5,301,746,000	3491416000	135324000	76732000	9,140,201,000
Annual Total	201,235,000	9,073,407,000	5,476,866,000	205,335,000	115,100,000	15,071,943,000

Table #15 Summary of Total Estimated BGS Costs by Season

	RT{1}	R	RS{2}	GS{3}	GST {4}	OL/SL	Total	
Total Costs by Rate - in \$1000								
Summer - all hrs	\$ 174			\$ 142,545		\$ 2,259		
JCP&L On pk	\$ 2,473				\$ 2,695			
JCP&L Off pk	\$ 2,077				\$ 2,083			
Block 1 (0-600 kWh/m)		\$	137,536					
Block 2 (>600 kWh/m)		\$	136,998					
Winter - all hrs	\$ 447	\$	432,386	\$ 267,540		\$ 4,944		
JCP&L On pk	\$ 4,605				\$ 4,976			
JCP&L Off pk	\$ 5,209				\$ 4,735			
Total Costs - in \$1000								
Summer	\$ 4,725	\$	274,534	\$ 142,545	\$ 4,778	\$ 2,259	428,84	40
Winter	\$ 10,260	\$	432,386	\$ 267,540	\$ 9,712	\$ 4,944	724,84	41
Total	\$ 14,985	\$	706,920	\$ 410,084	\$ 14,490	\$ 7,203	1,153,68	32
% of Annual Total \$								
Summer	32%		39%	35%	33%	31%	37	7%
Winter	68%		61%	65%	67%	69%	63	3%

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Table #16 & Table #17

Not Applicable to 2022/2023 BGS Supply Period

Table #18 Bulk System Costs

ALL RATES

Grand Total Cost in \$1000 = \$ 1,153,682

All-in Average costs @ bulk system = \$ 68.47 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):

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

 Summer
 \$
 64.67
 per MWh @ bulk system
 Summer
 0.9445

 Winter
 \$
 70.93
 per MWh @ bulk system
 Winter
 1.0360

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

Summer 1.0000
Assumptions: Winter 1.0000

Generation Capacity Cost = \$ 97.75 per MW day Summer \$ 97.75 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 = \$ 18.09 per MWh

Energy Costs = based on 6/22 to 5/23 Forwards @ PJM West corrected for hub-zone basis differential

Usage patterns = forecasted 2021 energy use by class based upon PJM on/off % from 2018 through 2020 class load profiles

JCP&L billing on/off % from 2021 forecasted billing determinants

Obligations = class totals for 2021 excluding accounts required to take service under BGS-CIEP as of June 1, 2022

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

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Jersey Central Power & Light Attachment 2 2022 BGS Auction Cost and Bid Factor Tables

BGS-RSCP Composite Cost Allocation

Table #C1	Post Transition Year 18 Costs w/o Transmission in \$1,000's	Size of	Tranches =		<u>15</u>								
	Total Costs by Rate - in \$1000		RT{1}		RS{2}		GS{3}		GST {4}		OL/SL		
	Summer - all hrs	\$	175		- ()	\$	142,011			\$	2,029		
	JCP&L On pk	\$	2,703				,-	\$	2,738	·	,		
	JCP&L Off pk	\$	1,853					\$	1,858				
	Block 1 (0-600 kWh/m)	Ÿ	1,000	\$	139,671			Ψ	1,000				
	Block 2 (>600 kWh/m)			\$	138,887								
	Block 2 (* 000 kWil/iii)			Ψ	130,007								
	Winter - all hrs	\$	392	\$	406,636	\$	238,024			\$	3,835		
	JCP&L On pk	\$	4,472	Ψ.	100,000	•	200,02	\$	4,533	Ψ.	0,000		
	JCP&L Off pk	\$	4,136					\$	3,669				
	•	Ψ	4,100					Ψ	3,003				
	Total Costs - in \$1000												
	Summer	\$	4,730		278,559		142,011		4,596		2,029		431,924
	Winter	\$	8,999		406,636		238,024		8,202		3,835		665,696
	Total	\$	13,729	\$	685,195	\$	380,035	\$	12,798	\$	5,863	\$	1,097,620
Table #C2	Post Transition Year 19 Costs w/o Transmission	Size of	Tranches =		<u>20</u>								
	in \$1,000's				_								
	Total Costs by Rate - in \$1000		RT{1}		RS{2}		GS{3}		GST {4}		OL/SL		
	Summer - all hrs	\$	174		- ()	\$	141,260			\$	2,044		
	JCP&L On pk	\$	2,660			•	,	\$	2,709		,-		
	JCP&L Off pk	\$	1,874					\$	1,880				
	Block 1 (0-600 kWh/m)	•	.,	\$	138,808			-	1,000				
	Block 2 (>600 kWh/m)			\$	138,124								
				*									
	Winter - all hrs	\$	391	\$	403,653	\$	237,133			\$	3,884		
	JCP&L On pk	\$	4,391	Ψ.	100,000	•	201,100	\$	4,478	Ψ.	0,00.		
	JCP&L Off pk	\$	4,205					\$	3,731				
	001 a2 011 pix	Ť	.,200					Ψ.	0,.0.				
	Total Costs - in \$1000												
	Summer	\$	4,708	\$	276,932	\$	141,260	\$	4,588	\$	2,044	\$	429,533
	Winter	\$	8,987		403,653		237,133		8,209		3,884		661,867
	Total	\$	13,695		680,585		378,394		12,798		5,928		1,091,400
												.55	

^{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 th 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.

Composite Cost Allocation Page 22 of 29

^{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

Table #C3	Post Transition Year 20 Costs w/o Transmission in \$1,000's	Size o	f Tranches =	<u>18</u>					
	Total Costs by Rate - in \$1000 Summer - all hrs	\$	RT{1} 174	RS{2}	\$ GS{3} 142,545		GST {4}	\$ OL/SL 2,259	
	JCP&L On pk JCP&L Off pk Block 1 (0-600 kWh/m)	\$ \$	2,473 2,077	\$ 137,536		\$ \$	2,695 2,083		
	Block 2 (>600 kWh/m)			\$ 136,998					
	Winter - all hrs JCP&L On pk JCP&L Off pk	\$ \$ \$	447 4,605 5,209	\$ 432,386	\$ 267,540	\$	4,976 4,735	\$ 4,944	
	Total Costs - in \$1000								
	Summer Winter Total	\$ \$ \$	4,725 10,260 14,985	\$ 274,534 432,386 706,920	\$ 142,545 267,540 410,084	\$	4,778 9,712 14,490	\$ 2,259 4,944 7,203	\$ 428,840 724,841 1,153,682
Table #C4	Composite (Tranche Weighted) Costs w/o Transmiss in \$1,000's	sion							
	Total Costs by Rate - in \$1000		RT{1}	RS{2}	GS{3}		GST {4}	OL/SL	
	Summer - all hrs JCP&L On pk JCP&L Off pk Block 1 (0-600 kWh/m)	\$ \$ \$	174 2,609 1,937	\$ 138,620	\$ 141,909	\$	2,712 1,943	\$ 2,113	
	Block 2 (>600 kWh/m)			\$ 137,958					
	Winter - all hrs JCP&L On pk JCP&L Off pk	\$ \$ \$	410 4,486 4,526	\$ 414,256	\$ 247,712	\$	4,663 4,055	\$ 4,230	
	Total Costs - in \$1000 Summer Winter	\$ \$	4,720 9,423	276,578 414,256	141,909 247,712		4,655 8,717	2,113 4,230	429,974 684,338
	Total	\$	14,143	690,834	389,621		13,372	6,343	1,114,313

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Table #C5 Un

Units @ Customer Forecasted 2021 kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,446,237		1,985,450,000		38,368,000	
JCP&L On pk	26,206,974			32,259,110		
JCP&L Off pk	37,598,789			37,751,890		
Block 1 (0-600 kWh/m)		2,001,184,000				
Block 2 (>600 kWh/m)		1,770,477,000				
Winter - all hrs	5,877,031	5,301,746,000	3,491,416,000		76,732,000	
JCP&L On pk	45,630,734			58,871,465		
JCP&L Off pk	83,475,235			76,452,535		
·						Total
Summer Total	66,252,000	3,771,661,000	1,985,450,000	70,011,000	38,368,000	5,931,742,000
Winter Total	<u>134,983,000</u>	5,301,746,000	3,491,416,000	135,324,000	76,732,000	9,140,201,000
Annual Total	201,235,000	9,073,407,000	5,476,866,000	205,335,000	115,100,000	15,071,943,000

Table #C6 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 71.24		\$ 70.95		\$ 55.07
JCP&L On pk	\$ 98.78			\$ 84.08	
JCP&L Off pk	\$ 51.13			\$ 51.46	
Block 1 (0-600 kWh/m)		\$ 68.73			
Block 2 (>600 kWh/m)		\$ 77.32			
Winter - all hrs	\$ 69.81	\$ 77.53	\$ 70.43		\$ 55.13
JCP&L On pk	\$ 97.57			\$ 79.20	
JCP&L Off pk	\$ 53.81			\$ 53.03	
Annual -all hrs	\$ 69.74	\$ 75.55	\$ 70.62	\$ 65.12	\$ 55.11

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 = \$ 1,114,313

All-In Average costs @ bulk system = \$ 66.13 per MWh at bulk system (per bulk system metered MWh)

All-In Average costs @ transmission nodes = \$ 66.67 per MWh at transmission nodes (per transmission nodes metered MWh)

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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		1.069	1.091	1.064		0.826
	JCP&L On pk	1.482			1.261	
	JCP&L Off pk	0.767			0.772	
	Constant for Block 1 (0-600 kWh	/m) usage (Excl. SUT)	(4.061)			
	Constant for Block 2 (>600 kWh	, , ,	4.591			
Winter - all hrs		1.047	1.163	1.056		0.827
	JCP&L On pk	1.464			1.188	
	JCP&L Off pk	0.807			0.796	
Annual - all hrs		1.046	1.133	1.059	0.977	0.827

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

Composite Cost Allocation Page 25 of 29

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 - 2022/2023 Delivery Year

2022/2023

	Delivery Year	Notes:
1 Zonal Capacity Price (\$/MW-day) - JCPL	\$97.75	BRA @ June 2021 illustratively, will be updated with Final PJM RPM or its
Zone		successor or otherwise
2 Capacity Proxy Price (\$/MW-day)	\$152.06	BPU Order Docket No. ER19040428 dated Nov. 13, 2019 and Docket No. ER20030190 dated Nov. 18, 2020
3 Capacity Proxy Price True-Up - \$/MW-day	-\$54.31	Line 1 - Line2
4 Total BGS-RSCP Gen Obl - MW	4,759.6	Table #10 of the 2022 BGS Auction Cost and Bid Factor Tables
5 Days in BGS Delivery Year	365	_
6 Capacity Proxy Price True-Up Annual Cost	-\$94,350,956	= line 3 * line 4 * line 5
7 Eligible Tranches	35	
8 Total Tranches	53	
9 % of tranches eligible for Payment	66.0%	= line 7/ line 8
10 Capacity Proxy Price True-Up Cost	-\$62,307,235	= line 6 * line 9
11 Total Applicable Customer Usage	16,714,951	Table #14 * Table #6 from 2022 BGS Auction Cost and Bid Factor Tables
@ transmission nodes - in MWh		
12 Eligible customer Usage	11,038,175	= line 9 * line 11
@ transmission nodes - in MWh		
13 Capacity Proxy Price True-Up - \$/MWh	-\$5.64	= 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, 2022 through May 31, 2023

	BGS Post Transition Year 18	BGS Post Transition Year 19	BGS Post Transition Year 20	Total BGS-RSCP Cost
	2020 Auction	2021 Auction	2022 Auction	
	1 Year Term	2 Year Term		
	Remaining	Remaining	3 Year Term	
Final Auction Price - in \$/MWh Capacity Proxy Price True-Up - in \$/MWh	\$72.43 (\$5.64)	\$64.77 (\$5.64)	\$59.13	
JCPL Transmission Cost - in \$/MWh (1)	(\$7.43)	(\$0.0.7)		
<u></u>	\$59.36	\$59.13	\$59.13	
Total # of Tranches Size of Tranches Total # of Tranches Seasonal Factors	15 53	20 53	18 53	
Summer	1.0000	1.0000	1.0000	
Winter Applicable Customer Usage @ transmission node	1.0000	1.0000	1.0000	
Summer MWh	6,578,367	6,578,367	6,578,367	6,578,367
Winter MWh	10,136,584	10,136,584	10.136.584	10,136,584
All-in BGS-RSCP Cost Summer Winter Total	\$110,516,566 <u>\$170,294,611</u> \$280,811,177	\$146,784,468 \$226,179,703 \$372,964,171	\$132,106,021 \$203,561,732 \$335,667,754	\$389,407,055 \$600,036,046 \$989,443,101
Composite Bid Price				\$59.20

\$59.20 L/(H+I), Rounded to 2 de

Attachment 3 - 22-23 Page 26 of 29

⁽¹⁾ Attachment 4 - Development of Transmission Cost included in 2020 Auctions.

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 - 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	\$155.00	\$155.00	* Illustrative Only, as may be determined by the RPM or its successor or otherwise
2 Capacity Proxy Price (\$/MW-day)	<u>\$146.51</u>	<u>\$118.12</u>	BGS Order Docket No. ER20030190 dated Nov. 18, 2020 and Docket No. ER21030631dated Nov. 17, 2021
3 Capacity Proxy Price True-Up - \$/MW-day	\$8.49	\$36.88	Line 1 - Line2
4 Total BGS-RSCP Gen Obl - MW	4,759.6	4,759.6	Table #10 of the 2022 BGS Auction Cost and Bid Factor Tables
5 Days in BGS Delivery Year	366	366	
6 Capacity Proxy Price True-Up Annual Cost 7 Eligible Tranches 8 Total Tranches	\$14,789,804 15 53	\$64,245,932 15 53	= line 3 * line 4 * line 5
9 % of tranches eligible for Payment	28.3%	28.3%	= line 7/ line 8
10 Capacity Proxy Price True-Up Cost	\$4,185,794	\$18,182,811	= line 6 * line 9
11 Total Applicable Customer Usage @ transmission nodes - in MWh	16,714,951	16,714,951	Table #14 * Table #6 from 2022 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12 Eligible customer Usage @ transmission nodes - in MWh	4,730,647	4,730,647	= line 9 * line 11
13 Capacity Proxy Price True-Up - \$/MWh	\$0.88	\$3.84	= 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

\$66.41 L/(H+I), Rounded to 2 decima

	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	2 Year Term		
	Remaining	Remaining	3 Year Term	
Final Auction Price - in \$/MWh	\$64.77	\$64.77	\$64.77	
Capacity Proxy Price True-Up - in \$/MWh	<u>\$0.88</u>	<u>\$3.84</u>		
	\$65.65	\$68.61	\$64.77	
Total # of Tranches Size of Tranches Total # of Tranches	20 53	18 53	15 53	
Seasonal Factors				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
Applicable Customer Usage @ transmission node				
Summer MWh	6,578,367	6,578,367		6,578,367
Winter MWh	10,136,584	10,136,584	10,136,584	10,136,584
All-in BGS-RSCP Cost				
Summer	\$162,969,733	\$153,285,881		\$436,844,528
<u>Winter</u>	\$251,119,524	\$236,197,708	\$185,815,060	\$673,132,292
Total	\$414,089,258	\$389,483,588	\$306,403,974	\$1,109,976,821

Composite Bid Price

Attachment 3 - 23-24 Page 27 of 29

^{**:} If PJM holds an auction under the Reliability Pricing Model ("RPM") or its successor or otherwise at least 20 business days prior to the BGS-RSCP Auction, then capacity proxy price for delivery year 2023/2024 is void.

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 - 2024/2025 Delivery Year - Illustrative Only

2024/2025 *

	Delivery Year	Notes:
1 Zonal Capacity Price (\$/MW-day) - JCPL Zone	\$155.00	Illustrative Only
2 Capacity Proxy Price (\$/MW-day)	<u>\$87.98</u>	BGS Order Docket No. ER21030631 dated Nov. 17, 2021
3 Capacity Proxy Price True-Up - \$/MW-day	\$67.02	Line 1 - Line2
4 Total BGS-RSCP Gen Obl - MW	4,759.6	Table #10 of the 2022 BGS Auction Cost and Bid Factor Tables
5 Days in BGS Delivery Year	365	
6 Capacity Proxy Price True-Up Annual Cost	\$116,431,616	= line 3 * line 4 * line 5
7 Eligible Tranches	20	
8 Total Tranches	53	
9 % of tranches eligible for Payment	37.7%	= line 7/ line 8
10 Capacity Proxy Price True-Up Cost	\$43,936,459	= line 6 * line 9
11 Total Applicable Customer Usage @ transmission nodes - in MWh	16,714,951	Table #14 * Table #6 from 2022 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12 Eligible customer Usage @ transmission nodes - in MWh	6,307,529	= line 9 * line 11
13 Capacity Proxy Price True-Up - \$/MWh	\$6.97	= line 10 / line 12 (rounded to 2 decimal places)

Calculation of Composite BGS-RSCP Price

June 1, 2024 through May 31, 2025 - Illustrative Only

	BGS Post Transition Year 20 2022 Auction	BGS Post Transition Year 21 2023 Auction	BGS Post Transition Year 22 2024 Auction	Total BGS-RSCP Cost
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in \$/MWh Capacity Proxy Price True-Up - in \$/MWh Total # of Tranches Size of Tranches	\$59.13 <u>\$6.97</u> \$66.10	\$59.13 \$59.13	\$59.13 \$59.13	
Total # of Tranches	53	53	53	
<u>Seasonal Factors</u> Summer Winter	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	
Applicable Customer Usage @ transmission node Summer MWh Winter MWh	6,578,367 10,136,584	6,578,367 10,136,584	6,578,367 10,136,584	6,578,367 10,136,584
All-in BGS-RSCP Cost Summer Winter Total	\$147,678,133 <u>\$227,556,748</u> \$375,234,881	\$110,088,351 \$169,634,777 \$279,723,128	\$146,784,468 <u>\$226,179,703</u> \$372,964,171	\$623,371,228

Composite Bid Price \$61.50 L/(H+I), Rounded to 2 decimal

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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 20 business days prior to the BGS-RSCP Auction, then capacity proxy price for delivery year 2024/2025 is void.

Development of Assumed Transmission Cost in Bids During 2020 BGS Auction

BGS Post Transition Year 18 2020 Auction line # 15 53 Eligible Tranches **Total Tranches** 28.30% Tranche % BGS RSCP Eligible Transmission Obligations (MW) 4,918.0 Allocated Transmission Obligation (MW) 1,392 NITS Rate (\$/MW-yr) \$25,811.81 Payment (\$/yr) \$35,927,112 Total Usage @ Transmission Node (MWh) 17,082,933 Allocated Usage @ Transmission Node(MWh) 4,834,792 Transmission Price (\$/MWh) (Rounded to 2 decimals) \$7.43

Attachment 4 - Transmission Page 29 of 29