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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.¹ 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

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 along 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 pre-auction development work, developing and printing materials, developing and maintaining the BGS auction website, conducting information sessions for prospective bidders, as well as other consulting services provided by the Auction Manager
- oversight of the auction process on behalf of the Board, as performed by the Board’s consultant
- rent and maintenance of office space in New Jersey for the auction manager
- outside counsel legal costs associated with the prosecution and/or defense of BGS patent claims
- facility costs associated with viewing the annual auction in real time, which includes, but are not limited to, costs for physical space and equipment/media connections

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

- advertising
- court reporter fees

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

As noted above, one commonly-incurred cost has been the costs associated with the rent and maintenance of the office space in New Jersey for the Auction Manager to conduct the annual BGS Auction. Due to the restrictions and safeguards put in place for the COVID-19 pandemic, the February 2021 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. Additionally, as applicable to the SMA, the NGC Deferred Balance will be charged with any costs resulting from JCP&L's assumption of Unaccounted for Energy, Meter Corrections, and Inadvertent Energy. 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 828 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 2022/2023 delivery year and 2021 BGS Auctions was \$146.51 for 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 approved by the Board on November xx, 2021 and if the BRA for the 2023/2024 Delivery Year has not occurred at least twenty (20) 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, approved by the Board on November xx, 2021 and if the BRA for the

2024/2025 Delivery Year has not occurred 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 \$15.26 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

BPU No. 13 ELECTRIC - PART III

**XX Rev. Sheet No. 41
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.)

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

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

Issued:

Effective:

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

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

JERSEY CENTRAL POWER & LIGHT COMPANY

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)

Issued:

Effective:

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Docket No. dated**

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

**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**

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*

	<i>Profile Meter Data</i>	<i>Profile Meter Data</i>	<i>Profile Meter Data</i>	<i>Profile Meter Data</i>	<i>Other Analysis</i>
	RT{1}	RS{2}	GS{3}	GST	OL/SL
<i>(data rounded to nearest .01 %)</i>					
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

	<i>2021 Forecasted Calendar Month Sales</i>	<i>N/A</i>	<i>N/A</i>	<i>2021 Forecasted Calendar Month Sales</i>	<i>N/A</i>
	RT{1}	RS{2}	GS{3}	GST	OL/SL
<i>(data rounded to nearest .01 %)</i>					
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.

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

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

**Jersey Central Power & Light
Attachment 2**

Table #3 **Class Usage @ customer**
calendar month sales forecasted for 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 @ bulk system**
in \$/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	42.050	41.063	33.119	32.341
February	39.750	38.817	31.307	30.572
March	32.100	31.346	25.282	24.688
April	29.050	28.368	22.880	22.343
May	29.050	28.368	22.880	22.343
June	28.250	37.665	18.882	25.175
July	32.900	43.864	21.990	29.318
August	30.750	40.998	20.553	27.402
September	30.450	40.598	20.353	27.136
October	28.350	27.684	22.328	21.804
November	28.800	28.124	22.683	22.150
December	31.550	30.809	24.849	24.266

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

	On-Peak	Off-Peak
January	94%	96%
February	94%	96%
March	94%	96%
April	94%	96%
May	94%	96%
June	93%	90%
July	93%	90%
August	93%	90%
September	93%	90%
October	94%	96%
November	94%	96%
December	94%	96%

Table #6

Losses	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factor =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors from Transmission Nodes =	9.8633%	9.8633%	9.8633%	9.8633%	9.8633%
Expansion Factor to Transmission Nodes =	1.10943	1.10943	1.10943	1.10943	1.10943

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

**Jersey Central Power & Light
Attachment 2**

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		\$ 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	
System Total	\$	32.68					

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		\$ 2,337	\$ 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					

**Jersey Central Power & Light
Attachment 2**

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 35.267	\$ 35.393	\$ 36.183	\$ 35.804	\$ 31.889
JCP&L On pk	\$ 44.489			\$ 44.012	
JCP&L Off pk	\$ 28.840			\$ 28.789	
Winter - all hrs	\$ 30.897	\$ 30.720	\$ 30.854	\$ 30.477	\$ 28.990
JCP&L On pk	\$ 34.176			\$ 34.270	
JCP&L Off pk	\$ 29.104			\$ 27.556	
Annual Average	\$ 32.336	\$ 32.662	\$ 32.786	\$ 32.293	\$ 29.956
System Average	\$ 32.68				

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	BGS-RSCP TOTAL
Gen Obl - MW	49.8	3,258.7	1,418.5	31.6	1.0	4,759.6
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		
Transmission charges will be based on Retail Tariff rates for the applicable rate schedules						
Generation Capacity cost	Summer	\$ 175.11	170.999 \$/MW/day	Summer Total	\$ 99,294,922	
	Winter	\$ 175.11	170.999 \$/MW/day	Winter Total	\$ 197,775,951	
				Annual Total	\$ 297,070,873	

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

	Charges	Rate	% 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**

	Initial	Adjusted
Forecasted Ancillary Services Cost	\$2.00	
Renewable Portfolio Standard Cost	\$16.72	
forecasted overall annual average	\$18.72	18.281 \$/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	\$ 8.214	\$ 8.214	\$ 8.214	\$ 8.214	-
Generation Obl \$/MWh - all months	\$ 15.451	\$ 22.416	\$ 16.165	\$ 9.596	\$ 0.546
Generation Obl \$/MWh - Summer - All Hours	\$ 15.687	\$ 18.025	\$ 14.905	\$	\$ 0.548
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 38.195		\$	\$ 20.416	
Generation Obl \$/MWh - Winter - All Hours	\$ 15.336	\$ 25.541	\$ 16.882	\$	\$ 0.546
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 43.386		\$	\$ 22.282	

**Jersey Central Power & Light
Attachment 2**

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 in \$/MWh

	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 \$/MWh

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

**Jersey Central Power & Light
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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		
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>	<u>5,301,746,000</u>	<u>3,491,416,000</u>	<u>135,324,000</u>	<u>76,732,000</u>	<u>9,140,201,000</u>
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%

**Jersey Central Power & Light
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Table #15A Summary of Total Estimated BGS Costs by Season excluding Transmission

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Total Costs by Rate - in \$1000						
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)		\$ 139,671				
Block 2 (>600 kWh/m)		\$ 138,887				
Winter - all hrs	\$ 392	\$ 406,636	\$ 238,024		\$ 3,835	
JCP&L On pk	\$ 4,472			\$ 4,533		
JCP&L Off pk	\$ 4,136			\$ 3,669		
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
% of Annual Total \$						
Summer	34%	41%	37%	36%	35%	39%
Winter	66%	59%	63%	64%	65%	61%

Table #16 Customer & Bulk System Costs

Customer Costs Per Allocation Matrix

Grand Total Cost in \$1000 = \$ 1,220,476

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 Factor	Price per MWH	Units	Payment
Post Transition Year 18 Bid price		72.430		
Seasonally Adjusted Summer Payment	1.0000	72.430	6,631,683	\$ 480,333
Seasonally Adjusted Winter Payment	1.0000	72.430	10,218,737	\$ 740,143
Total Supplier Payment				\$ 1,220,476

Table #17 Adjustment Factor Calculation

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):	Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer	\$ 72.43 per MWh @ bulk system	72.43	1.0000
Winter	\$ 72.43 per MWh @ bulk system	72.43	0.976524

Assumptions:

- Generation Capacity Cost = \$ 171.00 per MW day Summer
- \$ 171.00 per MW day Winter
- Transmission cost = Transmission charges retail tariff rates for the applicable rate schedules to be excluded
- Analysis time period = 4 summer months
- 8 winter months
- Ancillary Services = \$ 18.28 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 18 and adjusted to match the total cost at the actual supplier bid price.
- 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

**Jersey Central Power & Light
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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*

	Profile Meter Data		Profile Meter Data		Other Analysis
	RT{1}	RS{2}	GS{3}	GST	OL/SL
<i>(data rounded to nearest .01 %)</i>					
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 Sales RT{1}	N/A RS{2}	N/A GS{3}	Calendar Month Sales GST	N/A OL/SL
<i>(data rounded to nearest .01 %)</i>					
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.

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

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

**Jersey Central Power & Light
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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 @ bulk system**
in \$/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	44.35	43.942	35.019	34.697
February	41.80	41.415	33.005	32.701
March	33.90	33.588	26.767	26.521
April	29.75	29.476	23.491	23.275
May	30.25	29.972	23.885	23.665
June	30.40	40.343	20.359	27.018
July	36.55	48.504	24.478	32.484
August	33.45	44.390	22.401	29.727
September	31.70	42.068	21.229	28.172
October	30.15	29.873	23.806	23.587
November	30.45	30.170	24.043	23.822
December	32.55	32.251	25.701	25.465

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

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

Table #6

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

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

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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					

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		\$ 2,439	\$ 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 Energy Only Unit Costs @ customer - JCP&L Time Periods**
based on Forwards prices corrected for zone-hub differential and losses - JCP&L billing time periods
in \$/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 36.810	\$ 36.940	\$ 37.645	\$ 37.287	\$ 33.495
JCP&L On pk	\$ 45.742			\$ 45.201	
JCP&L Off pk	\$ 30.584			\$ 30.524	
Winter - all hrs	\$ 32.668	\$ 32.471	\$ 32.527	\$ 32.139	\$ 30.835
JCP&L On pk	\$ 35.506			\$ 35.519	
JCP&L Off pk	\$ 31.116			\$ 29.537	
Annual Average	\$ 34.031	\$ 34.329	\$ 34.382	\$ 33.894	\$ 31.722
System Average	\$ 34.32				

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	BGS-RSCP TOTAL
Gen Obl - MW	49.8	3,258.7	1,418.5	31.6	1.0	4,759.6
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		
Transmission charges will be based on Retail Tariff rates for the applicable rate schedules						
Generation Capacity cost						
	Summer	\$ 164.89	163.373 \$/MW/day	Summer Total	\$ 94,866,691	
	Winter	\$ 164.89	163.373 \$/MW/day	Winter Total	\$ 188,955,786	
				Annual Total	\$ 283,822,477	

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

	Charges	Rate	% 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
Renewable Portfolio Standard Cost
forecasted overall annual average

	Initial	Adjusted
Forecasted Ancillary Services Cost	\$2.00	\$/MWh
Renewable Portfolio Standard Cost	\$15.39	\$/MWh
forecasted overall annual average	\$17.39	\$17.230 \$/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	\$ 14.762	\$ 21.417	\$ 15.444	\$ 9.168	\$ 0.522
Generation Obl \$/MWh - Summer - All Hours	\$ 14.987	\$ 17.221	\$ 14.240	\$ -	\$ 0.523
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 36.492			\$ 19.505	
Generation Obl \$/MWh - Winter - All Hours	\$ 14.652	\$ 24.402	\$ 16.129	\$ -	\$ 0.521
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 41.451			\$ 21.288	

**Jersey Central Power & Light
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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 in \$/MWh

		RT{1}		RS{2}		GS{3}		GST {4}		OL/SL
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 \$/MWh

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

**Jersey Central Power & Light
Attachment 2**

Table #14

**Units @ Customer
in kWh**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	2,446,237		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		
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>	<u>5,301,746,000</u>	<u>3,491,416,000</u>	<u>135,324,000</u>	<u>76,732,000</u>	<u>9,140,201,000</u>
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%

**Jersey Central Power & Light
Attachment 2**

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 Factor	Price per MWH	Units	Payment
Post Transition Year 19 Bid price		64.770		
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

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):	Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment 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.
- 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

Jersey Central Power & Light
Attachment 2
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

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

	Profile Meter			Other Analysis	
	Data	Profile Meter Data	Profile Meter Data	Data	
(data rounded to nearest .01 %)	RT{1}	RS{2}	GS{3}	GST	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	N/A	N/A	Calendar Month	N/A
(data rounded to nearest .01 %)	Sales	RS{2}	GS{3}	Sales	OL/SL
	RT{1}			GST	
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.
{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

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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 @ bulk system**
in \$/MWh

	On-Peak	Off/On Pk LMP ratio	Off-Peak
January	47.45	0.7621	36.162
February	44.75	0.7621	34.104
March	32.10	0.7621	24.463
April	29.10	0.7621	22.177
May	29.00	0.7621	22.101
June	30.95	0.6706	20.756
July	37.20	0.6706	24.948
August	34.70	0.6706	23.271
September	32.30	0.6706	21.662
October	30.50	0.7621	23.244
November	30.90	0.7621	23.549
December	34.50	0.7621	26.293

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

	On-Peak	Off-Peak
January	88%	92%
February	88%	92%
March	88%	92%
April	88%	92%
May	88%	92%
June	87%	90%
July	87%	90%
August	87%	90%
September	87%	90%
October	88%	92%
November	88%	92%
December	88%	92%

Table #6

Losses	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors @ Bulk =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factors @ Bulk =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors @ Transmission Node =	9.8296%	9.8296%	9.8296%	9.8296%	9.8296%
Expansion Factors @ Transmission Node =	1.10901	1.10901	1.10901	1.10901	1.10901

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

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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		\$ 28.165	\$ 28.270	\$ 28.749	\$ 28.484	\$ 25.761	
	PJM on pk	\$ 33.259	\$ 33.331	\$ 33.126	\$ 33.088	\$ 33.011	
	PJM off pk	\$ 22.769	\$ 22.840	\$ 22.726	\$ 22.711	\$ 22.684	
Winter - all hrs		\$ 31.539	\$ 31.354	\$ 31.440	\$ 30.986	\$ 29.410	
	PJM on pk	\$ 35.308	\$ 34.911	\$ 34.346	\$ 34.141	\$ 34.248	
	PJM off pk	\$ 28.067	\$ 27.734	\$ 27.447	\$ 27.169	\$ 27.143	
Annual		\$ 30.428	\$ 30.072	\$ 30.465	\$ 30.133	\$ 28.194	
System Total	\$ 30.21						

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		\$ 1,866	\$ 106,626	\$ 57,080	\$ 1,994	\$ 988	\$ 168,554
	PJM on pk	\$ 1,134	\$ 65,069	\$ 38,088	\$ 1,289	\$ 377	\$ 105,956
	PJM off pk	\$ 732	\$ 41,557	\$ 18,992	\$ 705	\$ 611	\$ 62,598
Winter - all hrs		\$ 4,257	\$ 166,230	\$ 109,771	\$ 4,193	\$ 2,257	\$ 286,708
	PJM on pk	\$ 2,285	\$ 93,344	\$ 69,404	\$ 2,529	\$ 839	\$ 168,401
	PJM off pk	\$ 1,972	\$ 72,886	\$ 40,367	\$ 1,664	\$ 1,418	\$ 118,307
Annual		\$ 6,123	\$ 272,856	\$ 166,851	\$ 6,187	\$ 3,245	\$ 455,262
System Total	\$ 455,262						

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 28.165	\$ 28.270	\$ 28.749	\$ 28.484	\$ 25.761
JCP&L On pk	\$ 34.587			\$ 34.164	
JCP&L Off pk	\$ 23.689			\$ 23.630	
Winter - all hrs	\$ 31.539	\$ 31.354	\$ 31.440	\$ 30.986	\$ 29.410
JCP&L On pk	\$ 37.904			\$ 35.042	
JCP&L Off pk	\$ 28.059			\$ 27.862	
Annual Average	\$ 30.428	\$ 30.072	\$ 30.465	\$ 30.133	\$ 28.194
System Average	\$ 30.21				

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	BGS-RSCP TOTAL
Gen Obl - MW	49.8	3,258.7	1,418.5	31.6	1.0	4,759.6
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		

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	\$ 169,817,822

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

	Charges	Rate	% 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 \$15.26 \$/MWh
Total Forecasted Ancillary Services & Renewable Power Costs \$17.26 \$/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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Attachment 2**

Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 56.43	\$ 57.87	\$ 56.57	\$	\$ 45.37
JCP&L On pk	\$ 75.72			\$ 65.13	
JCP&L Off pk	\$ 42.99			\$ 42.93	
Block 1 (0-600 kWh/m)		\$ 53.81			
Block 2 (>600 kWh/m)		\$ 62.46			
Winter - all hrs	\$ 59.60	\$ 65.25	\$ 60.39	\$	\$ 49.02
JCP&L On pk	\$ 82.00			\$ 67.08	
JCP&L Off pk	\$ 47.36			\$ 47.16	
Annual -all hrs	\$ 58.56	\$ 62.18	\$ 59.00	\$ 54.91	\$ 47.80

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

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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		
Summer Total	66,252,000	3,771,661,000	1,985,450,000	70,011,000		38,368,000
Winter Total	<u>134,983,000</u>	<u>5,301,746,000</u>	<u>3,491,416,000</u>	<u>135,324,000</u>		<u>76,732,000</u>
Annual Total	201,235,000	9,073,407,000	5,476,866,000	205,335,000		115,100,000
						Total
						5,931,742,000
						<u>9,140,201,000</u>
						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	\$ 138		\$ 112,309		\$ 1,741	
JCP&L On pk	\$ 1,984			\$ 2,101		
JCP&L Off pk	\$ 1,616			\$ 1,621		
Block 1 (0-600 kWh/m)		\$ 107,682				
Block 2 (>600 kWh/m)		\$ 110,586				
Winter - all hrs	\$ 350	\$ 345,941	\$ 210,838		\$ 3,761	
JCP&L On pk	\$ 3,742			\$ 3,949		
JCP&L Off pk	\$ 3,953			\$ 3,605		
Total Costs - in \$1000						
Summer	\$ 3,739	\$ 218,269	\$ 112,309	\$ 3,722	\$ 1,741	\$ 339,778
Winter	\$ 8,045	\$ 345,941	\$ 210,838	\$ 7,554	\$ 3,761	\$ 576,140
Total	\$ 11,784	\$ 564,210	\$ 323,146	\$ 11,276	\$ 5,502	\$ 915,918
% of Annual Total \$						
Summer	32%	39%	35%	33%	32%	37%
Winter	68%	61%	65%	67%	68%	63%

**Jersey Central Power & Light
Attachment 2**

Table #16 & Table #17

Not Applicable to 2022/2023 BGS Supply Period

Table #18 Bulk System Costs

ALL RATES

Grand Total Cost in \$1000 = \$ 915,918
All-In Average costs @ bulk system = \$ 54.36 per MWh at bulk system (per bulk system metered MWh)

Table #19 Seasonal Payment Factors

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

Summer \$ 51.24 per MWh @ bulk system
Winter \$ 56.38 per MWh @ bulk system

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

Summer 0.9426
Winter 1.0373

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

Summer 1.0000
Winter 1.0000

Assumptions:

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 = \$ 17.26 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

**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 = 15					
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)		\$ 139,671				
	Block 2 (>600 kWh/m)		\$ 138,887				
Winter - all hrs		\$ 392	\$ 406,636	\$ 238,024		\$ 3,835	
	JCP&L On pk	\$ 4,472			\$ 4,533		
	JCP&L Off pk	\$ 4,136			\$ 3,669		
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 in \$1,000's	Size of Tranches = 20					
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				
	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

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

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

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

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

**Jersey Central Power & Light
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Table #C3 **Post Transition Year 20 Costs w/o Transmission** **Size of Tranches =** **18**
in \$1,000's

Total Costs by Rate - in \$1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL		
Summer - all hrs	\$ 138		\$ 112,309		\$ 1,741		
JCP&L On pk	\$ 1,984			\$ 2,101			
JCP&L Off pk	\$ 1,616			\$ 1,621			
Block 1 (0-600 kWh/m)		\$ 107,682					
Block 2 (>600 kWh/m)		\$ 110,586					
Winter - all hrs	\$ 350	\$ 345,941	\$ 210,838		\$ 3,761		
JCP&L On pk	\$ 3,742			\$ 3,949			
JCP&L Off pk	\$ 3,953			\$ 3,605			
Total Costs - in \$1000							
Summer	\$ 3,739	\$ 218,269	\$ 112,309	\$ 3,722	\$ 1,741	\$	339,778
Winter	\$ 8,045	\$ 345,941	\$ 210,838	\$ 7,554	\$ 3,761	\$	576,140
Total	\$ 11,784	\$ 564,210	\$ 323,146	\$ 11,276	\$ 5,502	\$	915,918

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

Total Costs by Rate - in \$1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL		
Summer - all hrs	\$ 162		\$ 131,640		\$ 1,937		
JCP&L On pk	\$ 2,443			\$ 2,511			
JCP&L Off pk	\$ 1,781			\$ 1,786			
Block 1 (0-600 kWh/m)		\$ 128,481					
Block 2 (>600 kWh/m)		\$ 128,988					
Winter - all hrs	\$ 378	\$ 384,897	\$ 228,455		\$ 3,828		
JCP&L On pk	\$ 4,193			\$ 4,314			
JCP&L Off pk	\$ 4,100			\$ 3,671			
Total Costs - in \$1000							
Summer	\$ 4,385	\$ 257,469	\$ 131,640	\$ 4,296	\$ 1,937	\$	399,727
Winter	\$ 8,671	\$ 384,897	\$ 228,455	\$ 7,985	\$ 3,828	\$	633,836
Total	\$ 13,056	\$ 642,366	\$ 360,095	\$ 12,281	\$ 5,765	\$	1,033,563

**Jersey Central Power & Light
Attachment 2**

Table #C5

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		
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	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 \$/MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 66.19		\$ 65.82		\$ 50.48
JCP&L On pk	\$ 92.49			\$ 77.83	
JCP&L Off pk	\$ 46.99			\$ 47.30	
Block 1 (0-600 kWh/m)		\$ 63.70			
Block 2 (>600 kWh/m)		\$ 72.29			
Winter - all hrs	\$ 64.24	\$ 72.03	\$ 64.96		\$ 49.89
JCP&L On pk	\$ 91.19			\$ 73.28	
JCP&L Off pk	\$ 48.74			\$ 48.01	
Annual -all hrs	\$ 64.38	\$ 70.25	\$ 65.27	\$ 59.81	\$ 50.09

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 = \$ 1,033,563

All-In Average costs @ bulk system = \$ 61.34 per MWh at bulk system (per bulk system metered MWh)

All-In Average costs @ transmission nodes = \$ 61.83 per MWh at transmission nodes (per transmission nodes metered MWh)

**Jersey Central Power & Light
Attachment 2**

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

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	1.070	1.095	1.064		0.816
JCP&L On pk	1.496			1.259	
JCP&L Off pk	0.760			0.765	
Constant for Block 1 (0-600 kWh/m) usage (Excl. SUT)		(4.061)			
Constant for Block 2 (>600 kWh/m) usage (Excl. SUT)		4.591			
Winter - all hrs	1.039	1.165	1.050		0.807
JCP&L On pk	1.475			1.185	
JCP&L Off pk	0.788			0.777	
Annual - all hrs	1.041	1.136	1.056	0.967	0.810

DEMAND RATES

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

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

**Jersey Central Power & Light
Attachment 3 - Page 1 of 3**

**Development of Capacity Proxy Price True-Up \$/MWh
and Calculation of Composite BGS-RSCP Price**

Table A - 2022/2023 Delivery Year

	2022/2023 Delivery Year	Notes:
1 Zonal Capacity Price (\$/MW-day) - JCPL Zone	\$97.75	BRA @ June 2021 illustratively, will be updated with Final PJM RPM or its 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 @ transmission nodes - in MWh	16,714,951	Table #14 * Table #6 from 2022 BGS Auction Cost and Bid Factor Tables
12 Eligible customer Usage @ transmission nodes - in MWh	11,038,175	= line 9 * line 11
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
	<i>2020 Auction</i>	<i>2021 Auction</i>	<i>2022 Auction</i>	
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in \$/MWh	\$72.43	\$64.77	\$59.13	
Capacity Proxy Price True-Up - in \$/MWh	(\$5.64)	(\$5.64)		
<u>JCPL Transmission Cost - in \$/MWh (1)</u>	<u>(\$7.43)</u>			
	\$59.36	\$59.13	\$59.13	
<u>Total # of Tranches</u>				
Size of Tranches	15	20	18	
Total # of Tranches	53	53	53	
<u>Seasonal Factors</u>				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
<u>Applicable Customer Usage @ transmission node</u>				
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
<u>All-in BGS-RSCP Cost</u>				
Summer	\$110,516,566	\$146,784,468	\$132,106,021	\$389,407,055
Winter	<u>\$170,294,611</u>	<u>\$226,179,703</u>	<u>\$203,561,732</u>	<u>\$600,036,046</u>
Total	\$280,811,177	\$372,964,171	\$335,667,754	\$989,443,101

Composite Bid Price

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

(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 <small>Winning Suppliers from 2021 BGS- RSCP Auction</small>	2023/2024 Delivery Year for <small>Winning Suppliers from 2022 BGS-RSCP Auction</small>	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 xxxxxxxx dated Nov. xx, 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	\$14,789,804	\$64,245,932	= line 3 * line 4 * line 5
7 Eligible Tranches	15	15	
8 Total Tranches	53	53	
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

*: 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 and Light
Calculation of Composite BGS-RSCP Price
June 1, 2023 through May 31, 2024 - Illustrative Only

	BGS Post Transition Year 19	BGS Post Transition Year 20	BGS Post Transition Year 21	Total BGS-RSCP Cost
	<i>2021 Auction</i>	<i>2022 Auction</i>	<i>2023 Auction</i>	
	1 Year Term Remaining	2 Year Term 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	20	18	15	
Total # of Tranches	53	53	53	
Seasonal Factors				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
Applicable Customer Usage @ transmission node				
Summer MWh	6,578,367	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	\$162,969,733	\$153,285,881	\$120,588,914	\$436,844,528
Winter	<u>\$251,119,524</u>	<u>\$236,197,708</u>	<u>\$185,815,060</u>	<u>\$673,132,292</u>
Total	\$414,089,258	\$389,483,588	\$306,403,974	\$1,109,976,821

Composite Bid Price

\$66.41 L/(H+1), Rounded to 2 decime

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 <u>Capacity Proxy Price (\$/MW-day)</u>	<u>\$87.98</u>	BGS Order Docket No. xxxxxxxx dated Nov. xx, 2021
3 Capacity Proxy Price True-Up - \$/MW-day	\$67.02	Line 1 - Line 2
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)

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.

Jersey Central Power and Light
Calculation of Composite BGS-RSCP Price
June 1, 2024 through May 31, 2025 - Illustrative Only

	BGS Post Transition Year 20	BGS Post Transition Year 21	BGS Post Transition Year 22	Total BGS-RSCP Cost
	<i>2022 Auction</i>	<i>2023 Auction</i>	<i>2024 Auction</i>	
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in \$/MWh	\$ 59.13	\$59.13	\$59.13	
<u>Capacity Proxy Price True-Up - in \$/MWh</u>	<u>\$6.97</u>			
	\$66.10	\$59.13	\$59.13	
<u>Total # of Tranches</u>				
Size of Tranches	18	15	20	
Total # of Tranches	53	53	53	
<u>Seasonal Factors</u>				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
<u>Applicable Customer Usage</u>				
<u>@ transmission node</u>				
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
<u>All-in BGS-RSCP Cost</u>				
Summer	\$147,678,133	\$110,088,351	\$146,784,468	\$404,550,952
<u>Winter</u>	<u>\$227,556,748</u>	<u>\$169,634,777</u>	<u>\$226,179,703</u>	<u>\$623,371,228</u>
Total	\$375,234,881	\$279,723,128	\$372,964,171	\$1,027,922,180

Composite Bid Price

\$61.50 L/(H+I), Rounded to 2 decima

**Jersey Central Power & Light
Attachment 4**

Development of Assumed Transmission Cost in Bids During 2020 BGS Auction

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