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JUN 29 2018
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BOARD OF PUBLIC UTILITIES
TRENTON, NJ

June 29, 2018

Aida Camacho-Welch, Secretary
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Ste. 314
P.O. Box 350
Trenton, NJ 08625-0350

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CASE MANAGEMENT
JUN 29 2018
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Re: **In the Matter of the Provision of Basic Generation
Service for the Period Beginning June 1, 2018
Docket No. ER18040356**

BOARD OF PUBLIC UTILITIES
TRENTON, NJ

Dear Secretary Camacho-Welch:

On or about June 29, 2018, Public Service Electric and Gas Company ("Public Service") will be submitting to the Board of Public Utilities ("Board"), on behalf of itself and the other New Jersey electric distribution companies ("EDCs"), *i.e.*, Jersey Central Power & Light Company ("JCP&L"), Atlantic City Electric Company and Rockland Electric Company, a joint proposal for an auction process for the procurement of a portion of the supply for the provision of basic generation service ("BGS") for the period commencing June 1, 2019. Such submission is being made in compliance with the Board's Order, dated April 25, 2018, in the above-captioned docket.

As part of the joint submission being made by Public Service on behalf of itself and the other EDCs, including JCP&L, each EDC is submitting, under separate cover, a Company Specific Addendum ("CSA") that supplies EDC-specific information relating to such matters as committed supply, contingency plans, BGS accounting and cost recovery, and proposed tariff sheets.

CMS
Legal
Energy
DAG

Aida Camacho-Welch, Secretary

June 28, 2018

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Enclosed herewith for filing with the Board are the original and 11 copies of JCP&L's CSA, containing JCP&L-specific information relating to the EDCs' joint proposal for the BGS supply period commencing June 1, 2019.

Kindly return a copy of JCP&L's Company Specific Addendum stamped as "filed" to the undersigned in the self-addressed, prepaid envelope provided herewith.

Respectfully submitted,



Gregory Eisenstark

Enclosures

cc: Service List (Board Staff, Rate Counsel and Department of Law only)
(w/enclosures - via overnight delivery)
Remainder of Service List and Other Interested Parties
(via electronic notice with link)

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IN THE MATTER OF THE PROVISION OF
BASIC GENERATION SERVICE FOR THE
PERIOD BEGINNING JUNE 1, 2019

Docket No. ER18040356

BOARD OF PUBLIC UTILITIES

JUN 29 2018

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JERSEY CENTRAL POWER & LIGHT COMPANY

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JUN 29 2018

BOARD OF PUBLIC UTILITIES
TRENTON, NJ

PROPOSAL FOR
BASIC GENERATION SERVICE
BEYOND MAY 31, 2019

COMPANY SPECIFIC ADDENDUM

June 29, 2018

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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, namely Yards Creek. JCP&L will retain the right to negotiate changes in all NUG contracts and to make changes with respect to the operational control over Yards Creek and 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 Board in its Order dated December 11, 2001 (Docket No. EX01050303), except where retained to meet requirements of the Contingency Plan, JCP&L will continue to sell all of the remaining energy, capacity and ancillary services associated with its Committed Supply into the PJM Spot Market unless and until the Board determines that a different sales protocol is appropriate. All net revenues from these sales will be credited to the NGC, provided that, in the case of JCP&L-owned generation assets, the all-in costs of those assets will continue to be recovered through BGS charges or JCP&L’s NGC Deferred Balance.

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

To the extent that JCP&L remains obligated to meet the renewable portfolio standards requirement with respect to the 10 MW it serves, JCP&L will purchase sufficient amounts of renewable energy credits (RECS and SRECS) and/or make requisite solar alternative compliance payments to meet its solar requirement. 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 no later than two weeks prior to the due date for the annual RPS report of October 1st, or the extended due date if applicable.

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, 2019;
- (c) A default during the June 1, 2019 – May 31, 2022 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 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 one-third of the yearly BGS-RSCP Supply. 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, 2019

If a winning bidder defaults prior to the beginning of the BGS service, then, JCP&L's 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, 2019 through May 31, 2022 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 pass-through of Transmission Charge increases (e.g., TEC) 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.
3. The cost of any procurement of necessary services, including capacity, energy, ancillary services, transmission and other expenses related to the Contingency Plan, less payments, if any, recovered from defaulting bidders or from defaulting bidders' credit security.
4. Costs related to the Board-approved pass-through of Transmission Charge increases (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)(x) the amount paid to the BGS-RSCP and BGS-CIEP suppliers for BGS-RSCP and BGS-CIEP supply, (y) the total administrative costs, net of amounts received from BGS-RSCP and BGS-CIEP suppliers, and (z) the total Contingency Plan costs, net of recoveries from defaulting bidders, 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, 2019). The subsequent formula-based reconciliation will continue every three months thereafter.

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

1. that JCP&L's proposed accounting for BGS is approved by the Board for purposes of accounting and BGS cost recovery; and
2. that the proposed BGS Contingency Plan is approved by the Board and there will exist a presumption of reasonableness and prudence with respect to (i) the BGS Auction Plan method, (ii) the costs incurred for BGS supply under the Auction Plan, and (iii) the related Contingency Plan.

B. Accounting for the NGC Deferred Balance

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

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

III. DESCRIPTION OF BGS TARIFF SHEETS AND OTHER TARIFF CHANGES

A. General

As described in the generic section of the EDCs' 2019 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 85% 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 865 customers, excluding GS and GST customers as noted below, would thus be eligible to receive BGS-CIEP default service, which would comprise about 15% 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, 2018, and those GS and GST customers that have opted to take BGS-CIEP default service for the 2019/2020 BGS Supply Period (June 1, 2019 through May 31, 2020) as of January 3, 2019.

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 at customer to All-In Average Cost at transmission nodes, as shown on Table #C7 of the Composite Cost Allocation of the 2019 BGS Auction Cost and Bid Factor Tables, included in Attachment 2, less the applicable transmission charge. “Winning bid price” is defined as the tranche weighted average of the winning bid prices adjusted for the seasonal payment factors. For the RS rate class, the Summer energy charges are further modified by the blocking differential found in Table #C7 of the Composite Cost Allocation of the 2019 BGS Auction Cost and Bid Factor Tables.

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 as in effect as of November 1, 2018 assigned to the JCP&L Transmission Zone by the PJM Interconnection, L.L.C., adjusted for billing anomalies.

(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.

In compliance with the BGS-RSCP Supplier Master Agreement, JCP&L will file with the BPU to change the transmission cost components of the BGS 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. JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT as well as 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 III - 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, 2018, those GS and GST customers that have opted to take BGS-CIEP default service for the 2019/2020 BGS Supply Period (June 1, 2019 through May 31, 2020) as of January 3, 2019, and those GS and GST customers that previously opted to take BGS-CIEP default service and do not notify the Company, by January 3, 2019, that they opt to return to BGS-RSCP default service for the 2019/2020 BGS Supply Period (June 1, 2019 through May 31, 2020).

All GS and GST customers (with the exception of non-metered accounts) may “opt in” to BGS-CIEP, effective June 1, 2019, provided that they notify the Company no later than January 3, 2019. 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, 2019.

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, 2018, and GS and GST customers that have opted in no later than January 3, 2019. 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.

In compliance with the BGS-CIEP Supplier Master Agreement, JCP&L will file with the BPU to change the transmission cost components of the BGS 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. JCP&L will review and verify the basis for any BGS transmission charge adjustment, file supporting documentation from the PJM OATT as well as 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 III - 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 2017 and 2018 BGS auctions and the forecasted cost for the 2019 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 (2017/2018, 2018/2019 and 2019/2020, 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 2015, 2016 and 2017 data.

Table #2 (% Usage During JCP&L On-Peak Billing Period) contains the percentage of on-peak load, forecasted for 2018, 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 2018. The values in Table #3 will be updated in January 2019 to better reflect the amount by rate schedule that could be in effect starting on June 1, 2019. 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 2017/2018 and 2018/2019 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 2017 and 2018 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 2018, 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 2019 to better reflect the aggregate amount by rate schedule that could be in effect on June 1, 2019. 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 2017/2018 and 2018/2019 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 2017 and 2018 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. 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 2018. 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 2019/2020 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 \$19.17 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 2017/2018 and 2018/2019 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 2017 and 2018 BGS auctions.

Table #12 (Summary of Obligation Costs Expressed as \$/MWh @ customer) provides transmission obligations, 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. 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)), 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 2018 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 #16 (Customer and Bulk System Costs) applies only to the 2017/2018 and 2018/2019 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 2017/2018 and 2018/2019 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 2019/2020 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 2019/2020 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 2019/2020 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 by Season from Table #15 for each of the BGS Supplier Periods to derive the tranche weighted average cost for June 1, 2019

through May 31, 2020 for each rate class, by season, usage block and on-peak versus off-peak as applicable.

Tables #C1, #C2 and #C3 are the costs 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, 2019 through May 31, 2020.

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 2018 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 (2019/2020 BGS Supply Period, Table #3 adjusted by the loss factors in 2019/2020 BGS Supply Period, Table #6) to arrive at the All-In Average Costs at bulk system and the All-In Average Costs at transmission nodes.

Table #C7 (Ratio of BGS Unit Costs @ customer to All-In Average Cost @ transmission nodes) indicates the ratio of the individual rate element costs to the overall all-in 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, 2019 through May 31, 2020. 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, less the transmission price from 2019/2020 BGS Supply Period, Table #12, 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 asks 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. 12 ELECTRIC - PART III

XX Rev. Sheet No. 35
Superseding XX Rev. Sheet No. 35

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, 2018. 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, 2019 through May 31, 2020)

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: June 1, 2019

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. 12 ELECTRIC - PART III

XX Rev. Sheet No. 36
Superseding XX Rev. Sheet No. 36

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)

2) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED. Effective September 1, 2017, a RMR (BL England) surcharge of **\$0.000131** per KWH (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage. Effective January 1, 2018, a RMR (Yorktown) surcharge of **\$0.000011** per kWh (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage.

Effective September 1, 2017, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

TRAILCO-TEC surcharge of **\$0.000460** per KWH
PEPCO-TEC surcharge of **\$0.000015** per KWH
ACE-TEC surcharge of **\$0.000084** per KWH
Delmarva-TEC surcharge of **\$0.000001** per KWH
PPL-TEC surcharge of **\$0.000210** per KWH
BG&E-TEC surcharge of **\$0.000031** per KWH

Effective February 10, 2018, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

AEP-East-TEC surcharge of **\$0.000115** per KWH
PATH-TEC surcharge of **(\$0.000039)** per KWH
VEPCO-TEC surcharge of **\$0.000341** per KWH
PSEG-TEC surcharge of **\$0.001513** per KWH
MAIT-TEC surcharge of **\$0.000030** per KWH

Effective April 1, 2018, the following TEC surcharge (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

PECO-TEC surcharge of **\$0.000050** per KWH

3) BGS Reconciliation Charge per KWH: **\$x.xxxxxx** (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-up.

Issued:

Effective: June 1, 2019

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

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

AVAILABILITY: Rider BGS-CIEP is available to and provides Basic Generation Service (default service) charges applicable to all Full Service Customers taking service at primary and transmission voltages under Service Classifications GP and GT and any Full Service Customers taking service at secondary voltages under Service Classifications GS and GST that have a peak load share of 500 KW or greater as of November 1, 2018, or that have elected to take BGS-CIEP service no later than the second business day in January of each year. All BGS-CIEP customers remain subject to this Rider for the entire 12-month period from June 1 of any given year through May 31 of the following year.

RATE PER BILLING MONTH:

(For service rendered effective June 1, 2019 through May 31, 2020)

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

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

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

3) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications GS, GST, GP and GT. Effective September 1, 2017, a RMR (BL England) surcharge will be added to the BGS Transmission Charge applicable to all KWH usage, as follows (includes Sales and Use Tax as provided in Rider SUT):

GT – High Tension Service	\$0.000119
GT	\$0.000122
GP	\$0.000124
GS and GST	\$0.000131

Effective January 1, 2018, a RMR (Yorktown) surcharge will be added to the BGS Transmission Charge applicable to all KWH usage, as follows (includes Sales and Use Tax as provided in Rider SUT):

GT – High Tension Service	\$0.000010
GT	\$0.000010
GP	\$0.000011
GS and GST	\$0.000011

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

3) BGS Transmission Charge per KWH: (Continued)

Effective September 1, 2017, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>TRAILCO-TEC</u>	<u>PEPCO-TEC</u>	<u>ACE-TEC</u>
GS and GST	\$0.000460	\$0.000015	\$0.000084
GP	\$0.000283	\$0.000009	\$0.000052
GT	\$0.000251	\$0.000007	\$0.000046
GT – High Tension Service	\$0.000059	\$0.000002	\$0.000011

	<u>Delmarva-TEC</u>	<u>PPL-TEC</u>	<u>BG&E-TEC</u>
GS and GST	\$0.000001	\$0.000210	\$0.000031
GP	\$0.000001	\$0.000129	\$0.000019
GT	\$0.000001	\$0.000114	\$0.000017
GT – High Tension Service	\$0.000000	\$0.000027	\$0.000004

Effective February 10, 2018, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>AEP-East-TEC</u>	<u>PATH-TEC</u>	<u>VEPCO-TEC</u>	<u>PSEG-TEC</u>
GS and GST	\$0.000115	(\$0.000039)	\$0.000341	\$0.001513
GP	\$0.000078	(\$0.000027)	\$0.000231	\$0.001024
GT	\$0.000073	(\$0.000025)	\$0.000213	\$0.000944
GT – High Tension Service	\$0.000018	(\$0.000006)	\$0.000052	\$0.000230

	<u>MAIT-TEC</u>
GS and GST	\$0.000030
GP	\$0.000020
GT	\$0.000019
GT – High Tension Service	\$0.000004

Effective April 1, 2018, the following TEC surcharge (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>PECO-TEC</u>
GS and GST	\$0.000050
GP	\$0.000034
GT	\$0.000032
GT – High Tension Service	\$0.000007

4) BGS Reconciliation Charge per KWH: \$x.xxxxxx (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-up.

Issued:**Effective: June 1, 2019**

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

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 12 ELECTRIC - PART III

XX Rev. Sheet No. 39
Superseding XX Rev. Sheet No. 39

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, 2018, 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, 2019 through May 31, 2020 to recover costs associated with administrating and maintaining the availability of the hourly-priced default Basic Generation Service for these customers.

CIEP – Standby Fee per KWH: \$0.000150

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

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Docket No. dated

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

**Jersey Central Power & Light
Attachment 2
2019 BGS Auction Cost and Bid Factor Tables**

2017/2018 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 2015 through 2017 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	OLSL
(data rounded to nearest .01 %)					
January	47.88%	45.71%	54.46%	52.74%	31.25%
February	51.23%	48.40%	57.72%	55.74%	31.36%
March	51.68%	48.73%	60.43%	57.06%	29.68%
April	49.47%	47.61%	59.02%	56.71%	26.45%
May	48.33%	47.31%	58.01%	56.16%	24.87%
June	54.18%	53.71%	60.33%	59.84%	25.76%
July	50.59%	50.79%	56.89%	56.26%	23.57%
August	52.83%	53.07%	59.47%	58.60%	26.49%
September	49.07%	48.51%	58.86%	57.59%	27.06%
October	49.79%	47.91%	58.52%	57.27%	29.65%
November	48.97%	45.47%	57.69%	55.28%	32.32%
December	48.21%	45.96%	55.45%	53.35%	32.31%

Table #2

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

	2018 Forecasted		2018 Forecasted	
	Calendar Month		Calendar Month	
	Sales RT(1)	N/A RS(2)	Sales GST	N/A OLSL
(data rounded to nearest .01 %)				
January	35.84%	---	42.42%	---
February	35.41%	---	42.85%	---
March	34.73%	---	42.82%	---
April	34.68%	---	44.04%	---
May	36.66%	---	45.51%	---
June	39.93%	---	46.33%	---
July	41.59%	---	47.18%	---
August	41.59%	---	46.65%	---
September	40.03%	---	46.13%	---
October	36.88%	---	46.07%	---
November	35.18%	---	45.46%	---
December	35.59%	---	43.39%	---

- {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 2018
in MMWh

	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL	Total
January	26,592	799,279	510,394	15,108	9,490	1,360,863
February	27,398	760,155	493,890	15,108	9,485	1,306,036
March	25,342	690,812	508,325	15,667	9,480	1,249,628
April	19,847	589,629	465,965	14,129	9,475	1,099,046
May	15,385	552,906	436,268	10,341	9,470	1,024,370
June	16,535	715,965	508,549	13,565	9,465	1,254,090
July	20,574	1,004,787	564,605	14,168	9,480	1,613,594
August	21,951	1,111,718	587,963	15,782	9,454	1,746,868
September	18,583	923,564	548,162	14,606	9,449	1,514,364
October	14,081	658,509	477,383	12,752	9,444	1,172,169
November	14,764	573,321	453,136	12,796	9,439	1,063,456
December	20,028	678,062	472,439	13,077	9,434	1,193,040
Total	241,080	9,058,708	6,027,080	167,099	113,545	15,607,512

Table #4

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

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak	On-Peak	Off-Peak
January	52.53	55,142	36,751	38,579	104%	103%
February	49.85	52,329	34,876	36,610	104%	103%
March	40.31	42,315	28,202	29,605	104%	103%
April	33.73	35,407	23,598	24,772	104%	103%
May	33.63	35,303	23,529	24,699	104%	103%
June	37.35	48,910	23,965	31,382	95%	90%
July	45.53	59,622	29,213	38,255	95%	90%
August	41.60	54,475	26,691	34,852	95%	90%
September	35.39	46,343	22,707	29,735	104%	103%
October	33.72	35,397	23,591	24,764	104%	103%
November	34.02	35,712	23,801	24,985	104%	103%
December	38.00	39,880	26,586	27,908	104%	103%

Table #6

	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL
Losses					
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 =	9.6175%	9.6175%	9.6175%	9.6175%	9.6175%
Expansion Factor to Transmission Nodes =	1.10972	1.10972	1.10972	1.10972	1.10972

(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)	OLSL
Summer - all hrs					
PJM on pk	\$ 45,463	\$ 45,502	\$ 46,947	\$ 46,593	\$ 39,411
PJM off pk	\$ 56,191	\$ 56,322	\$ 55,867	\$ 55,771	\$ 55,555
	\$ 34,003	\$ 34,030	\$ 33,942	\$ 33,859	\$ 33,821
Winter - all hrs					
PJM on pk	\$ 42,481	\$ 41,332	\$ 42,314	\$ 42,313	\$ 37,959
PJM off pk	\$ 50,241	\$ 49,287	\$ 48,497	\$ 48,860	\$ 48,648
	\$ 34,854	\$ 34,235	\$ 33,698	\$ 34,141	\$ 33,435
Annual	\$ 43,441	\$ 43,061	\$ 43,976	\$ 43,798	\$ 38,442
System Total	\$ 43.39				

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)	OLSL	Total
Summer - all hrs						
PJM on pk	\$ 3,530	\$ 170,906	\$ 103,497	\$ 2,707	\$ 1,491	\$ 282,131
PJM off pk	\$ 2,253	\$ 108,864	\$ 72,646	\$ 1,882	\$ 541	\$ 186,185
	\$ 1,276	\$ 62,043	\$ 30,852	\$ 825	\$ 950	\$ 95,946
Winter - all hrs						
PJM on pk	\$ 6,943	\$ 219,168	\$ 161,548	\$ 4,611	\$ 2,874	\$ 385,144
PJM off pk	\$ 4,070	\$ 123,219	\$ 106,741	\$ 2,958	\$ 1,095	\$ 238,082
	\$ 2,873	\$ 95,949	\$ 54,807	\$ 1,655	\$ 1,779	\$ 157,062
Annual	\$ 10,473	\$ 390,074	\$ 265,045	\$ 7,319	\$ 4,385	\$ 677,276
System Total	\$ 677,276					

**Jersey Central Power & Light
Attachment 2**

Table #3

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					
JCP&L On pk	\$ 45,463	\$ 45,502	\$ 46,847	\$ 46,583	\$ 39,411
JCP&L Off pk	\$ 59,122		\$ 58,474	\$ 58,474	
	\$ 36,026		\$ 36,216	\$ 36,216	
Winter - all hrs					
JCP&L On pk	\$ 42,461	\$ 41,332	\$ 42,314	\$ 42,313	\$ 37,959
JCP&L Off pk	\$ 52,274		\$ 50,800	\$ 50,800	
	\$ 37,087		\$ 35,661	\$ 35,661	
Annual Average System Average	\$ 43,39	\$ 43,061	\$ 43,976	\$ 43,798	\$ 38,442

Table #10

Generation & Transmission Obligations and Costs and Other Adjustments
Obligations - annual average forecasted for 2018; costs are market estimates
in MW

Gen Obl - MW
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 =
of winter days =

122
244

of summer months =
of winter months =
total # months =

4
8
12

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

	Initial	Adjusted	Summer Total	Winter Total	Annual Total
Generation Capacity cost	\$ 151.38	158,909 \$/MWh/day	\$ 87,608,810	\$ 175,217,621	\$ 262,826,431
	\$ 151.38	158,909 \$/MWh/day			

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

Charges	Rate	% usage
Block 1 (0-500 kWh/m)		52.35%
Block 2 (>500 kWh/m)		47.65%
Differential (Excl. SUT)	0.8652 \$/MWh	

Table #11

Ancillary Services
Forecasted Ancillary Services Cost
Renewable Portfolio Standard Cost
forecasted overall annual average

Initial	Adjusted	\$/MWh
\$2.00		
\$8.57		
\$10.57		
	\$11.096	\$/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	\$ 3,842	\$ 4,627	\$ 4,615	\$ 3,690	\$ 3,508
Generation Obl \$/MWh - all months					
Generation Obl \$/MWh - Summer - All Hours	\$ 21,614	\$ 18,837	\$ 13,985	\$ 16,035	\$ 0,092
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 22,370	\$ 15,143	\$ 12,717	\$ 32,995	\$ 0,092
Generation Obl \$/MWh - Winter - All Hours	\$ 54,744				
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 21,254	\$ 21,453	\$ 14,718		\$ 0,092
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 59,847			\$ 37,306	

**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						
JCP&L On pk	\$	84.08	\$	77.68	\$	76.58
JCP&L Off pk	\$	130.11			\$	107.56
Block 1 (0-600 kWh/m)	\$	52.27			\$	52.31
Block 2 (>600 kWh/m)	\$					82.21
Winter - all hrs						
JCP&L On pk	\$	79.98	\$	79.82	\$	74.05
JCP&L Off pk	\$	128.97			\$	104.20
		53.33				51.76
Annual -all hrs	\$	81.30	\$	78.93	\$	74.98
						75.93
						54.45

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)	OU/SL	Total
Summer - all hrs						
JCP&L On pk	1,764,142		2,209,279,000		37,828,000	
JCP&L Off pk	31,007,842			27,069,178		
Block 1 (0-600 kWh/m)	44,871,016	1,966,234,000		31,051,822		
Block 2 (>600 kWh/m)		1,769,801,000				
Winter - all hrs						
JCP&L On pk	3,609,561	5,302,673,000	3,817,801,000		75,717,000	
JCP&L Off pk	56,758,897			47,882,798		
	103,068,542			61,095,202		
Summer Total	77,643,000	3,756,035,000	2,209,279,000	58,121,000	37,828,000	6,138,906,000
Winter Total	163,437,000	5,302,673,000	3,817,801,000	108,978,000	75,717,000	9,468,606,000
Annual Total	241,080,000	9,058,708,000	6,027,080,000	167,099,000	113,545,000	15,607,512,000

Table #15

Summary of Total Estimated BGS Costs by Season	RT(1)	RS(2)	GS(3)	GST (4)	OU/SL	Total
Total Costs by Rate - in \$1000						
Summer - all hrs						
JCP&L On pk	148		169,196		2,096	
JCP&L Off pk	4,035			2,912		
Block 1 (0-600 kWh/m)	2,346	144,626		1,624		
Block 2 (>600 kWh/m)		147,134				
Winter - all hrs						
JCP&L On pk	289	423,243	282,721		4,086	
JCP&L Off pk	7,286			4,989		
	5,497			3,162		
Total Costs - in \$1000						
Summer	6,528	291,759	169,196	4,536	2,096	474,116
Winter	13,072	423,243	282,721	8,152	4,086	731,273
Total	19,600	715,003	451,916	12,688	6,182	1,205,389
% of Annual Total \$						
Summer	33%	41%	37%	36%	34%	39%
Winter	67%	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 = \$ 1,205,389

Seasonal Units	RT(1)	RS(2)	GS(3)	GST(4)	OL/SL	Total
Summer	86,805	4,199,244	2,469,972	64,979	42,282	6,863,292
Winter	182,722	5,928,394	4,268,299	121,837	84,652	10,585,894
Supplier Payment in \$1000						
Post Transition Year 15 Bid price						
Seasonally Adjusted Summer Payment	Factor 1.0000	69,080	Units 6,863,292 \$	Payment 474,116		
Seasonally Adjusted Winter Payment	1.0000	69,080	10,585,894 \$	731,274		
Total Supplier Payment				\$ 1,205,380		

Table #17

Adjustment Factor Calculation

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):

Summer	\$ 69.08 per MWh @ bulk system
Winter	\$ 69.08 per MWh @ bulk system

Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
69.08	1.0000	1.309507
69.08	1.0000	1.049733

Assumptions:

Generation Capacity Cost = \$ 158.91 per MW day Summer
Transmission cost = \$ 158.91 per MW day Winter
Analysis time period = 4 summer months
8 winter months
Ancillary Services = \$ 11.10 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 15 and adjusted to match the total cost at the actual supplier bid price.
Usage patterns = forecasted 2018 energy use by class based upon PJM on/off % from 2015 through 2017 class load profiles
JCP&L billing on/off % from 2018 forecasted billing determinants
Obligations = class totals for 2018 excluding accounts required to take service under BGS-CIEP as of June 1, 2019
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
2019 BGS Auction Cost and Bid Factor Tables**

2018/2019 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 2015 through 2017 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)	Data GST	OL/SL
(data rounded to nearest .01 %)					
January	47.83%	45.71%	54.46%	52.74%	31.25%
February	51.23%	48.40%	57.72%	55.74%	31.36%
March	51.68%	48.73%	60.43%	57.06%	29.68%
April	49.47%	47.61%	59.02%	56.71%	26.45%
May	48.33%	47.31%	58.01%	56.16%	24.87%
June	54.18%	53.71%	60.33%	59.84%	23.76%
July	50.59%	50.79%	56.89%	56.26%	23.57%
August	52.93%	53.07%	59.47%	58.60%	26.49%
September	49.07%	48.51%	58.86%	57.59%	27.06%
October	49.79%	47.91%	58.52%	57.27%	29.66%
November	48.97%	45.47%	57.68%	55.28%	32.32%
December	48.21%	45.96%	55.45%	53.35%	32.31%

Table #2

% Usage During JCP&L On-Peak Billing Period	On-Peak periods as defined in specified rate schedule				
	2018 Forecasted Calendar Month Sales		2018 Forecasted Calendar Month Sales		N/A OL/SL
	RT(1)	RS(2)	GS(3)	GST	
(data rounded to nearest .01 %)					
January	35.84%	---	---	42.42%	---
February	35.41%	---	---	42.83%	---
March	34.73%	---	---	42.82%	---
April	34.68%	---	---	44.04%	---
May	36.66%	---	---	45.51%	---
June	39.93%	---	---	46.33%	---
July	41.59%	---	---	47.18%	---
August	41.59%	---	---	46.65%	---
September	40.03%	---	---	46.13%	---
October	36.68%	---	---	46.07%	---
November	35.18%	---	---	45.46%	---
December	35.59%	---	---	43.39%	---

- (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 2018
in MWh

	RT(1)	RS(2)	GS(3)	GST (4)	OLSL	Total
January	26,592	799,279	510,394	15,108	9,490	1,350,863
February	27,398	760,155	493,890	15,108	9,485	1,306,036
March	25,342	690,812	508,325	15,667	9,480	1,249,626
April	19,847	589,629	465,966	14,129	9,475	1,099,046
May	15,385	552,906	436,268	10,341	9,470	1,024,370
June	16,535	715,966	508,549	13,585	9,465	1,264,080
July	20,574	1,004,787	564,605	14,168	9,460	1,613,594
August	21,951	1,111,718	587,963	15,782	9,454	1,746,868
September	18,583	923,564	548,162	14,606	9,449	1,514,364
October	14,081	658,509	477,383	12,752	9,444	1,172,169
November	14,764	573,321	453,136	12,796	9,439	1,068,456
December	20,028	678,062	472,439	13,077	9,434	1,193,040
Total	241,080	9,058,708	6,027,080	167,099	113,545	15,607,512

Table #4

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

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	48,230	50,959	36,146	38,191
February	46,020	48,624	34,490	36,442
March	36,970	39,062	27,707	29,275
April	32,630	34,476	24,455	25,839
May	32,000	33,811	23,983	25,340
June	34,360	48,628	22,251	31,492
July	38,950	55,125	26,224	35,699
August	36,000	50,950	23,313	32,985
September	34,440	48,743	22,303	31,585
October	32,420	34,255	24,297	25,672
November	32,430	34,265	24,305	25,680
December	36,580	38,650	27,415	28,966

Table #5

Zone-Hub Basis Differential
Based on 3 Year Average

	On-Peak	Off-Peak
January	95%	94%
February	95%	94%
March	95%	94%
April	95%	94%
May	95%	94%
June	92%	86%
July	92%	86%
August	92%	86%
September	92%	86%
October	95%	94%
November	95%	94%
December	95%	94%

Table #6

	RT(1)	RS(2)	GS(3)	GST (4)	OLSL
Losses					
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 =	9.9325%	9.9325%	9.9325%	9.9325%	9.9325%
Expansion Factor to Transmission Nodes =	1.11028	1.11028	1.11028	1.11028	1.11028

(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)	OLSL
Summer - all hrs					
PJM on pk	\$ 42,468	\$ 42,471	\$ 43,896	\$ 43,667	\$ 36,898
PJM off pk	\$ 52,587	\$ 52,655	\$ 52,456	\$ 52,396	\$ 52,311
	\$ 31,657	\$ 31,674	\$ 31,625	\$ 31,580	\$ 31,562
Winter - all hrs					
PJM on pk	\$ 37,514	\$ 36,646	\$ 37,312	\$ 37,328	\$ 34,136
PJM off pk	\$ 43,111	\$ 42,398	\$ 41,775	\$ 42,053	\$ 41,914
	\$ 32,013	\$ 31,515	\$ 31,236	\$ 31,430	\$ 30,845
Annual	\$ 39,110	\$ 38,061	\$ 38,722	\$ 39,533	\$ 35,057
System Total	\$ 39.29				

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)	OLSL	Total
Summer - all hrs						
PJM on pk	\$ 3,297	\$ 159,524	\$ 96,956	\$ 2,538	\$ 1,396	\$ 263,711
PJM off pk	\$ 2,109	\$ 101,776	\$ 66,210	\$ 1,768	\$ 509	\$ 174,373
	\$ 1,188	\$ 57,747	\$ 28,746	\$ 770	\$ 887	\$ 89,338
Winter - all hrs						
PJM on pk	\$ 6,131	\$ 194,323	\$ 142,449	\$ 4,068	\$ 2,585	\$ 349,556
PJM off pk	\$ 3,493	\$ 105,996	\$ 91,947	\$ 2,544	\$ 944	\$ 204,924
	\$ 2,639	\$ 88,326	\$ 50,503	\$ 1,524	\$ 1,641	\$ 144,632
Annual	\$ 9,429	\$ 353,846	\$ 239,405	\$ 6,606	\$ 3,980	\$ 613,267
System Total	\$ 613.267					

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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					
JCP&L On pk	\$ 42,468	\$ 42,471	\$ 43,886	\$ 43,667	\$ 36,898
JCP&L Off pk	\$ 55,353			\$ 54,964	
	\$ 33,565			\$ 33,818	
Winter - all hrs					
JCP&L On pk	\$ 37,514	\$ 36,646	\$ 37,312	\$ 37,328	\$ 34,136
JCP&L Off pk	\$ 43,500			\$ 43,453	
	\$ 34,217			\$ 32,527	
Annual Average System Average	\$ 39,29	\$ 39,110	\$ 39,061	\$ 39,722	\$ 39,533
					\$ 35,057

Table #10

Generation & Transmission Obligations and Costs and Other Adjustments
obligations - annual average forecasted for 2018; costs are market estimates
in MW

obligations - annual average forecasted for 2018; costs are market estimates in MW						
	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	89.6	2,933.9	1,449.2	46.1	0.2	4,519.0
Trans Obl - MW	Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes					
# of Months and Days used in this analysis	# of summer days = # of winter days =	122 243	# of summer months = # of winter months =	4 8		
total # months = 12						
Transmission charges will be based on Retail Tariff rates for the applicable rate schedules						
Generation Capacity cost	Initial Summer \$ 218.96 Winter \$ 218.96	Adjusted 231.347 \$/MWh/day 231.347 \$/MWh/day	Summer Total \$ 127,544,919 Winter Total \$ 254,044,387 Annual Total \$ 381,589,306			

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

Charges	Rate	% usage
Block 1 (0-600 kWh/m)		52.35%
Block 2 (>600 kWh/m)		47.65%
Differential (Excl. SURT)	0.8652 \$/kWh	

Table #11

Ancillary Services	Initial \$2.00 Adjusted \$6.96
Forecasted Ancillary Services Cost	\$6.96
Renewable Portfolio Standard Cost	\$8.96
forecasted overall annual average	9.467 \$/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	\$ 7,465	\$ 7,465	\$ 7,465	\$ 7,465	
Generation Obl \$/MWh - all months	\$ 31,380	\$ 27,249	\$ 20,304	\$ 23,261	\$ 0.134
Generation Obl \$/MWh - Summer - All Hours	\$ 32,367	\$ 22,046	\$ 18,514	\$	\$ 0.134
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 79,698			\$ 48,036	
Generation Obl \$/MWh - Winter - All Hours	\$ 30,816	\$ 31,104	\$ 21,340	\$	\$ 0.134
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 86,771			\$ 54,089	

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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)	OUSL
Summer - all hrs					
JCP&L On pk	\$ 93.08	\$ 82.57	\$ 80.45	\$ 121.05	\$ 47.62
JCP&L Off pk	\$ 153.10			\$ 51.87	
Block 1 (0-600 kWh/m)	\$ 51.61				
Block 2 (>600 kWh/m)	\$ 78.44				
	\$ 87.10				
Winter - all hrs					
JCP&L On pk	\$ 86.38	\$ 85.80	\$ 76.70	\$ 115.59	\$ 44.85
JCP&L Off pk	\$ 148.32			\$ 50.58	
	\$ 52.27				
Annual -all hrs	\$ 88.54	\$ 84.46	\$ 78.07	\$ 90.86	\$ 45.77

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	Total
Summer - all hrs						
JCP&L On pk	1,764,142		2,209,279,000	27,069,178	37,828,000	
JCP&L Off pk	31,007,942			31,051,822		
Block 1 (0-600 kWh/m)	44,871,016	1,966,234,000				
Block 2 (>600 kWh/m)		1,789,801,000				
Winter - all hrs						
JCP&L On pk	3,609,561	5,302,673,000	3,817,801,000	47,892,798	75,717,000	
JCP&L Off pk	56,758,897			61,095,202		
	103,068,542					
Summer Total	77,643,000	3,756,035,000	2,209,279,000	58,121,000	37,828,000	6,138,906,000
Winter Total	163,437,000	5,302,673,000	3,817,801,000	108,978,000	75,717,000	9,468,606,000
Annual Total	241,080,000	9,058,708,000	6,027,080,000	167,099,000	113,545,000	15,607,512,000

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						
JCP&L On pk	\$ 164		\$ 177,735	\$ 3,277	\$ 1,801	
JCP&L Off pk	\$ 4,747			\$ 1,611		
Block 1 (0-600 kWh/m)	\$ 2,316	\$ 154,239				
Block 2 (>600 kWh/m)		\$ 155,885				
Winter - all hrs						
JCP&L On pk	\$ 312	\$ 454,967	\$ 292,829	\$ 5,535	\$ 3,396	
JCP&L Off pk	\$ 8,419			\$ 3,090		
	\$ 5,387					
Total Costs - in \$1000						
Summer	7,227	310,124	177,735	4,887	1,801	501,775
Winter	14,117	454,967	292,829	8,625	3,396	773,935
Total	21,345	765,091	470,564	13,512	5,197	1,275,710
% of Annual Total \$						
Summer	34%	41%	38%	36%	35%	39%
Winter	66%	59%	62%	64%	65%	61%

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Table #16

Customer & Bulk System Costs					
Customer Costs Per Allocation Matrix					
Grand Total Cost in \$1000 = \$ 1,275,710					
Seasonal Units					
Summer		RT(1)	RS(2)	GS(3)	GST (4)
Winter		86,805	4,199,244	2,469,972	64,979
		182,722	5,928,384	4,286,299	121,837
					OL/SL
					42,292
					84,652
					Total
					6,863,292
					10,585,894
Supplier Payment in \$1000					
Post Transition Year 16 Bid price					
Seasonally Adjusted Summer Payment	Seasonal	Price per MWh	Units	Payment	
Seasonally Adjusted Winter Payment	1,0000	73,110	6,863,292	\$ 501,775	
Total Supplier Payment	1,0000	73,110	10,585,894	\$ 773,935	
				\$ 1,275,710	

Table #17

Adjustment Factor Calculation					
Allocated Customer Costs on a per MWh basis (on bulk system MWhs):					
Summer	\$ 73,11	per MWh @ bulk system	Seasonal Supplier Payment	Calculation	Adjustment Factor
Winter	\$ 73,11	per MWh @ bulk system	73,11	1,0000	1,415288
					1,056586

Assumptions:

Generation Capacity Cost = \$ 231.35 per MW day Summer
Transmission cost = \$ 231.35 per MW day Winter
Analysis time period = 4 summer months
8 winter months

Ancillary Services = \$ 9.47 per MWh
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 16 and adjusted to match the total cost at the actual supplier bid price.

Usage patterns = forecasted 2018 energy use by class based upon PJM on/off % from 2015 through 2017 class load profiles
JCP&L billing on/off % from 2018 forecasted billing determinants

Obligations = class totals for 2018 excluding accounts required to take service under BGS-CIEP as of June 1, 2019

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 MWh.

NJ Sales and Use Tax (SUT) = SUT excluded from all costs

**Jersey Central Power & Light
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2019 BGS Auction Cost and Bid Factor Tables**

2019/2020 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 P.M. On-Peak Period	Based on an average of 2015 through 2017 Load Profile Information On-Peak periods defined as the 16 hr P.M. Trading period, adj for NERC holidays				
	Profile Meter Data	Profile Meter Data	Profile Meter Data	Profile Meter Data	Other Analysis
	RT(1)	RS(2)	GS(3)	GST	OL/SL
	(data rounded to nearest .01 %)				
January	47.88%	45.71%	54.46%	52.74%	31.25%
February	51.23%	48.40%	57.72%	55.74%	31.36%
March	51.68%	48.73%	60.43%	57.06%	29.68%
April	49.47%	47.61%	59.02%	56.71%	26.45%
May	48.33%	47.31%	58.01%	56.16%	24.87%
June	54.18%	53.71%	60.33%	59.84%	25.76%
July	50.59%	50.79%	56.89%	56.26%	23.57%
August	52.93%	53.07%	59.47%	58.60%	26.49%
September	49.07%	48.51%	58.86%	57.59%	27.06%
October	48.79%	47.91%	58.52%	57.27%	29.66%
November	48.97%	45.47%	57.69%	55.28%	32.32%
December	48.21%	45.96%	55.45%	53.35%	32.31%

Table #2

% Usage During JCP&L On-Peak Billing Period	On-Peak periods as defined in specified rate schedule				
	2018 Forecasted Calendar Month Sales		2018 Forecasted Calendar Month Sales		N/A
	RT(1)	RS(2)	GS(3)	GST	OL/SL
	(data rounded to nearest .01 %)				
January	35.84%	---	---	42.42%	---
February	36.41%	---	---	42.83%	---
March	34.73%	---	---	42.82%	---
April	34.68%	---	---	44.04%	---
May	36.66%	---	---	45.51%	---
June	39.93%	---	---	48.33%	---
July	41.59%	---	---	47.18%	---
August	41.59%	---	---	46.65%	---
September	40.03%	---	---	46.13%	---
October	36.68%	---	---	46.07%	---
November	35.18%	---	---	45.46%	---
December	35.59%	---	---	43.39%	---

- (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 2018
in MWh

	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL	Total
January	26,592	799,279	510,394	15,108	9,490	1,380,863
February	27,398	760,155	493,890	15,108	9,485	1,306,036
March	25,342	690,812	508,325	15,867	9,480	1,249,628
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June	16,535	715,966	508,549	13,565	9,465	1,264,080
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August	21,951	1,111,718	587,963	15,782	9,454	1,746,868
September	18,563	923,564	548,162	14,606	9,449	1,514,364
October	14,081	656,509	477,383	12,752	9,444	1,172,169
November	14,764	573,321	453,136	12,795	9,439	1,063,456
December	20,028	678,062	472,439	13,077	9,434	1,193,040
Total	241,080	9,055,708	6,027,080	167,099	113,545	15,607,512

Table #4

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

	On-Peak	Off/On Pk LMP ratio	Off-Peak	On-Peak	Off-Peak	Off-Peak
January	48.05	0.7756	37,268	91%	93%	93%
February	45.15	0.7756	35,019	91%	93%	93%
March	36.43	0.7756	28,256	91%	93%	93%
April	31.50	0.7756	24,432	91%	93%	93%
May	31.55	0.7756	24,471	91%	93%	93%
June	32.48	0.6401	20,792	92%	85%	85%
July	38.27	0.6401	24,498	92%	85%	85%
August	35.67	0.6401	22,834	92%	85%	85%
September	32.53	0.6401	20,824	92%	85%	85%
October	31.45	0.7756	24,393	91%	93%	93%
November	31.43	0.7756	24,378	91%	93%	93%
December	34.28	0.7756	26,588	91%	93%	93%

Table #5

	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL
Losses					
Loss Factors @ Bulk =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factors @ Bulk =	1.1800	1.1800	1.1800	1.1800	1.1800
Loss Factors @ Transmission Node =	9.8737%	9.8737%	9.8737%	9.8737%	9.8737%
Expansion Factors @ Transmission Node =	1.10955	1.10955	1.10955	1.10955	1.10955

(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)	OLSL
Summer - all hrs					
PJM on pk	\$ 28,874	\$ 28,897	\$ 29,828	\$ 29,671	\$ 24,934
PJM off pk	\$ 35,940	\$ 36,018	\$ 35,798	\$ 35,750	\$ 35,655
	\$ 21,325	\$ 21,348	\$ 21,286	\$ 21,252	\$ 21,222
Winter - all hrs					
PJM on pk	\$ 34,287	\$ 33,507	\$ 33,900	\$ 33,963	\$ 31,518
PJM off pk	\$ 38,405	\$ 37,732	\$ 37,159	\$ 37,415	\$ 37,258
	\$ 30,238	\$ 29,738	\$ 29,463	\$ 29,653	\$ 29,088
Annual	\$ 32,543	\$ 31,596	\$ 32,407	\$ 32,470	\$ 29,324
System Total	\$ 31.92				

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)	OLSL	Total
Summer - all hrs						
PJM on pk	\$ 2,242	\$ 108,538	\$ 65,899	\$ 1,724	\$ 943	\$ 179,347
PJM off pk	\$ 1,441	\$ 89,618	\$ 46,549	\$ 1,207	\$ 347	\$ 119,162
	\$ 800	\$ 38,920	\$ 19,350	\$ 518	\$ 596	\$ 60,185
Winter - all hrs						
PJM on pk	\$ 5,604	\$ 177,676	\$ 129,422	\$ 3,701	\$ 2,386	\$ 318,769
PJM off pk	\$ 3,111	\$ 94,332	\$ 81,787	\$ 2,284	\$ 839	\$ 182,332
	\$ 2,492	\$ 83,345	\$ 47,635	\$ 1,437	\$ 1,548	\$ 136,457
Annual	\$ 7,846	\$ 286,215	\$ 195,321	\$ 5,426	\$ 3,330	\$ 498,136
System Total	\$ 498,136					

**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)	OLSL
Summer - all hrs					
JCP&L On pk	\$ 28,874	\$ 28,897	\$ 29,828	\$ 29,671	\$ 24,834
JCP&L Off pk	\$ 37,871			\$ 37,539	
	\$ 22,657			\$ 22,811	
Winter - all hrs					
JCP&L On pk	\$ 34,287	\$ 33,507	\$ 33,900	\$ 33,963	\$ 31,518
JCP&L Off pk	\$ 42,272			\$ 38,438	
	\$ 29,889			\$ 30,455	
Annual Average System Average	\$ 31.92	\$ 32.543	\$ 31.596	\$ 32.407	\$ 32.470
					\$ 29.324

Table #10

Generation & Transmission Obligations and Costs and Other Adjustments
obligations - annual average forecasted for 2016, costs are market estimates
in MW

	RT(1)	RS(2)	GS(3)	GST (4)	OLSL	BGS-RSCP TOTAL
Gen Obl - MW	89.6	2,933.9	1,449.2	46.1	0.2	4,519.0

Trans Obl - MW Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes
of Months and Days used in this analysis

# of summer days =	122	# of summer months =	4
# of winter days =	243	# of winter months =	8
		total # months =	12

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

Generation Capacity cost	Summer \$ 115.15 \$/MWh/day	Winter \$ 115.15 \$/MWh/day	Summer Total \$ 63,493,846	Winter Total \$ 126,447,333	Annual Total \$ 189,931,179
--------------------------	-----------------------------	-----------------------------	----------------------------	-----------------------------	-----------------------------

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

Charges	Rate	% Usage
Block 1 (0-600 kWh/m)		52.35%
Block 2 (>600 kWh/m)		47.65%
Differential (Excl. SUT)	0.8652 \$/kWh	

Table #11

Ancillary Services	\$2.00 \$/MWh
Forecasted Ancillary Services Cost	\$19.17 \$/MWh
Renewable Portfolio Standard Cost	\$21.17 \$/MWh
Total Forecasted Ancillary Services & Renewable Power Costs	

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

	RT(1)	RS(2)	GS(3)	GST (4)	OLSL
Transmission Obl - all months	\$ 7,465	\$ 7,465	\$ 7,465	\$ 7,465	
Generation Obl \$/MWh - all months	\$ 15,619	\$ 13,812	\$ 10,106	\$ 11,588	\$ 0.067
Generation Obl \$/MWh - Summer - All Hours	\$ 16,210	\$ 10,973	\$ 9,215	\$ 23,909	\$ 0.067
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 39,669				
Generation Obl \$/MWh - Winter - All Hours	\$ 15,338	\$ 15,482	\$ 10,622	\$ 26,922	\$ 0.087
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 43,189				

**Jersey Central Power & Light
Attachment 2**

Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES <i>Includes energy, Generation and Transmission obligations, and Ancillary Services - adjusted to billing time periods in \$/MWh</i>					
	RT(1)	RS(2)	GS(3)	GST (4)	OL/SL
Summer - all hrs					
JCP&L On pk	\$ 76.22	\$ 71.00	\$ 70.18	\$ 92.58	\$ 48.67
JCP&L Off pk	\$ 108.67			\$ 53.94	
Block 1 (0-600 KWh/m)	\$ 53.79		\$ 66.88		
Block 2 (>600 KWh/m)		\$ 75.53			
Winter - all hrs					
JCP&L On pk	\$ 80.76	\$ 80.12	\$ 75.65	\$ 96.49	\$ 55.25
JCP&L Off pk	\$ 116.59			\$ 61.59	
	\$ 61.02				
Annual -all hrs	\$ 79.30	\$ 76.34	\$ 73.65	\$ 75.19	\$ 53.06
DEMAND RATES <i>Includes energy and Ancillary Services, G&T obligations charged separately - adjusted to billing time periods in \$/MWh</i>					

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	Total
Summer - all hrs						
JCP&L On pk	1,764,142		2,208,279,000		37,828,000	
JCP&L Off pk	31,007,842			27,068,178		
Block 1 (0-600 kWh/m)	44,871,016			31,051,822		
Block 2 (>600 kWh/m)		1,966,234,000				
		1,789,801,000				
Winter - all hrs						
JCP&L On pk	3,609,561	5,302,673,000	3,817,801,000		75,717,000	
JCP&L Off pk	56,758,897			47,882,798		
	103,086,542			61,095,202		
Summer Total	77,643,000	3,756,035,000	2,209,279,000	58,121,000	37,828,000	6,138,906,000
Winter Total	163,437,000	5,302,673,000	3,817,801,000	108,978,000	75,717,000	9,468,605,000
Annual Total	241,080,000	9,058,708,000	6,027,080,000	167,099,000	113,545,000	15,607,512,000

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						
JCP&L On pk	134		155,040	2,505	1,841	
JCP&L Off pk	3,370			1,675		
Block 1 (0-600 kWh/m)	2,414					
Block 2 (>600 kWh/m)		131,503				
		135,188				
Winter - all hrs						
JCP&L On pk	292	424,859	288,833	4,620	4,184	
JCP&L Off pk	6,618			3,763		
	6,289					
Total Costs - in \$1000						
Summer	5,918	286,691	155,040	4,181	1,841	433,671
Winter	13,199	424,859	288,833	8,383	4,184	739,458
Total	19,116	691,551	443,873	12,564	6,025	1,173,129
% of Annual Total \$						
Summer	31%	39%	35%	33%	31%	37%
Winter	69%	61%	65%	67%	69%	63%

**Jersey Central Power & Light
Attachment 2**

Table #16 & Table #17

Not Applicable to 2018/2019 BGS Supply Period

Table #18

Bulk System Costs

ALL RATES
Grand Total Cost in \$1000 = \$ 1,173,129
All-In Average costs @ bulk system = \$ 67.23 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	\$ 63.19 per MWh @ bulk system	<u>Ratio to All-In Cost (rounded to 4 decimal places)</u>
Winter	\$ 69.85 per MWh @ bulk system	Summer 0.9398
		Winter 1.0390

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

Summer	1.0000
Winter	1.0000

Assumptions:

Generation Capacity Cost = \$ 115.15 per MW day Summer
Transmission cost = \$ 115.15 per MW day Winter
Analysis time period = 4 summer months
8 winter months

Ancillary Services and Renewable Power Cost = \$ 21.17 per MWh
Energy Costs = based on 6/18 to 5/19 Forwards @ PJM West corrected for hub-zone basis differential
Usage patterns = forecasted 2018 energy use by class based upon PJM on/off % from 2015 through 2017 class load profiles
JCP&L billing on/off % from 2018 forecasted billing determinants

Obligations = class totals for 2018 excluding accounts required to take service under BGS-CIEP as of June 1, 2019
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
RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday.
JCP&L Billing time periods = 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
2019 BGS Auction Cost and Bid Factor Tables**

BGS-RSCP Composite Cost Allocation

Table #C1		Post Transition Year 15 Costs		Size of Tranches =		15	
in \$1,000's							
Total Costs by Rate - in \$1000		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		148					
JCP&L On pk	\$	4,035		\$ 169,196	\$ 2,912	\$ 2,096	
JCP&L Off pk	\$	2,346			\$ 1,624		
Block 1 (0-600 kWh/m)			\$ 144,626				
Block 2 (>600 kWh/m)			\$ 147,134				
Winter - all hrs							
JCP&L On pk	\$	289	\$ 423,243	\$ 282,721	\$ 4,989	\$ 4,086	
JCP&L Off pk	\$	7,286			\$ 3,162		
		5,497					
Total Costs - in \$1000							
Summer	\$	6,528	\$ 291,759	\$ 169,196	\$ 4,536	\$ 2,096	\$ 474,116
Winter	\$	13,072	\$ 423,243	\$ 282,721	\$ 8,152	\$ 4,086	\$ 731,273
Total	\$	19,600	\$ 715,003	\$ 451,916	\$ 12,688	\$ 6,182	\$ 1,205,389

Table #C2		Post Transition Year 16 Costs		Size of Tranches =		20	
in \$1,000's							
Total Costs by Rate - in \$1000		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		164					
JCP&L On pk	\$	4,747		\$ 177,735	\$ 3,277	\$ 1,801	
JCP&L Off pk	\$	2,316			\$ 1,611		
Block 1 (0-600 kWh/m)			\$ 154,239				
Block 2 (>600 kWh/m)			\$ 155,885				
Winter - all hrs							
JCP&L On pk	\$	312	\$ 454,967	\$ 292,829	\$ 5,535	\$ 3,396	
JCP&L Off pk	\$	8,419			\$ 3,090		
		5,387					
Total Costs - in \$1000							
Summer	\$	7,227	\$ 310,124	\$ 177,735	\$ 4,887	\$ 1,801	\$ 501,775
Winter	\$	14,117	\$ 454,967	\$ 292,829	\$ 8,625	\$ 3,396	\$ 773,935
Total	\$	21,345	\$ 765,091	\$ 470,564	\$ 13,512	\$ 5,197	\$ 1,275,710

{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 17 Costs in \$1,000's		Size of Tranches = <u>18</u>				
Total Costs by Rate - in \$1000		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		\$ 134		\$ 155,040	\$ 2,506	\$ 1,841
JCP&L On pk		\$ 3,370			\$ 1,675	
JCP&L Off pk		\$ 2,414				
Block 1 (0-600 kWh/m)			\$ 131,503			
Block 2 (>600 kWh/m)			\$ 135,188			
Winter - all hrs		\$ 292	\$ 424,859	\$ 288,833	\$ 4,620	\$ 4,184
JCP&L On pk		\$ 6,618			\$ 3,763	
JCP&L Off pk		\$ 6,289				
Total Costs - in \$1000		\$ 5,918	\$ 266,691	\$ 155,040	\$ 4,181	\$ 1,841
Summer		\$ 13,199	\$ 424,859	\$ 288,833	\$ 8,383	\$ 4,184
Winter		\$ 19,116	\$ 691,551	\$ 443,873	\$ 12,564	\$ 6,025
Total						\$ 1,173,129

Table #C4

Composite (Tranche Weighted) Costs in \$1,000's		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Total Costs by Rate - in \$1000						
Summer - all hrs		\$ 150		\$ 167,611	\$ 2,912	\$ 1,898
JCP&L On pk		\$ 4,078			\$ 1,636	
JCP&L Off pk		\$ 2,357				
Block 1 (0-600 kWh/m)			\$ 143,797			
Block 2 (>600 kWh/m)			\$ 146,379			
Winter - all hrs		\$ 298	\$ 435,763	\$ 288,611	\$ 5,070	\$ 3,859
JCP&L On pk		\$ 7,486			\$ 3,339	
JCP&L Off pk		\$ 5,725				
Total Costs - in \$1000		\$ 6,585	\$ 290,176	\$ 167,611	\$ 4,548	\$ 1,898
Summer		\$ 13,509	\$ 435,763	\$ 288,611	\$ 8,409	\$ 3,859
Winter		\$ 20,094	\$ 725,939	\$ 456,222	\$ 12,957	\$ 5,757
Total						\$ 1,220,969

**Jersey Central Power & Light
Attachment 2**

Table #C5

Units @ Customer
Forecasted 2018 in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs			2,209,279,000		37,828,000	
JCP&L On pk	1,764,142			27,069,178		
JCP&L Off pk	31,007,842			31,051,822		
Block 1 (0-600 kWh/m)	44,871,016					
Block 2 (>600 kWh/m)		1,966,234,000				
		1,789,801,000				
Winter - all hrs			3,817,801,000		75,717,000	
JCP&L On pk	3,609,561	5,302,673,000		47,882,798		
JCP&L Off pk	56,758,897			61,095,202		
	103,068,542					
Summer Total	77,643,000	3,756,035,000	2,209,279,000	58,121,000	37,828,000	6,136,906,000
Winter Total	163,437,000	5,302,673,000	3,817,801,000	108,978,000	75,717,000	9,468,606,000
Annual Total	241,080,000	9,058,708,000	6,027,080,000	167,099,000	113,545,000	15,607,512,000
Total						

Table #C6

Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

includes energy, Generation & 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			\$ 75.54	\$ 107.56	\$ 50.18
JCP&L On pk	\$ 84.81				
JCP&L Off pk	\$ 130.51			\$ 52.70	
Block 1 (0-600 kWh/m)	\$ 52.14	\$ 72.57			
Block 2 (>600 kWh/m)		\$ 81.15			
Winter - all hrs			\$ 75.27	\$ 105.88	\$ 50.96
JCP&L On pk	\$ 82.66	\$ 81.54			
JCP&L Off pk	\$ 130.90			\$ 54.65	
	\$ 55.12				
Annual -all hrs	\$ 82.72	\$ 79.52	\$ 75.37	\$ 77.54	\$ 50.70

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

ALL RATES

Grand Total Cost in \$1000 = \$ 1,220,968
 All-In Average costs @ bulk system = \$ 69.97 per MWh at bulk system (per bulk system metered MWh)
 All-In Average costs @ transmission nodes = \$ 70.51 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 <i>Includes Energy, Generation & Transmission obligations, and Ancillary Services - adjusted to billing time periods</i>					
	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs					
JCP&L On pk	1.203	1.087	1.071	1.526	0.712
JCP&L Off pk	1.851			0.747	
	0.740				
Winter - all hrs					
	Constant for Block 1 (0-600 kWh/m) usage (Excl. SUT)				
		(4.123)			
	Constant for Block 2 (>600 kWh/m) usage (Excl. SUT)				
		4.529			
JCP&L On pk	1.172	1.157	1.068	1.502	0.723
JCP&L Off pk	1.857			0.775	
	0.782				
Annual - all hrs	1.173	1.128	1.069	1.100	0.719