

March 18, 2024

via Electronic Submission

Sherri L. Golden, Secretary
Board of Public Utilities
44 South Clinton Ave., 9th Floor
PO Box 350
Trenton, NJ 08625-0350
board.secretary@bpu.nj.gov

RE: Jersey Central Power & Light Company
Tariff Compliance Filing
I/M/O The Provision of Basic Generation Service
For the Period Beginning June 1, 2024– Auction Results
Docket No. ER23030124

Dear Secretary Golden:

Pursuant to the Board of Public Utilities (“Board”) Order dated February 8, 2024 in the above-referenced docket, approving BGS auction results, enclosed for filing please find an electronic version of Jersey Central Power & Light Company’s (“JCP&L” or the “Company”) compliance filing.

At the Board’s meeting on February 8, 2024 the Board certified the final results of the BGS-RSCP and BGS-CIEP Auctions in their entirety, and approved the closing prices for each Electric Distribution Company (“EDC”). The EDCs were granted authorization to file the post-BGS Auction Tariff Sheets by March 18, 2024, one week after PJM posted the results of the Third Incremental RPM Auction (“3rd IA”) for the 2024/2025 delivery year.

This filing includes the following attachments:

Attachment 1 – Proposed tariff sheets effective June 1, 2024, reflecting the final auctions results for BGS-RSCP and BGS-CIEP.

Attachment 2 – The 2024 BGS Auction Cost and Bid Factor Tables for ratios used in developing Rider BGS-RSCP rates. These ratios were updated per JCP&L’s Company Specific Addendum Compliance Filing dated December 4, 2023.

Attachment 3 – The calculation of the composite BGS-RSCP wholesale price based on the BPU approved auction results from 2022, 2023 and 2024’s BGS RSCP auctions and the worksheet showing the derivation of the proposed Rider BGS-RSCP rates.

Attachment 4 – The calculation of the BGS Capacity Cost (\$/kWh) for BGS CIEP DCFC Accounts.

Attachment 5 – The PJM Zonal Net Price for delivery year 2024/2025 used in calculation of Capacity Proxy Price True-up.

However, on March 12, 2024, the United States Court of Appeals for the Third Circuit vacated The Federal Energy Regulatory Commission's orders that allowed PJM to retroactively adjust the results of the Base Residual Auction ("BRA") for the 2024/2025 delivery year. It is not clear how or if this legal action will affect the results of the BRA or 3rd IA for the 2024/2025 delivery year for the applicable JCP&L zone, and in turn, how or if this will affect the value of the capacity proxy price true-up incorporated in the attached post-BGS Auction Tariffs. Any such changes may require subsequent action by the Company.

In accordance with the Board's Order in Docket No. EO20030254, dated March 19, 2020, JCP&L is providing this filing by electronic mail only. No physical copies will follow. Please kindly confirm your receipt and acceptance of this filing by electronic mail at your earliest convenience.

Should you have any questions regarding this compliance filing, please do not hesitate to contact me.

Sincerely,



Mark A. Mader
Director
Rates & Regulatory Affairs - NJ

Enclosure

cc: (Electronic Mail)
Service List

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 13 ELECTRIC - PART III

XX Rev. Sheet No. 41
Superseding XX Rev. Sheet No. 41

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

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

AVAILABILITY: Rider BGS-RSCP is available to and provides Basic Generation Service (default service) charges applicable to all KWH usage for Full Service Customers taking service at secondary voltages under Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED, except for GS and GST customers that have a peak load share of 500 KW or greater as of **November 1, 2023**. 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, 2024 through **May 31, 2025**)**

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	\$0.092332	
- all KWH over 600	\$0.101557	
- all KWH		\$0.101010
(Excludes off-peak and controlled water heating special provisions)		
RT - all on-peak KWH	\$0.128389	\$0.128478
- all off-peak KWH	\$0.072922	\$0.078682
RGT - all on-peak KWH	\$0.128389	
- all off-peak KWH	\$0.072922	
- all KWH		\$0.101010
RS and GS Water Heating – all KWH	\$0.096668	\$0.097112
(For separately metered off-peak and controlled water heating usage under applicable special provisions)		
GS - all KWH	\$0.095517	\$0.095073
(Excludes off-peak and controlled water heating special provisions)		
GST - all on-peak KWH	\$0.117580	\$0.115541
- all off-peak KWH	\$0.073100	\$0.078682
OL, SVL, MVL, ISL, LED - all KWH	\$0.080188	\$0.082935

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

Issued: _____ Effective: **June 1, 2024**

Filed pursuant to **Order of Board of Public Utilities**
Docket No. ER23030124 dated February 8, 2024

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, 2023**, 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, 2024** through **May 31, 2025**)

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: **\$0.35714** 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.

Alternative BGS Capacity Charge per KWH: \$0.042289 (includes Sales and Use Tax as provided in Rider SUT): For customer who operates Direct Current Fast Charging to serve electric vehicles only and who elects this one-time option before June 1, 2024.

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

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

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BPU No. 13 ELECTRIC - PART III

XX Rev. Sheet No. 45
Superseding XX Rev. Sheet No. 45

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

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

APPLICABILITY: Rider CIEP – Standby Fee provides a charge applicable to all KWH usage of all Full Service Customers or Delivery Service Customers taking service under Service Classifications GP and GT and any Full Service Customer or Delivery Service Customer taking service under Service Classifications GS and GST that has a peak load share of 500 KW or greater as of **November 1, 2023**, 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, 2024** through **May 31, 2025** to recover costs associated with administrating and maintaining the availability of the hourly-priced default Basic Generation Service for these customers.

CIEP – Standby Fee per KWH: \$0.000150

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

Issued:

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**Jersey Central Power & Light
Attachment 2
2024 BGS Auction Cost and Bid Factor Tables**

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

**Development of Post Transition Period BGS Cost and Bid Factors
Adjusted to Billing Time Periods**

Table #1

% Usage During PJM On-Peak Period

*Based on an average of 2020 to 2022 Load Profile Information
On-Peak periods defined as the 16 hr PJM 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
<i>(data rounded to nearest .01 %)</i>					
January	46.08%	48.23%	54.60%	52.12%	32.53%
February	46.92%	49.78%	56.10%	53.71%	30.88%
March	49.28%	52.27%	60.07%	55.25%	31.86%
April	49.68%	52.24%	59.54%	54.74%	31.84%
May	44.34%	45.72%	55.26%	51.89%	28.35%
June	54.61%	55.52%	59.86%	57.69%	30.94%
July	52.60%	52.04%	56.91%	54.34%	28.33%
August	53.62%	54.35%	58.59%	55.52%	29.87%
September	49.14%	50.20%	58.66%	55.27%	31.40%
October	47.30%	49.80%	57.30%	54.15%	32.31%
November	46.37%	49.33%	56.98%	53.45%	32.34%
December	48.79%	50.61%	57.23%	53.99%	34.03%

Table #2

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

	2023 Forecasted Calendar Month Sales	N/A	N/A	2023 Forecasted Calendar Month Sales	N/A
	RT{1}	RS{2}	GS{3}	GST	OL/SL
<i>(data rounded to nearest .01 %)</i>					
January	35.79%	----	----	41.58%	----
February	35.08%	----	----	42.00%	----
March	35.05%	----	----	42.03%	----
April	35.90%	----	----	42.09%	----
May	37.88%	----	----	43.31%	----
June	40.58%	----	----	44.68%	----
July	42.01%	----	----	45.20%	----
August	42.49%	----	----	44.81%	----
September	41.68%	----	----	45.31%	----
October	38.40%	----	----	44.94%	----
November	35.99%	----	----	44.04%	----
December	35.91%	----	----	42.20%	----

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

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

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

**Jersey Central Power & Light
Attachment 2**

Table #3 **Class Usage @ customer**
*calendar month sales forecasted for 2024
in MWh*

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	19,988	843,633	500,005	13,022	11,325	1,387,973
February	20,407	815,975	513,439	12,381	11,326	1,373,528
March	18,383	744,210	512,021	8,134	11,328	1,294,076
April	14,553	628,002	476,653	11,697	11,329	1,142,234
May	11,833	571,865	453,306	8,727	11,331	1,057,062
June	13,312	761,373	491,253	15,882	11,332	1,293,152
July	16,459	1,076,835	533,229	11,281	11,333	1,649,137
August	17,740	1,206,905	596,061	15,170	11,334	1,847,210
September	15,822	1,048,951	534,312	12,931	11,336	1,623,352
October	10,836	686,079	450,741	9,761	11,337	1,168,754
November	10,921	584,113	441,595	12,296	11,339	1,060,264
December	15,498	694,392	464,028	13,838	11,338	1,199,094
Total	185,752	9,662,333	5,966,643	145,120	135,988	16,095,836

Table #4 **Forwards Prices - Energy Only @ bulk system**
in \$/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	67.200	72.263	51.855	55.761
February	63.000	67.746	48.614	52.276
March	45.200	48.605	34.879	37.507
April	40.800	43.874	31.484	33.856
May	40.900	43.981	31.561	33.939
June	44.350	57.762	29.642	38.606
July	50.800	66.162	33.953	44.221
August	47.550	61.930	31.781	41.392
September	45.450	59.195	30.377	39.563
October	45.050	48.444	34.763	37.382
November	46.600	50.111	35.959	38.668
December	48.900	52.584	37.734	40.577

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

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

Table #6

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

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

**Jersey Central Power & Light
Attachment 2**

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		\$ 51.273	\$ 51.439	\$ 52.363	\$ 51.505	\$ 46.646	
	PJM on pk	\$ 60.777	\$ 60.843	\$ 60.595	\$ 60.203	\$ 60.443	
	PJM off pk	\$ 40.792	\$ 40.879	\$ 40.768	\$ 40.505	\$ 40.695	
Winter - all hrs		\$ 49.029	\$ 48.696	\$ 48.685	\$ 48.900	\$ 45.848	
	PJM on pk	\$ 54.392	\$ 53.785	\$ 52.864	\$ 53.581	\$ 52.824	
	PJM off pk	\$ 44.189	\$ 43.648	\$ 43.112	\$ 43.485	\$ 42.601	
Annual		\$ 49.794	\$ 49.858	\$ 50.013	\$ 49.892	\$ 46.114	
System Total	\$						49.88

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		\$ 3,247	\$ 210,595	\$ 112,835	\$ 2,846	\$ 2,115	\$ 331,638
	PJM on pk	\$ 2,019	\$ 131,762	\$ 76,361	\$ 1,858	\$ 826	\$ 212,826
	PJM off pk	\$ 1,229	\$ 78,833	\$ 36,474	\$ 988	\$ 1,289	\$ 118,812
Winter - all hrs		\$ 6,002	\$ 271,151	\$ 185,577	\$ 4,394	\$ 4,156	\$ 471,281
	PJM on pk	\$ 3,159	\$ 149,136	\$ 115,158	\$ 2,582	\$ 1,521	\$ 271,556
	PJM off pk	\$ 2,843	\$ 122,015	\$ 70,419	\$ 1,812	\$ 2,635	\$ 199,725
Annual		\$ 9,249	\$ 481,746	\$ 298,412	\$ 7,240	\$ 6,271	\$ 802,919
System Total	\$						802,919

**Jersey Central Power & Light
Attachment 2**

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 51.273	\$ 51.439	\$ 52.363	\$ 51.505	\$ 46.646
JCP&L On pk	\$ 63.339			\$ 62.585	
JCP&L Off pk	\$ 42.620			\$ 42.451	
Winter - all hrs	\$ 49.029	\$ 48.696	\$ 48.685	\$ 48.900	\$ 45.848
JCP&L On pk	\$ 55.526			\$ 54.872	
JCP&L Off pk	\$ 45.368			\$ 44.447	
Annual Average	\$ 49.794	\$ 49.858	\$ 50.013	\$ 49.892	\$ 46.114
System Average	\$ 49.88				

Table #10 **Generation & Transmission Obligations and Costs and Other Adjustments**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	49.6	3,492.1	1,195.1	23.6	0.0	4,760.5

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

of Months and Days used in this analysis

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

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

		Initial	Adjusted		
Generation Capacity cost	Summer	\$ 97.93	105.308 \$/MW/day	Summer Total	\$ 61,160,606
	Winter	\$ 97.93	105.308 \$/MW/day	Winter Total	\$ 121,819,895
				Annual Total	\$ 182,980,501

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

Charges	Rate	% usage
Block 1 (0-600 kWh/m)		48.19%
Block 2 (>600 kWh/m)		51.81%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 **Ancillary Services**
Forecasted Ancillary Services Cost
Renewable Portfolio Standard Cost
forecasted overall annual average

	Initial	Adjusted
Forecasted Ancillary Services Cost	\$2.00	
Renewable Portfolio Standard Cost	\$16.09	
forecasted overall annual average	\$18.09	19.453 \$/MWh

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	\$ -	\$ -	\$ -	\$ -	\$ -
Generation Obl \$/MWh - all months	\$ 10.274	\$ 13.892	\$ 7.699	\$ 6.242	\$ 0.012
Generation Obl \$/MWh - Summer - All Hours	\$ 10.072	\$ 10.959	\$ 7.125	\$ -	\$ 0.012
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 24.117			\$ 12.184	
Generation Obl \$/MWh - Winter - All Hours	\$ 10.378	\$ 16.049	\$ 8.023	\$ -	\$ 0.012
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 28.797			\$ 15.715	

**Jersey Central Power & Light
Attachment 2**

Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}		RS{2}		GS{3}		GST {4}		OL/SL
Summer - all hrs	\$ 83.09	\$	84.15	\$	81.24			\$	68.41
JCP&L On pk	\$ 109.20					\$	96.52		
JCP&L Off pk	\$ 64.37					\$	64.20		
Block 1 (0-600 kWh/m)		\$	79.66						
Block 2 (>600 kWh/m)		\$	88.32						
Winter - all hrs	\$ 81.16	\$	86.49	\$	78.46			\$	67.61
JCP&L On pk	\$ 106.07					\$	92.34		
JCP&L Off pk	\$ 67.12					\$	66.20		
Annual -all hrs	\$ 81.82	\$	85.50	\$	79.46	\$	77.88	\$	67.87

DEMAND RATES

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

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

**Jersey Central Power & Light
Attachment 2**

Table #14

Units @ Customer

in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	1,986,543		2,154,855,000		45,335,000	
JCP&L On pk	25,620,581			24,851,803		
JCP&L Off pk	35,725,876			30,412,197		
Block 1 (0-600 kWh/m)		1,972,747,000				
Block 2 (>600 kWh/m)		2,121,317,000				
Winter - all hrs	4,931,842	5,568,269,000	3,811,788,000		90,653,000	
JCP&L On pk	42,337,877			38,377,607		
JCP&L Off pk	75,149,281			51,478,393		
						Total
Summer Total	63,333,000	4,094,064,000	2,154,855,000	55,264,000	45,335,000	6,412,851,000
Winter Total	<u>122,419,000</u>	<u>5,568,269,000</u>	<u>3811788000</u>	<u>89856000</u>	<u>90653000</u>	<u>9,682,985,000</u>
Annual Total	185,752,000	9,662,333,000	5,966,643,000	145,120,000	135,988,000	16,095,836,000

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	\$ 165		\$ 175,054		\$ 3,101	
JCP&L On pk	\$ 2,798			\$ 2,399		
JCP&L Off pk	\$ 2,300			\$ 1,952		
Block 1 (0-600 kWh/m)		\$ 157,155				
Block 2 (>600 kWh/m)		\$ 187,344				
Winter - all hrs	\$ 400	\$ 481,615	\$ 299,060		\$ 6,129	
JCP&L On pk	\$ 4,491			\$ 3,544		
JCP&L Off pk	\$ 5,044			\$ 3,408		
Total Costs - in \$1000						
Summer	\$ 5,263	\$ 344,500	\$ 175,054	\$ 4,351	\$ 3,101	\$ 532,268
Winter	\$ 9,935	\$ 481,615	\$ 299,060	\$ 6,951	\$ 6,129	\$ 803,690
Total	\$ 15,197	\$ 826,115	\$ 474,114	\$ 11,302	\$ 9,230	\$ 1,335,959
% of Annual Total \$						
Summer	35%	42%	37%	38%	34%	40%
Winter	65%	58%	63%	62%	66%	60%

**Jersey Central Power & Light
Attachment 2**

Table #16

Customer & Bulk System Costs

Customer Costs Per Allocation Matrix

Grand Total Cost in \$1000 = \$ 1,335,959

Seasonal Units	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer	70,806	4,577,160	2,409,126	61,785	50,684	7,169,561
Winter	136,864	6,225,320	4,261,576	100,459	101,350	10,825,569

Supplier Payment in \$1000

2022 Auction with Capacity Proxy True-Up

	Seasonal Factor	Price per MWH #REF!	Units	Payment #REF!
Seasonally Adjusted Summer Payment	1.0000	#REF!	7,169,561	#REF!
Seasonally Adjusted Winter Payment	1.0000	#REF!	10,825,569	#REF!
Total Supplier Payment				#REF!

Table #17

Adjustment Factor Calculation

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):	Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer \$ 74.24 per MWh @ bulk system	#REF!	#REF!	1.302410
Winter \$ 74.24 per MWh @ bulk system	#REF!	#REF!	1.075335

Assumptions:

- Generation Capacity Cost = \$ 105.31 per MW day Summer
- \$ 105.31 per MW day Winter
- Transmission cost = Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.
- Analysis time period = 4 summer months
- 8 winter months
- Ancillary Services = \$ 19.45 per MWh
- Energy Costs = Based on Forwards prices @ PJM West corrected for hub-zone basis differential (both based on the figures used to derive the Bid Factors and establish retail rates in Post Transition Year 20 and adjusted to match the total cost at the actual supplier bid price.
- Usage patterns = forecasted 2023 energy use by class based upon PJM on/off % from 2020 through 2022 class load profiles
- JCP&L billing on/off % from 2023 forecasted billing determinants
- Obligations = class totals for 2024 excluding accounts required to take service under BGS-CIEP as of June 1, 2024
- 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
2024 BGS Auction Cost and Bid Factor Tables**

2023/2024 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 2020 to 2022 Load Profile Information
On-Peak periods defined as the 16 hr PJM Trading period, adj for NERC holidays*

(data rounded to nearest .01 %)	Profile Meter Data	Profile Meter Data	Profile Meter Data	Profile Meter Data	Other Analysis
	RT{1}	RS{2}	GS{3}	GST	OL/SL
January	46.08%	48.23%	54.60%	52.12%	32.53%
February	46.92%	49.78%	56.10%	53.71%	30.88%
March	49.28%	52.27%	60.07%	55.25%	31.86%
April	49.68%	52.24%	59.54%	54.74%	31.84%
May	44.34%	45.72%	55.26%	51.89%	28.35%
June	54.61%	55.52%	59.86%	57.69%	30.94%
July	52.60%	52.04%	56.91%	54.34%	28.33%
August	53.62%	54.35%	58.59%	55.52%	29.87%
September	49.14%	50.20%	58.66%	55.27%	31.40%
October	47.30%	49.80%	57.30%	54.15%	32.31%
November	46.37%	49.33%	56.98%	53.45%	32.34%
December	48.79%	50.61%	57.23%	53.99%	34.03%

Table #2

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

(data rounded to nearest .01 %)	2023 Forecasted	N/A	N/A	2023 Forecasted	N/A
	Sales Calendar Month RT{1}	RS{2}	GS{3}	Sales Calendar Month GST	OL/SL
January	35.79%	---	---	41.58%	---
February	35.08%	---	---	42.00%	---
March	35.05%	---	---	42.03%	---
April	35.90%	---	---	42.09%	---
May	37.88%	---	---	43.31%	---
June	40.58%	---	---	44.68%	---
July	42.01%	---	---	45.20%	---
August	42.49%	---	---	44.81%	---
September	41.68%	---	---	45.31%	---
October	38.40%	---	---	44.94%	---
November	35.99%	---	---	44.04%	---
December	35.91%	---	---	42.20%	---

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

**Jersey Central Power & Light
Attachment 2**

Table #3 **Class Usage @ customer**
calendar month sales forecasted for 2024
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	19,988	843,633	500,005	13,022	11,325	1,387,973
February	20,407	815,975	513,439	12,381	11,326	1,373,528
March	18,383	744,210	512,021	8,134	11,328	1,294,076
April	14,553	628,002	476,653	11,697	11,329	1,142,234
May	11,833	571,865	453,306	8,727	11,331	1,057,062
June	13,312	761,373	491,253	15,882	11,332	1,293,152
July	16,459	1,076,835	533,229	11,281	11,333	1,649,137
August	17,740	1,206,905	596,061	15,170	11,334	1,847,210
September	15,822	1,048,951	534,312	12,931	11,336	1,623,352
October	10,836	686,079	450,741	9,761	11,337	1,168,754
November	10,921	584,113	441,595	12,296	11,339	1,060,264
December	15,498	694,392	464,028	13,838	11,338	1,199,094
Total	185,752	9,662,333	5,966,643	145,120	135,988	16,095,836

Table #4 **Forwards Prices - Energy Only @ bulk system**
in \$/MWh

	Initial On-Peak	Adjusted On-Peak	Initial Off-Peak	Adjusted Off-Peak
January	105.85	149.043	35.019	49.309
February	98.35	138.483	33.005	46.473
March	56.95	80.189	26.767	37.690
April	50.35	70.896	23.491	33.077
May	50.45	71.037	23.885	33.632
June	59.30	92.459	20.359	31.743
July	77.45	120.758	24.478	38.166
August	68.60	106.960	22.401	34.927
September	55.65	86.768	21.229	33.100
October	49.80	70.122	23.806	33.520
November	52.90	74.487	24.043	33.854
December	69.95	98.494	25.701	36.189

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

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

Table #6

Losses	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors =	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 =	9.7690%	9.7690%	9.7690%	9.7690%	9.7690%
Expansion Factor to Transmission Nodes =	1.10827	1.10827	1.10827	1.10827	1.10827

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

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		\$ 66.581	\$ 66.970	\$ 69.815	\$ 67.494	\$ 52.531	
	PJM on pk	\$ 95.501	\$ 95.626	\$ 94.776	\$ 93.699	\$ 94.165	
	PJM off pk	\$ 34.689	\$ 34.791	\$ 34.656	\$ 34.351	\$ 34.572	
Winter - all hrs		\$ 65.065	\$ 64.963	\$ 67.182	\$ 66.541	\$ 54.101	
	PJM on pk	\$ 93.429	\$ 91.201	\$ 88.659	\$ 90.672	\$ 88.373	
	PJM off pk	\$ 39.467	\$ 38.938	\$ 38.541	\$ 38.631	\$ 38.144	
Annual		\$ 65.582	\$ 65.814	\$ 68.133	\$ 66.904	\$ 53.577	
System Total	\$ 66.58						

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		\$ 4,217	\$ 274,181	\$ 150,441	\$ 3,730	\$ 2,381	\$ 434,951
	PJM on pk	\$ 3,172	\$ 207,089	\$ 119,435	\$ 2,892	\$ 1,286	\$ 333,875
	PJM off pk	\$ 1,045	\$ 67,092	\$ 31,006	\$ 838	\$ 1,095	\$ 101,076
Winter - all hrs		\$ 7,965	\$ 361,734	\$ 256,085	\$ 5,979	\$ 4,904	\$ 636,668
	PJM on pk	\$ 5,426	\$ 252,886	\$ 193,131	\$ 4,370	\$ 2,545	\$ 458,358
	PJM off pk	\$ 2,540	\$ 108,848	\$ 62,954	\$ 1,610	\$ 2,359	\$ 178,310
Annual		\$ 12,182	\$ 635,916	\$ 406,526	\$ 9,709	\$ 7,286	\$ 1,071,618
System Total	\$ 1,071,618						

**Jersey Central Power & Light
Attachment 2**

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 66.581	\$ 66.970	\$ 69.815	\$ 67.494	\$ 52.531
JCP&L On pk	\$ 103.286			\$ 100.876	
JCP&L Off pk	\$ 40.260			\$ 40.215	
Winter - all hrs	\$ 65.065	\$ 64.963	\$ 67.182	\$ 66.541	\$ 54.101
JCP&L On pk	\$ 102.381			\$ 97.326	
JCP&L Off pk	\$ 44.039			\$ 43.591	
Annual Average System Average	\$ 65.582	\$ 65.814	\$ 68.133	\$ 66.904	\$ 53.577
System Average	\$ 66.58				

Table #10 Generation & Transmission Obligations and Costs and Other Adjustments
obligations - annual average forecasted for 2024; costs are market estimates
in MW

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	49.6	3,492.1	1,195.1	23.6	0.0	4,760.5

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

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

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

	Initial	Adjusted		Summer Total	Winter Total
Generation Capacity cost	\$ 50.96	71.755 \$/MW/day	Summer	\$ 41,673,750	
	\$ 50.96	71.755 \$/MW/day	Winter		\$ 83,005,912

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

Charges	Rate	% usage
Block 1 (0-600 kWh/m)		48.19%
Block 2 (>600 kWh/m)		51.81%
Differential (Excl. SUT)	0.8652 ¢/kWh	

Table #11 Ancillary Services

	Initial	Adjusted
Forecasted Ancillary Services Cost	\$2.00	\$/MWh
Renewable Portfolio Standard Cost	\$16.92	\$/MWh
forecasted overall annual average	\$18.92	\$26.641 \$/MWh

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	\$ -	\$ -	\$ -	\$ -	\$ -
Generation Obl \$/MWh - all months	\$ 7.000	\$ 9.466	\$ 5.246	\$ 4.253	\$ 0.008
Generation Obl \$/MWh - Summer - All Hours	\$ 6.863	\$ 7.467	\$ 4.855	\$ -	\$ 0.008
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 16.433			\$ 8.302	
Generation Obl \$/MWh - Winter - All Hours	\$ 7.072	\$ 10.935	\$ 5.467	\$ -	\$ 0.008
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 19.622			\$ 10.708	

**Jersey Central Power & Light
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Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 103.23	\$ 104.22	\$ 104.45		\$ 82.32
JCP&L On pk	\$ 149.50			\$ 138.96	
JCP&L Off pk	\$ 70.05			\$ 70.00	
Block 1 (0-600 kWh/m)		\$ 99.74			
Block 2 (>600 kWh/m)		\$ 108.39			
Winter - all hrs	\$ 101.92	\$ 105.68	\$ 102.43		\$ 83.89
JCP&L On pk	\$ 151.79			\$ 137.82	
JCP&L Off pk	\$ 73.82			\$ 73.38	
Annual -all hrs	\$ 102.37	\$ 105.06	\$ 103.16	\$ 100.94	\$ 83.37

DEMAND RATES

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

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

**Jersey Central Power & Light
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Table #14

**Units @ Customer
in kWh**

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	1,986,543		2,154,855,000			45,335,000
JCP&L On pk	25,620,581			24,851,803		
JCP&L Off pk	35,725,876			30,412,197		
Block 1 (0-600 kWh/m)		1,972,747,000				
Block 2 (>600 kWh/m)		2,121,317,000				
Winter - all hrs	4,931,842	5,568,269,000	3,811,788,000			90,653,000
JCP&L On pk	42,337,877			38,377,607		
JCP&L Off pk	75,149,281			51,478,393		
Summer Total	63,333,000	4,094,064,000	2,154,855,000	55,264,000	45,335,000	6,412,851,000
Winter Total	<u>122,419,000</u>	<u>5,568,269,000</u>	<u>3,811,788,000</u>	<u>89856000</u>	<u>90653000</u>	<u>9,682,985,000</u>
Annual Total	185,752,000	9,662,333,000	5,966,643,000	145,120,000	135,988,000	16,095,836,000

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	\$ 205		\$ 225,085		\$ 3,732	
JCP&L On pk	\$ 3,830			\$ 3,453		
JCP&L Off pk	\$ 2,502			\$ 2,129		
Block 1 (0-600 kWh/m)		\$ 196,760				
Block 2 (>600 kWh/m)		\$ 229,932				
Winter - all hrs	\$ 503	\$ 588,473	\$ 390,456		\$ 7,605	
JCP&L On pk	\$ 6,426			\$ 5,289		
JCP&L Off pk	\$ 5,548			\$ 3,777		
Total Costs - in \$1000						
Summer	\$ 6,538	\$ 426,692	\$ 225,085	\$ 5,582	\$ 3,732	\$ 667,629
Winter	\$ 12,477	\$ 588,473	\$ 390,456	\$ 9,066	\$ 7,605	\$ 1,008,077
Total	\$ 19,015	\$ 1,015,165	\$ 615,540	\$ 14,649	\$ 11,337	\$ 1,675,706
% of Annual Total \$						
Summer	34%	42%	37%	38%	33%	40%
Winter	66%	58%	63%	62%	67%	60%

**Jersey Central Power & Light
Attachment 2**

Table #16 Customer & Bulk System Costs

Customer Costs Per Allocation Matrix

Grand Total Cost in \$1000 = \$ 1,675,706

Seasonal Units	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer	70,806	4,577,160	2,409,126	61,785	50,684	7,169,561
Winter	136,864	6,225,320	4,261,576	100,459	101,350	10,825,569

Supplier Payment in \$1000

2023 Auction with Capacity Proxy True-Up

	Seasonal Factor	Price per MWH #REF!	Units	Payment
Seasonally Adjusted Summer Payment	1.0000	#REF!	7,169,561	#REF!
Seasonally Adjusted Winter Payment	1.0000	#REF!	10,825,569	#REF!
Total Supplier Payment				#REF!

Table #17 Adjustment Factor Calculation

Allocated Customer Costs on a per MWh basis (on bulk system MWhs):	Seasonal Supplier Payment	Adjustment Factor Calculation	Adjustment Factor
Summer \$ 93.12 per MWh @ bulk system	#REF!	#REF!	1.559178
Winter \$ 93.12 per MWh @ bulk system	#REF!	#REF!	1.408063

Assumptions:

- Generation Capacity Cost = \$ 71.76 per MW day Summer
- \$ 71.76 per MW day Winter
- Transmission cost = Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.
- Analysis time period = 4 summer months
8 winter months
- Ancillary Services = \$ 26.64 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 21 and adjusted to match the total cost at the actual supplier bid price.
- Usage patterns = forecasted 2023 energy use by class based upon PJM on/off % from 2020 through 2022 class load profiles
JCP&L billing on/off % from 2023 forecasted billing determinants
- Obligations = class totals for 2024 excluding accounts required to take service under BGS-CIEP as of June 1, 2024
- 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
2024 BGS Auction Cost and Bid Factor Tables**

2024/20205 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 2020 to 2022 Load Profile Information

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

	Profile Meter			Profile Meter	
	Data RT{1}	Profile Meter Data RS{2}	Profile Meter Data GS{3}	Data GST	Other Analysis OL/SL
<i>(data rounded to nearest .01 %)</i>					
January	46.08%	48.23%	54.60%	52.12%	32.53%
February	46.92%	49.78%	56.10%	53.71%	30.88%
March	49.28%	52.27%	60.07%	55.25%	31.86%
April	49.68%	52.24%	59.54%	54.74%	31.84%
May	44.34%	45.72%	55.26%	51.89%	28.35%
June	54.61%	55.52%	59.86%	57.69%	30.94%
July	52.60%	52.04%	56.91%	54.34%	28.33%
August	53.62%	54.35%	58.59%	55.52%	29.87%
September	49.14%	50.20%	58.66%	55.27%	31.40%
October	47.30%	49.80%	57.30%	54.15%	32.31%
November	46.37%	49.33%	56.98%	53.45%	32.34%
December	48.79%	50.61%	57.23%	53.99%	34.03%

Table #2

% Usage During JCP&L On-Peak Billing Period

On-Peak periods as defined in specified rate schedule

	2023 Forecasted Calendar Month			2023 Forecasted Calendar Month		
	Sales RT{1}	N/A RS{2}	N/A GS{3}	Sales GST	N/A OL/SL	
<i>(data rounded to nearest .01 %)</i>						
January	35.79%	----	----	41.58%	----	
February	35.08%	----	----	42.00%	----	
March	35.05%	----	----	42.03%	----	
April	35.90%	----	----	42.09%	----	
May	37.88%	----	----	43.31%	----	
June	40.58%	----	----	44.68%	----	
July	42.01%	----	----	45.20%	----	
August	42.49%	----	----	44.81%	----	
September	41.68%	----	----	45.31%	----	
October	38.40%	----	----	44.94%	----	
November	35.99%	----	----	44.04%	----	
December	35.91%	----	----	42.20%	----	

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

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

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

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Table #3 **Class Usage @ customer**
calendar month sales forecasted for 2024
in MWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
January	19,988	843,633	500,005	13,022	11,325	1,387,973
February	20,407	815,975	513,439	12,381	11,326	1,373,528
March	18,383	744,210	512,021	8,134	11,328	1,294,076
April	14,553	628,002	476,653	11,697	11,329	1,142,234
May	11,833	571,865	453,306	8,727	11,331	1,057,062
June	13,312	761,373	491,253	15,882	11,332	1,293,152
July	16,459	1,076,835	533,229	11,281	11,333	1,649,137
August	17,740	1,206,905	596,061	15,170	11,334	1,847,210
September	15,822	1,048,951	534,312	12,931	11,336	1,623,352
October	10,836	686,079	450,741	9,761	11,337	1,168,754
November	10,921	584,113	441,595	12,296	11,339	1,060,264
December	15,498	694,392	464,028	13,838	11,338	1,199,094
Total	185,752	9,662,333	5,966,643	145,120	135,988	16,095,836

Table #4 **Forwards Prices - Energy Only @ bulk system**
in \$/MWh

	On-Peak	Off/On Pk LMP ratio	Off-Peak
January	61.55	0.8179	50.343
February	55.70	0.8179	45.558
March	48.20	0.8179	39.424
April	45.50	0.8179	37.215
May	47.90	0.8179	39.178
June	45.25	0.6246	28.265
July	59.80	0.6246	37.353
August	53.90	0.6246	33.668
September	46.20	0.6246	28.858
October	44.45	0.8179	36.357
November	45.95	0.8179	37.583
December	52.15	0.8179	42.655

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

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

Table #6

Losses	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Loss Factors @ Bulk =	10.5545%	10.5545%	10.5545%	10.5545%	10.5545%
Expansion Factors @ Bulk =	1.11800	1.11800	1.11800	1.11800	1.11800
Loss Factors @ Transmission Node =	9.7013%	9.7013%	9.7013%	9.7013%	9.7013%
Expansion Factors @ Transmission Node =	1.10744	1.10744	1.10744	1.10744	1.10744

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

**Jersey Central Power & Light
Attachment 2**

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		\$ 40,854	\$ 41,059	\$ 41,626	\$ 40,675	\$ 36,950	
	PJM on pk	\$ 48,531	\$ 48,647	\$ 48,198	\$ 47,573	\$ 47,892	
	PJM off pk	\$ 32,387	\$ 32,538	\$ 32,370	\$ 31,950	\$ 32,230	
Winter - all hrs		\$ 44,563	\$ 44,281	\$ 44,299	\$ 44,395	\$ 42,819	
	PJM on pk	\$ 47,293	\$ 46,865	\$ 46,441	\$ 46,780	\$ 46,401	
	PJM off pk	\$ 42,098	\$ 41,718	\$ 41,442	\$ 41,637	\$ 41,151	
Annual		\$ 43,298	\$ 42,916	\$ 43,334	\$ 42,978	\$ 40,862	
System Total	\$	43.06					

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	Total
Summer - all hrs		\$ 2,587	\$ 168,098	\$ 89,699	\$ 2,248	\$ 1,675	\$ 264,308
	PJM on pk	\$ 1,612	\$ 105,352	\$ 60,738	\$ 1,468	\$ 654	\$ 169,825
	PJM off pk	\$ 975	\$ 62,747	\$ 28,960	\$ 780	\$ 1,021	\$ 94,483
Winter - all hrs		\$ 5,455	\$ 246,568	\$ 168,858	\$ 3,989	\$ 3,882	\$ 428,752
	PJM on pk	\$ 2,746	\$ 129,949	\$ 101,165	\$ 2,254	\$ 1,336	\$ 237,451
	PJM off pk	\$ 2,709	\$ 116,619	\$ 67,693	\$ 1,735	\$ 2,545	\$ 191,301
Annual		\$ 8,043	\$ 414,667	\$ 258,556	\$ 6,237	\$ 5,557	\$ 693,060
System Total	\$	693,060					

**Jersey Central Power & Light
Attachment 2**

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 40.854	\$ 41.059	\$ 41.626	\$ 40.675	\$ 36.950
JCP&L On pk	\$ 50.600			\$ 49.462	
JCP&L Off pk	\$ 33.864			\$ 33.494	
Winter - all hrs	\$ 44.563	\$ 44.281	\$ 44.299	\$ 44.395	\$ 42.819
JCP&L On pk	\$ 49.449			\$ 47.437	
JCP&L Off pk	\$ 41.810			\$ 42.127	
Annual Average	\$ 43.298	\$ 42.916	\$ 43.334	\$ 42.978	\$ 40.862
System Average	\$ 43.06				

Table #10 Generation & Transmission Obligations and Costs and Other Adjustments

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	BGS-RSCP TOTAL
Gen Obl - MW	49.6	3,492.1	1,195.1	23.6	0.0	4,760.5
Trans Obl - MW	Not applicable for JCP&L - Transmission rates are based on Retail Tariff rates for the respective rate classes					
# of Months and Days used in this analysis	# of summer days = 122		# of summer months = 4			
	# of winter days = 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	\$ 54.50 \$/MWh/day	Summer Total	\$ 31,652,420		
	Winter	\$ 54.50 \$/MWh/day	Winter Total	\$ 63,045,393		
			Annual Total	\$ 94,697,813		

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

	Charges	Rate	% usage
Block 1 (0-600 kWh/m)			48.19%
Block 2 (>600 kWh/m)			51.81%
Differential (Excl. SUT)	0.8652 ¢/kWh		

Table #11 Ancillary Services

Forecasted Ancillary Services Cost	\$2.00 \$/MWh
Renewable Portfolio Standard Cost	\$20.88 \$/MWh
Total Forecasted Ancillary Services & Renewable Power Costs	\$22.88 \$/MWh

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Transmission Obl - all months	\$ -	\$ -	\$ -	\$ -	\$ -
Generation Obl \$/MWh - all months	\$ 5.317	\$ 7.189	\$ 3.984	\$ 3.231	\$ 0.006
Generation Obl \$/MWh - Summer - All Hours	\$ 5.212	\$ 5.671	\$ 3.688	\$ -	\$ 0.006
Generation Obl \$/MWh - Summer - On-Peak Hours	\$ 12.481			\$ 6.305	
Generation Obl \$/MWh - Winter - All Hours	\$ 5.371	\$ 8.306	\$ 4.152	\$ -	\$ 0.006
Generation Obl \$/MWh - Winter - On-Peak Hours	\$ 14.903			\$ 8.133	

**Jersey Central Power & Light
Attachment 2**

Table #13 Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 71.65	\$ 72.31	\$ 70.89	\$	\$ 62.54
JCP&L On pk	\$ 88.66			\$ 81.35	
JCP&L Off pk	\$ 59.44			\$ 59.07	
Block 1 (0-600 kWh/m)		\$ 67.83			
Block 2 (>600 kWh/m)		\$ 76.48			
Winter - all hrs	\$ 75.51	\$ 78.17	\$ 74.03	\$	\$ 68.40
JCP&L On pk	\$ 89.93			\$ 81.15	
JCP&L Off pk	\$ 67.39			\$ 67.71	
Annual -all hrs	\$ 74.19	\$ 75.69	\$ 72.90	\$ 71.79	\$ 66.45

DEMAND RATES

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

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

**Jersey Central Power & Light
Attachment 2**

Table #14

Units @ Customer
in kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	1,986,543		2,154,855,000			45,335,000
JCP&L On pk	25,620,581			24,851,803		
JCP&L Off pk	35,725,876			30,412,197		
Block 1 (0-600 kWh/m)		1,972,747,000				
Block 2 (>600 kWh/m)		2,121,317,000				
Winter - all hrs	4,931,842	5,568,269,000	3,811,788,000			90,653,000
JCP&L On pk	42,337,877			38,377,607		
JCP&L Off pk	75,149,281			51,478,393		
						Total
Summer Total	63,333,000	4,094,064,000	2,154,855,000	55,264,000	45,335,000	6,412,851,000
Winter Total	<u>122,419,000</u>	<u>5,568,269,000</u>	<u>3,811,788,000</u>	<u>89,856,000</u>	<u>90,653,000</u>	<u>9,682,985,000</u>
Annual Total	185,752,000	9,662,333,000	5,966,643,000	145,120,000	135,988,000	16,095,836,000

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	\$ 142		\$ 152,766		\$ 2,835	
JCP&L On pk	\$ 2,272			\$ 2,022		
JCP&L Off pk	\$ 2,124			\$ 1,797		
Block 1 (0-600 kWh/m)		\$ 133,806				
Block 2 (>600 kWh/m)		\$ 162,237				
Winter - all hrs	\$ 372	\$ 435,252	\$ 282,190		\$ 6,201	
JCP&L On pk	\$ 3,808			\$ 3,114		
JCP&L Off pk	\$ 5,064			\$ 3,485		
Total Costs - in \$1000						
Summer	\$ 4,538	\$ 296,043	\$ 152,766	\$ 3,818	\$ 2,835	\$ 460,000
Winter	\$ 9,244	\$ 435,252	\$ 282,190	\$ 6,600	\$ 6,201	\$ 739,486
Total	\$ 13,782	\$ 731,294	\$ 434,956	\$ 10,418	\$ 9,036	\$ 1,199,486
% of Annual Total \$						
Summer	33%	40%	35%	37%	31%	38%
Winter	67%	60%	65%	63%	69%	62%

**Jersey Central Power & Light
Attachment 2**

Table #16 & Table #17

Not Applicable to 2024/2025 BGS Supply Period

Table #18 **Bulk System Costs**

ALL RATES

Grand Total Cost in \$1000 = \$ 1,199,486
 All-In Average costs @ bulk system = \$ 66.66 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 \$ 64.16 per MWh @ bulk system
 Winter \$ 68.31 per MWh @ bulk system

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

Summer 0.9626
 Winter 1.0248

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

Summer 1.0000
 Winter 1.0000

Assumptions:

Generation Capacity Cost = \$ 54.50 per MW day Summer
 \$ 54.50 per MW day Winter

Transmission cost = Zero, as Transmission product will be excluded from BGS product starting June 1, 2021.

Analysis time period = 4 summer months
 8 winter months

Ancillary Services and Renewable Power Cost = \$ 22.88 per MWh

Energy Costs = based on 6/24 to 5/25 Forwards @ PJM West corrected for hub-zone basis differential

Usage patterns = forecasted 2023 energy use by class based upon PJM on/off % from 2020 through 2022 class load profiles
 JCP&L billing on/off % from 2023 forecasted billing determinants

Obligations = class totals for 2024 excluding accounts required to take service under BGS-CIEP as of June 1, 2024

Loss = Consistent with Losses as approved by the BPU

PJM Marginal Losses = PJM's calculated mean value of hourly marginal loss factor

PJM Time Periods = PJM trading time periods - 7 AM to 11 PM weekdays, local time, excluding NERC
 holidays - New Year's, Memorial, 4th of July, Labor Day, Thanksgiving & Christmas

JCP&L Billing time periods = RT On-peak hours are 8 am to 8 pm Eastern Standard Time, Monday through Friday.
 GST On-peak hours are 8 am to 8 pm prevailing time, Monday through Friday.

The Holidays identified by PJM are not excluded from the RT or GST Billing On-Peak kWh.

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

**Jersey Central Power & Light
Attachment 2
2024 BGS Auction Cost and Bid Factor Tables**

BGS-RSCP Composite Cost Allocation

Table #C1	Post Transition Year 20 Costs w/o Transmission 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		\$ 165		\$ 175,054		\$ 3,101	
JCP&L On pk		\$ 2,798			\$ 2,399		
JCP&L Off pk		\$ 2,300			\$ 1,952		
Block 1 (0-600 kWh/m)			\$ 157,155				
Block 2 (>600 kWh/m)			\$ 187,344				
Winter - all hrs		\$ 400	\$ 481,615	\$ 299,060		\$ 6,129	
JCP&L On pk		\$ 4,491			\$ 3,544		
JCP&L Off pk		\$ 5,044			\$ 3,408		
Total Costs - in \$1000							
Summer		\$ 5,263	\$ 344,500	\$ 175,054	\$ 4,351	\$ 3,101	\$ 532,268
Winter		\$ 9,935	\$ 481,615	\$ 299,060	\$ 6,951	\$ 6,129	\$ 803,690
Total		\$ 15,197	\$ 826,115	\$ 474,114	\$ 11,302	\$ 9,230	\$ 1,335,959

Table #C2	Post Transition Year 21 Costs w/o Transmission in \$1,000's	Size of Tranches =	<u>15</u>				
Total Costs by Rate - in \$1000		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs		\$ 205		\$ 225,085		\$ 3,732	
JCP&L On pk		\$ 3,830			\$ 3,453		
JCP&L Off pk		\$ 2,502			\$ 2,129		
Block 1 (0-600 kWh/m)			\$ 196,760				
Block 2 (>600 kWh/m)			\$ 229,932				
Winter - all hrs		\$ 503	\$ 588,473	\$ 390,456		\$ 7,605	
JCP&L On pk		\$ 6,426			\$ 5,289		
JCP&L Off pk		\$ 5,548			\$ 3,777		
Total Costs - in \$1000							
Summer		\$ 6,538	\$ 426,692	\$ 225,085	\$ 5,582	\$ 3,732	\$ 667,629
Winter		\$ 12,477	\$ 588,473	\$ 390,456	\$ 9,066	\$ 7,605	\$ 1,008,077
Total		\$ 19,015	\$ 1,015,165	\$ 615,540	\$ 14,649	\$ 11,337	\$ 1,675,706

{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
Attachment 2**

Table #C3

Post Transition Year 22 Costs w/o Transmission
in \$1,000's

Size of Tranches = 20

Total Costs by Rate - in \$1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	\$ 142		\$ 152,766		\$ 2,835	
JCP&L On pk	\$ 2,272			\$ 2,022		
JCP&L Off pk	\$ 2,124			\$ 1,797		
Block 1 (0-600 kWh/m)		\$ 133,806				
Block 2 (>600 kWh/m)		\$ 162,237				
Winter - all hrs	\$ 372	\$ 435,252	\$ 282,190		\$ 6,201	
JCP&L On pk	\$ 3,808			\$ 3,114		
JCP&L Off pk	\$ 5,064			\$ 3,485		
Total Costs - in \$1000						
Summer	\$ 4,538	\$ 296,043	\$ 152,766	\$ 3,818	\$ 2,835	\$ 460,000
Winter	\$ 9,244	\$ 435,252	\$ 282,190	\$ 6,600	\$ 6,201	\$ 739,486
Total	\$ 13,782	\$ 731,294	\$ 434,956	\$ 10,418	\$ 9,036	\$ 1,199,486

Table #C4

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

Total Costs by Rate - in \$1000	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	\$ 168		\$ 180,803		\$ 3,179	
JCP&L On pk	\$ 2,891			\$ 2,555		
JCP&L Off pk	\$ 2,291			\$ 1,944		
Block 1 (0-600 kWh/m)		\$ 159,553				
Block 2 (>600 kWh/m)		\$ 189,923				
Winter - all hrs	\$ 419	\$ 494,362	\$ 318,561		\$ 6,574	
JCP&L On pk	\$ 4,781			\$ 3,876		
JCP&L Off pk	\$ 5,194			\$ 3,542		
Total Costs - in \$1000						
Summer	\$ 5,350	\$ 349,476	\$ 180,803	\$ 4,498	\$ 3,179	\$ 543,307
Winter	\$ 10,394	\$ 494,362	\$ 318,561	\$ 7,417	\$ 6,574	\$ 837,308
Total	\$ 15,744	\$ 843,838	\$ 499,364	\$ 11,916	\$ 9,753	\$ 1,380,614

**Jersey Central Power & Light
Attachment 2**

Table #C5

Units @ Customer
Forecasted 2023 kWh

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL	
Summer - all hrs	1,986,543		2,154,855,000			45,335,000
JCP&L On pk	25,620,581			24,851,803		
JCP&L Off pk	35,725,876			30,412,197		
Block 1 (0-600 kWh/m)		1,972,747,000				
Block 2 (>600 kWh/m)		2,121,317,000				
Winter - all hrs	4,931,842	5,568,269,000	3,811,788,000			90,653,000
JCP&L On pk	42,337,877			38,377,607		
JCP&L Off pk	75,149,281			51,478,393		
Summer Total	63,333,000	4,094,064,000	2,154,855,000	55,264,000	45,335,000	6,412,851,000
Winter Total	<u>122,419,000</u>	<u>5,568,269,000</u>	<u>3,811,788,000</u>	<u>89,856,000</u>	<u>90,653,000</u>	<u>9,682,985,000</u>
Annual Total	185,752,000	9,662,333,000	5,966,643,000	145,120,000	135,988,000	16,095,836,000

Table #C6

Summary of BGS Unit Costs @ customer

NON-DEMAND RATES

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

	RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs	\$ 84.47		\$ 83.47		\$ 70.13
JCP&L On pk	\$ 112.27			\$ 102.81	
JCP&L Off pk	\$ 63.78			\$ 63.91	
Block 1 (0-600 kWh/m)		\$ 80.40			
Block 2 (>600 kWh/m)		\$ 89.00			
Winter - all hrs	\$ 84.90	\$ 88.26	\$ 83.14		\$ 72.52
JCP&L On pk	\$ 112.33			\$ 100.99	
JCP&L Off pk	\$ 68.76			\$ 68.80	
Annual -all hrs	\$ 84.31	\$ 86.82	\$ 83.26	\$ 82.11	\$ 71.72

DEMAND RATES

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

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

ALL RATES

Grand Total Cost in \$1000 = \$ 1,380,614
 All-In Average costs @ bulk system = \$ 76.72 per MWh at bulk system (per bulk system metered MWh)
 All-In Average costs @ transmission nodes = \$ 77.45 per MWh at transmission nodes (per transmission nodes metered MWh)

**Jersey Central Power & Light
Attachment 2**

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

NON-DEMAND RATES

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

		RT{1}	RS{2}	GS{3}	GST {4}	OL/SL
Summer - all hrs		1.091	1.096	1.078		0.905
	JCP&L On pk	1.449			1.327	
	JCP&L Off pk	0.823			0.825	
	Constant for Block 1 (0-600 kWh/m) usage (Excl. SUT)		(4.483)			
	Constant for Block 2 (>600 kWh/m) usage (Excl. SUT)		4.169			
Winter - all hrs		1.096	1.140	1.073		0.936
	JCP&L On pk	1.450			1.304	
	JCP&L Off pk	0.888			0.888	
Annual - all hrs		1.089	1.121	1.075	1.060	0.926

Jersey Central Power & Light
Attachment 3 - Page 1 of 2
Development of Capacity Proxy Price True-Up \$/MWh
and Calculation of Composite BGS-RSCP Price

Table A - 2024/2025 Delivery Year

	2024/2025 Delivery Year for Winning Suppliers from 2022 BGS-RSCP Auction	2024/2025 Delivery Year for Winning Suppliers from 2023 BGS-RSCP Auction	
1 Zonal Capacity Price (\$/MW-day) - JCPL Zone	\$58.23	\$58.23	Notes: PJM final RPM auction result for delivery year 2024/2025.
2 Capacity Proxy Price (\$/MW-day)	<u>\$87.98</u>	<u>\$66.38</u>	BGS Order Docket No. ER21030631 dated Nov. 17, 2021 and ER22030127 dated Nov. 9, 2022
3 Capacity Proxy Price True-Up - \$/MW-day	-\$29.75	-\$8.15	Line 1 - Line2
4 Total BGS-RSCP Gen Obl - MW	4,760.5	4,760.5	Table #10 of the 2024 BGS Auction Cost and Bid Factor Tables
5 Days in BGS Delivery Year	365	365	
6 Capacity Proxy Price True-Up Annual Cost	-\$51,692,843	-\$14,161,233	= line 3 * line 4 * line 5
7 Eligible Tranches	18	15	
8 Total Tranches	53	53	
9 % of tranches eligible for Payment	34.0%	28.3%	= line 7 / line 8
10 Capacity Proxy Price True-Up Cost	-\$17,556,060	-\$4,007,896	= line 6 * line 9
11 Total Applicable Customer Usage @ transmission nodes - in MWh	17,825,097	17,825,097	Table #14 * Table #6 from 2024 BGS Auction Cost and Bid Factor Tables - Illustrative Only
12 Eligible customer Usage @ transmission nodes - in MWh	6,053,807	5,044,839	= line 9 * line 11
13 Capacity Proxy Price True-Up - \$/MWh	-\$2.90	-\$0.79	= line 10 / line 12 (rounded to 2 decimal places)

NJ Sales and Use Tax (SUT) excluded

Jersey Central Power and Light

Calculation of Composite BGS-RSCP Price

June 1, 2024 through May 31, 2025

	BGS Post Transition Year 20 2022 Auction	BGS Post Transition Year 21 2023 Auction	BGS Post Transition Year 22 2024 Auction	Total BGS-RSCP Cost
	1 Year Term Remaining	2 Year Term Remaining	3 Year Term	
Final Auction Price - in \$/MWh	\$77.50	\$94.28	\$82.95	
Capacity Proxy Price True-Up - in \$/MWh	(\$2.90)	(\$0.79)	\$82.95	
	\$74.60	\$93.49		
<u>Total # of Tranches</u>				
Size of Tranches	18	15	20	
Total # of Tranches	53	53	53	
<u>Seasonal Factors</u>				
Summer	1.0000	1.0000	1.0000	
Winter	1.0000	1.0000	1.0000	
<u>Applicable Customer Usage</u> <u>@ transmission node</u>				
Summer MWh	7,101,818	7,101,818	7,101,818	7,101,818
Winter MWh	10,723,279	10,723,279	10,723,279	10,723,279
<u>All-in BGS-RSCP Cost</u>				
Summer	\$179,930,589	\$187,910,084	\$222,300,303	\$590,140,976
Winter	\$271,683,378	\$283,731,893	\$335,658,865	\$891,074,136
Total	\$451,613,967	\$471,641,977	\$557,959,168	\$1,481,215,112

Composite Bid Price

\$83.10 (Rounded to 2 decimals)

Jersey Central Power and Light

Derivation of BGS-RSCP Energy Charges per kWh
June 1, 2024 through May 31, 2025

Final Weighted Average BGS-RSCP Wholesale Price \$0.083100 {1}

Rate Class & Usage Type	Ratio of Retail BGS Price to Wholesale BGS Price		Resulting Retail BGS Price Prior to Usage Block Adjustment {1}		Usage Block Adjustment	Resulting Retail BGS Price After Usage Block Adjustment {1}		Proposed Tariff Transmission Rate {2}	Retail BGS Energy Charge per kWh Excluding SUT		Retail BGS Energy Charge per kWh Including 6.625%SUT	
	Summer	Winter	Summer	Winter	Summer	Summer	Winter		Summer	Winter	Summer	Winter
RS - All		1.140		\$0.094734			\$0.094734	\$0.000000		\$0.094734		\$0.101010
RS - 1 to 600	1.096		\$0.091078		-\$0.004483	\$0.086595		\$0.000000	\$0.086595		\$0.092332	
RS Over 600	1.096		\$0.091078		\$0.004169	\$0.095247		\$0.000000	\$0.095247		\$0.101557	
RT - On-peak	1.449	1.450	\$0.120412	\$0.120495		\$0.120412	\$0.120495	\$0.000000	\$0.120412	\$0.120495	\$0.128389	\$0.128478
RT - Off-peak	0.823	0.888	\$0.068391	\$0.073793		\$0.068391	\$0.073793	\$0.000000	\$0.068391	\$0.073793	\$0.072922	\$0.078682
CTWH & OPWH	1.091	1.096	\$0.090662	\$0.091078		\$0.090662	\$0.091078	\$0.000000	\$0.090662	\$0.091078	\$0.096668	\$0.097112
GS	1.078	1.073	\$0.089582	\$0.089166		\$0.089582	\$0.089166	\$0.000000	\$0.089582	\$0.089166	\$0.095517	\$0.095073
GST On-Peak	1.327	1.304	\$0.110274	\$0.108362		\$0.110274	\$0.108362	\$0.000000	\$0.110274	\$0.108362	\$0.117580	\$0.115541
GST Off-Peak	0.825	0.888	\$0.068558	\$0.073793		\$0.068558	\$0.073793	\$0.000000	\$0.068558	\$0.073793	\$0.073100	\$0.078682
OL/SL	0.905	0.936	\$0.075206	\$0.077782		\$0.075206	\$0.077782	\$0.000000	\$0.075206	\$0.077782	\$0.080188	\$0.082935

{1} Prices Exclude Sales and Use Tax (SUT) and BGS-RSCP Reconciliation Charges

{2} Transmission will be excluded from BGS Auction starting February 2021

Notes:

Rate class RS includes RGT winter usage

CTWH & OPWH includes separately metered controlled water heating and off-peak water heating use for RS and GS accounts

Rate class RT includes RGT summer usage

Rate Class OL/SL equals Rate classes OL, ISL, MVL, SVL and LED

Derivation of BGS Capacity Cost (\$/kWh) for BGS CIEP DCFC Accounts

List of Current DCFC Accounts *

Site ID	Service Start Date	Connected Load (kW)	Capacity Obligation (kW) Effective November 1, 2023	Capacity Obligation (kW) Effective June 1, 2024	12 Month Total Billed Usage (kWh) through December 2023	Eligibility June 1, 2024 to May 2025
1	11/5/2019	350	54.0	137.5	338,245	RSCP
2	7/1/2021	600	103.7	121.5	554,734	RSCP
3	7/2/2019	640	424.7	328.3	1,260,541	RSCP
4	2/11/2019	450	358.1	118.9	1,227,668	RSCP
5	1/18/2019	800	209.5	295.3	1,296,888	RSCP
6	7/29/2019	800	157.4	217.5	976,128	RSCP
7	10/6/2021	231	107.4	75.9	288,207	RSCP
8	4/30/2021	797	188.6	181.0	594,214	RSCP
9	6/17/2020	447	179.3	276.6	724,202	RSCP
10	11/13/2015	774	254.1	645.6	1,645,728	RSCP
11	9/17/2019	N/A	120.9	210.0	781,938	RSCP
12	4/29/2019	640	150.8	299.3	673,299	RSCP
13	10/6/2021	550	88.8	167.0	820,000	RSCP
14	2/2/2022	1,500	4.0	38.9	263,800	RSCP
15	7/22/2020	750	808.8	393.6	1,859,200	CIEP
16	11/18/2020	900	95.7	80.8	368,400	RSCP
17	3/21/2022	874	52.7	164.1	673,200	RSCP
18	12/17/2021	640	17.7	33.5	142,800	RSCP
19	12/12/2022	1152	4.0	200.1	827,800	RSCP
20	6/28/2022	640	85.3	228.0	954,000	RSCP
21	7/15/2022	N/A	4.5	68.6	268,600	RSCP
22	10/19/2023**	N/A	4.0	4.0	566,694	RSCP
23	3/6/2023**	1300	4.0	150.4	671,733	RSCP
24	2/2/2022	438	36.0	38.9	263,800	RSCP
25	8/5/1999	N/A	<u>48.8</u>	<u>41.9</u>	<u>205,486</u>	RSCP
			2,754.0	4,517.2	18,247,305	

a.	Total PLS as of June 1, 2024 (kW)	4,517.2	
b.	Capacity PLS to Obligation Factor June 1, 2024 to May 31, 2025	1.22902	PJM Final Zonal Scaling Factors posted on 3/11/2024. 1.117 times 1.10029
c. = a x b	Total Capacity Obligation (kW) June 1, 2024	5,551.77	
d.	Capacity Price Effective June 1, 2024 to May 31, 2025 (\$/kW - Day)	\$0.35714	BGS CIEP Auction
e. = c x d *365	Total Capacity Cost, net of SUT	\$723,707	
f.	Forecast kWh usage from most recent 12 months	18,247,305	
g. = e / f	Capacity Price in \$/kWh	0.039661	
h. = g*1.06625	Capacity Price in \$/kWh, including SUT	0.042289	

* EV Driven Program Semi-Annual Report, March 1, 2024, BPU Docket Nos. EO21030630 and ER22030127

** Estimated 12 months usage based on actual usage during 2023.

**2024/2025 Final Zonal Scaling Factors, UCAP Obligations, Zonal Capacity Prices, &
Zonal CTR Credit Rates**

Final Forecast Pool		1.117			
Zone	Final Zonal RPM Scaling Factor	Final Zonal UCAP Obligation, MW	Final Zonal Capacity Price (\$/MW-day)	Final Zonal CTR Credit Rate (\$/MW-UCAP Obligation-day)	Final Zonal Net Load Price (\$/MW-day)
AE	1.12662	2,907.0	\$59.30	\$1.0703	\$58.23
AEP	1.13716	13,914.3	\$29.40	\$0.0000	\$29.40
APS	1.13729	10,737.3	\$29.40	\$0.0000	\$29.40
ATSI	1.14867	14,819.4	\$29.40	\$0.0000	\$29.40
BGE	1.11423	7,716.5	\$76.84	\$15.3109	\$61.53
COMED	1.11425	23,299.1	\$29.40	\$0.0000	\$29.40
DAYTON	1.10497	3,875.6	\$29.40	\$0.0000	\$29.40
DEOK	1.11713	5,247.9	\$98.37	\$40.5079	\$57.86
DLCO	1.10702	3,239.7	\$29.40	\$0.0000	\$29.40
DOM	1.15624	4,469.5	\$29.40	\$0.0000	\$29.40
DPL	1.12136	4,584.4	\$69.79	\$0.3703	\$69.42
EKPC	1.11199	2,874.0	\$29.40	\$0.0000	\$29.40
JCPL	1.10029	7,042.3	\$59.30	\$1.0703	\$58.23
METED	1.11393	3,608.4	\$50.11	\$0.0000	\$50.11
OVEC	1.10744	74.2	\$29.40	\$0.0000	\$29.40
PECO	1.11751	10,023.5	\$59.30	\$1.0703	\$58.23
PENLC	1.11231	3,391.9	\$50.11	\$0.0000	\$50.11
PEPCO	1.10306	7,158.6	\$50.11	\$0.0000	\$50.11
PL	1.10536	8,685.1	\$50.11	\$0.0000	\$50.11
PS	1.11932	11,777.6	\$59.30	\$1.0703	\$58.23
RECO	1.10176	480.0	\$59.30	\$1.0703	\$58.23
		149,926.1			

IN THE MATTER OF THE PROVISION OF BASIC GENERATION SERVICE
(BGS) FOR THE PERIOD BEGINNING JUNE 1, 2024

DOCKET NO. ER23030124

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IN THE MATTER OF THE PROVISION OF BASIC GENERATION SERVICE
(BGS) FOR THE PERIOD BEGINNING JUNE 1, 2024

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IN THE MATTER OF THE PROVISION OF BASIC GENERATION SERVICE
(BGS) FOR THE PERIOD BEGINNING JUNE 1, 2024

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