

DATE OF ISSUE: MARCH 28, 2018

DEPARTMENT OF GENERAL SERVICES ENERGY
AND RESOURCE MANAGEMENT OFFICE
401 NORTH STREET HARRISBURG, PENNSYLVANIA

BULLETIN NO. 3

on

Project No. GESA 2017-2 – REQUEST FOR QUOTES FOR A GUARANTEED ENERGY SAVINGS PROJECT AT: DEPT. OF CORRECTIONS, SCI MUNCY, MUNCY, PENNSYLVANIA, Department of General Services, Energy & Resource Management, 401 North Street, Room 403, Harrisburg, Pennsylvania, 17120.

QUOTE SUBMISSION DEADLINE: THURSDAY MAY 3, 2018
TIME OF OPENING: 2:00 PM

QUESTIONS / REQUEST FOR INFORMATION

1. Waste Water Treatment Plant – please provide sludge hauling cost and rates if applicable. **There is a \$79 per month fee for dumpster removal.**
2. Water Well information (if any): **Well depth #1 53 Ft. #2 54 Ft. The water sources for the Facility include two (2) wells and three (3) springs. The source pumping capacity from Well #1 is 345,000 gpd maximum with a safe yield of 259,000 gpd. The source pumping capacity of Well #2 is 288,000 gpd maximum with a safe yield of 197,000 gpd. Current usage from Well #1 is approximately 200,000 gpd. Current usage from Well #2 is 150,000 gpd. The facility water production period runs for approximately 18 hours a day. Thus, the finished water production rate, e.g. gph, is constant and established by plant operations staff to meet usage needs.**
3. What are the existing supply contracts for deregulated electricity and natural gas (quantities, rates and terms)? **For electricity, SCI Muncy has 4 separate accounts, 1 large LP-4 account and 3 small accounts. The LP-4 account is under a fixed price contract through December 2019 for \$0.05529 per kWh, plus gross receipts tax at 6.26993%. Natural gas is under a fixed price contract through October 2019 for \$2.759 per dekatherm.**
4. If there is a minimum purchase requirement with the existing electric supply contract, what is the minimum purchase quantity and for what term length? Electricity and natural gas is contracted through the Commonwealth's ITQ. **The current electricity and natural gas contracts include allowable use swings of: Natural Gas - plus or minus 10% from the nomination. Electricity – plus or minus 15% of the awarded bid package. SCI Muncy annual use represents approximately 59% of the current contract bid package.**

5. What are the Funding Agency's indoor and outdoor lighting level standards?
Commonwealth facilities fall under the jurisdiction of the 2009 International Codes. For lighting, recommend following IESNA standards. Any special security lighting requirements will be determined by the institution.

6. Are there make-up water meters at boiler plant that measure how much water is added to the steam system? Is that data available? **Yes, see below data:**
FY2014-2015 18,006 mlb makeup water, 26% of steam production
FY2015-2016 12,312 mlb makeup water, 20% of steam production
FY2016-2017 14,070 mlb makeup water, 21% of steam production

7. Can you provide the names of the electric and natural gas utility companies? Can you provide the last two months' worth of invoices for each utility account?

Electricity – PPL Utilities – Invoices are attached at the end of this bulletin.

Agency	Facility	Company	Rate	Account Number
DOC	SCI Muncy	PPL Utilities	RS	0459062009
DOC	SCI Muncy	PPL Utilities	GS-1	1603202018
DOC	SCI Muncy	PPL Utilities	GS-1	2777955005
DOC	SCI Muncy	PPL Utilities	LP-4	9219061005

Natural Gas – UGI Penn Natural Gas

Agency	Facility	Company	Rate	Account Number
DOC	SCI Muncy	UGI Penn Natural Gas	LFD	411005415434

8. Are window specs available? **Window specs are attached to the end of this bulletin.**

9. Can the site visits during the proposal period be private (ESCo and ESCo subcontractors only)? **This is unlikely to happen. Also, visitors to the prison will need an escort at all times.**

10. Can a smart phone camera be used in place of a digital camera? **No cell phones nor smart phones are allowed inside the prison. Exceptions for certain devices (example: iPad) may be granted by filling out the "Contractor Tool Inventory Form" which can be obtained through Robert Harding.**

RFQ CLARIFICATIONS/CHANGES

1. Please replace Appendix M, pages 89-97, with Appendix M (GESA contract) contained at the end of this bulletin. An updated version of the RFQ, containing the correct Appendix M, will be posted on our website.

2. Can you provide a copy of the performance bond and payment bond that is referred to in the RFQ. **The performance and payment bonds are in one document called**

the "Contract Bond" which can be found on pages 95-98 in Appendix M of the amended RFQ.

3. The Guaranteed Energy Savings Contract (GESA) form is attached to the RFQ as Appendix M. Article 10 of the GESA refers to an Assured Performance Guarantee which is supposed to be attached the GESA as Attachment 2. Can you please provide a copy of the Assured Performance Guarantee? **Exhibit 2 of the GESA contract can be found in Appendix M, on pages 101-103 of the amended RFQ.**
4. On page 38 in the last section (1.) it states the SDB and SB point allocation is based entirely on the percentage of the total base ECM cost committed to SDB and SB participation. Just to clarify, the total base ECM cost is based strictly on the number of ECMs from Appendix "T" and any additional ECMs included in the proposal are not considered "base" ECMs, and should not be used in the SDB and SB calculations? **Correct; do not include additional ECMs in the total base calculation.**
5. On page 38 of the RFQ it appears in paragraph "h" that the ESCO with the lowest priced project will score the most points for the ECM/Cost Submittal. In the past DGS always encouraged ESCOs to develop the largest self-funding GESA project possible with the largest amount of savings. Now, with the lowest cost proposal receiving the highest score it appears a smaller project would be more advantageous in the scoring process. Can you explain the reasoning behind the scoring policy change which appears in paragraph "h"? **The lowest cost receives the highest score for the ECM/Cost only. The ECM/Cost is only one of three parts to which a Quote is evaluated and scored.**



Rebecca Tomlinson, RFQ Coordinator
Energy & Resource Management Office

PLEASE ACKNOWLEDGE RECEIPT OF THIS BULLETIN BY EMAIL RESPONSE TO BECKY TOMLINSON AT retomlinso@pa.gov



8 Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Mar 30. 1-800-DIAL-PPL (1-800-342-5775)

PPL Electric Utilities

Mon-Fri: 7am to 8pm

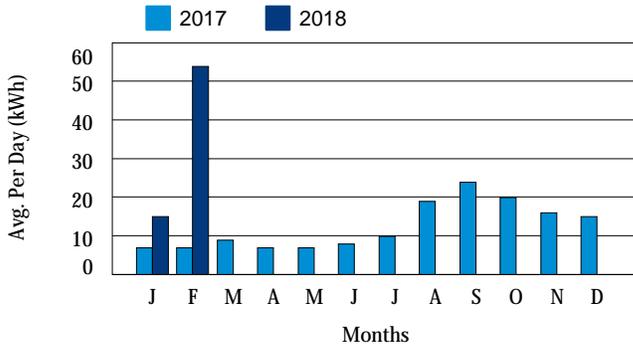
Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 30, 2018	\$201.89

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL INSTITUTION
PINTCHTOWN HILL RD, SUPT
MONTGOMERY, PA 17752

Meter: 73101166
Your next meter reading is on or about Mar 26, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Monthly Comparison	Days Billed	kWh	Average kWh/Day	Average Temp.
Feb 2018	29	1556	54	32F
Feb 2017	29	204	7	35F

Billing Period	Type	Reading
Feb 23	Actual	29918
Jan 25	Actual	28362
29 Days	kWh Billed	1556

Yearly Comparison	Total Use	Avg. Monthly
Mar 2017 - Feb 2018	6161	513
Mar 2016 - Feb 2017	7677	640

Billing Summary

(Billing details on back)

Balance as of Feb 27, 2018	\$0.00
Charges:	
Total Distribution Charges	\$84.67
Total Generation & Transmission Charges	\$117.22
Total Current Charges	\$201.89
Amount Due By Mar 30, 2018	\$201.89
Account Balance	\$201.89

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 04590-62009 Rate Schedule: RS (Residential)
Current Supplier: Constellation NewEnergy, Inc

PPL Electric Utilities price to compare for your rate is \$0.07463 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	- Report an outage/check outage status
Phone: Call 1-800-342-5775	- Make a payment, view your bill and usage history.
Mail: Use envelope provided	- Sign up for alerts.
ABP: Automatic Bill Pay (see back of stub to enroll)	- Enroll in paperless billing, automatic bill pay, budget billing.
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	- View your rate schedule at: ppelectric.com/rates

Correspondence:
Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill ‡

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.



Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 30, 2018	\$201.89

Amount Enclosed:

--	--	--	--	--	--	--	--	--

PA STATE CORRECTIONAL INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Learn how to save energy and get information about energy efficiency rebates on our website, ppllectric.com.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Take showers instead of baths to save energy and water. It takes about 30 gallons of water to fill an average bathtub. A 5-minute shower uses about 20 gallons. Low flow shower heads can cut your hot water use in half.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 04590-62009)

Page 2

Previous Balance	\$68.55
Payment Received Feb 22, 2018 - Thank You!	-\$68.55
Balance as of Feb 27, 2018	\$0.00
Charges for - PPL Electric Utilities	
Residential Rate: RS for Jan 25 - Feb 23	
Distribution Charge:	
Customer Charge	17.11
1,556 kWh at 4.29400000¢ per kWh	66.81
System Improvement Charge at 0.91%	0.76
PA Tax Adj Surcharge at -0.00600000%	-0.01
Total Distribution Charges	\$84.67
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$117.22
Amount Due By Mar 30, 2018	\$201.89
Account Balance	\$201.89

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.82 of this bill to pay state taxes and about \$4.99 is used to pay the PA Gross Receipts Tax.

Understanding Your Bill

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

Rate RS - Rate for service to a private home.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

State Tax Adjustment Surcharge - Monthly charge or credit to reflect changes in various state taxes. The surcharge may vary by bill component.

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.ppllectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 30, 2018	\$201.89

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.



For questions on these charges, please contact this supplier at:

Phone:
1-888-635-0827

* Constellation NewEnergy, Inc
Customer Services
1310 Point Street
Baltimore, MD 21231

Charges for - Constellation NewEnergy, Inc		
Generation & Transmission Charges for Jan 25 - Feb 23		
1556 Energy at 7.09 cents per KWH		110.30
GROSS RECEIPTS TAX		6.92
Total Constellation NewEnergy, Inc Charges		\$117.22

Total Generation & Transmission Charges: \$117.22



8 Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Mar 1. 1-800-DIAL-PPL (1-800-342-5775)

PPL Electric Utilities

Mon-Fri: 7am to 8pm

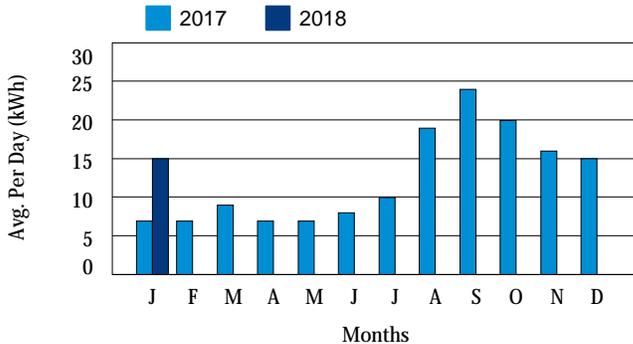
Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 1, 2018	\$68.55

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL INSTITUTION
PINTCHTOWN HILL RD, SUPT
MONTGOMERY, PA 17752

Meter: 73101166
Your next meter reading is on or about Feb 23, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Monthly Comparison	Days Billed	kWh	Average kWh/Day	Average Temp.
Jan 2018	29	432	15	23F
Jan 2017	29	205	7	33F

Billing Period	Type	Reading
Jan 25	Actual	28362
Dec 27	Actual	27930
29 Days	kWh Billed	432

Yearly Comparison	Total Use	Avg. Monthly
Feb 2017 - Jan 2018	4809	401
Feb 2016 - Jan 2017	10518	877

Billing Summary

(Billing details on back)

Balance as of Jan 29, 2018	\$0.00
Charges:	
Total Distribution Charges	\$36.01
Total Generation & Transmission Charges	\$32.54
Total Current Charges	\$68.55
Amount Due By Mar 1, 2018	\$68.55
Account Balance	\$68.55

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 04590-62009 Rate Schedule: RS (Residential)
Current Supplier: Constellation NewEnergy, Inc

PPL Electric Utilities price to compare for your rate is \$0.07463 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	- Report an outage/check outage status
Phone: Call 1-800-342-5775	- Make a payment, view your bill and usage history.
Mail: Use envelope provided	- Sign up for alerts.
ABP: Automatic Bill Pay (see back of stub to enroll)	- Enroll in paperless billing, automatic bill pay, budget billing.
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	- View your rate schedule at: ppelectric.com/rates

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill †

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.



Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 1, 2018	\$68.55

Amount Enclosed:

--	--	--	--	--	--	--	--	--	--

PA STATE CORRECTIONAL INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Learn how to save energy and get information about energy efficiency rebates on our website, ppllectric.com.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü A fireplace can lose more heat up the chimney than it provides. Glass doors and tight fitting dampers help reduce heat loss when you are not using it.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 04590-62009)

Page 2

Previous Balance	\$71.44	
Payment Received Jan 25, 2018 - Thank You!	-\$71.44	
<i>Balance as of Jan 29, 2018</i>		\$0.00
Charges for - PPL Electric Utilities		
Residential Rate: RS for Dec 27 - Jan 25		
Distribution Charge:		
Customer Charge	17.05	
432 kWh at 4.31592900¢ per kWh	18.64	
System Improvement Charge at 0.91%	0.32	
Total Distribution Charges		\$36.01
Total Generation & Transmission Charges (see Supplier Billing Details page)		\$32.54
Amount Due By Mar 1, 2018		\$68.55
Account Balance		\$68.55

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.34 of this bill to pay state taxes and about \$2.12 is used to pay the PA Gross Receipts Tax.

Understanding Your Bill

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

Rate RS - Rate for service to a private home.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

Type(s) of Meter Readings:
Actual - Measures your monthly electricity use based on an actual reading.

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.ppllectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
04590-62009	Mar 1, 2018	\$68.55

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.



For questions on these charges, please contact this supplier at:

Phone:
1-888-635-0827

* Constellation NewEnergy, Inc
Customer Services
1310 Point Street
Baltimore, MD 21231

Charges for - Constellation NewEnergy, Inc		
Generation & Transmission Charges for Dec 27 - Jan 25		
432 Energy at 7.09 cents per KWH		30.62
GROSS RECEIPTS TAX		1.92
Total Constellation NewEnergy, Inc Charges		\$32.54

Total Generation & Transmission Charges: \$32.54



8

Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Apr 9. 1-800-DIAL-PPL (1-800-342-5775)

PPL Electric Utilities

Mon-Fri: 8am to 5pm

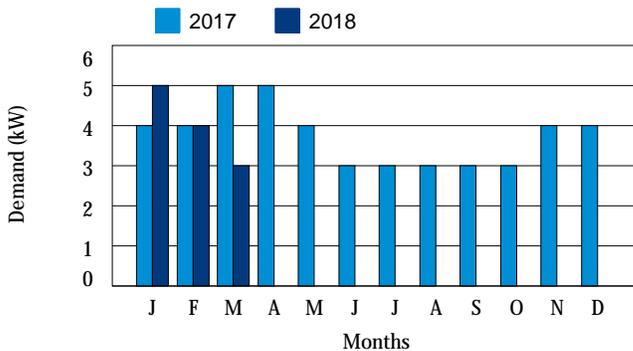
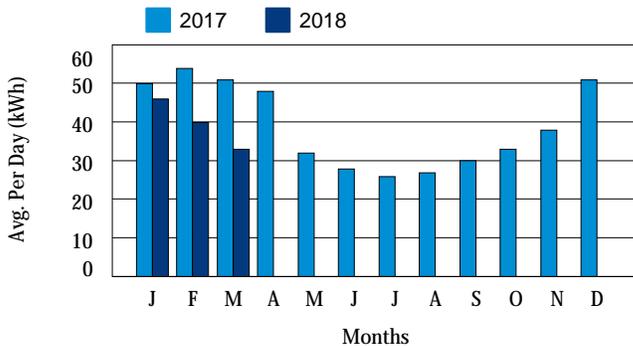
Bill Acct. No.	Due Date	Amount Due
16032-02018	Apr 9, 2018	\$113.74

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL INSTITUTION
ROUTE 405, PARKING
MUNCY, PA 17756

Your next meter reading is on or about Apr 4, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Mar 8, 2018	\$0.00
Charges:	
Total Distribution Charges	\$40.28
Total Generation & Transmission Charges	\$73.46
Total Current Charges	\$113.74
Amount Due By Apr 9, 2018	\$113.74
Account Balance	\$113.74

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 16032-02018 Rate Schedule: GS1

Current Supplier: WGL Energy Services

PPL Electric Utilities price to compare for your rate is \$0.07701 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	- Report an outage/check outage status
Phone: Call 1-800-342-5775	- Make a payment, view your bill and usage history.
Mail: Use envelope provided	- Sign up for alerts.
ABP: Automatic Bill Pay (see back of stub to enroll)	- Enroll in paperless billing, automatic bill pay, budget billing.
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	- View your rate schedule at: ppelectric.com/rates

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill †

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
16032-02018	Apr 9, 2018	\$113.74

Amount Enclosed:

<input type="text"/>									
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

PA STATE CORRECTIONAL INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Peak Demand, 2.70 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 16032-02018)

Previous Balance	\$120.98
Payment Received Mar 2, 2018 - Thank You!	-\$120.98
Balance as of Mar 8, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: GS1 for Feb 1 - Mar 5	
Distribution Charge:	
Customer Charge	22.00
3.0 kW at \$4.36000000 per kW	13.08
Smart Meter Rider - Phase 2	5.86
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider	-0.16
System Improvement Charge at 0.91%	0.36
Act 129 Compliance Rider	-0.92
Total Distribution Charges	\$40.28
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$73.46
Amount Due By Apr 9, 2018	\$113.74
Account Balance	\$113.74

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.39 of this bill to pay state taxes and about \$2.37 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter				
kWh Delivered (to Customer)				
Reading Dates	Meter Number	Meter Constant	Meter Reading	Kilowatt Hours
Previous/Present			Previous/Present	
Feb 1 Mar 5	69261759	1	42735 43804	1069
Days Billed: 32			Total Delivered	1069

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
16032-02018	Apr 9, 2018	\$113.74

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.

For questions on these charges, please contact this supplier at:

) **Phone:**
1-844-427-5945

* WGL Energy Services
Customer Services
P.O. Box 7600
Hampton, VA 23666-0600

- Email EMP@wglenergy.com to access your free Energy Management Platform account

Charges for - WGL Energy Services

Generation & Transmission Charges for Feb 1 - Mar 5

Balancing Congestion	0.06
Transmission Adjustment: 2/1/2018-3/5/20	5.19
Total Use: 1069 kwh at \$0.05976 per kwh	63.88
GROSS RECEIPTS TAX	4.33

Total WGL Energy Services Charges \$73.46

Total Generation & Transmission Charges: \$73.46



8 Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Mar 9. 1-800-DIAL-PPL (1-800-342-5775)

PPL Electric Utilities

Mon-Fri: 8am to 5pm

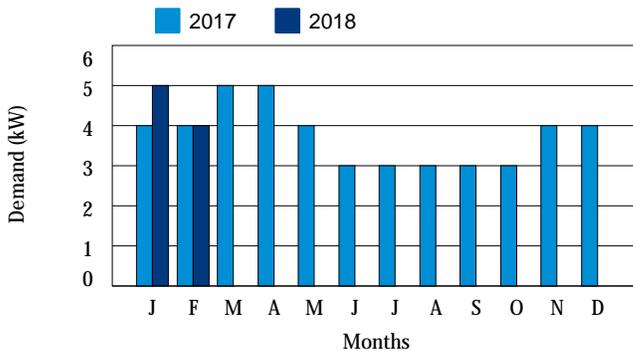
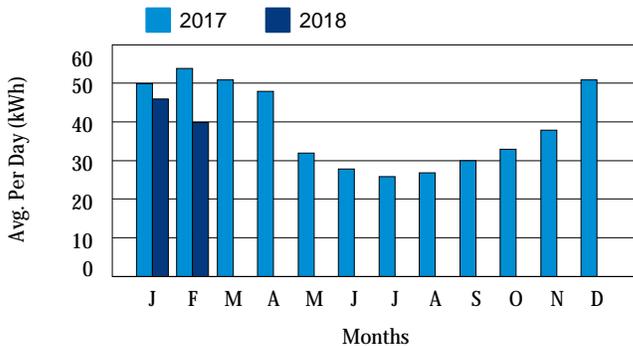
Bill Acct. No.	Due Date	Amount Due
16032-02018	Mar 9, 2018	\$120.98

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL INSTITUTION
ROUTE 405, PARKING
MUNCY, PA 17756

Your next meter reading is on or about Mar 5, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Feb 6, 2018	\$0.00
Charges:	
Total Distribution Charges	\$44.63
Total Generation & Transmission Charges	\$76.35
Total Current Charges	\$120.98
Amount Due By Mar 9, 2018	\$120.98
Account Balance	\$120.98

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 16032-02018 Rate Schedule: GS1

Current Supplier: WGL Energy Services

PPL Electric Utilities price to compare for your rate is \$0.07701 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	- Report an outage/check outage status
Phone: Call 1-800-342-5775	- Make a payment, view your bill and usage history.
Mail: Use envelope provided	- Sign up for alerts.
ABP: Automatic Bill Pay (see back of stub to enroll)	- Enroll in paperless billing, automatic bill pay, budget billing.
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	- View your rate schedule at: ppelectric.com/rates

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill †

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
16032-02018	Mar 9, 2018	\$120.98

Amount Enclosed:

<input type="text"/>									
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

PA STATE CORRECTIONAL INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Peak Demand, 3.50 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 16032-02018)

Previous Balance	\$142.29
Payment Received Feb 2, 2018 - Thank You!	-\$142.29
Balance as of Feb 6, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: GS1 for Jan 4 - Feb 1	
Distribution Charge:	
Customer Charge	22.00
4.0 kW at \$4.36000000 per kW	17.44
Smart Meter Rider - Phase 2	5.86
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider	-0.17
System Improvement Charge at 0.91%	0.40
Act 129 Compliance Rider	-0.96
Total Distribution Charges	\$44.63
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$76.35
Amount Due By Mar 9, 2018	\$120.98
Account Balance	\$120.98

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.43 of this bill to pay state taxes and about \$2.63 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter					
kWh Delivered (to Customer)					
Reading Dates	Meter	Meter	Meter Reading	Kilowatt	
Previous/Present	Number	Constant	Previous/Present	Hours	
Jan 4	Feb 1	69261759	1	41615	42735
Days Billed: 28				Total Delivered	1120

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
16032-02018	Mar 9, 2018	\$120.98

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.

For questions on these charges,
please contact this supplier at:

) **Phone:**
1-844-427-5945

* WGL Energy Services
Customer Services
P.O. Box 7600
Hampton, VA 23666-0600

- Email EMP@wglenergy.com to access your free Energy Management Platform account

Charges for - WGL Energy Services

Generation & Transmission Charges for Jan 4 - Feb 1

Balancing Congestion	0.38
Transmission Adjustment: 1/4/2018-2/1/20	4.54
Total Use: 1120 kwh at \$0.05976 per kwh	66.93
GROSS RECEIPTS TAX	4.50

Total WGL Energy Services Charges

\$76.35

Total Generation & Transmission Charges: \$76.35



8

Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Apr 9. 1-800-DIAL-PPL (1-800-342-5775)

Mon-Fri: 8am to 5pm

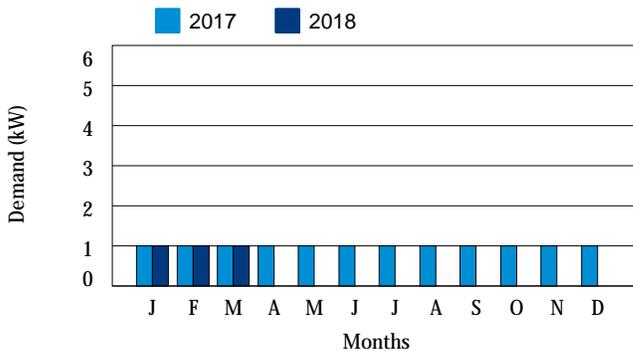
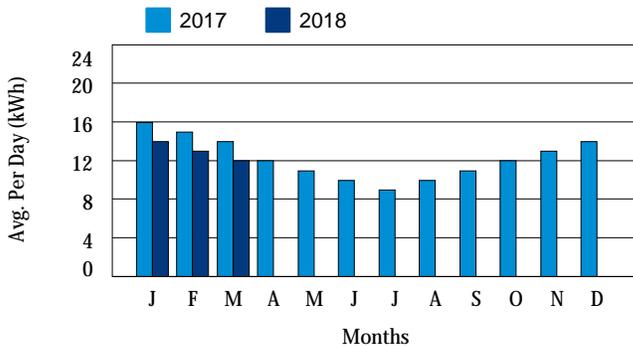
Bill Acct. No.	Due Date	Amount Due
27779-55005	Apr 9, 2018	\$59.32

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL INSTITUTION
RTE 405, ENTERANCE
MUNCY, PA 17756

Your next meter reading is on or about Apr 4, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Mar 8, 2018	\$0.00
Charges:	
Total Distribution Charges	\$32.17
Total Generation & Transmission Charges	\$27.15
Total Current Charges	\$59.32
Amount Due By Apr 9, 2018	\$59.32
Account Balance	\$59.32

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 27779-55005 Rate Schedule: GS1

Current Supplier: WGL Energy Services

PPL Electric Utilities price to compare for your rate is \$0.07701 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	<ul style="list-style-type: none"> - Report an outage/check outage status - Make a payment, view your bill and usage history. - Sign up for alerts. - Enroll in paperless billing, automatic bill pay, budget billing. - View your rate schedule at: ppelectric.com/rates
Phone: Call 1-800-342-5775	
Mail: Use envelope provided	
ABP: Automatic Bill Pay (see back of stub to enroll)	
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill ‡

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
27779-55005	Apr 9, 2018	\$59.32

Amount Enclosed:

<input type="text"/>									
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

PA STATE CORRECTIONAL INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Peak Demand, 1.00 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 27779-55005)

Previous Balance	\$57.83
Payment Received Mar 2, 2018 - Thank You!	-\$57.83
Balance as of Mar 8, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: GS1 for Feb 1 - Mar 5	
Distribution Charge:	
Customer Charge	22.00
1.0 kW at \$4.36000000 per kW	4.36
Smart Meter Rider - Phase 2	5.86
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider	-0.06
System Improvement Charge at 0.91%	0.29
Act 129 Compliance Rider	-0.34
Total Distribution Charges	\$32.17
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$27.15
Amount Due By Apr 9, 2018	\$59.32
Account Balance	\$59.32

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.31 of this bill to pay state taxes and about \$1.89 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter				
kWh Delivered (to Customer)				
Reading Dates Previous/Present	Meter Number	Meter Constant	Meter Reading Previous/Present	Kilowatt Hours
Feb 1 Mar 5	87583336	1	73682 74080	398
Days Billed: 32			Total Delivered	398

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
27779-55005	Apr 9, 2018	\$59.32

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.

For questions on these charges, please contact this supplier at:

) **Phone:**
1-844-427-5945

* WGL Energy Services
Customer Services
P.O. Box 7600
Hampton, VA 23666-0600

- Email EMP@wglenergy.com to access your free Energy Management Platform account

Charges for - WGL Energy Services

Generation & Transmission Charges for Feb 1 - Mar 5

Balancing Congestion	0.02
Transmission Adjustment: 2/1/2018-3/5/20	1.75
Total Use: 398 kwh at \$0.05976 per kwh	23.78
GROSS RECEIPTS TAX	1.60

Total WGL Energy Services Charges \$27.15

Total Generation & Transmission Charges: \$27.15



8

Pay/Manage your account online at ppelectric.com

Questions? Please contact us by Mar 9. 1-800-DIAL-PPL (1-800-342-5775)

Mon-Fri: 8am to 5pm

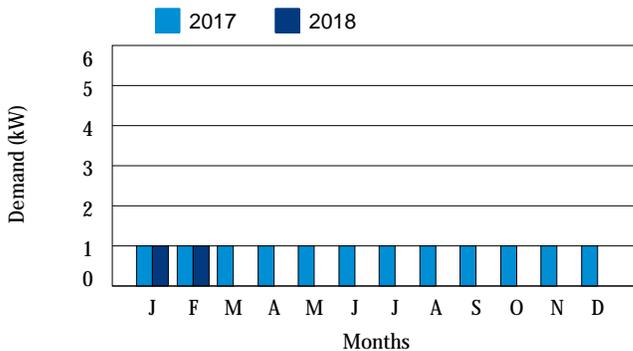
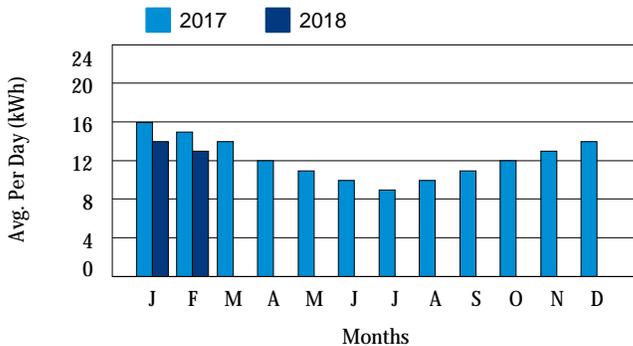
Bill Acct. No.	Due Date	Amount Due
27779-55005	Mar 9, 2018	\$57.83

Your Electric Usage Profile

Service to:
PA STATE CORRECTIONAL
INSTITUTION
RTE 405, ENTERANCE
MUNCY, PA 17756

Your next meter reading is on or about Mar 5, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Feb 6, 2018	\$0.00
Charges:	
Total Distribution Charges	\$32.19
Total Generation & Transmission Charges	\$25.64
Total Current Charges	\$57.83
Amount Due By Mar 9, 2018	\$57.83
Account Balance	\$57.83

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 27779-55005 Rate Schedule: GS1

Current Supplier: WGL Energy Services

PPL Electric Utilities price to compare for your rate is \$0.07701 per kWh. This changes the 1st of June and December.

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com	- Report an outage/check outage status
Phone: Call 1-800-342-5775	- Make a payment, view your bill and usage history.
Mail: Use envelope provided	- Sign up for alerts.
ABP: Automatic Bill Pay (see back of stub to enroll)	- Enroll in paperless billing, automatic bill pay, budget billing.
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	- View your rate schedule at: ppelectric.com/rates

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill †

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
27779-55005	Mar 9, 2018	\$57.83

Amount Enclosed:

<input type="text"/>									
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

PA STATE CORRECTIONAL
INSTITUTION
COMM OF PA -- UTILITY INV
PO BOX 69182
HARRISBURG, PA 17106

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET CPC-GENN1
ALLENTOWN, PA 18101-1175

Your Message Center

- ü Peak Demand, 1.00 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 27779-55005)

Page 2

Previous Balance	\$60.32
Payment Received Feb 2, 2018 - Thank You!	-\$60.32
Balance as of Feb 6, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: GS1 for Jan 4 - Feb 1	
Distribution Charge:	
Customer Charge	22.00
1.0 kW at \$4.36000000 per kW	4.36
Smart Meter Rider - Phase 2	5.86
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider	-0.06
System Improvement Charge at 0.91%	0.29
Act 129 Compliance Rider	-0.32
Total Distribution Charges	\$32.19
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$25.64
Amount Due By Mar 9, 2018	\$57.83
Account Balance	\$57.83

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$0.31 of this bill to pay state taxes and about \$1.89 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter				
kWh Delivered (to Customer)				
Reading Dates Previous/Present	Meter Number	Meter Constant	Meter Reading Previous/Present	Kilowatt Hours
Jan 4 Feb 1	87583336	1	73306 73682	376
Days Billed: 28			Total Delivered	376

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
27779-55005	Mar 9, 2018	\$57.83

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.

For questions on these charges, please contact this supplier at:

) **Phone:**
1-844-427-5945

* WGL Energy Services
Customer Services
P.O. Box 7600
Hampton, VA 23666-0600

- Email EMP@wglenergy.com to access your free Energy Management Platform account

Charges for - WGL Energy Services

Generation & Transmission Charges for Jan 4 - Feb 1

Balancing Congestion	0.13
Transmission Adjustment: 1/4/2018-2/1/20	1.53
Total Use: 376 kwh at \$0.05976 per kwh	22.47
GROSS RECEIPTS TAX	1.51

Total WGL Energy Services Charges \$25.64

Total Generation & Transmission Charges: \$25.64



8 Pay/Manage your account online at ppelectric.com

Questions? Please call our Business Accounts help line by Apr 26. 1-888-220-9991 Opt 4

PPL Electric Utilities

businessaccounts@pplweb.com

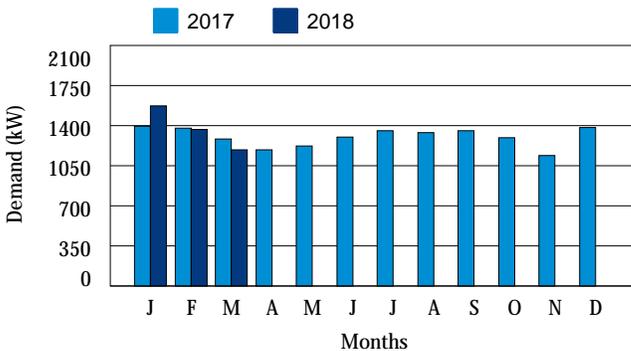
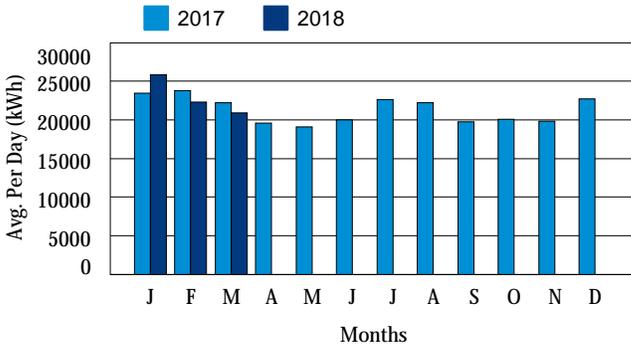
Bill Acct. No.	Due Date	Amount Due
92190-61005	Apr 26, 2018	\$41,687.70

Your Electric Usage Profile

Service to:
MUNCY INSTITUTION 5500
DEPT OF CORRECTIONS
6454 SR 405
MUNCY, PA 17756

Your next meter reading is on or about Apr 20, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Mar 26, 2018	\$0.00
Charges:	
Total Distribution Charges	\$3,786.98
Total Generation & Transmission Charges	\$37,900.72
Total Current Charges	\$41,687.70
Amount Due By Apr 26, 2018	\$41,687.70
Account Balance	\$41,687.70

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:

Bill Account Number: 92190-61005 Rate Schedule: LP4

Current Supplier: Talen Energy

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com Phone: Call 1-800-342-5775 Mail: Use envelope provided ABP: Automatic Bill Pay (see back of stub to enroll)	<ul style="list-style-type: none"> - Report an outage/check outage status - Make a payment, view your bill and usage history. - Sign up for alerts. - Enroll in paperless billing, automatic bill pay, budget billing. - View your rate schedule at: ppelectric.com/rates
Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	

Correspondence:

Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill ‡

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
92190-61005	Apr 26, 2018	\$41,687.70

Amount Enclosed:

--	--	--	--	--	--	--	--	--	--

MUNCY INSTITUTION 5500
DEPT OF CORRECTIONS
6454 SR 405
MUNCY, PA 17756

PPL ELECTRIC UTILITIES
P.O. BOX 25222
LEHIGH VALLEY, PA 18002-5222

Your Message Center

- ü Peak Demand, 1194.00 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 92190-61005)

Previous Balance	\$44,610.39
Payment Received Mar 21, 2018 - Thank You!	-\$44,610.39
Balance as of Mar 26, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: LP4 for Feb 20 - Mar 21	
Distribution Charge:	
Customer Charge	169.80
1,194.0 kW at \$2.54700167 per kW	3,041.12
Smart Meter Rider	121.96
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider / Customer	-22.03
System Improvement Charge at 0.91%	34.15
Act 129 Compliance Rider	442.15
PA Tax Adj Surcharge at -0.00600000%	-0.23
Total Distribution Charges	\$3,786.98
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$37,900.72
Amount Due By Apr 26, 2018	\$41,687.70
Account Balance	\$41,687.70

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$36.73 of this bill to pay state taxes and about \$223.43 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter

kWh Delivered (to Customer)

Reading Dates		Meter	Meter	Meter Reading		Kilowatt
Previous/Present		Number	Constant	Previous/Present		Hours
Feb 20	Mar 21	77825923	600	19820	20430	366000
Feb 20	Mar 21	77825827	600	10452	10855	241800
Days Billed: 29				Total Delivered		607800

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

State Tax Adjustment Surcharge - Monthly charge or credit to reflect changes in various state taxes. The surcharge may vary by bill component.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____

Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



8

Pay/Manage your account online at pplweb.com

)

Questions? Please call our Business Accounts help line by Apr 26. 1-888-220-9991 Opt 4

businessaccounts@pplweb.com

Bill Acct. No.	Due Date	Amount Due
92190-61005	Apr 26, 2018	\$41,687.70

Understanding Your Bill (cont'd)

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
92190-61005	Apr 26, 2018	\$41,687.70

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.



For questions on these charges,
please contact this supplier at:

Phone:
1-888-289-7693

* Talen Energy
Customer Services
P.O. BOX 25225
LEHIGH VALLEY, PA 18002

Charges for - Talen Energy

Generation & Transmission Charges for Feb 20 - Mar 21

Base Load 607,800 kWh @ \$0.05529 /kWh	33,605.26
Nit Incr Cost 1,450.98 KW @ \$0.04894 / K	2,059.32
GROSS RECEIPTS TAX	2,236.14

Total Talen Energy Charges	\$37,900.72
----------------------------	-------------

Total Generation & Transmission Charges: \$37,900.72



8

Pay/Manage your account online at ppelectric.com

Questions? Please call our Business Accounts help line by Mar 28. 1-888-220-9991 Opt 4

PPL Electric Utilities

businessaccounts@pplweb.com

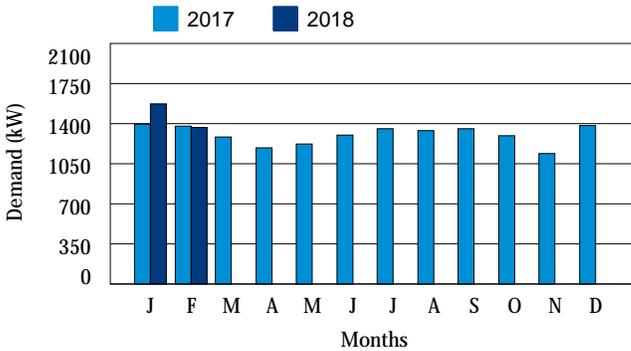
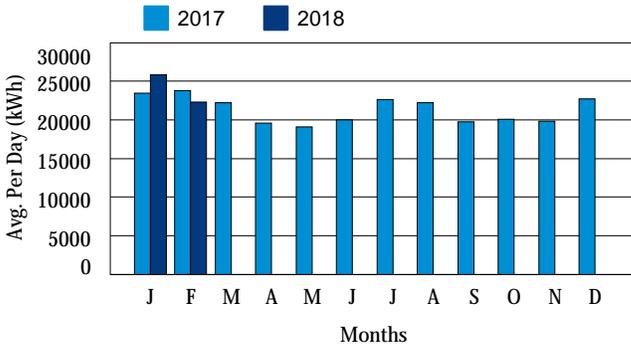
Bill Acct. No.	Due Date	Amount Due
92190-61005	Mar 28, 2018	\$44,610.39

Your Electric Usage Profile

Service to:
MUNCY INSTITUTION 5500
DEPT OF CORRECTIONS
6454 SR 405
MUNCY, PA 17756

Your next meter reading is on or about Mar 21, 2018.

This section helps you understand your year-to-year electric use by month. Meter readings are actual unless otherwise noted.



Billing Summary

(Billing details on back)

Balance as of Feb 23, 2018	\$0.00
Charges:	
Total Distribution Charges	\$4,241.89
Total Generation & Transmission Charges	\$40,368.50
Total Current Charges	\$44,610.39
Amount Due By Mar 28, 2018	\$44,610.39
Account Balance	\$44,610.39

How To Shop For Electricity

You can choose the company that supplies your electricity. Visit papowerswitch.com or www.oca.state.pa.us for supplier offers. If you are shopping, know your contract expiration date.

Here's the information you need to shop:
Bill Account Number: 92190-61005 Rate Schedule: LP4
Current Supplier: Talen Energy

Manage Your Account

Pay Your Bill	Online Options (ppelectric.com)
Online: Visit ppelectric.com Phone: Call 1-800-342-5775 Mail: Use envelope provided ABP: Automatic Bill Pay (see back of stub to enroll) Card: MasterCard, Discover, Visa or debit, call 1-844-278-3310 (service fee applies)	<ul style="list-style-type: none"> - Report an outage/check outage status - Make a payment, view your bill and usage history. - Sign up for alerts. - Enroll in paperless billing, automatic bill pay, budget billing. - View your rate schedule at: ppelectric.com/rates

Correspondence:
Customer Services, 827 Hausman Road, Allentown, PA 18104-9392

Other important information on the back of this bill ‡

Return this stub in the envelope provided with a check payable to PPL Electric Utilities.

Sign up for Automatic Bill Pay on the back of this bill stub.

Bill Acct. No.	Due Date	Amount Due
92190-61005	Mar 28, 2018	\$44,610.39

Amount Enclosed:

<input type="text"/>									
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------



MUNCY INSTITUTION 5500
DEPT OF CORRECTIONS
6454 SR 405
MUNCY, PA 17756

PPL ELECTRIC UTILITIES
P.O. BOX 25222
LEHIGH VALLEY, PA 18002-5222

Your Message Center

- ü Peak Demand, 1370.64 kW.
- ü Before digging around your home or property, you should always call the state's One Call notification system to locate any underground utility lines. You can do this by simply dialing 811, which will connect you to the One Call system. Be safe and call 811 before you dig.
- ü Save postage and late charges - sign up for Automated Bill Payment.

Billing Details - (Bill Acct. 92190-61005)

Previous Balance	\$57,387.10
Payment Received Feb 20, 2018 - Thank You!	-\$57,387.10
Balance as of Feb 23, 2018	\$0.00
Charges for - PPL Electric Utilities	
General Service Rate: LP4 for Jan 22 - Feb 20	
Distribution Charge:	
Customer Charge	169.80
1,371.0 kW at \$2.54700218 per kW	3,491.94
Smart Meter Rider	121.96
Competitive Enhancement Rider	0.06
Storm Damage Expense Rider / Customer	-22.03
System Improvement Charge at 0.91%	38.26
Act 129 Compliance Rider	442.15
PA Tax Adj Surcharge at -0.00600000%	-0.25
Total Distribution Charges	\$4,241.89
Total Generation & Transmission Charges (see Supplier Billing Details page)	\$40,368.50
Amount Due By Mar 28, 2018	\$44,610.39
Account Balance	\$44,610.39

General Information

Generation prices and charges are set by the electric generation supplier you have chosen. The Public Utility Commission regulates distribution rates and services. The Federal Energy Regulatory Commission regulates transmission prices and services.

PPL Electric Utilities uses about \$41.14 of this bill to pay state taxes and about \$250.27 is used to pay the PA Gross Receipts Tax.

kWh Use By Meter						
kWh Delivered (to Customer)						
Reading Dates		Meter	Meter	Meter Reading		Kilowatt
Previous/	Present	Number	Constant	Previous/	Present	Hours
Jan 22	Feb 20	77825923	600	19162	19820	394800
Jan 22	Feb 20	77825827	600	10027	10452	255000
Days Billed: 29					Total Delivered	649800

Understanding Your Bill

Act 129 Compliance Rider - Monthly charge to recover costs for energy efficiency and conservation programs approved by the PUC.

Storm Damage Expense Rider - Monthly charge to recover certain costs to make repairs after major storms.

Competitive Enhancement Rider - Monthly charge to recover costs to support shopping for retail electricity supply.

Customer Charge - Monthly charge to recover costs of billing, meters and equipment.

Distribution Charge - Monthly charge to recover costs of local equipment used to deliver electricity from high-voltage transmission lines (see Transmission Charge) and safely step down voltage for use in your home or business.

Smart Meter Rider - Monthly charge to recover costs associated with the smart meter programs approved by the PUC.

System Improvement Charge - Monthly charge to recover costs for improving, repairing and replacing equipment that delivers electricity to your home or business.

kWh (Kilowatt-hour) - A measure of how much electricity your household uses. One kilowatt-hour equals the amount of electricity used by ten 100-watt lights left on for one hour.

State Tax Adjustment Surcharge - Monthly charge or credit to reflect changes in various state taxes. The surcharge may vary by bill component.

kWh Delivered to Customer - The amount of electricity we delivered to you for your use.

*Federal I.D. 23-0959590

Enroll in Automatic Bill Pay (ABP) and your monthly electric payment will be automatically deducted from your bank checking account. To enroll, sign and date this form and return with your check payment (voided check not required). Money orders, cashier and foreign checks do not qualify for enrollment.

I authorize PPL Electric Utilities to automatically deduct from the checking account as shown on my enclosed check, all future payments for the PPL Electric Utility bill account number listed on this payment stub. I will notify PPL Electric Utilities if I decide to cancel this authorization.

Checking Account holder signature _____ Date _____

NOTE: To enroll using a savings account for ABP, visit the billing and payments section at www.pplelectric.com/my-account



8

Pay/Manage your account online at ppllectric.com

)

Questions? Please call our Business Accounts help line by Mar 28. 1-888-220-9991 Opt 4

businessaccounts@pplweb.com

Bill Acct. No.	Due Date	Amount Due
92190-61005	Mar 28, 2018	\$44,610.39

Understanding Your Bill (cont'd)

Type(s) of Meter Readings:

Actual - Measures your monthly electricity use based on an actual reading.



PPL Electric Utilities

Supplier Billing Details

Bill Acct. No.	Due Date	Amount Due
92190-61005	Mar 28, 2018	\$44,610.39

These are the generation and transmission charges from your supplier(s). If you have questions, please contact the supplier that served you during that period.



For questions on these charges, please contact this supplier at:

Phone:
1-888-289-7693

* Talen Energy
Customer Services
P.O. BOX 25225
LEHIGH VALLEY, PA 18002

Charges for - Talen Energy

Generation & Transmission Charges for Jan 22 - Feb 20

Base Load 649,800 kWh @ \$0.05529 /kWh	35,927.44
Nit Incr Cost 1,450.98 KW @ \$0.04894 / K	2,059.32
GROSS RECEIPTS TAX	2,381.74

Total Talen Energy Charges	\$40,368.50
----------------------------	-------------

Total Generation & Transmission Charges: \$40,368.50

SECTION 08560
 POLYVINYL CHLORIDE (PVC) WINDOWS
 Viwinco Inc.
 Series/Model: OceanView Double Hung Window

Part 1 – General

- 1) APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in text by basic designation only.
 - a) Code of Federal Regulations (CFR)
 - i) 16 CFR 1201 Consumer Product Safety Commission. Safety Standard for Architectural Glazing Materials
 - b) American Architectural Manufacturers Association (AAMA), National Fenestration Rating Council (NFRC), American Society for Testing and Materials (ASTM)
 - i) North American Fenestration Standard/Specification for windows, doors, and skylights (AAMA/WDMA/CSA 101/1.S.2/A440)
 - (1) Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen (ASTM E 283)
 - (2) Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Differences (ASTM E 330)
 - (3) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Differences (ASTM E 547)
 - (4) Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units (ASTM E 774)
 - (5) Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact (ASTM F 588)
 - ii) Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weatherseals (AAMA 701/702)
 - iii) Voluntary Specification for Sash Balances (AAMA 902)
 - iv) Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections (AAMA 1503)
 - v) Procedure for Determining Fenestration Product U-Factors (NFRC 100)
 - vi) Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (NFRC 200)
 - c) AAMA Certification Program for Vinyl Window Manufacturers
- 2) SUBMITTALS – Submit to contractor officer for approval
 - a) Certified Test Reports: Submit for air infiltration, water resistance, and uniform loading in accordance with the above referenced specification.
 - b) Catalog Data: Shall describe each type of window, hardware, fastener, accessory, operator, screen, and finish.
 - c) Certification of Compliance: Submit certificates that identical windows have been successfully tested and meet the requirements specified herein for air infiltration and water penetration.
 - d) Selection Samples: Select from Manufacturer's full range of colors.

- 3) DELIVERY AND STORAGE – Deliver windows to project site in an undamaged condition. Use care in handling and hoisting during transportation and at the job site. Store windows and components out of contact with the ground, under cover, protected from weather, so as to prevent damage to the windows. Do not use unvented plastic or canvas shelters. Provide ¼” space between units to promote air circulation. Damaged windows shall be repaired to an “as new” condition or replaced as approved.
- 4) PROTECTION: Finished surfaces shall be protected during shipping and handling using manufacturers’ standard method.
- 5) CERTIFICATION: Window units shall be tested and certified for performance with the above referenced test methods. All window units shall be labeled certifying conformance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 100, NFRC 200, and Energy Star, Program Requirements for Residential Windows, Doors and Skylights.
- 6) CERTIFIED FABRICATOR: Windows shall be fabricated by an AAMA Certified Fabricator.
- 7) WARRANTIES:
 - a) Windows shall be fully warranted against any defects in material or workmanship under normal use and service for a period of 20 years from date of acceptance on commercial projects and lifetime limited warranty to original homeowner on residential projects, 1 year factory labor included.
 - b) Insulated Glass Units shall be fully warranted against visual obstruction resulting from film formation or moisture collection between the interior glass surface, excluding breakage, for a period of 20 years from date of acceptance on commercial projects and lifetime warranty to original homeowner on residential projects, 1 year factory labor included.
 - c) Contractor shall provide a written service warranty that clearly spells out how requests for service shall be handled, by whom, under whose responsibility and shall include the time frame for handling these service requests. A labor warranty providing service on the windows shall cover a period of not less than 5 years, and shall be provided in writing. A copy of the product and labor warranty must accompany other applicable warranties and be presented with the bid.
- 8) PERFORMANCE REQUIREMENTS – General – Provide vinyl windows capable of complying with performance requirements indicated, based on testing manufacturer’s windows that are representative of those specified
 - a) Test for air infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. On a test, the air rate shall not be greater than 0.3 cfm per square foot of sash area.
 - b) Test for water infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. Test results for different window sizes appear below.
 - c) Uniform Load Structural Test, with the window closed and locked, shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. Test results for different window sizes appear below.
 - d) Test for Missile Impact shall be in accordance with ASTM E1886/E1996-02, or ASTM E1886/E1996-05.

Type	Primary Product Designator	Max. Structural Test Pressure ₁	Water Infiltration ₂	Air Infiltration ₃
H	Missile Level D, Wind Zone 3, DP +/-70, 36x72	105.26	10.65	0.11
H	Missile Level D, Wind Zone 3, DP +/-50, 48x72	75.24	7.52	0.01

₁Structural Test Pressure (psf) tested to at least 150% of DP rating

₂Water infiltration (psf) tested to at least 15% of DP rating
 ₃Air Infiltration units are scfm/ft²

- e) Test for Thermal Performance shall be in accordance with NFRC 100, and NFRC 200.
 f) Test for Condensation Resistance Factor (CRF) shall be in accordance with AMMA 1503-98

Reinforcement Option	Thermal Package	Foam ₁	Grid Type	Total Window U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Factor
≤36 x 72	30/30	No	None	0.28	0.28	0.52	58
	30/30	No	Standard	0.28	0.25	0.46	58
	30/30	No	Deluxe	0.29	0.25	0.46	58
	30/30	No	Deluxe w/SDLs	0.29	0.25	0.46	58
	R4	No	None	0.24	0.27	0.46	47
	R4	No	Standard	0.24	0.24	0.41	47
	R4	No	Deluxe	0.25	0.24	0.41	47
	R4	No	Deluxe w/SDLs	0.25	0.24	0.41	47
	R5	Yes	None	0.22	0.19	0.41	48
	R5	Yes	Standard	0.22	0.17	0.36	48
	R5	Yes	Deluxe	0.22	0.17	0.36	48
	R5	Yes	Deluxe w/SDLs	0.22	0.17	0.36	48
>36 x 72 ≤48 x 72	30/30	No	None	0.29	0.28	0.52	58
	30/30	No	Standard	0.29	0.25	0.46	58
	30/30	No	Deluxe	0.30	0.25	0.46	58
	30/30	No	Deluxe w/SDLs	0.30	0.25	0.46	58
	R4	Yes	None	0.24	0.27	0.46	47
	R4	Yes	Standard	0.24	0.24	0.41	47
	R4	Yes	Deluxe	0.25	0.24	0.41	47
	R4	Yes	Deluxe w/SDLs	0.25	0.24	0.41	47
	R5	NOT APPLICABLE					

₁ Requires foam filled frame and sash components. See Part 2, Section g, for details.

PART 2 – Products

- 1) MANUFACTURER: Viwinco Ocean View Double Hung Window as manufactured by Viwinco, Inc., located at 851 Hemlock Road, Morgantown, PA 19543-0499. Phone (610) 286-8884.
www.viwinco.com

- 2) Materials – Windows shall conform to the requirements of specifications listed above. Provide windows of combinations, types and sizes indicated or specified.
- a) Frame
 - i) Extruded PVC components, produced from commercial quality virgin PVC (unplasticized polyvinyl chloride), conforms to AAMA 303, Voluntary Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles, from sections in one piece, straight, true and smooth. Provide multi-chambered PVC extruded frame in accordance with the manufacturer's standard practice. Make fusion welded frame joints strong enough to develop full strength of members, with integral nailing flange and an exterior wall thickness of .070. Jamb depth will measure 3.25". Head and jamb members shall have accessory grooves, integral screen stops, and beveled exterior.
 - ii) Sill –Exterior wall thickness is .080" sloped 5 degrees with a step down screen track. The double wall sill dam is fully welded to the jamb with a 0.945" height. The sill has a replaceable, snap in double wall sill dam leg with one contact point of weather-strip and is mortised ¼" into jambs. Sill dam leg is installed with a bedding bead of silicone sealant to create a 1.440" total height.
 - b) Sash –
 - i) Make interior horizontal top surfaces of both meeting rails flat and in the same plane. Meeting rails have an integral interlock with two contact points of pile weather-strip provided. Sash shall have fusion welded miter corners with an external wall thickness of .070. Upper and lower sashes shall have equal glass sight lines. Bottom sash shall have one continuous, integral lift rail. All sash units shall be triple weather-stripped where the sash meet the jamb using silicone treated pile with a mylar center fin bonded to backing. There shall be two contact points of weather-stripping where the lower sash comes into contact with the master frame sill. The one at the highest point of the sill will be silicone treated pile and the second is co-extruded flexible sill bulb which is designed to snap in place and wrap underneath the sash.
 - ii) Sash shall be reinforced on all sides with aluminum extrusions in chambered profiles.
 - c) Glass – Factory glazed 15/16" insulating glass conforming to ASTM E 2190, Standard Specification for Insulating Glass Unit Performance and Evaluation. (8.8mm) laminated glass with .090 PVB on the interior lite and 1/8" (3mm) double strength Low-E tempered glass on the outboard lite. Complies with ASTM D 2190, Specification for Vinyl Acetate. Glass with Ultra Intercept Stainless Steel Spacer and argon gas. Glazing shall be exterior glazed against a bead of structural silicone, secured with PVC mitered glazing beads and designed to maintain a watertight seal between glass and sash frame.
 - d) Hardware
 - i) Balance Mechanism: Provide stainless steel 3/4" thick constant force coil balance springs for sash. Balances shall also have an interlocking pivot bar, for integral frame alignment with sash for keeping window frames straight and true during installation.
 - ii) The upper sash has two night vents standard.
 - iii) Window operating control devices that meet ASTM F 2090, Specification for Window Fall Prevention Devices.
 - iv) Tilt- n- Lock hardware system combines the locking action of the cam lock with the tilt-release mechanism for tilting so there are no visible tilt latches on the meeting rail of the lower sash. The elongated C-shaped aluminum reinforcement shall run the entire width of the meeting rail and house the tilt latch slide bolts. Slide bolts shall be connected to the lock with a unique strapping system. Double locks where openings exceed 36.25" in width with the right lock engaging the tilt function.

- v) Tilt Latches: Upper sash shall have two low profile tilt latches that shall be integrally mortised into the top rail for a clean appearance.
 - e) Security Screen: Provide Larson SecurePRO Security Screen Windows. Stainless steel screen mesh built into frame that mounts over window opening on exterior. Provide tamper resistant installation screws.
 - f) Caulking and Sealing: As specified or recommended by window manufacturer.
 - g) Foam: To achieve R4 and R5 U-factors for certain configurations, manufacturing sprays a two part polyurethane foam into specific cavities in the frame and sash lineals for processing that same day.
- 3) Fabrication
- a) Weathering Surfaces: All frame members shall be multi-chambered PVC extrusions utilizing double wall design without the need for reinforcement. Frame corners shall be fusion welded. Sash members shall be multi-chambered PVC extrusions utilizing double wall design at all glazing locations. Horizontal sash members shall be mitered and fusion welded to vertical sash members.
 - b) Drips and Weep Holes: Provided as required to return water to the outside.
 - c) Glazing Thickness: Design glazed windows and rabbets suitable for glass thickness specified above.
 - d) Fasteners: All fasteners are to be stainless steel type, corrosion resistant. Use flathead, cross-recessed type, exposed head screws with standard threads on windows, trim, and accessories. Screw heads shall finish flush with adjoining surfaces. Self-tapping sheet metal screws are not acceptable for material more than 1/16" in thickness. All sheet metal screw fasteners shall penetrate into a PVC screw boss, or screw raceway, or internal .062" wall thickness aluminum reinforcement to secure fastening and reduce pull out.
 - e) Provisions for Glazing: Design sash for outside double-glazing and for securing glass with manufacturer's standard glazing systems. Provide glazing channels of adequate size and depth to receive and properly support the glass and glazing accessories.
 - f) Factory Mulls: Factory mulls to be fully reinforced with 2 ½" aluminum extrusions for a structurally rated mullion, and assembled utilizing interior and exterior "U" channels and proprietary sealant application patterns. Continuous PVC snap in head flashing to provide for proper shedding of water off the head frame.
 - g) Accessories: Coordinate with existing conditions and provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation including but not limited to:
 - 2 ¼" Brick Mould Casing
 - 3 ½" Flat Casing
 - Sill Nose
 - Brick Mould J Channel Extender
 - Basic J Channel Extender
 - J Pocket Filler
 - h) PVC Color Selection: Integral PVC color with UV inhibitors to reduce fading. Owner to select color for manufacturers standard colors.
 - i) Interior / Exterior Color Selection: Laminating films in accordance with RAL 716/1 and EN 513-2 resist abrasion and weather. Owner to select color for manufacturers standard colors.
 - j) Weather-stripping: Provide for ventilating sections of all windows to insure a weather tight seal meeting the infiltration tests specified herein. Use easily replaceable factory

applied weather-stripping of manufacturer's stock type, as specified above. For sliding surfaces, use silicone treated pile, with a mylar center fin bonded to a plastic-backing strip. Do not use neoprene or polyvinylchloride weather-stripping where they will be exposed to direct sunlight.

- k) Security Screen: Provide Larson SecurePRO Security Screen Windows. Stainless steel screen mesh built into frame that mounts over window opening on exterior. Provide tamper resistant installation screws.

PART 3 – Execution

1) Examination

- a) Have installer verify that project conditions are acceptable before beginning installation of products; verify that rough openings are as indicated, and are correct sizes for clearance spaces specified in manufacturer's instructions.
- b) Correct unacceptable conditions before proceeding with installation.

2) Installation

- a) Method of Installation: Install in strict accordance with the window manufacturer's printed instructions and details, except as specified otherwise herein. Install windows without forcing into prepared window openings. Insulate perimeter of window frame with acceptable approved insulation material, as recommended by window manufacturer. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt, and building materials by keeping ventilators tightly closed and locked to frame. Bed screws in sill members, joints at mullions, contacts of windows with sills, built in fins, and sub-frames in approved sealant. Install windows in a manner that will prevent entrance of water. Provide sill angle flashed in sealant at windowsills where applicable.
- b) Anchors and Fasteners: Make ample provision for securing units to each other, and to adjoining construction.
- c) Adjustments after Installation: After installation of windows adjust all ventilators and hardware to operate smoothly and to provide weather tight sealing when ventilators are closed and locked. Lubricate hardware operating parts as necessary.
- d) Protection: Where surfaces are in contact with, or fastened to wood or dissimilar materials, the surface shall be protected from dissimilar materials as recommended by the manufacturer. Surfaces in contact with sealant after installation shall not be coated with any type of protective material.

- 3) Cleaning: Clean interior and exterior of window units of mortar, plaster, paint spattering spots, sealants, and other foreign matter to present a neat clean appearance and to prevent fouling of weather-stripping surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace with new windows all stained, discolored, or abraded window that cannot be restored to their original condition.

END OF SECTION

APPENDIX M

GESA Contract

Guaranteed Energy Savings Act Contract GESA [PROJECT NUMBER AND NAME] Project

This Guaranteed Energy Savings Act Contract (“GESA Contract”) for a GESA Project is executed this ____ day of _____, 20____, by and between the **[FUNDING AGENCY]** (“Funding Agency”), an executive agency of the Commonwealth of Pennsylvania authorized to enter into GESA Contracts pursuant to 62 Pa C. S. §§3751-3758, and **[GESA CONTRACTOR]** (“GESA Contractor” or “Contractor”), a company organized under the Laws of the State of **[STATE]**, with its principal offices located at **[GESA CONTRACTOR ADDRESS]**.

ARTICLE 1 – CONTRACT DOCUMENTS

- 1.1 The Contract Documents shall consist of this GESA Contract, the Request for Quote (“the RFQ”), the Contractor’s Quote submitted in response to the RFQ, the Contract Bonds, the Conditions of the Contract (General, Special, Supplementary, and other Conditions), all drawings created by or for the Contractor and/or its Retained Professional, the specifications created by or for the Contractor and/or its Retained Professional, the Scope of Work by ECM (**Exhibit 1**), all bulletins and addenda issued prior to execution of this Contract, all change orders, the Administrative Procedures for the GESA Contract, the Installment Purchase Agreement and Payment Schedule, and the Investment Grade Audit Contract Documents, and the Investment Grade Audit. These documents form the Contract and are as fully part of the Contract as if attached to this Contract.

ARTICLE 2 – SCOPE OF WORK

- 2.1 The Contractor shall perform all the Work required by the Contract Documents as stated in the RFQ for the design and implementation/construction of the **[PROJECT NUMBER AND NAME]** (“Project”).

ARTICLE 3 – TERM

- 3.1 The term of this Contract shall commence upon the Effective Date of this Contract and shall run for **[LENGTH OF CONSTRUCTION]** calendar days. The Effective Date of this Contract shall be the date of the last required Commonwealth signature.
- 3.2 The format and scope of the Work shall be as stated in the RFQ and the Investment Grade Audit.
- 3.3 Time is of the essence and if the Contractor fails to complete the Work within the time specified above, the Contractor shall pay the Funding Agency, as Liquidated Damages and not as a penalty for such failure, the sum of **[LIQUIDATED DAMAGES {AMOUNT PER DGS’ CALCULATION} WRITTEN & NUMERICAL]** (\$0.00) per day for each and every calendar day after the completion date until the Work is completed and accepted. The Funding Agency may extend the completion date of the GESA Contract for causes stated in the General Conditions of the GESA Contract (“General Conditions”) that, in fact, delay the completion of the Work. In such case, the Contractor is liable for said Liquidated Damages only after the expiration of the extended period.

ARTICLE 4 – CONTRACT SUM

- 4.1 The Funding Agency will authorize a financing provider, procured separately, to pay the Contractor for the performance of the Work subject to additions and deductions by change order, as provided in the

General Conditions, the Contract Sum of [**CONTRACT SUM – WRITTEN AND NUMERICAL**] (\$). Payment will be made as stated in the General Conditions. Deductions from, or additions to, this sum will be made as stated in the General Conditions. The Funding Agency is not liable for any debt due to the GESA Contract.

ARTICLE 5 – PROGRESS PAYMENTS AND RETAINAGE

- 5.1 Based upon Applications for Release of Payment submitted to the Funding Agency by the Contractor, the Funding Agency will authorize the financing provider to release progress payments to the Contractor, in accordance with the provisions of the Prompt Payment Schedules found in the Commonwealth Procurement Code, 62 Pa. C.S. §3931-§3939, and the Administrative Procedures, which are both incorporated by reference and made a part hereof as if those provisions were fully and at length recited, except that, where those provisions refer to the government agency, it is deemed to refer to the Funding Agency. The Funding Agency will retain a portion of the amount due to the Contractor to insure the proper performance of the Contractor in each Application for Release of Payment in accordance with the provisions of Retainage found in the Commonwealth Procurement Code, 62 Pa. C.S. §3921, and the General Conditions, which are both incorporated by reference and made a part hereof as if those provisions were fully and at length recited, except that, where those provisions refer to the government agency, it is deemed to refer to the Funding Agency.

ARTICLE 6 – FINAL PAYMENT

- 6.1 Final Payment, constituting the entire unpaid balance of the Contract Sum, will be approved by the Funding Agency for release by the financing provider to the Contractor within thirty (30) days after Closeout Inspection of the Work if the Contract has been fully performed and a Final Application for Release of Payment has been submitted, as provided in the General Conditions.

ARTICLE 7 – SMALL DIVERSE BUSINESS PARTICIPATION

- 7.1 The Contractor provided its Small Business (“Small Business”) and Small Diverse Business (i.e., minority owned small business, woman owned small business, veteran owned small business, service disable veteran owned small business, LGBT owned small business, or disability owned small business) (“Small Diverse Business”) percentages for Small Business & Small Diverse Business Subcontracts, suppliers, and manufacturers for this Project in its Quote. The GESA Contractor’s Small Business & Small Diverse Business percentage is included in Exhibit 1.

ARTICLE 8 – MISCELLANEOUS PROVISIONS

- 8.1 Terms used in this Contract defined in the General Conditions have the meanings designated in those General Conditions.
- 8.2 In addition to any other guarantees or warranties, the Contractor covenants and agrees after acceptance of the Work performed under this Contract, to remedy without cost to the Funding Agency, any such defect in the Work, provided said defects in the reasonable judgment of the Funding Agency, or its successors having jurisdiction over the premises, are caused by defective or inferior materials, equipment, or workmanship. If the corrective Work is not completed within thirty (30) days after the notification by the Funding Agency to the GESA Contractor, the Funding Agency may do the Work and submit those costs to the Surety Company for reimbursement.

- 8.3 The Contract Bonds given by the Contractor conditioned upon the faithful performance of the Contract and for the payment of labor, material, equipment, and public utility service claims are attached to this Contract and are made a part of it. No third party shall acquire any rights against the Funding Agency under the Contract Documents. The Performance Bond does not cover the Assured Performance Guarantee or guaranteed savings under the Contract Documents. However, failure to meet Assured Performance Guarantee or guaranteed savings may be the result of defective or inferior materials, equipment, or workmanship due to the Contractor's failure of faithful performance. Where and when such cases of defective and/or nonconforming work occurs, such defective and/or nonconforming work is covered by the Performance Bond.
- 8.4 The Contractor agrees to abide by and be bound by the Laws of Pennsylvania, including those relating to and regulating the hours and conditions of employment.
- 8.5 Nothing in this Contract shall be deemed to waive or otherwise affect the sovereign immunity of the Commonwealth and its agencies, officers, and employees, or to subject any Commonwealth party to any liability not expressly authorized by law.
- 8.6 Any person, co-partnership, association, or corporation furnishing labor, material, equipment or renting equipment, or rendering public utility services in connection with the performance of this GESA Contract, has a right of action to recover the cost from the Contractor and the Surety on the Bond given to secure the payment of such labor, material, equipment, or equipment rental and services rendered by public utility as though such person or corporation had been named as Obligee in the Bond. For those who do not have a Contract directly with the Contractor, this right of action may not be exercised unless the Contractor is notified of the claim within ninety (90) days from the last performance of labor or provision of materials. The Contractor shall include in all of its Subcontracts or supply Contracts a provision requiring that its Subcontractors and Suppliers notify, in writing, their Subcontractors and Suppliers of this requirement. It is agreed that no third-party rights arise against the Funding Agency for any reason under this Article, and the Contractor agrees to inform all Subcontractors and Suppliers in writing.
- 8.7 This Contract may be executed in one or counterparts, each of which is an original, and all of which together are a single Contract.

ARTICLE 9 – CONTRACT COMPLIANCE REGULATIONS

- 9.1 Refer to the appropriate paragraph of the General Conditions (which are made a part of this Contract by incorporation by reference), which prohibits discrimination in hiring or employment opportunities. Also made a part of this Contract by incorporation by reference are all State and Federal Laws prohibiting discrimination in hiring or employment opportunities. The Contract Documents also list applicable statutory provisions, which are incorporated by reference into this GESA Contract.

ARTICLE 10 – ASSURED PERFORMANCE GUARANTEE

- 10.1 The Contractor is required to guarantee energy and cost savings stipulated in this Contract on an annual basis. The savings must be guaranteed to equal or exceed the Project financing payment, plus the service fees during that year for the Contract duration. No credit for savings above the annual guarantee will be credited toward the performance guarantees for future years of this Contract. The

recovery of Contract costs from energy savings over the term of this Contract shall not exceed **[PAYBACK PERIOD – WRITTEN & NUMERICAL] () years**. Refer to the Assured Performance Guarantee (which is made a part of this Contract by incorporation) for the Contractor’s requirements regarding documenting and verifying the annual energy and/or cost savings that are attributed to this Project **(Exhibit 2)**.

[SIGNATURE PAGE IMMEDIATELY FOLLOWS.]

The parties have caused this contract to be executed on the dates written above.

ATTEST:

Secretary/Treasurer *Date*

[CONTRACTOR]

[NAME] President *Date*

**COMMONWEALTH OF PENNSYLVANIA
ACTING THROUGH [FUNDING AGENCY]**

ATTEST:

Date

Secretary *Date*

I hereby certify that funds in the amount of
\$ _____
Are available under Appropriation Symbol

Comptroller Operations *Date*
*(Comptroller Operations execution may be by electronic
signature and does not imply verification of funds)*

APPROVED AS FORM AND LEGALITY

Office of Chief Counsel *Date*
Department of General Services

Office of General Counsel *Date*

Office of Attorney General *Date*

CONTRACT BOND

KNOW ALL PERSONS BY THESE PRESENTS, That we the undersigned

as Principal and

as the Surety Company, a Corporation organized and existing under the Laws of the State of

_____ and authorized to transact business in Pennsylvania, as surety, are held and firmly bound unto the **[FUNDING AGENCY]** ("Funding Agency"), as hereinafter set forth, in the full and just several sums of:

(A) _____ Dollars

(\$ _____) for faithful performance of the GESA Contract as designated in Paragraph "A" below; and

(B) _____ Dollars

(\$ _____) for payment for labor, material equipment rental and public utility services as designated in Paragraph "B" below; and

Sealed with our respective seals and dates this _____ day of _____.

WHEREAS, the above Principal has entered into a GESA Contract with the Department of General Services dated the _____ day of _____, 20__ for _____ upon certain terms and conditions in said GESA Contract more particularly mentioned; and

WHEREAS, it is one of the conditions of the Award pursuant to which said GESA Contract is about to be entered into, that these presents be executed;

NOW, THEREFORE, the joint and several conditions of this obligation are such:

A. That, if the above Principal as GESA Contractor shall well and faithfully do and perform the things agreed by it to be done and performed according to the terms of said Contract Documents, including the plans and specifications therein referred to and made part thereof, and such alterations as may be made in said plans and specifications as therein provided and which are hereby made part of this Bond the same as though they were fully set forth herein, and shall indemnify and save harmless the Department of General Services and all of their officers, agent and employees from any expense incurred through the failure of said GESA Contractor to complete the Work as specified and for any damages growing out of the manner of performance of said GESA Contract by said GESA Contractor or its Subcontractors, or their agents or servants, including, but not limited to, patent trademark and copyright infringements, then this part of this obligation shall be void; otherwise, it shall be and remain in full force and effect.

B. That, if the above Principal shall and will promptly pay or cause to be paid all sums of money which may be due by the Principal or any of its Subcontractors to any person, co-partnership, association or corporation for all material furnished and labor supplied or performed in the prosecution of the work, whether or not the said material or labor entered into and become component parts of the Work or improvements contemplated, and for rental of equipment used, and services rendered by public utilities in, or in connection with, the prosecution of such Work, then this part of this obligation shall be void; otherwise, it shall be and remain in full force and effect.

C. It is further agreed that any alterations which may be made in the terms of the GESA Contract or in the Work to be done or materials to be furnished or labor to be supplied or performed, or equipment to be rented, or public utility services to be rendered, or the giving by the Funding Agency of any extension of time for the performance of the GESA Contract, or the reduction of the retained percentage as permitted by the GESA

Contract, or any other forbearance on the part of either the Funding Agency or the Principal to the other, shall not in any way release the Principal and the surety or sureties or either or any of them, their heirs, executors, administrators, successors or assigns, from their liability hereunder; notice to the surety or sureties of any such alterations, extension or forbearance being hereby waived.

D. The Principal and Surety hereby jointly and severally agree with the Funding Agency herein that every person, co-partnership, association or corporation which, whether as subcontractor as a person otherwise entitled to the benefits of this Bond, has furnished material or supplied or performed labor or rented equipment used in the prosecution of the Work as above provided and any public utility, which has rendered services, in, or in connection with, the prosecution of such Work, and, which has not been paid in full therefore, may sue in assumpsit on this Bond in his, their, or its name and prosecute the same to final judgment for such sum or sums as may be justly due him, them, or its, and have execution thereon; provided, however, that the Funding Agency shall not be liable for the payment of any cost or expenses of such suit to a third party under any theory of law or equity.

E. Recovery by any persons, co-partnership, association or corporation hereunder is subject to the provisions of the Pennsylvania Procurement Code, 62 Pa. C.S §§101-4509, as amended, which Act is incorporated herein and made a part hereof, as fully and completely as though its provisions were fully and at length herein recited, except that, where said Act refers to the Commonwealth of Pennsylvania or a Department thereof, it is deemed to refer to the Funding Agency.

IN WITNESS WHEREOF, the said Principal and Surety have duly executed this Bond under seal the day and year above written.

Witness:

(Date)

Principal (Date)
[CONTRACTOR]

(Corporate Seal)

Surety

By: _____
Attorney-in-Fact (Date)

APPROVED AS TO FORM AND LEGALITY

Office of Chief Counsel
Department of General Services

Office of Attorney General

Office of General Counsel, DGS

EXHIBIT 1

Scope of Work by ECM
Including
Small Diverse Business Participation

Project Scope

[LIST PROJECT SCOPE / DESCRIPTION OF ECMS] EXAMPLE: Listed in the table below are the Base Project Energy Conservation Measures (ECMs) (Lighting, Building Envelope and Water Conservation), as well as, the additional “Wish List” ECMs which **[FUNDING AGENCY]** wanted to include in the project:

[INSERT TABLES OR CHART SHOWING EACH ECM & DESCRIPTION OF ECM]

[Remainder of this page left intentionally blank]

[INSERT SB/SDB FORM HERE]

EXHIBIT 2

**ASSURED PERFORMANCE GUARANTEE
For
GESA CONTRACT**

PART 1

1-1. DEFINITIONS

For purposes of this Agreement, the following terms have the meanings set forth below:

Annual Project Benefits are the portion of the projected Total Project Benefits to be achieved in any one year of the Guarantee Term.

Annual Project Benefits Realized are the Project Benefits actually realized for any one year of the Guarantee Term.

Annual Project Benefits Shortfall is the amount by which the Annual Project Benefits exceed the Annual Project Benefits Realized in any one year of the Guarantee Term.

Annual Project Benefits Surplus is the amount by which the Annual Project Benefits Realized exceed the Annual Project Benefits in any one year of the Guarantee Term.

Baseline is the mutually agreed upon data and/or usage amounts that reflect conditions prior to the installation of the Energy Conservation Measures.

Guarantee Term will commence on the first day of the month following the Final Payment date and will continue through the duration of the M&V Services.

Installation Period is the period beginning on the effective date of the GESA Contract and ending on the commencement of the Guarantee Term.

Measured Project Benefits are the utility savings and cost avoidance calculated in accordance with the methodologies set forth in Part 2 of this Agreement.

Project Benefits are the Measured Project Benefits to be achieved for a particular period during the term of this Agreement.

O&M Benefits are the operations and maintenance cost avoidance savings as stipulated in Part 2 of this Agreement.

Rebate Project Benefits are the energy rebate or incentive non-recurring savings as stipulated in Part 2 of this Agreement.

Total Project Benefits are the projected Project Benefits to be achieved during the entire term of this Agreement.

1-2. SCOPE

- A.** The Funding Agency is contracting for a full range of energy services and energy-related capital improvements at no initial capital cost for the Project. The ECMs may include but are not limited to: the design, acquisition, installation, modification, maintenance and training of funding agency personnel in the operation of existing and new equipment. The ECMs will reduce energy consumption and related costs associated with the heating, ventilation and air conditioning system, lighting systems, control systems, building envelope, the hot water systems, water consumption, sewage costs and other energy using devices. Additionally, savings which will not reduce consumption but are aimed at cost savings, such as fuel switching, demand side management, on-site generation, utility bill auditing, utility rate changes, and distribution upgrades etc. have been considered. ECMs may also include the training of facility staff with respect to routine maintenance and operation of all improvements. ECMs must result in a guaranteed minimum energy savings with payments linked to actual documented energy and cost reductions.
- B.** Any stipulated energy and/or operational cost savings that are attributed to this project have been rigorously reviewed and the GESA Contractor is required by this contract to thoroughly document and verify the savings, which have been approved by DGS and the Funding Agency. The Annual Project Benefits Realized by the ECMs in any year must be guaranteed to equal or exceed the Annual Project Benefits during that year for the duration of the contract. The GESA Contractor is required to guarantee energy and cost savings on an annual basis. No credit for the achievement of savings above and beyond the annual guarantee will be credited to satisfy performance guarantees in future years of the contract. Annual reconciliation of the achieved savings will be required.

1-3. MEASUREMENT & VERIFICATION

- A.** Measurement & Verification (M&V) services shall commence on the first day of the month following the month in which the Funding Agency releases the Final Payment to the GESA Contractor and shall continue throughout the Assured Performance Guarantee Term, subject to earlier termination of the Assured Performance Guarantee as provided herein. The GESA Contractor shall ensure that an approved representative from the Funding Agency is physically present for all pre-retrofit and post-retrofit measurements for each ECM as applicable to the Energy Savings Guarantee unless the Funding Agency waives their right to be present. The final completion date shall be the date when all Work is completed, including all punch list items, as evidenced by the release of the Final Payment by the Funding Agency. In the event the Funding Agency (i) cancels or terminates receipt of M&V Services, (ii) fails to fulfill any of Funding Agency responsibilities necessary to enable GESA Contractor to complete the Work and provide the M&V Services, or (iii) otherwise cancels, terminates or materially breaches this Agreement, GESA Contractor shall issue a written notice to the Funding Agency stating the nature of the alleged breach, the date upon which it arose, and the remedy sought. GESA Contractor shall provide the Funding Agency with a thirty (30) day period to cure such breach. In the event of a dispute, all parties shall act in good faith to mitigate damages with a reservation of rights as to damages.
- B.** If the GESA Contractor is delayed in the commencement, performance, or completion of the M&V Services by causes beyond its control and without its fault, including but not limited to inability to access property; concealed or unknown conditions encountered at the project, differing from the conditions represented by Funding Agency in the quote documents or otherwise disclosed by Funding Agency to the GESA Contractor; a Force Majeure condition; failure by Funding Agency to perform its obligations under this GESA Contract; or failure by Funding Agency to reasonably

cooperate with GESA Contractor in the timely completion of the M&V Work where such failure is material, substantial and inconsistent with the terms of this GESA Contract, GESA Contractor shall provide written notice to Funding Agency of the existence, extent of, and reason for such delays and impacts. Under such circumstances, an equitable adjustment in the time for performance and the Assured Performance Guarantee shall be made, subject to the mutual written agreement of the parties.

- C. Funding Agency shall provide GESA Contractor, its subcontractors, and its agents reasonable and safe access to all facilities and properties in Funding Agency's control that are subject to the M&V Services. Work to be performed by GESA Contractor in accordance with this GESA Contract shall be performed during normally scheduled staff shifts and as agreed to by both parties. Funding Agency further agrees to assist GESA Contractor, its subcontractors, and its agents to gain access to facilities and properties that are not controlled by Funding Agency but are necessary for GESA Contractor to provide the M&V Services. An equitable adjustment in the time for performance and Assured Performance Guarantee shall be made as a result of any failure to grant such access, subject to the mutual written agreement of the parties.
- D. In order for GESA Contractor to perform its obligations under this Agreement with respect to the Work, the Assured Performance Guarantee, and the M&V Services, Funding Agency shall be responsible for:
 - 1. Providing GESA Contractor, its subcontractors, and its agents reasonable and safe access to all facilities and properties that are subject to the Work and/or M&V Services;
 - 2. Properly maintaining, and performing appropriate preventative maintenance on, all equipment and building systems affecting the Assured Performance Guarantee in accordance with manufacturers' standards and specifications;
 - 3. Providing the utility bills, reports, and similar information reasonably necessary for administering GESA Contractor's obligations under the Assured Performance Guarantee within thirty (30) days of Funding Agency receipt and/or generation or GESA Contractor's request therefore;
 - 4. Providing all records relating to energy and/or water usage and related maintenance of the premises and relevant equipment requested by GESA Contractor; and
 - 5. Promptly notifying GESA Contractor of any change in use or condition or any other matter that may impact the Assured Performance Guarantee.

[Remainder of this page left intentionally blank]

**PART 2
PROJECT BENEFITS**

2-1. PROJECT BENEFITS SUMMARY

- A.** Subject to the terms and conditions of this GESA Contract, GESA Contractor and Funding Agency agree that, upon Final Completion, Funding Agency will be deemed to achieve a total of \$ in annual increments as shown in the Maintenance Material Savings column of the Total Project Benefits table below. GESA Contractor guarantees that Funding Agency will achieve a total of \$ in Total Annual Energy Savings during the term of this Assured Performance Guarantee, for Total Project Benefits of \$ as set forth in the Total Project Benefits table below.

Table A. Total Project Benefits

[INSERT TABLE SHOWING BREAKDOWN OF ANNUAL SAVINGS HERE]

The energy cost savings provided in **Table A** above are based on the annual escalation stated in **Table A-1** below and will be applied to the unit utility rates listed in **Table B** beginning the first month following the baseline period, escalating annually throughout the Guarantee Period.

Table A-1 – Annual Escalation Rates

Energy Cost Esc./yr	1.0%
Labor Cost Esc./yr	3.0%
Maintenance Cost Esc	1.0%

The actual escalation of calculated savings that will be applied in the M&V Report will be the highest of:

- (1) **Table A-1** above
- (2) CPI (Consumer Price Index) for the geographical region, or
- (3) Actual fuel rate

B. Within thirty (30) days of the commencement of the Guarantee Term, GESA Contractor will calculate the Measured Project Benefits achieved during the Installation Period and provide the Funding Agency of written confirmation of the calculations.

C. Within thirty (30) days of each anniversary of the commencement of the Guarantee Term, GESA Contractor will calculate the Measured Project Benefits achieved for the applicable year applicable to such period and provide both DGS and the Funding Agency with an annual report containing:

1. an executive overview of the project's performance and Project Benefits achieved to date; and
2. a summary analysis of the Measured Project Benefits accounting; and
3. a detailed analysis of the Measured Project Benefits calculations.

D. Funding Agency acknowledges and agrees that if, for any reason, it (i) cancels or terminates receipt of M&V Services, (ii) fails to pay for M&V Services, (iii) fails to fulfill any of its responsibilities necessary to enable GESA Contractor to complete the Work and provide the M&V Services, or (iv) otherwise cancels, terminates or materially breaches this GESA Contract, the Assured Performance Guarantee shall automatically terminate and GESA Contractor shall have no liability hereunder.

2-2. PROJECT SAVINGS SHORTFALLS OR SURPLUSES

A. Guaranteed Savings Shortfalls: If an Annual Project Benefit Shortfall occurs for any year of the Assured Performance Guarantee Term, GESA Contractor shall, at the sole discretion of the Funding Agency, perform one or more of the following:

1. pay to Funding Agency the amount of such shortfall, or
2. subject to Funding Agency's written approval, provide to Funding Agency additional products or services, in the value of such shortfall, at no additional cost to Funding Agency.

B. Guaranteed Savings Surpluses: If an Annual Project Benefit Surplus occurs for any year of the Guarantee Term, GESA Contractor may not apply the amount of such surplus to set off any subsequent Annual Project Benefit Shortfall during the Guarantee Term.

C. Additional Energy Conservations. Where an Annual Project Benefits Shortfall has occurred, GESA Contractor may, subject to Funding Agency approval, implement additional Energy Conservation Measures, at no cost to Funding Agency, which may generate additional Project Benefits in future years of the Guarantee Term. Such improvements do not relieve the GESA Contractor from liability set forth in Paragraph 2-2(A).

D. Event of Default by GESA Contractor: If an Annual Project Benefits Shortfall has occurred and the GESA Contractor does not comply with Paragraph 2-2(A), the Funding Agency may deem this to be an Event of Default. If default occurs, the Funding Agency may place the GESA Contractor in the Contractor Responsibility Program and also pursue debarment or suspension in accordance with the Commonwealth Procurement Code.

PART 3

MEASUREMENT AND VERIFICATION METHODOLOGY

3-1. MEASUREMENT & VERIFICATION PROTOCOL

A. GESA Contractor shall apply either Option A or Option B verification methodologies, as more fully detailed in the guidelines and standards of the International Measurement and Verification Protocol (IPMVP) and/or the Federal Energy Management Program (FEMP), or modified variations as outlined below, in connection with the provision of M&V Services hereunder. The applicable option shall be as set forth in the Project-Specific Request for Quote submitted to and accepted by DGS and the Funding Agency. Option A shall not be accepted without DGS and the Funding Agency's prior written approval.

B. Option A: Partially Measured Retrofit Isolation

Measured Project Benefits are determined by partial field measurement of the energy use of the system(s) to which an ECM was applied separate from the energy use of the rest of the facility. Measurements will be short-term with only one-time measurements before and after the Installation Period.

Partial measurement means that some but not all parameters will be measured. Careful review of the design and installation of ECMs is intended to demonstrate that the stipulated values fairly represent the probable actual values. Agreed-upon values will be shown in the measurement and verification plan, along with analysis of the significance of the error they may introduce. Engineering calculations using short-term pre and post-retrofit measurements and stipulations are used to calculate Measured Project Benefits for the duration of the Guarantee Term.

C. Option B: Retrofit Isolation

Savings are determined by field measurement of the energy use of the systems to which the ECM was applied, separate from the energy use of the rest of the facility. Short-term or continuous measurements are taken throughout the post-retrofit period.

3-2. CHANGES IN USE OR CONDITION

A. Funding Agency agrees to notify GESA Contractor within thirty (30) days of (i) any actual or intended change, whether before or during the Guarantee Term, in the use of any facility, equipment, or Energy Conservation Measure to which this schedule applies; (ii) any proposed or actual expansions or additions to the premises or any building or facility at the premises; (iii) a change to utility services to all or any portion of the premises; or (iv) any other change or condition arising before or during the Guarantee Term that reasonably could be expected to change the amount of Project Savings realized under this Agreement.

1. Such a change, expansion, addition, or condition would include, but is not limited to: (a) changes in the primary use of any facility, Energy Conservation Measure, or portion of the premises; (b) changes to the hours of operation of any facility or portion of the premises; (c) changes or modifications to the Energy Conservation Measures or any related equipment; (d) changes to the M&V Services provided under this GESA Contract; (e) insufficient or improper maintenance or unsound usage of the Energy Conservation Measures or any related equipment at any facility or portion of the premises (other than by GESA Contractor); or (f)

additions or deletions of Energy Conservation Measures or any related equipment at any facility or portion of the premises.

- B.** If GESA Contractor independently learns of any such change or condition, GESA Contractor shall calculate and send to Funding Agency a Notice of adjustment to the Annual Project Benefits to reflect the impact of such change or condition, and the adjustment shall become effective as of the date the change or condition first arose. If the Funding Agency fails to promptly provide GESA Contractor with notice of any such change or condition, GESA Contractor may make reasonable estimates as to the impact of such change or condition and as to the date on which such change or condition first arose in calculating the impact of such change or condition, and such estimates shall be conclusive.

PART 4

BASELINE CALCULATIONS AND UTILITY RATES

4-1. UTILITY COSTS FOR BASELINE

- A. The unit utility costs for the Baseline period are set forth below as “Base Utility Cost” and shall be used for all calculations. The Base Utility Cost shall be escalated annually by escalation rate of one percent (1%). The Base Utility Cost for electric represents the 12- month average utility costs from **[BASELINE PERIOD] EXAMPLE:** July 1, 2014 through June 30, 2015.
- B. The **[BASELINE PERIOD]** energy rates used to calculate savings are **[COST/KWH]** \$ / kWh for electricity, **[COST/MMBTU]** \$/mmBtu for natural gas, **[COST/KBTU]** \$ / KBtu for heating fuel and **[COST/KGAL]** \$/kGal for water.

Baseline utility rates used for the energy savings calculations were determined according to the following methods:

Electric Rates:

Heating Fuel Rates:

Natural Gas Rates:

Water Rates:

[Remainder of this page left intentionally blank]

PART 5

PRIMARY OPERATIONS SCHEDULE PRE & POST RETROFIT

5-1. PRE/POST RETROFIT

[INCLUDE CHARTS/TABLES ETC. THAT EXPLAIN PRE/POST RETROFIT LIGHTING BURN HOURS, TEMPERATURES, SETPOINTS, ETC. OF ECMS]

[Remainder of this page left intentionally blank]

PART 6

6.1 MEASUREMENT & VERIFICATION SERVICES

COMMONWEALTH REPRESENTATIVE

- A. **GESA Contractor shall ensure that an approved representative from Funding Agency is physically present for all pre-retrofit and post retrofit measurements, for each ECM as applicable to the Energy Savings Guarantee. Funding Agency and GESA Contractor shall mutually witness and record said measurements and sign GESA Contractor's measurement logbook, if deemed mutually acceptable. GESA Contractor shall include all logged measurements in the annual report to be provided.**

6-2. M&V SERVICES

- A. GESA Contractor will, for a period of 3 Guarantee Years (the "Reporting Period") unless earlier terminated by Funding Agency, provide the "M&V Services" set forth below in connection with the Assured Performance Guarantee. Funding Agency shall pay GESA Contractor an annual fee during the Reporting Period for such M&V Services as identified in the table below. Notwithstanding anything to the contrary, Funding Agency may choose to continue the M&V services in Guarantee Year Four (4) and beyond by notifying GESA Contractor within thirty (30) days of the end of the third Guarantee Year. If Funding Agency, after GESA Contractor's completion of the third year of M&V Services, does not continue with the M&V Services, it irrevocably acknowledges GESA Contractor's full satisfaction of, and release from, this Assured Performance Guaranty.
1. During the Installation Period, the GESA Contractor's Performance Assurance Engineer will track Measured Project Benefits. The GESA Contractor will report the Measured Project Benefits achieved during the Installation Period to the Funding Agency within 90 days of the commencement of the Guarantee Term.
 2. Within 90 days of each anniversary of the commencement of the Guarantee Term, for a period of 3 years, GESA Contractor will provide the Funding Agency with an annual report containing:
 - A. an executive overview of the project's performance and Project Benefits achieved to date;
 - B. a summary analysis of the Measured Project Benefits accounting; and
 - C. depending on the M&V Option, a detailed analysis of the Measured Project Benefits calculations.
 3. During the Guarantee Term, for a period of 3 years, the GESA Contractor's Performance Assurance Engineer will monitor the on-going performance of the ECMs, as specified in this GESA Contract, to determine whether anticipated Measured Project Benefits are being achieved. In this regard, the Performance Assurance Engineer will periodically assist the Funding Agency, on-site or remotely, with respect to the following activities:
 - A. Conduct one annual on-site visit to verify proper operation of the equipment installed under the project.
 - B. review information furnished by the Funding Agency from the facility

- management system to confirm that control strategies are in place and functioning;
 - C. advise Funding Agency’s designated personnel of any performance deficiencies based on such information;
 - D. coordinate with Funding Agency’s designated personnel to address any performance deficiencies that affect the realization of Measured Project Benefits; and
 - E. inform Funding Agency of opportunities to further enhance project performance and of opportunities for the implementation of additional ECMs.
4. For specified ECMs utilizing “Option A” and “Modified Option A” M&V protocols, the GESA Contractor will:
- A. conduct pre and post installation measurements required under this GESA Contract;
 - B. confirm the building management system employs the control strategies and set points specified in this GESA Contract; and
 - C. analyze actual as-built information and adjust the Baseline and/or Measured Project Benefits to conform to actual installation conditions (e.g., final lighting and water benefits calculations will be determined from the as-built information to reflect the actual mix of retrofits encountered during installation).

6-3. COST OF M&V SERVICES

Based on direction from the Commonwealth, the fees for the first three (3) years of annual M&V service has been included in the Project; refer to the project cash flow in the Investment Grade Audit. The amount to be paid annually by Funding Agency for the M&V services provided is listed in the table below. If the Funding Agency chooses to continue the M&V services in Guarantee Year Four (4) and beyond, it must notify GESA Contractor within thirty (30) days of the end of the third Guarantee Year. If the Customer wishes to continue the M&V Services past the third Guarantee Year, the pricing for each additional Guarantee Year for M&V services will be the Year 3 M&V Cost annually escalated at 3% in each additional Guarantee Year. The billing for the 1st three Guarantee Years will begin with Final Acceptance of this project.

Year	M&V Cost
1	\$
2	\$
3	\$
Total	\$

[Remainder of this page left intentionally blank]

PART 7

FUNDING AGENCY RESPONSIBILITIES

7-1. In order for GESA Contractor to perform its obligations under this GESA Contract with respect to the Work, the Assured Performance Guarantee, and the M&V Services, Funding Agency shall be responsible for:

1. Providing GESA Contractor, its subcontractors, and its agents reasonable and safe access to all facilities and properties that are subject to the Work and/or M&V Services;
2. Properly maintaining, and performing appropriate preventative maintenance on, all equipment and building systems affecting the Assured Performance Guarantee in accordance with manufacturers' standards and specifications;
3. Providing the utility bills, reports, and similar information reasonably necessary for administering GESA Contractor's obligations under the Assured Performance Guarantee within thirty (30) days of Funding Agency receipt and/or generation or GESA Contractor's request therefore;
4. Providing all records relating to energy and/or water usage and related maintenance of the premises and relevant equipment requested by GESA Contractor;
5. Providing and maintaining a dedicated telephone line and/or TCP/IP remote connection to facilitate remote monitoring of relevant equipment;
6. Promptly notifying GESA Contractor of any change in use or condition or any other matter that may impact the Assured Performance Guarantee.

[remainder of this page left intentionally blank]

ENERGY EFFICIENT MEASURES

The table(s) below summarizes ECM savings and cost and simple payback

[INSERT SUMMARY TABLE(S)]