

General Instructions and Specifications
Trenton Parking Authority

Request for Proposal to Provide Photovoltaic
System Installation
June 2022

Prepared by:

Greener by Design 

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PART 1 PROJECT

Through the issuance of this Request for Proposals (RFP), the Trenton Parking Authority (“TPA” or “Authority”) is seeking an experienced Firm to submit a competitive proposal to deliver the turnkey installation of Photovoltaic (PV) Systems at their Liberty Commons Garage, Lafayette Garage, Warren Street Garage, and Merchant Street Lot. TPA is interested in PV parking canopies. The PV System may be paired with an Energy Storage System (ESS). The specific portions of each property upon which the various systems may be proposed are included in “Appendix C – Project Concept Maps” This PV project is intended to be the first phase of many as the Authority continues to expand its energy resiliency efforts.

The Authority has established minimum technical installation and performance requirements for the PV System considered for installation. Projects submitted for review by the TPA must include a conceptual layout illustrating the general arrangement of the PV System components, as well as an energy generation summary to function as the Basis for Design (BOD) for the proposed PV System. The PV system conceptual layout shall include PV modules and site-specific interconnection equipment and inverters. Proposers shall note that final project design and engineering is not provided herein, but will be undertaken by the successful Firm.

1.1 SCOPE OF WORK

A. This specification includes the minimum technical requirements for the design, installation, testing, and commissioning of the proposed PV System located at the following facilities:

| | |
|-------------------------------|-------------------------------------------------|
| Merchant Street Lot | 24 Merchant Street, Trenton, NJ 08608 |
| Liberty Commons Garage | 16 E Front Street, Trenton, NJ 08608 |
| Warren Street Garage | 110 N Warren Street, Trenton, NJ 08608 |
| Lafayette Garage | 1 W. Lafayette Street, Trenton, NJ 08608 |

Proposer is required to submit detailed information for all materials necessary to deliver the proposed PV System as per the format noted herein.

B. Proposer shall provide all work necessary to install a complete PV System, including but not limited to engineering, design services, permits, materials, labor, equipment, installation, utility interconnection, inspection, commissioning, and Permission to Operate (PTO) for a complete PV System located within the identified areas.

C. The Contractor’s work is limited to the PV System, Electric Vehicle (EV) Charging Stations, Energy Storage System, and appurtenances.

D. The Contractor shall provide a completed Proposal Cost and Pricing Sheet, as provided in Appendix B.

E. Contractor will be responsible for all permits required by the Authorities Having Jurisdiction and receipt of Certificate of Approval (C of A).

F. It is noted that the terms “Proposer”, “Contractor”, “Company”, and “Respondent” are all used interchangeably in this specification. All of these terms apply to the successful Contractor and contract holder once awarded.

G. Contractor shall abide by all National Electric Code (NEC) codes, New Jersey Board of Public Utilities (NJBPU) rules and regulations, and New Jersey Clean Energy Program (NJCEP) requirements with the design and installation of the PV System.

H. The PV design will assure that any PV System failure does not affect the quality or supply of electricity provided by PSE&G to the TPA properties.

I. Proposer will be responsible for all incentive applications, permits, submittals, interconnect application, and associated fees required by the local enforcement Authority Having Jurisdiction and/or Department of Community Affairs, PSE&G, New Jersey Department of Environmental Protection (NJDEP), and PJM.

J. Proposer will conform to the insurance requirements of the Owner. Proposer shall be responsible for the protection of all existing site/building components within and adjacent to the areas of this work.

While the information provided herein is believed to be accurate and reliable, neither the Trenton Parking Authority nor TPA’s Consultants make any representations or warranties, expressed or implied, as to the accuracy or completeness of such information. The Trenton Parking Authority reserves its right to reject all Proposals and not award a contract.

Note: All information contained in or supplied with this RFP is proprietary and confidential. Any use of

this information, except for the sole purpose of preparing a response to this RFP, is strictly prohibited.

1.2 RFP AND CONSTRUCTION SCHEDULE

The RFP, Permitting and Approvals, and Construction Schedule is as follows:

| Milestone | Date |
|--------------------------------------------------------------------------------------------|-----------------------------|
| RFP Publication Date | June 6, 2022 |
| Pre-bid Conference and Site Inspection | June 9, 2022 at 11am |
| Last Day to Submit Clarifying Questions | June 9, 2022 |
| Publication of Responses to Questions | June 14, 2022 |
| RFP Due | June 20, 2022 at 4pm |
| Potential Post-Evaluation Interviews, Contract Negotiations, and Executed Letter of Intent | End of June |
| Anticipated Execution of Contract | June 30, 2022 |
| Filing of applications for all necessary Permits and Approvals | July 1, 2022 |
| Submission of interconnection Agreement | July 15, 2022 |
| Start of Construction | July 1, 2022 |
| Completion of Construction | August 31, 2022 |
| Permission to Operate (PTO) Approval from PSE&G | September 22, 2022 |
| Receipt of NJ TREC Certification Number | TBD |

Note: The successful Respondent shall submit an updated project schedule to Trenton Parking Authority and their Consultants prior to the proposed start of construction.

1.3 RFP Instructions

- A. A Pre-Bid Conference will be conducted on the date set forth in Section 1.2 at 16 E Front Street, Trenton, NJ. All interested Proposers are encouraged to attend the Pre-Bid Conference and Site Inspection.
- B. Proposers may submit written questions by the deadline set forth in Section 1.2 during the RFP process. Whether and when to respond to questions is entirely within TPA’s discretion. Questions should be submitted formally via email to Patrice Harrison at trentonparkingph@aol.com with the subject line “Trenton Parking Authority PV System RFP Q&A Inquiry.”
- C. Trenton Parking Authority retains the absolute and unabridged right to alter the requirements of the RFP in any respect, at any time prior to the award of contracts, including by withdrawing the RFP, changing, adding, or deleting its scope.
- D. Proposers may submit their RFP response formally to Trenton Parking Authority, 16 E. Hanover St. Trenton, NJ 08608 or by email at trentonparkingph@aol.com

1.4 QUALIFICATIONS AND PROPOSAL REQUIREMENTS

A. Qualifications

1. The successful Firm shall have a minimum of three years' experience signing, procuring, and installing PV Systems. The successful Firm shall have design and installed a minimum of three PV systems with a total installed project capacity of more than five (5) MW.
2. Provide a minimum of three US customer references
3. The successful Firm shall properly bond and insure all work, equipment, material, and individual onsite in accordance with industry standards
4. Design and construction shall be by or under the responsible charge of a Professional Engineer, licensed in the state of New Jersey, who has experience with facility electrical and energy systems.

B. Proposal Requirements

Each respondent shall submit the following information with their bid response:

1. Provide address and contact information for corporate office. Provide address and contact information for local office.
2. Identify Project Manager and any Key Personnel for this project. Submit resumes for each Project Manager and any Key Personnel. The Project Manager must meet the experience requirements set forth above.
3. For each Subcontractor, identify company name, address, contact information, and project role(s), and describe experience of each Subcontractor with PV Systems.
4. Provide a customer name, contact information, and brief description of at least three completed PV Projects in New Jersey. Limit each description to no more than two pages.
5. Completed Proposal Cost and Pricing Sheet in Appendix B.
6. A general description of the proposed system and minimum technical requirements are identified herein. Proposals shall include preliminary drawings, PV, EV, and PV layouts, and manufacturer information (cut sheets) for each major system component. Include any other information that will help the Authority to gain an understanding of the proposed PV System, along with its features and benefits. Discuss any ongoing maintenance considerations and/or recommendations. Discuss any environmental benefits generated from the project.
7. Provide an estimated timeline for project implementation.

C. Evaluation Criteria

1. Experience of design/installation firm and Subcontractors in completing similar projects;
2. Experience of project team (Project Manager and Key Personnel) in completing similar projects;
3. Knowledge of New Jersey laws and regulations for permitting and constructing/installing similar projects;

- 4. Knowledge of New Jersey renewable energy and PV System programs, requirements, regulations, and financial incentives;
- 5. Proposed PV system design, including energy generation, power quality, resiliency, and reliability benefits;
- (including 6. Responsiveness and understanding of the scope of work/services and site conditions but not limited to existing condition and upgrades that may be necessary);
- 7. Environmental benefits of the proposed PV System;
- 8. Cost and value of the commercial offer as indicated in Appendix B and;
- 9. Clarity and conciseness of submittal.

The Trenton Parking Authority will evaluate submissions and develop a “short list” of the most qualified responses with the greatest benefit to the Authority. Proposers may be required to attend a post-evaluation interview and present their proposal for questions and requests for clarification submitted by the Trenton Parking Authority’s evaluation team.

1.5 SUMMARY

A. Systems Description- The PV System will include:

1. **PV Modules:** All PV modules must be manufactured from the below list of approved, bankable companies. A manufacturer not found on this list may be used if pre-approved by Trenton Parking Authority and its consultants.

| PV Module Company List |
|------------------------|
| Canadian Solar |
| Chint/Astronergy |
| First Solar |
| GCL Systems |
| Hanwha Q Cells |
| Jinko Solar |
| Longi |
| Seraphim |
| Suntech/Shunfeng |
| Trina Solar |

Note: Modules not shown above submitted for consideration are subject to approval.

2. **Mounting System:** Flat rooftop mounting systems shall be ballasted. PV carport systems shall be custom engineered to specific site conditions with high strength steel with corrosion protection.
3. **Inverters:** All inverters shall meet or exceed a maximum efficiency of 98.6%, CEC efficiency of 98%. All inverters shall include a minimum ten-year warranty for parts and labor.
4. **Combiner Boxes:** Combiner boxes shall have the following characteristics: NEMA 3R enclosure, 10A input, 1,000 VDC, rapid shutdown, and UL listed.

5. Disconnects: All disconnects shall be fused.
6. Battery Storage: Battery storage must be backup-power capable and guaranteed to last for 10,000 cycles or 10 years. All components and systems must be UL Listed. Battery storage should be sized with approximately one kWh of power per nameplate kW of the system.
7. Generator: Generator shall be natural gas DEP permitted to operate continuously.

1.6 SUBMITTALS

A. Shop Drawings Package

Shop drawings shall be provided for the Trenton Parking Authority, Consultant and code enforcement compliance review for the host site. The Contractor shall prepare the shop drawing package including the following items within ten business days from the receipt of written notice to proceed:

1. Project schedule;
2. PV array installation and string diagrams;
3. Single-Line Drawing;
4. Equipment cut sheets/product data, including data on features, components, ratings, and performance for PV modules, mounting structure, combiner boxes, inverter, kWh meter, Data Acquisition System, optimizers, Energy Storage System, EV Charging Stations, and Generator, if applicable;
5. Installation details, including mounting method and location of combiners and other equipment;
6. Equipment staging and material storage plan;
7. Crane lift plan and;
8. Roof protection plan.

B. Health and Safety Plan

The Contractor shall submit a Health and Safety Plan within ten days from receipt of written notice to proceed and observe all prudent and standard industry safety practices required for performing construction work of this type including all applicable OSHA standards. The Health and Safety Plan shall include building occupant safety considerations and planning for building/occupant communication regarding construction activities.

- C. Shop Drawings: Indicate fabrication details, dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection. Include design calculations, wiring diagrams/string maps, locations of conduit runs, and mounting details for components.
- D. Structural engineering services shall include, but may not be limited to: existing structural member loading/evaluation, field survey of existing structural members, design plans, design calculations, wind load analysis, snow drift analysis, impact of the System weight to existing structural systems, ballast design/impact, seismic design analysis, material staging limits/areas on roof, shop drawings, any information requested by the Authority, etc.
- E. Field Test and Observation Reports: Indicate and interpret test results and inspection records relative to compliance with performance requirements.

- F. Certified Summary of Performance Tests: Demonstrate compliance with performance criteria.
- G. Factory Test Reports: For units to be shipped for this project, showing evidence of compliance with specified requirements
- H. Start-up, Testing, and Commissioning Plan- include the following:
 - 1. Start-up Procedures;
 - 2. Testing Procedures and;
 - 3. Commissioning Plan.
- I. Maintenance Data – include the following:
 - 1. List of tools and replacement items recommended for storage at the project for ready access. Include part and drawing numbers, current unit prices, and source of supply.
 - 2. Detailed operating instructions for both normal and abnormal conditions.

1.7 QUALITY ASSURANCE

- A. All Contractors and workers used by the Contractor must be licensed and bonded to perform these services in the State of New Jersey.
- B. All Professional services concerning delegated design utilized by the Contractor must be licensed in the State of New Jersey.
- C. All PV modules shall be individually tested and certified at the factory.
- D. All equipment and materials shall be new, unused, and free of defects.

1.8 WARRANTY

- A. General Warranty: Special warranty specified herein shall not deprive the Client of other rights Client may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace PV equipment and system components that fail in materials or workmanship within specified warranty period, at no cost or expense to TPA. Contractor shall obtain industry standard, manufacturer equipment warranties.
 - 1. PV Modules – Modules shall come with a one-year warranty that guarantees replacement module for any module defect caused by materials or by workmanship at the factory. Module shall be covered by a power warranty that guarantees module power will be within ten percent of original power after twenty years of operation.
 - 2. Mounting System – Manufacturer shall warrant the mounting system hardware to be free from defects in material and workmanship for a period of one year.
 - 3. Combiner Boxes – Manufacturer shall warrant the Combiner Boxes to be free from defects in material and workmanship for a period of one year.

4. Inverters – Manufacturer shall warrant the inverters to be free from defects in material and workmanship for a period of ten years.

1.9 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish Fuses: One for every ten of each type and rating installed on the project, but not less than one of each.

PART 2 PRODUCTS

2.1 GENERAL COMPONENT REQUIREMENTS

- A. Outdoor components must be made with corrosion-proof materials such as stainless steel, galvanized steel, and aluminum.
- B. The use of wood products pressure treated or otherwise is not acceptable.
- C. Electrical components shall be designed for 1,000 Volt System Voltage or greater.
- D. All materials that are used outdoors shall be sunlight and UV resistant.
- E. Materials shall be designed to withstand the temperatures to which they are exposed.
- F. Only stainless steel, galvanized steel, and aluminum fasteners shall be used.
- G. Structural members shall be corrosion resistant stainless steel, galvanized steel, and/or aluminum.
- H. All electrical equipment shall be rated for the current and voltage ratings necessary for the application.
- I. Wind uplift resistance shall exceed the regional wind specification as determined by the local code enforcement and/or authority having jurisdiction, and must be verified in writing by a Professional Engineer licensed in the State of New Jersey.
- J. PV installation shall not unreasonably restrict access to building components, equipment, or access.
- K. All outdoor inverters shall have an enclosure rating of NEMA 4 or 4X. All indoor equipment shall have an enclosure rating of NEMA 12 or greater.
- L. PV System controls and data acquisition system should be open-architecture, be compatible with existing and future Building Management Systems (BMS), and have the ability to be virtually connected to future PV Systems on the property utilizing an interoperable SCADA System.

2.2 PV MODULES

- A. PV System hardware must be selected based upon a thirty-year (30) system design life.
- B. PV modules and system equipment shall be mounted to prevent pooling of water. PV modules shall be mounted in a generally southern orientation to improve performance.
- C. PV modules and installation materials considered hazardous materials, defined by the New Jersey Department of Environmental Protection, are not acceptable for use.
- D. Grounding connections to modules shall be arranged such that removal of a PV module does not interrupt ground connection to other modules.

2.3 BATTERY STORAGE SYSTEM

- A. Battery Storage Systems must be UL Listed.
- B. Battery Storage Systems must run in parallel to the grid

2.4 DISCONNECT SWITCHES

- A. AC Disconnect Switches – The inverter disconnect shall be a heavy duty fused disconnect, rated for use, with three-pole plus isolated neutral and ground. Fuses shall also be class RK5, 1000VAC, with a minimum interrupt capacity of 65kA.
- B. DC Disconnect Switches – The DC disconnect(s) shall be 1000 VDC, fused, rapid-shutdown, and heavy-duty safety switch(es).

2.5 WIRING/CONDUIT/ELECTRONIC MOUNTING

- A. All system wiring shall be **copper only** and in accordance with Section 690 of the NEC, as well as manufacturer's wiring guidelines for wiring sizes and connections. The wires used shall have a temperature rating of 90° C or higher.
- B. Outdoor electrical conduits shall be aluminum cable tray or rigid galvanized, with NEMA 3R enclosures and watertight connections. Indoor conduits shall be Electrical Metallic Tubing (EMT).
- C. Exposed cables shall be minimized and shall be UV resistant.

2.6 DATA ACQUISITION/METERING

- A. The Data Acquisition System (DAS) shall be AlsoEnergy's Deck Monitoring or approved equal. The DAS equipment will be provided by the Contractor as part of the PV system. The DAS shall include instrumentation that measures and records environmental and PV system performance conditions, including ambient temperature, wind speed, plane or array of solar irradiation, and AC system power output.
- B. The DAS shall include a data-logger, modem for data retrieval, NEMA 4 enclosure, temperature measuring device, anemometer, and solar sensor. AC kWh measurement equipment must be revenue grade.
- C. DAS system must be designed and installed to meet interoperability requirements within TPA's existing Building Management System.
- D. The Contractor to provide educational/promotional TV monitor to demonstrate real-time Internet digital display information. TV to be a minimum of 50" flat screen unless otherwise approved by TPA. This information must also be available to post on the Trenton Parking Authority website.
- E. The Contractor shall install the DAS system in compliance with manufacturer's requirements. Upon completion, the Contractor shall provide a transition of the administrative control and responsibility from the Contractor to the Operations and Maintenance (O&M) provider.
- F. The DAS shall have real-time Internet digital display of the following information:

1. Instantaneous system output in kW;
2. Instantaneous irradiation in watts/square foot;
3. Instantaneous ambient temperature;
4. Instantaneous wind speed;
5. Daily system output in kWh – Any day and day to hour;
6. Monthly system output in kWh – any month and month to date;
7. Annual system output in kWh - any year and year to date;
8. Graphical comparison of projected system output to actual output’;
9. Energy cost savings and;
10. Environmental impacts, including carbon dioxide reductions.

PART 3 EXECUTION

3.1 INSTALLATION REQUIREMENTS

- A. Required combiner-level over-current protection devices shall be labeled and accessible for maintenance. Each shall have trip ratings no greater than the de-rated amperage of the conductor it protects.
- B. Electrical connections and terminations shall be fully tightened, secured, and strain-relieved as appropriate.
- C. Mounting equipment shall be installed to the manufacturer's specifications.
- D. Installation should be organized and neat. Module connections and wiring should be neatly prepared and easily accessed by service persons.
- E. Cables, conduit, exposed conductors, and electrical enclosures should be secured and supported according to code requirements.
- F. National and local electric and building code requirements shall be met as determined by the local authority having jurisdiction.
- G. The connection of the inverter to the building AC power distribution system shall include application of and coordination for utility disconnect, reconnect, cut in and bi-directional meter installation.
- H. The PV canopy systems shall have a minimum clearance of 13'6" and contain snow guards to prevent ice sheeting.
- I. The PV systems shall maintain the integrity of the building electrical system. The Contractor shall carefully inspect the electrical system to ensure against harmonic distortion, fault protection issues, and interconnect problems.
- J. The connection of the inverter to the building AC power distribution shall be at or near the utility service entrance location in each building. All electrical equipment required for connection of the inverter to the distribution shall be mounted in proximity to the main panel board and shall be approved by the TPA and the TPA's representatives. All routing of raceways and wiring to the service entrance location shall run concealed internal to the building unless prior approval from the TPA or their representative is received.
- K. All walls, ceilings, etc. internal to the building damaged/altered by this work shall be replaced/repared to match the existing surrounding surfaces in their existing condition prior to the work performed after all installations are complete.
- L. All installations of equipment and raceways shall be coordinated and approved by the TPA prior to any start of any work. Contractor must contact the TPA a minimum of three (3) days prior to the start of any installations to perform a walk-through of all proposed routings and locations.

3.2 INSTALLATION STANDARDS

- A. All Local and NEC codes shall be observed.
- B. System installation shall conform to manufacturer's installation manual and approved shop drawings prepared and submitted by the Contractor.
- C. Array mounting hardware supplied by the Contractor shall be compatible with the site considerations and environment. Special attention shall be paid to minimizing the risk from exposed fasteners, sharp edges, and potential damage to the modules or support structures. Corrosion resistance and durability of the mechanical hardware shall be emphasized – the use of stainless steel, galvanized steel, and aluminum fasteners is required. The use of ferrous metals and wood components is not acceptable. Pipe supports made of UV-rated plastic curb-type standoffs are acceptable provided the fasteners are stainless steel, galvanized steel, and/or aluminum.
- D. The Contractor shall ensure installing Subcontractors (if used) are familiar with manufacturer's installation guidelines.
- E. Interruption of electrical power to other circuits shall be minimized and shall be scheduled not less than seven days in advance at a time that will minimize impacts on the occupants (if the interruptions are significant, permitted times may be restricted to night time only). Installation crews shall minimize disturbance (due to noise, dust, odors, moving of equipment) of building occupants and activities.
- F. Sites shall be maintained and kept secure, free of excessive debris, and in safe condition during the construction period. Site should be left "broom clean" after work is complete at the end of each work day. All work will comply with the National Electric Code, the National Fire Code, and the Uniform Building Code, and shall be inspected by local inspectors at each appropriate phase.

3.3 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor shall deliver installation components to their final locations in protective wrappings, containers, and other protection that will exclude dirt and moisture and prevent damage from construction operations. Remove protection only after equipment is safe from such hazards.
- B. Contractor shall observe the following precautions during handling:
 - 1. Contractor shall maintain the integrity of the roof surface and ground laydown areas during handling and installation, including laying out mats, insulation/plywood layers, etc.
 - 2. Damage to the roof surface or ground laydown areas caused by the installation of the PV systems shall be identified and repaired by the Contractor at their sole expense and in compliance with the roof warrantor's standard requirements.

3. The Contractor shall coordinate with the roof installation contractor and warrantor's representative. The Contractor shall obtain from the roof warrantor a certification documenting the PV system as installed by the Contractor does not impact the roof warranty.
4. Cranes or rigging equipment shall operate in compliance with all local codes, including site-specific safety requirements. Final crane locations must be approved by site's facility manager.
5. Each module shall be visually inspected for defects by the Contractor.

3.4 LABELING AND IDENTIFICATION

- A. For diagnostic and troubleshooting purposes, array strings at the combiner boxes and the combiner boxes themselves shall be uniquely tagged and identified with such tagging on the as-built drawings, which are to be provided by the Contractor.

3.5 CLEANING AND TESTING

- A. PV modules shall be free of dirt and construction debris prior to system start up.
- B. Contractor must obtain and record three-day string measurements prior to system turn-over.

PART 4 PROCEDURES

4.1 SYSTEM INSPECTION AND SAFETY CHECKS

Each system shall include an inspection and safety checklist to be mutually executed by TPA and the Contractor.

4.2 DOCUMENTATION

- A. Prepare three copies of Operating and Maintenance Manuals in hard cover binders, as well as an electronic copy, and deliver to the client for review prior to turning over to each Client. At a minimum the binders shall include:
1. A complete set of all approved submittals including shop drawings and product literature.
 2. As-built roof plans showing the final placement of all panels, combiner boxes, connections, and conduit placement.
 3. As-built electrical plans, including three-line diagrams and elevation drawings showing the final placement of the electrical equipment. As-built electrical plans to clearly note electrical wiring, panels, transformers, conduit sizes, wire sizes, panel schedules, breaker sizes, etc. Tie-ins to existing panels or equipment must be indicated.
 4. Cleaning instructions for the PV panels.
 5. Copies of all start-up procedure measurements.
 6. Copies of all testing data and commissioning reports.
 7. Troubleshooting Guidelines.
 8. System maintenance schedule and procedures.
 9. Contact information for warranty service, technical assistance, and parts ordering.

4.3 TRAINING

- A. Provide three copies of a Training Manual for operation and maintenance of the PV, ESS, and DAS. Specify procedures to follow in the event of emergency.
- B. Conduct one onsite training class. The class will be up to two hours in length and to accommodate five students. The Client will provide appropriate classroom space.

4.4 REQUIREMENTS

- A. Vendor must supply the TPA with all warranty information whether it be expressed or implied.
- B. All equipment and supplies must be new and/or Contractors must identify under what circumstance a newly refurbished piece of equipment may be substituted.
- C. The TPA will be the final authority as to whether or not substitute equipment or supplies are acceptable. Substituted equipment must include an equivalent specification sheet for each item substituted to include a written analysis of any difference from the product specified in this specification. Failure to provide the required documentation may result in your bid being declared non-responsive and therefore rejected.

APPENDICES

APPENDIX A: TI PROGRAM CONDITIONAL ACCEPTANCE LETTERS

APPENDIX B: PROPOSAL COST AND PRICING SHEET

APPENDIX C: PROJECT CONCEPT MAPS

APPENDIX D: UTILITY INFORMATION

APPENDIX E: ELECTRIC VEHICLE CHARGING TECHNICAL SPECIFICATIONS

APPENDIX F: FACILITIES DRAWINGS

1. LAFAYETTE GARAGE DRAWINGS
2. LIBERTY COMMONS GARAGE DRAWINGS
3. WARREN ST GARAGE DRAWINGS

APPENDIX A: TI PROGRAM CONDITIONAL ACCEPTANCE LETTERS

The Liberty Commons Garage and Merchant Street Lot projects have been conditionally accepted by the Transition Incentive (TI) program through the New Jersey Clean Energy Program. Both projects have been submitted with a Permission to Operate (PTO) for 9/22/2022.

The Warren Street Garage and Lafayette Garage projects have not been submitted under the TI program and the successful proposer will be responsible to submit both projects under the Successor Solar Incentive Program (SuSI) that has replaced the TI program for projects submitted after August 28, 2021.



09/22/2021

Perry Shaw
 Trenton Parking Authority
 24 Merchant St
 Trenton, NJ 08608

RE: TI Application Number NJSTRE1547534416 - Conditional Acceptance

Dear Perry Shaw:

We are pleased to inform you the above solar project has been conditionally accepted by New Jersey's Clean Energy Program's (NJCEP's) Transition Incentive Program (TI) and has been assigned an Application Number NJSTRE1547534416. The project has been conditionally accepted with a 432.9600 kW (DC) solar electric system. The final acceptance of this initial application is conditioned on completing the solar installation and commencing commercial operation on or before the expiration date of **09/22/2022**.

On May 23, 2018, the Clean Energy Act, L. 2018, c.17 (Act), was signed into law. Among other mandates, the Act directed the Board to adopt rules and regulations to close the SREC Registration Program (SRP) to new registrations once 5.1% of the kilowatt-hours sold in the State are generated by solar electric power connected to the distribution system. N.J.S.A. 48:3-87(d)(3). The Act also directed the Board to complete a study on how to modify or replace the SRP with a Successor Program to encourage the continued efficient and orderly development of solar renewable energy generating sources throughout the State. The Board has entered at least three related Orders, as well as revisions of its regulations, regarding implementation of these provisions of the Act. *Link to Orders can be found under TI Guidelines and Clarifications below.*

The Transition Incentive Program was established by the New Jersey Board of Public Utilities (NJBPU) to provide a bridge between the Legacy SREC Registration Program and the Successor Program. The NJBPU determined that, if the Successor Program is not ready to accept new registrations by the time the 5.1% Milestone is attained, the Board will allow projects to apply to participate in the Transition Incentive Program. The 5.1% Milestone was attained on April 30, 2020. **The Transition Incentive Program opened to new applications on May 1, 2020.**

Your TI Application packet provided us with the following information regarding your solar project:

| | | | |
|-------------------------------------|-------------------------|-----------------------------|---------------------------------------------|
| PROJECT NUMBER | NJSTRE1547534416 | PREMISE CONTACT | Perry Shaw |
| SYSTEM SIZE | 432.9600 | INSTALLATION ADDRESS | 24 Merchant St Trenton, NJ 08608 |
| PRIMARY CONTACT (SREC OWNER) | Perry Shaw | | |

Note: This letter is addressed to the Primary Contact (TREC Owner) listed in the TI Certification form

signed by the Primary Contact, the Premise Contact, and the Solar Installer.

[1] *This is a standard form letter intended to cover many cases. You should read it carefully for those provisions applicable to your own project but be aware that all the provisions may not be applicable.*

The date of your project's conditional acceptance is 09/22/2021. You must submit a complete Final As-Built Package (Post Construction Certification) and meet all other program requirements on or before the project's expiration date noted in this acceptance letter. If a complete Final As-Built Package is not submitted on or before the expiration date, the application will be cancelled.

By [Order](#) dated November 18, 2020, TI applications with a permission to operate dated prior to May 1, 2020 must submit a complete Final As-Built Package in the online portal no later than December 30, 2020 at 11:59:59 PM EST. TI Applications with a PTO dated prior to May 1, 2020 that submit a complete Final As Built Package by the above deadline will be eligible for a 15- year TREC qualification life that begins on the date the permission to operate was issued by the Electric Distribution Company. Eligibility to generate TRECs will begin on May 1, 2020 and will not extend back to the date of PTO. Projects in this class that do not submit a complete Final As- Built Package by the above-mentioned deadline will be rejected and no longer eligible for the TI Program.

When your Final As-Built packet is deemed complete, you may be randomly selected for an on-site inspection. You will be notified via email if you are selected for an on-site inspection, and you will thereafter be contacted by a Program Representative to schedule the inspection. If you are not so selected, you will be also notified of that via email.

Upon satisfactory completion of all program requirements, the owner of the TRECs will be issued an NJ TREC Certification Number and instructions regarding how to register the solar PV generating system at PJM GATS. The NJ TREC Certification Number is a distinct number that is assigned based on the solar installation project type that is associated with the specific factor. *For additional information on Project Type and Factors see TI Guidelines and Clarification below.*

More detailed information regarding the TI Program can be found on the NJCEP website at [Transition Incentive Program Online Portal](#). In addition, certain additional explanations, caveats, clarifications, and conditions are set forth under the *TI Guidelines and Clarification* section below.

If you have questions or concerns about your TI application, please feel free to contact us at njreinfo@njcleanenergy.com.

Thank you for participating in the Transition Incentive Program.

Transition Incentive Program
New Jersey Clean Energy Program TM
c/o TRC
317 George Street, Suite #520
New Brunswick, NJ 08901

CC:
Perry Shaw
Jarek Morko

TI Guidelines and Clarifications

Special Reporting Required for Net Metered Projects greater than 1 MW

For the above projects, Quarterly Milestone reports must be submitted to the TI Processing Team within two weeks of the quarters ending on March 31, June 30, September 30 and December 31. If there is a change to the ownership of the TRECs from the initial TI Application, this change should be noted on the TI Milestone Reporting Form and a copy of the newly executed contract reflecting the new owner and a revised TI Certification Form should be included with the Milestone Reporting form at the next quarterly submission. Quarterly reports can be submitted in the online portal or via email to njreinfo@njcleanenergy.com. The Milestone Reporting Form and instructions on how to submit this form can be found at www.njcleanenergy.com. Note: The requirements of this paragraph do not apply to residential projects.

Revenue Grade Meter Requirements

All solar energy systems eligible to earn TRECs must report system production based upon readings from a revenue-grade meter that meets the American National Standards Institute (ANSI) Standard C12.1-2008. This meter is in addition to the electric meter installed by the local utility to measure the home or business' electric consumption. The approved list of revenue grade meters accepted in TI can be found at [solar production meters](#).

TREC Eligibility for Adding Capacity to an Existing Solar System

If you are adding capacity to a previously installed system that participated in the SREC Registration Program or any previous NJ solar program where the solar system was eligible for SRECs (Solar Renewable Energy Certificates), you are *required* to install a new revenue grade meter for the added capacity.

Interconnection and Authorization to Energize Requirements

This letter does not constitute a determination of eligibility to interconnect the project to the distribution system in New Jersey. Net metered project owners or their developers must follow the Net Metering and Interconnection process required by New Jersey law at N.J.A.C. 14:8-4.1 through 14:8-5.9 and facilitated by their Electric Distribution Company (EDC). The TI Processing Team does not review the estimated system production and historical onsite consumption for projects to determine eligibility for net metering purposes. Applicants must obtain the required approval from their EDCs or they may be at risk of proceeding with a project that the EDC refuses to interconnect based on its review of the system output and historical consumption. Among other things, on-site load must be at least equal to project generation before a net-metered system may be energized or final program acceptance issued.

Applicants must also obtain authorization to energize their interconnected system from their EDC. If it is determined that the date of the EDC Authorization to Energize is after the expiration date referenced in this letter, the TI application will be terminated, and the applicant will be required to begin the entire application process by submitting a new initial application package. A Final As-Built (Post Construction Certification) package must be submitted within 90 Days from the date of the permission to operate.

The Final As-Built Checklist requires, among other things, proof that the relevant EDC has approved the interconnection with the EDC's Electrical Distribution System (i.e., grid) and issued a Notice of Authorization to Energize.

Transition Incentive Renewable Energy Certificates (TRECs)

Once a qualified solar project is interconnected with the Electric Distribution System in New Jersey and is authorized to be energized by the EDC, the system is able to produce electricity and is eligible to begin earning TRECs. One TREC is earned each time a project generates 1,000 kilowatt-hours (kWh) of electricity.

TI Guidelines and Clarifications (cont.)

Extensions

The Transition Incentive Program does not allow for any extensions.

Project Types and Factors

The Transition Incentive is structured as a factorized renewable energy certificate. The factors allow the TREC to provide differentiated financial incentives for different types of solar installation. Using the table below, the project type must be identified in the online portal to determine the appropriate factor for TREC eligibility. Applicants with projects for which more than one factor may apply (e.g., a project that is partially roof mounted and partially ground mounted) may split their project and submit separate applications for each project type. Each application will receive a distinct TI project number, acceptance date and expiration date and NJ Certification Number. Failure to split the project into two separate projects and applications would result in the lower factor applying to the entire project.

Applicants that submit separate applications for solar installations that have more than one factor are required to install a designated revenue grade meter for each system.

| <u>Project Type</u> | <u>Factor</u> |
|----------------------------------------------------------------------|---------------|
| Subsection (t): landfill, brownfield, areas of historic fill. | 1.00 |
| Grid supply (subsection (r)) rooftop | 1.00 |
| Net-metered non-residential rooftop and canopy | 1.00 |
| Community Solar | 0.85 |
| Grid supply (subsection (r)) ground mount | 0.60 |
| Net-metered residential ground mount | 0.60 |
| Net-metered residential rooftop and canopy | 0.60 |
| Net-metered non-residential ground mount | 0.60 |
| Floating Solar | 0.60 |

Changing TREC Ownership

Applicants that have a change to the System or TREC ownership must provide a copy of the newly executed contract reflecting the new owner together with a revised TI Certification form. If the change in ownership occurs after the NJ TREC Certification Number has been issued, please contact GATS for guidance on how to make this change.

The assigned Project Number and the Permission to Operate (PTO) dates for previously installed solar systems can be found on the Solar Installation Report at [Solar Reports](#).

Location of TI Program Forms and Documents

The Final As-Built Checklist and other program forms can be found at www.njcleanenergy.com.

Related Board Orders

[Board Order dated December 6, 2019, Docket No. QO19010068](#) IN THE MATTER OF A NEW JERSEY SOLAR

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09/22/2021

Perry Shaw
 Trenton Parking Authority
 16 E Front St
 Trenton, NJ 08608

RE: TI Application Number NJSTRE1547534412 - Conditional Acceptance

Dear Perry Shaw:

We are pleased to inform you the above solar project has been conditionally accepted by New Jersey's Clean Energy Program's (NJCEP's) Transition Incentive Program (TI) and has been assigned an Application Number NJSTRE1547534412. The project has been conditionally accepted with a 285.1200 kW (DC) solar electric system. The final acceptance of this initial application is conditioned on completing the solar installation and commencing commercial operation on or before the expiration date of **09/22/2022**.

On May 23, 2018, the Clean Energy Act, L. 2018, c. 17 (Act), was signed into law. Among other mandates, the Act directed the Board to adopt rules and regulations to close the SREC Registration Program (SRP) to new registrations once 5.1% of the kilowatt-hours sold in the State are generated by solar electric power connected to the distribution system. N.J.S.A. 48:3-87(d)(3). The Act also directed the Board to complete a study on how to modify or replace the SRP with a Successor Program to encourage the continued efficient and orderly development of solar renewable energy generating sources throughout the State. The Board has entered at least three related Orders, as well as revisions of its regulations, regarding implementation of these provisions of the Act. *Link to Orders can be found under TI Guidelines and Clarifications below.*

The Transition Incentive Program was established by the New Jersey Board of Public Utilities (NJBPUB) to provide a bridge between the Legacy SREC Registration Program and the Successor Program. The NJBPUB determined that, if the Successor Program is not ready to accept new registrations by the time the 5.1% Milestone is attained, the Board will allow projects to apply to participate in the Transition Incentive Program. The 5.1% Milestone was attained on April 30, 2020. **The Transition Incentive Program opened to new applications on May 1, 2020.**

Your TI Application packet provided us with the following information regarding your solar project:

| | | | |
|-------------------------------------|-------------------------|-----------------------------|--------------------------------------------|
| PROJECT NUMBER | NJSTRE1547534412 | PREMISE CONTACT | Perry Shaw |
| SYSTEM SIZE | 285.1200 | INSTALLATION ADDRESS | 16 E Front St Trenton, NJ 08608 |
| PRIMARY CONTACT (SREC OWNER) | Perry Shaw | | |

Note: This letter is addressed to the Primary Contact (TREC Owner) listed in the TI Certification form signed by the Primary Contact, the Premise Contact, and the Solar Installer.

[1] *This is a standard form letter intended to cover many cases. You should read it carefully for those provisions applicable to your own project but be aware that all the provisions may not be applicable.*

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APPENDIX B: PROPOSAL COST AND PRICING SHEET

The TPA is hereby requesting offers for the turnkey delivery of engineering, procurement, and construction for photovoltaic systems for TPA facilities. The TPA requires PPA rates as well as pricing for cash purchase of each proposed PV system in order to weigh the best financial and economic option for the Authority. Additionally, two (2) of the four (4) projects were submitted under the Transition Incentive (TI) program through the Clean Energy Program.

The conditional approvals stipulate that projects submitted and approved **must reach Permission to Operate (PTO) by 9/22/2022 for the Liberty Commons Garage and Merchant Street Lot**. With the unwavering deadline on 9/22/2022, the TPA also requests PPA pricing and firm cash pricing under a Successor Solar Incentive Program (SuSI) scenario.

To be considered, respondents are required to include PPA pricing and firm cash pricing under a TI scenario and under a SuSI scenario. For the Lafayette Garage and Warren Street Garage, no TI applications were submitted, therefore, only a SuSI scenario PPA pricing and firm cash pricing is required.

Trenton Parking Authority
All values assume TREC acceptance and include Successor Pricing

| Year | Base Proposal PV System Only | | |
|------|---------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |

| Year | Alternate 1 Proposal Add 4 single or 2 double EV chargers | | |
|------|--------------------------------------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |

Trenton Parking Authority
All values assume TREC acceptance and include Successor Pricing

| Year | Base Proposal PV System Only | | |
|------|---------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |

| Year | Alternate 1 Proposal Add 4 single or 2 double EV chargers | | |
|------|--------------------------------------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
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| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |

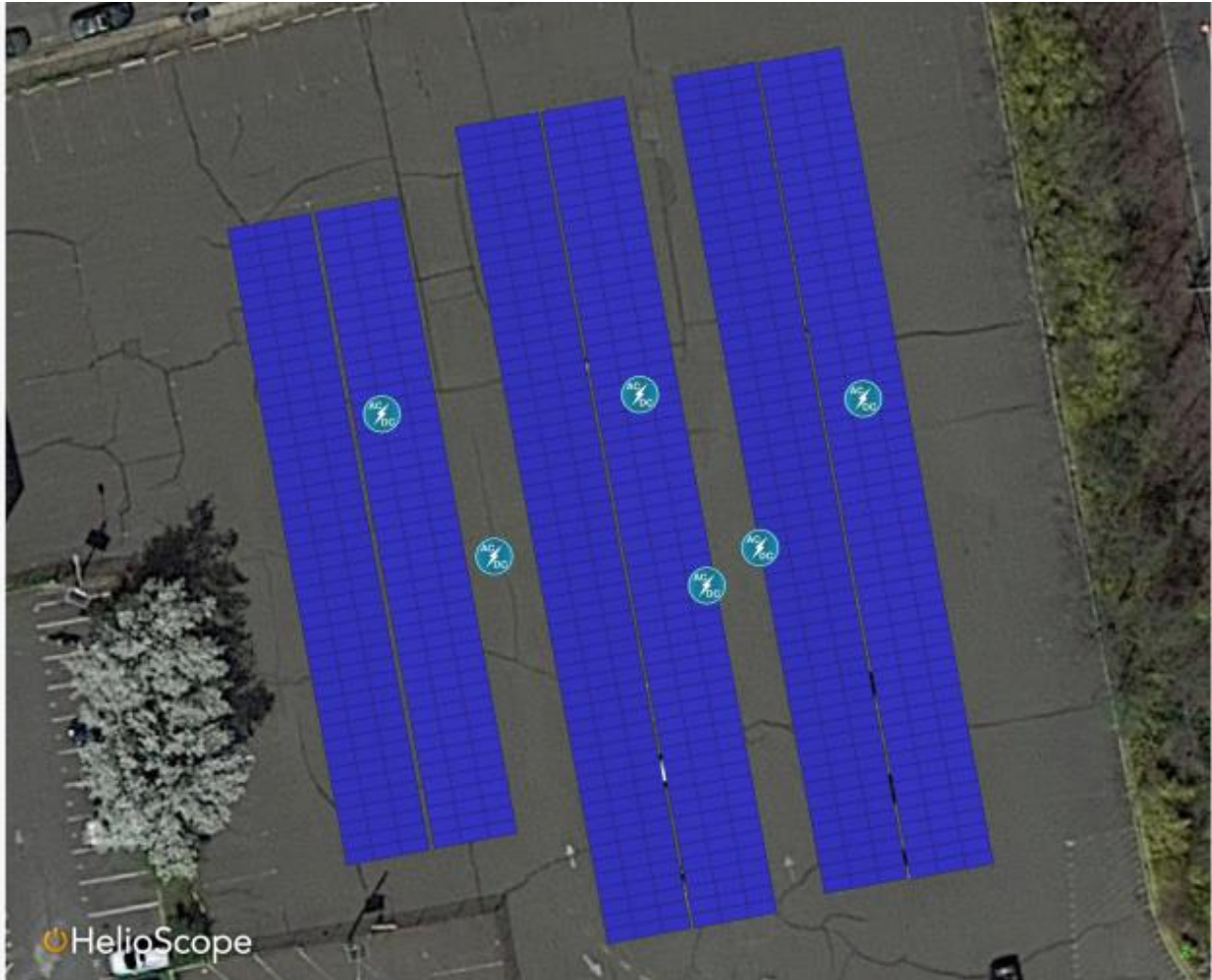
Trenton Parking Authority
All values assume Successor SREC (SREC-II)

| Year | Base Proposal PV System Only | | | Alternate 1 Proposal Add 4 single or 2 double EV chargers | | |
|------|---------------------------------|----------|------------|--------------------------------------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
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| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Trenton Parking Authority
All values assume Successor SREC (SREC-II)

| Year | Base Proposal PV System Only | | | Alternate 1 Proposal Add 4 single or 2 double EV chargers | | |
|------|---------------------------------|----------|------------|--------------------------------------------------------------|----------|------------|
| | PPA Rate | \$ / kWh | \$ buy-out | PPA Rate | \$ / kWh | \$ buy-out |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
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| 12 | | | | | | |
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| 14 | | | | | | |
| 15 | | | | | | |

APPENDIX C: PROJECT CONCEPT MAPS



Merchant Street Lot

24 Merchant St, Trenton, NJ

432.96 kW



Liberty Commons Garage

16 E Front Street, Trenton, NJ

285.12kW



Lafayette Garage

1 W Lafayette St, Trenton, NJ

330.2 kW



Warren Street Garage

110 N Warren St, Trenton, NJ

30 Kw

APPENDIX D: UTILITY INFORMATION



JUN 22 2021

Your energy bill

Message Center

**** SHUT-OFF NOTICE ****
1-800-357-2262 (Mon-Fri, 7:30 AM - 8:00 PM)

Your bill is now past due. Payment of \$3,397.34 must be received by 7/1/2021 or service may be shut off. A security deposit may be required if late payments continue. **A statement of customer rights and fees is shown on the reverse side.**

Si en el futuro usted desea recibir la notificación de desconexión de servicio en español, por favor llame al 1-800-357-2262.

This bill reflects an increase in the supply portion of your bill effective June 1, 2021. The change in the supply portion of your bill is a result of the statewide supply auction that was approved by the BPU on February 11, 2021. The overall increase for business customers will vary by individual customer usage. Tariff information may also be found by visiting pseg.com.

NEXT METER READING July 7, 2021

How to contact us

1-855-BIZ-PSEG (249-7734)
Customer Service: 7am to 5:30pm Mon to Fri,
Closed on weekends and holidays
Emergencies / Outages / WorryFree Services: 24/7
TTY for the hearing impaired: 1-800-225-0072

Visit pseg.com/myaccount to access your account anytime

Text us. Register for MyAlerts by texting **REG** to 4PSEG(47734)
> Text **OUT** to report an outage.

facebook.com/pseg twitter.com/psegdelivers

Shut-off notice
Total amount due **\$4,852.75**
See shut-off notice below for payment details

Bill date: June 16, 2021
For the period: May 07, 2021 to June 11, 2021

TRENTON PARKING AUTHORITY

ACCOUNT NUMBER
68 929 025 02

SERVICE ADDRESS
1 W LAFAYETTE ST PKG LOT
TRENTON CITY NJ 08608

Your billing summary

Balance remaining from your last bill

PSE&G balance from last bill \$3,397.34
Balance remaining from your last bill \$3,397.34

This month's charges and credits

Electric charges - PSE&G \$432.96
Unmetered charges - PSE&G \$37.44
Electric supply charges - UGI ENERGY \$985.01
SERVICES

This month's charges and credits \$1,455.41

Total amount due by Jul 1, 2021 \$4,852.75

cut# 13788

Visit MyAccount for more details regarding your energy usage.





Details of your electric charges

Your rate: General Lighting & Power (GLP)

| Meter # 9213113 | Usage |
|----------------------|-------|
| Reading Jun 11, 2021 | |
| On-Peak | 37164 |
| Reading May 13, 2021 | |
| Less On-Peak | 36906 |
| Multiplier | 40 |

Delivery charges

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------|
| Monthly service charge | | \$4.84 |
| Charges for delivering electric to you: | | |
| Annual Demand | 18.400 kW x \$3.955978 | \$72.79 |
| <i>The highest Measured Demand in any time period in the current month.</i> | | |
| Summer Demand | 18.300 kW x \$9.920765 | \$181.55 |
| <i>The Measured Demand (excluding off-peak) in each billing month of June through September.</i> | | |
| kWh charges | 10,337 kWh x \$0.008117 | \$83.91 |
| Societal Benefits | 10,337 kWh x \$0.008694 | \$89.87 |
| <i>This charge recovers the cost of government mandated programs designed to achieve public policy goals, such as energy conservation.</i> | | |
| Total electric delivery charges | | \$432.96 |



Total electric charges \$432.96

Your monthly electric use



Visit MyAccount for more details regarding your energy usage.

MEASURED DEMAND

| | |
|--------------|-------|
| On-Peak kW | 18.30 |
| Off-Peak1 kW | 0.00 |
| Off-Peak2 kW | 18.40 |

Measured Demand is the maximum use of electricity at any time during a monthly time period, as measured by your meter.

BILLED DEMAND

| | |
|------------------|-------|
| Annual Demand kW | 18.40 |
| Summer Demand kW | 18.30 |

SUPPLY CAPACITY

| | |
|-----------------|--------|
| Generation kW | 24.443 |
| Transmission kW | 20.915 |

Supply capacity is required to serve the system's annual peak usage. It represents your share of these facilities, in kilowatts (kW). It is calculated based on your peak usage from the previous summer. Supply capacity values are updated periodically throughout the year and are prorated based on your service period.

Price to compare

You are currently buying your electricity from another supplier. If you had been purchasing your electric supply from PSE&G, your cost would be \$934.28. This is your price to compare. It varies from month to month depending on your usage.

Your PoD ID is: PE000009116551420272 -
 Your PoD ID is your Point of Delivery identification within PSE&G's system.





Your unmetered electric charges

Your rate: *Private Street Area Lighting (PSAL)*

USAGE
For the period May 7, 2021 to Jun 7, 2021 : 133 kWh

Delivery charges

| | | |
|-----------------------------------------|----------------------|---------|
| Fixture charge | | \$28.06 |
| Charges for delivering electric to you: | | |
| kWh charges | 133 kWh x \$0.023059 | \$3.07 |

Total electric delivery charges \$31.13

Supply charges

| | | |
|-------------------------------------|----------------------|--------|
| Cost of electric supplied by PSE&G: | | |
| Charges | | |
| For the first | 105 kWh x \$0.048008 | \$5.04 |
| For the next | 28 kWh x \$0.045316 | \$1.27 |

Total electric supply charges \$6.31

Total unmetered electric charges \$37.44

Price to compare

If you want to consider getting your electric supply from another supplier, you can compare their price with ours. This month, your cost for energy supply is \$6.31. This *price to compare* varies from month to month, depending on your usage.

Your PoD ID is: PE000011789268720272 - Your PoD ID is your Point of Delivery identification within PSE&G's system. You will need this number if you are considering enrolling with another supplier.

Electric supply charges - UGI ENERGY SERVICES

Through the CHOICE Program, you have chosen to purchase electricity from UGI ENERGY SERVICES. If you have any questions about the electric supply charges below, please contact them directly at (856) 273-9995.

| | |
|-----------------|----------|
| Adjustments | \$0.00 |
| Current charges | \$985.01 |

Total UGI ENERGY SERVICES Charges \$985.01

10337 KH @ 0.09529 = \$ 985.01

**Trenton Parking Authority
Lafayette Garage
1 W Lafayette Street, Trenton, NJ**

| | |
|------------------------------|--------------------------------|
| Account Number: | 68 929 025 02 |
| Meter Number: | 9213113 |
| Rate: | General Lighting & Power (GLP) |
| Third Party Supplier: | UGI Energy Services |

| Month: | kWh | kW | Total Cost |
|----------------|------------|-----------|-------------------|
| March 2022 | 16,019 | 24.40 | \$2,122.20 |
| February 2022 | 15,169 | 24.10 | \$2,018.07 |
| January 2022 | 16,406 | 23.70 | \$2,301.74 |
| December 2021 | 14,227 | 22.70 | \$1,848.91 |
| November 2021 | 11,209 | 20.50 | \$1,484.20 |
| October 2021 | 10,453 | 18.30 | \$1,371.40 |
| September 2021 | 9,598 | 16.30 | \$1,526.61 |
| August 2021 | 9,172 | 15.80 | \$1,471.19 |
| July 2021 | 10,238 | 16.80 | \$1,618.79 |
| June 2021 | 10,337 | 18.40 | \$1,672.31 |
| May 2021 | 12,035 | 20.30 | \$1,574.40 |
| April 2021 | 14,491 | 22.80 | \$1,880.84 |
| March 2021 | 14,669 | 23.50 | \$1,903.24 |
| February 2021 | 14,795 | 23.40 | \$1,911.38 |
| January 2021 | 19,308 | 28.80 | \$2,476.05 |



FEB 24 2021

Shut-off notice
 Total amount due **\$6,088.80**
 See shut-off notice below for payment details

Your energy bill

Bill date: February 16, 2022
For the period: January 13, 2022 to February 10, 2022

Message Center

**** SHUT-OFF NOTICE ****
1-800-357-2262 (Mon-Fri, 7:30 AM - 8:00 PM)

Your bill is now past due. Payment of \$3,041.21 must be received by 3/3/2022 or service may be shut off. A security deposit may be required if late payments continue. **A statement of customer rights and fees is shown on the reverse side.**

Si en el futuro usted desea recibir la notificación de desconexión de servicio en español, por favor llame al 1-800-357-2262.

Your WorryFree bill is now past due. Remit past due amount of **\$135.76** to prevent loss of coverage.

Put our tools to work for your business! For easy access to tips, programs and resources to help your business save time, energy and money, visit pseg.com/bizsavings.

NEXT METER READING March 14, 2022

How to contact us

1-855-BIZ-PSEG (249-7734)
 Customer Service: 8am to 5:30pm Mon to Fri,
 Closed on weekends and holidays
 Emergencies / Outages / WorryFree Services: 24/7
 TTY for the hearing impaired: 1-800-225-0072

Visit pseg.com/myaccount to access your account anytime

Text us. Register for MyAlerts by texting **REG** to 4PSEG(47734)
 > Text **OUT** to report an outage.

facebook.com/pseg twitter.com/psegdelivers

TRENTON PARKING AUTH

ACCOUNT NUMBER: 67 004 845 02
SERVICE ADDRESS: 102 N WARREN ST, TRENTON CITY NJ 08608-1308

Your billing summary

Balance remaining from your last bill

| | |
|------------------------------------------------------|-------------------|
| PSE&G balance from last bill | \$5,905.85 |
| Less: Payment received January 26, 2022 - thank you! | -\$2,728.68 |
| Balance remaining from your last bill | \$3,176.97 |

This month's charges and credits

| | |
|-----------------------------------------------------------------|-------------------|
| Gas charges - PSE&G | \$2,044.81 |
| Plus: Electric charges - PSE&G | \$155.04 |
| Plus: Electric supply charges - ENGIE Power & Gas LLC | \$676.60 |
| Plus: WorryFree Protection Plan charge - see page 5 for details | \$35.38 |
| This month's charges and credits | \$2,911.83 |

Total amount due by Mar 3, 2022 \$6,088.80

Page 1 of 5



PAY YOUR WAY, 24/7
We offer a variety of methods that make it easy to pay your bill. See reverse side for more information.

By checking this box, I authorize PSE&G to initiate recurring ACH/Electronic Debits using the bank account number on the enclosed check.

Account number: 6700484502
Total amount due: \$6,088.80
See shut-off notice above for amount that must be paid to avoid shut-off.

Amount enclosed



175883 000001870
TRENTON PARKING AUTH
110 N WARREN ST # 116
TRENTON NJ 08608-1308

PSE&G CO
PO BOX 14444
NEW BRUNSWICK NJ 08906-4444

2 7

6700484502 0006088805 00030412127

Details of your electric charges

Your rate: General Lighting & Power (GLP)

| Meter # 1726950 | Usage |
|-----------------------------|--------------|
| Actual reading Feb 10, 2022 | 1942 |
| Actual reading Jan 12, 2022 | 1645 |
| Difference | 297 |
| Meter multiplier | 15 |
| Total kWh | 4,455 |

Delivery charges

| | | |
|-----------------------------------------------------------------------------|------------------------|-----------------|
| Monthly service charge | | \$4.84 |
| Charges for delivering electric to you: | | |
| Annual Demand | 12,900 kW x \$3.956589 | \$51.04 |
| <i>The highest Measured Demand in any time period in the current month.</i> | | |
| kWh charges | | |
| For the first | 2,910 kWh x \$0.012649 | \$36.81 |
| For the next | 1,545 kWh x \$0.012615 | \$19.49 |
| Societal Benefits | 4,455 kWh x \$0.009621 | \$42.86 |
| Total electric delivery charges | | \$155.04 |

Total electric charges \$155.04

Your monthly electric use



Visit MyAccount for more details regarding your energy usage.

MEASURED DEMAND

Demand kW 12.90

Measured Demand is the maximum use of electricity at any time during a monthly time period, as measured by your meter.

BILLED DEMAND

Annual Demand kW 12.90

SUPPLY CAPACITY

Generation kW 32.968

Transmission kW 30.132

Supply capacity is required to serve the system's annual peak usage. It represents your share of these facilities, in kilowatts (kW). It is calculated based on your peak usage from the previous summer. Supply capacity values are updated periodically throughout the year and are prorated based on your service period.

Price to compare

You are currently buying your electricity from another supplier. If you had been purchasing your electric supply from PSE&G, your cost would be \$734.73. This is your price to compare. It varies from month to month depending on your usage.

Your PoD ID is: PE000010879021390795 - Your PoD ID is your Point of Delivery identification within PSE&G's system.

Electric supply charges - ENGIE Power & Gas LLC

Through the CHOICE Program, you have chosen to purchase electricity from ENGIE Power & Gas LLC. If you have any questions about the electric supply charges below, please contact them directly at (855) 327-6937.

| | |
|-----------------|----------|
| Adjustments | \$0.00 |
| Current charges | \$676.60 |

Total ENGIE Power & Gas LLC Charges \$676.60

**Trenton Parking Authority
Warren Garage
102 N Warren Street, Trenton, NJ**

| | |
|------------------------------|--------------------------------|
| Account Number: | 67 004 845 02 |
| Meter Number: | 1726950 |
| Rate: | General Lighting & Power (GLP) |
| Third Party Supplier: | ENGIE Power & Gas |

| Month: | kWh | kW | Total Cost |
|----------------|------------|-----------|-------------------|
| March 2022 | 4,830 | 14.10 | \$ 760.74 |
| February 2022 | 4,455 | 12.90 | \$ 882.68 |
| January 2022 | 4,905 | 14.40 | \$ 756.91 |
| December 2021 | 2,565 | 14.10 | \$ 423.64 |
| November 2021 | 6,990 | 14.10 | \$ 959.93 |
| October 2021 | 8,610 | 14.10 | \$ 1,146.63 |
| September 2021 | 10,935 | 35.30 | \$ 2,241.81 |
| August 2021 | 11,670 | 38.50 | \$ 2,412.04 |
| July 2021 | 9,930 | 36.50 | \$ 2,162.35 |
| June 2021 | 5,430 | 34.40 | \$ 1,585.47 |
| May 2021 | 4,620 | 26.90 | \$ 772.71 |
| April 2021 | 5,130 | 18.20 | \$ 764.74 |
| March 2021 | 4,050 | 16.50 | \$ 621.31 |
| February 2021 | 4,575 | 16.50 | \$ 683.25 |
| January 2021 | 5,160 | 17.60 | \$ 786.40 |



Total amount due **\$1,136.89**
 Please pay by **May 3, 2021**

Your energy bill

Message Center

Whether you're building a backyard patio or expanding the footprint of your business, call before you dig! You or your contractor must call the New Jersey One-Call Center at 1-800-272-1000 or 811 three business days before starting any work that involves digging. It's the law. See the enclosed insert or pseg.com/safeddigging for more information.

Over the next four years, PSEG will install smart meters that provide electric customers with a number of benefits. These include more detailed electric-use information, the elimination of almost all estimated electric bills, near real-time power outage detection, and more efficient power restoration following storms. To learn more, visit pseg.com/smartmeters.

Is there a streetlight out in your neighborhood? To report an outage, go to pseg.com/outagecenter, or call 1-800-436-PSEG (7734). Tell us the location of the streetlight, the nearest cross street, and if possible, the pole number (usually located on a metal strip attached to the pole).

NEXT METER READING May 12, 2021

How to contact us

- 1-855-BIZ-PSEG (249-7734)**
Customer Service: 7am to 5:30pm Mon to Fri,
 Closed on weekends and holidays
Emergencies / Outages / WorryFree Services: 24/7
TTY for the hearing impaired: 1-800-225-0072

- Visit pseg.com/myaccount to access your account anytime

- Text us. Register for MyAlerts by texting **REG** to 4PSEG(47734)
 > Text **OUT** to report an outage.

- facebook.com/pseg twitter.com/psegdelivers

Bill date: April 16, 2021
For the period: March 13, 2021 to April 13, 2021

TRENTON PRKNG AUTH *Liberty Commons*
ACCOUNT NUMBER 67 080 662 03
SERVICE ADDRESS
 16 E FRONT ST GARAGE
 TRENTON CITY NJ 08608

Your billing summary

Balance remaining from your last bill

| | |
|----------------------------------------------|---------------|
| PSE&G balance from last bill | \$3,027.23 |
| Less: Payment received - thank you! | -\$3,027.23 |
| Balance remaining from your last bill | \$0.00 |

This month's charges and credits

| | |
|-----------------------------------------------|-------------------|
| Electric charges - PSE&G | \$287.38 |
| Electric supply charges - UGI ENERGY SERVICES | \$849.51 |
| This month's charges and credits | \$1,136.89 |
| Total amount due by May 3, 2021 | \$1,136.89 |

Cut# 13671

APR 19 2021

Details of your electric charges

Your rate: General Lighting & Power (GLP)

| Meter # 728010787 | Usage |
|-----------------------------------------|--------------|
| Actual reading Apr 13, 2021 | 1247 |
| Loss Actual reading Mar 12, 2021 | 1024 |
| Difference | 223 |
| Meter multiplier | 40 |
| Total kWh | 8,920 |

Delivery charges

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| Monthly service charge | | \$4.77 |
| Charges for delivering electric to you: | | |
| Annual Demand | 22.400 kW x \$3.937946 | \$88.21 |
| <i>The highest Measured Demand in any time period in the current month.</i> | | |
| kWh charges | 8,920 kWh x \$0.013100 | \$116.85 |
| Societal Benefits | 8,920 kWh x \$0.008694 | \$77.55 |
| <i>This charge recovers the cost of government mandated programs designed to achieve public policy goals, such as energy conservation.</i> | | |
| Total electric delivery charges | | \$287.38 |

Total electric charges \$287.38

Your monthly electric use



Visit MyAccount for more details regarding your energy usage.

MEASURED DEMAND

Demand kW 22.40

Measured Demand is the maximum use of electricity at any time during a monthly time period, as measured by your meter.

BILLED DEMAND

Annual Demand kW 22.40

SUPPLY CAPACITY

Generation kW 26.568

Transmission kW 21.892

Supply capacity is required to serve the system's annual peak usage. It represents your share of these facilities, in kilowatts (kW). It is calculated based on your peak usage from the previous summer. Supply capacity values are updated periodically throughout the year and are prorated based on your service period.

Price to compare

You are currently buying your electricity from another supplier. If you had been purchasing your electric supply from PSE&G, your cost would be \$867.05. This is your *price to compare*. It varies from month to month depending on your usage.

Your PoD ID is: PE000009360418981434 – Your PoD ID is your Point of Delivery Identification within PSE&G's system.



TRENTON PRKNG AUTH
Your account number: 6708066203
Invoice Number: 603705416126

Electric supply charges - UGI ENERGY SERVICES

Through the CHOICE Program, you have chosen to purchase electricity from UGI ENERGY SERVICES. If you have any questions about the electric supply charges below, please contact them directly at (856) 273-9995.

| | |
|-----------------|----------|
| Adjustments | \$0.00 |
| Current charges | \$849.51 |

| | |
|---------------------------------------------------------------------------------------------------------------------|----------|
|  Total UGI ENERGY SERVICES Charges | \$849.51 |
|---------------------------------------------------------------------------------------------------------------------|----------|

8920 KH @ 0.09524 = \$ 849.51

Payments

| | | |
|---------------------|-------------|-------------|
| Payment - Thank You | Apr 5, 2021 | -\$1,538.30 |
| Payment - Thank You | Apr 1, 2021 | -\$1,488.93 |

| | |
|----------------|---------------|
| Total payments | \$3,027.23 CR |
|----------------|---------------|

**Trenton Parking Authority
 Liberty Commons Garage
 16 E Front St, Trenton, NJ**

| | |
|------------------------------|--------------------------------|
| Account Number: | 67 080 662 03 |
| Meter Number: | 728010787 |
| Rate: | General Lighting & Power (GLP) |
| Third Party Supplier: | UGI Energy Services |

| Month: | kWh | kW | Total Cost |
|----------------|------------|-----------|-------------------|
| March 2022 | 17,280 | 30.40 | \$2,873.43 |
| February 2022 | 15,440 | 29.20 | \$2,924.48 |
| January 2022 | 8,080 | 26.00 | \$1,261.73 |
| December 2021 | 11,680 | 26.00 | \$1,577.03 |
| November 2021 | 9,600 | 26.00 | \$1,334.35 |
| October 2021 | 9,720 | 20.00 | \$1,295.26 |
| September 2021 | 7,520 | 16.00 | \$1,287.24 |
| August 2021 | 7,400 | 15.60 | \$1,264.83 |
| July 2021 | 7,760 | 16.40 | \$1,327.97 |
| June 2021 | 6,800 | 18.00 | \$1,265.49 |
| May 2021 | 7,520 | 19.20 | \$1,035.99 |
| April 2021 | 8,920 | 22.40 | \$1,225.10 |
| March 2021 | 11,920 | 22.80 | \$1,741.84 |
| February 2021 | 12,320 | 24.40 | \$1,950.13 |
| January 2021 | 14,920 | 27.20 | \$2,054.86 |



JAN 21 2020

Total amount due **\$3,373.35**
 Please pay by **February 1, 2021**

Your energy bill

Bill date: January 15, 2021
For the period: December 11, 2020 to January 12, 2021

Message Center

PSEG is proud to be named to the Dow Jones Sustainability Index for 13th consecutive year. This honor reflects our long-standing commitment to sustainable and ethical practices as well as achievements across environmental, social and governance issues. To learn more about PSEG's efforts, go to pseg.com/sustainability.

Prevent carbon monoxide poisoning. While CO poisoning is a year-round threat, it is more common in cold weather. Install CO detectors throughout your home or business. To learn more about how to protect yourself, visit pseg.com/gassafety or see the enclosed Working for You newsletter.

Please help keep our employees safe. Make sure the path leading to your meters and other outside electrical equipment is free of clutter, ice and snow.

TRENTON PARKING AUTH

ACCOUNT NUMBER
65 214 219 05

SERVICE ADDRESS
24 MERCHANT ST
TRENTON CITY NJ 08608-1806

Your billing summary

Balance remaining from your last bill

| | |
|--------------------------------------------------------|---------------|
| PSE&G balance from last bill | \$849.91 |
| Payment received December 29, 2020 - <i>thank you!</i> | -\$849.91 |
| Balance remaining from your last bill | \$0.00 |

This month's charges and credits

| | |
|------------------------------------------------------------------|-------------------|
| Gas charges - PSE&G | \$2,387.60 |
| Electric charges - PSE&G | \$969.02 |
| WorryFree Protection Plan charge - <i>see page 5 for details</i> | \$16.73 |
| This month's charges and credits | \$3,373.35 |

Total amount due by Feb 1, 2021 **\$3,373.35**

NEXT METER READING February 10, 2021

How to contact us

1-855-BIZ-PSEG (249-7734)
Customer Service: 7am to 5:30pm Mon to Fri,
 Closed on weekends and holidays
Emergencies / Outages / WorryFree Services: 24/7
TTY for the hearing impaired: 1-800-225-0072

Visit pseg.com/myaccount to access your account anytime

Text us. Register for MyAlerts by texting **REG** to 4PSEG(47734)
 > Text **OUT** to report an outage.

facebook.com/pseg twitter.com/psegdelivers

cust # 13557

*Customer Service 2@
 pseg.com
 acct # 65 214 219 05
 meter # in picture*

TRENTON PARKING AUTH
 Your account number: 6521421905
 Invoice Number: 604805949875

Details of your electric charges

Your rate: General Lighting & Power (GLP)

| Meter # 266011130 | Usage |
|--------------------------------|---------------|
| Estimated reading Jan 12, 2021 | 2715 |
| Estimated reading Dec 10, 2020 | 1399 |
| Difference | 1,316 |
| Meter multiplier | 9 |
| Total kWh | 11,844 |

Delivery charges

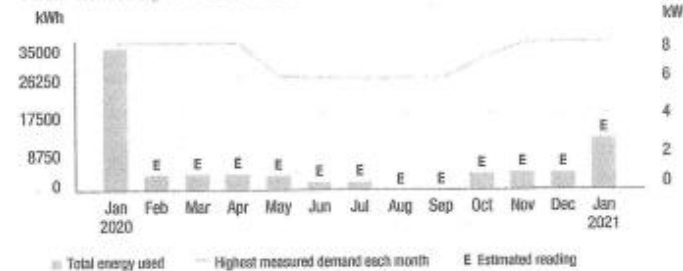
| | | |
|-----------------------------------------------------------------------------|-------------------------|-----------------|
| Monthly service charge | | \$4.77 |
| Charges for delivering electric to you: | | |
| Annual Demand | 7.700 kW x \$3.938961 | \$30.33 |
| <i>The highest Measured Demand in any time period in the current month.</i> | | |
| kWh charges | | |
| For the first | 7,533 kWh x \$0.012885 | \$97.06 |
| For the next | 4,311 kWh x \$0.012719 | \$54.83 |
| Societal Benefits | 11,844 kWh x \$0.008694 | \$102.97 |
| Total electric delivery charges | | \$289.96 |

Supply charges

| | | |
|--------------------------------------|------------------------|-----------------|
| BGS Capacity | | |
| Prior Generation | 3,715 kW x \$5.647376 | \$20.98 |
| Current Generation | 2,116 kW x \$5.647448 | \$11.95 |
| Prior Transmission | 2,929 kW x \$12.120178 | \$35.50 |
| Current Transmission | 1,709 kW x \$11.930954 | \$20.39 |
| Cost of electric supplied by PSE&G: | | |
| Charges | | |
| For the first | 7,533 kWh x \$0.047445 | \$357.40 |
| For the next | 4,311 kWh x \$0.054011 | \$232.84 |
| Total electric supply charges | | \$679.06 |

Total electric charges \$989.02

Your monthly electric use



■ Total energy used — Highest measured demand each month E Estimated reading

Visit MyAccount for more details regarding your energy usage.

MEASURED DEMAND

Demand kW 7.70

Measured Demand is the maximum use of electricity at any time during a monthly time period, as measured by your meter.

BILLED DEMAND

Annual Demand kW 7.70

SUPPLY CAPACITY

Prior Generation kW 5.838

Current Generation kW 5.819

Prior Transmission kW 4.602

Current Transmission kW 4.700

Supply capacity is required to serve the system's annual peak usage. It represents your share of these facilities, in kilowatts (kW). It is calculated based on your peak usage from the previous summer. Supply capacity values are updated periodically throughout the year and are prorated based on your service period.

Price to compare

If you want to consider getting your electric supply from another supplier, compare their price with ours. This month, your cost for energy supply is \$679.06. This price to compare varies month to month, depending on your usage.

Your PoD ID is: PE000008446048490787 – Your PoD ID is your Point of Delivery identification within PSE&G's system. You will need this number if you are considering enrolling with another supplier.

**Trenton Parking Authority
Merchant Lot
24 Merchant St, Trenton, NJ**

| | |
|------------------------|--------------------------------|
| Account Number: | 65 214 219 05 |
| Meter Number: | 266011130 |
| Rate: | General Lighting & Power (GLP) |

| Month: | kWh | kW | Total Cost |
|----------------|------------|-----------|-------------------|
| March 2022 | 7,317 | 7.7 | \$ 634.47 |
| February 2022 | 6,282 | 7.7 | \$ 516.87 |
| January 2022 | 6,345 | 7.7 | \$ 520.36 |
| December 2021 | 4,086 | 7.7 | \$ 402.63 |
| November 2021 | 3,834 | 7.7 | \$ 394.24 |
| October 2021 | 4,104 | 6.9 | \$ 399.83 |
| September 2021 | 0 | 5.8 | \$ 255.47 |
| August 2021 | 0 | 5.8 | \$ 255.47 |
| July 2021 | 2,070 | 5.8 | \$ 393.58 |
| June 2021 | 1,926 | 5.8 | \$ 393.58 |
| May 2021 | 0 | 7.7 | \$ 157.97 |
| April 2021 | 8,406 | 7.7 | \$ 755.15 |
| March 2021 | 8,622 | 7.7 | \$ 770.21 |
| February 2021 | 9,288 | 7.7 | \$ 850.30 |
| January 2021 | 11,844 | 7.70 | \$ 999.35 |

APPENDIX E: ELECTRIC VEHICLE CHARGING TECHNICAL SPECIFICATIONS

Technical Specifications for Electric Vehicle Charging

Trenton Parking Authority (TPA)

The Trenton Parking Authority (TPA) desires to receive firm pricing for the turnkey delivery of fully-functioning Electric Vehicle Charging (EVC) equipment. The turnkey delivery of the EVC equipment shall be provided as alternate additions to the PV system “Base Offer”. The TPA may or may not proceed with the installation of EVC equipment.

The following sections identify the Basis of Design for the preferred EVC equipment and specify the minimum technical requirements for the equipment, physical installation, and software operation. All costs for the EVC work included in the RFP shall be the sole responsibility of the proposer and, shall be included in the PPA rate for each Alternate to the PV system Base Offer.

ELECTRIC VEHICLE CHARGING (EVC)

Install EVC equipment including charging cabinets, rectifiers, chargers, dispensers, conduits, and wiring.

Mock-up: Installation of this equipment item requires initial mock-up and acceptance by TPA and their designated representatives.

COMMERCIAL ELECTRIC VEHICLE CHARGING UNIT

The General Provisions of the Contract, including General and Special Conditions and the requirements consistent with the PV system technical specification. General Component Requirements apply to the Work in this Section.

1.01 WORK INCLUDED

Equipment items as listed below by Equipment Mark Number:

ELECTRIC VEHICLE CHARGING SYSTEM

Installation of equipment with labor, services, and incidentals necessary for a complete and properly operational equipment installation.

Utilities to be roughed in at location reviewed and approved by the TPA and their representatives.

Coordination of equipment, controls, systems, and vehicle to allow for a single user operation of the EVC unit.

ALTERNATIVE BIDS

Refer to Appendix B Proposal Cost and Pricing Sheet / General Requirements for possible effect on Work of this Section.

QUALITY ASSURANCE

Experience: Equipment shall be produced by a manufacturer of established reputation with a minimum of five years' experience supplying specified equipment.

Manufacturer's Representative:

Installation: Provide a qualified manufacturer's representative at site to supervise work related to equipment installation, check out and start up.

Training: Provide technical representative to train TPA's maintenance personnel in operation and maintenance of specified equipment.

Testing: Provide technical representative for final testing of equipment.

STANDARD AND REGULATORY REQUIREMENTS

Equipment indicated within this specification section shall comply with all applicable national, state, and local codes and regulations, including seismic, fire, and racking codes and regulations. Additional, more specific compliance requirements may be listed under individual equipment headings.

Permitting: Any individual equipment permits required by the local authority having jurisdiction (AHJ) shall be responsibility of the Contractor. The contractor shall obtain all necessary information, provide all necessary documents, and submit for all individual equipment permit as required by the AHJ. Individual equipment permits shall include, but not necessarily be limited to, any deferred equipment submittals, seismic permitting, fire marshal approvals, and equipment installation/start-up permitting.

SUBMITTALS

Submittal requirements consistent with the PV system technical specifications.

Product Data:

Submit Product Data in accordance with Shop Drawings Package/ General Requirements of these specifications consistent with the PV system technical specifications.

All Product Data submittals shall identify proposed project specific items marked by arrow, circle, underline, reproducible highlight, or other markings clearly discernable by the reviewer, to show which specific items, parts and accessories are

being submitted for the project product data review. Non-marked or generic product data submittals with no marks indicating specific items, parts and accessories will be a cause for rejection.

Restrict submitted material to pertinent data. For instance, do not include manufacturer's complete catalog when pertinent information is contained on a single page.

Operation and Maintenance Manual:

Provide a Complete parts list, operating instructions, and maintenance manual covering equipment at time of installation including, but not limited to:

Description of system and components.

Manufacturer's printed operating instructions.

Printed listing of periodic preventive maintenance items and recommended frequency required to validate warranties. Failure to provide maintenance information will indicate that preventive maintenance is not a condition for validation of warranties.

List of original manufacturer's parts, including suppliers' part numbers and cuts, recommended spare parts stockage quantity and local parts and service source.

Assemble and provide copies of manual in 8-1/2 by 11-inch format. Foldout diagrams and illustrations are acceptable. Manual to be reproducible by dry copy method. Provide copies per provisions of Documentation / General Requirements, consistent with the PV system technical specification.

Shop Drawings: *Submit shop drawings in accordance with Shop Drawings Package of these specifications.*

Submitted shop drawings shall be project specific and shall include a minimum 1/8 inch to 1 foot scaled (or larger standard architectural imperial scale), dimensioned, graphical representation of the size, orientation, and location for all instances of submitted

The drawings shall further include dimensions from structural elements or architectural grid lines to each major charging equipment item (EVC unit) operational clearances, locations of any utility service connection points, power and communication output points, mounting requirements, and structural supports required for the submitted equipment.

Manufacturer's standard installation drawings will be accepted and reviewed but are not considered as a replacement to project specific shop drawings.

Test Procedure and Test Reports:

Testing Procedures and Testing Reports are required for all systems included in this specification. Testing procedures shall be submitted to the TPA and Design Team prior to installation, and shall, at a minimum, outline the manufacturer's procedure for successful testing of the equipment after installation. Testing Reports shall be record documents of the post-installation test, itemizing the requirements of the Test Procedure and noting if individual requirements were met or not met, with notes and comments as needed. Testing reports shall be provided to the TPA and Design team upon completion of testing, prior to final invoice. Provide duplicates of all test reports as part of the Close-Out Documents.

Required Documents for Permit and Local Jurisdictional Approval:

Where required by local jurisdiction and/or code officials, the contractor/supplier shall be responsible for producing and submitting all documentation required for obtaining all applicable approvals related to the specified equipment. This documentation may include, but may not be limited to, engineered signed and stamped plans, details, anchorage layouts for equipment on stands to show compliance with locally adopted ASCE, seismic, fire, and other codes. A copy of these required documents shall be included with the product submittal to the Design Team/consultant team for their review.

PRODUCT SUBSTITUTIONS

Follow requirements specified in General Requirements.

Additional costs resulting from substitution of products, accessories or deviations of operations as described in Section 2, other than those specified, including drawing changes and construction, will be the expense of the Contractor, captured, and reviewed as part of the shop drawing review. All design deviations of the proposed charging system including operational changes, changes required to electric vehicle mounted equipment and controls, variations to the Remote Dispenser Operating System equipment and controls to be documented on the project specific shop drawings and product data review.

Substitution Approval: Manufacturers listed for each equipment item may bid without prior- submittal authorization for that item. Manufacturers not listed shall submit for approval in accordance with "Instructions to Bidders". Prior to procurement, submittals for each equipment item by Mark Number shall be provided in accordance with General Requirement, as described in and consistent with the PV system technical specification.

WARRANTY

Warrant work specified herein for one year from substantial completion against defects in materials, function, workmanship and charging system operational design.

Warranty shall include materials and labor necessary to correct defects including replacement of charging system operational elements with re-designed components.

Defects shall include, but not be limited to loose, damaged and missing parts and abnormal deterioration of finish, excessive cord wear.

Operational design defects include systemic bent charging and charging communications connector pins, damaged charging cord conductors and internal wiring, breakage and deterioration of charging plug-in mating elements (ports, charging connector) during routine daily use of charging system.

Submit warranties in accordance with Warranty / General Requirements of these specifications.

PRODUCT DELIVERY, STORAGE, AND HANDLING

Deliver equipment in manufacturer's containers, appropriately packaged and/or crated for protection during shipment and storage in humid, dusty conditions. Equipment shall be stored per manufacturer's recommendation.

Indelibly label all containers, including those contained in others, on outside with item description(s) per title and Mark Number of this specification.

Provide equipment and materials specified complete in one shipment for each equipment item. Split or partial shipments are not permissible.

LABELING

Manufacturer shall securely attach in a prominent location on each major item of equipment the following labels:

A non-corrosive nameplate showing manufacturer's name, address, model number, serial number, and pertinent utility or operating data.

All NFPA and /or OSHA compliant labels as required by those codes, including but not necessarily limited to labels indicating safety alerts, high voltage warnings, and arc flash warning.

Matching labels on each Circuit Breaker / Load Center and Dispenser that clearly identifies which circuit breaker controls which EVC.

PRODUCTS

CHARGING SYSTEM

Equipment Mark Number: TPA EV ##

General:

Description:

A stationary upright dispenser and corded handheld plug capable of being manually connected to the charging port of Electric Vehicles (EVs), and then automatically charging the connected EV utilizing electrical power.

Coordination:

Specification information indicated herein is intended as general requirement only. Final design of the system shall be by the proposer and shall be presented in the project specific shop drawings in coordination with the interconnection and installation of the proposed Photovoltaic (PV) system at the TPA's Merchant Lot, Lafayette Garage, Warren Street Garage, and Liberty Commons Garage.

Compliance:

The equipment and final design shall comply with the most current editions of all applicable local, state, and federal codes and regulations, including, but not limited to, those listed below:

NFPA 70: National Electric Code (NEC), most recent edition.

SAE J1772: SAE Electric Vehicle and Plug-in Hybrid Electric Vehicle Conductive Charge Coupler, most recent edition.

ANSI/IEC 60529: Degrees of Protection Provided by Electrical Enclosures, most recent edition.

Open Charge Point Protocol OCPP 1.6 or higher to allow charger control and monitoring by a third-party charge management system

NFPA 70E: Standard for Electrical Safety in the Workplace, most recent edition.

CFR 1910.147: Code of Federal Regulations, Occupational Safety and Health Standards, General Environmental Controls, The Control of Hazardous Energy (Lockout / Tagout), most recent edition.

Components:

Level II Electric Vehicle Charging (EVC) Unit

All components, interconnecting cabling and conduits between components, software, and accessories for a fully and properly operational device.

Capacities and Dimensions:

Output voltage range at the remote dispenser, nominal: 7.2 kW (240V AC @ 30A)

Required Service Panel Breaker: 40A dual pole (non-GFCI type)

Output power at the remote dispenser, maximum: 7.2 kilowatts (kW)

Input voltage at the EVC: 208/240 AC (VAC)

Input frequency at the DC power cabinet, nominal: 60 hertz (Hz)

Overall dimensions, DC power cabinet, nominal: 71.3” High x 13.7” Wide

Limited variability of sizes and configurations:

Note that EVCs are being located as ground mounted within an existing and operating public parking garage. While nominal EVC unit dimensions are provided around the EVC basis of design (BOD), alternative EVCs of different sizes, proportions and configurations will be considered provided:

No portion of the EVC or support stand can extend over the edge of the raised concrete curb into the parking stall

A Minimum of four (4) dual-port EVCs or eight (8) single-point EVCs are included to meet Alternate 1.

Manufacturers Reference:

Prime manufacturer:

Specifications are based on equipment identified herein by manufacturer's name and model to establish acceptable standards of quality, performance, features, and construction. It should be noted that the ChargePoint equipment is **not required** for a Proposal to be considered by the TPA but rather a Basis of Design (BOD) example of a Level 2 Electric Vehicle Charger (EVC) specification. The TPA will accept other EVC manufacturers provided the equipment submitted by the Proposer meets the minimum technical requirements of the BOD.

ChargePoint, Inc.
240 East Hacienda Avenue Campbell, CA 95008-6617 USA

+1.408.841.4500 or
+1.877.370.3802 US and Canada toll-free

chargepoint.com

EVC Model: 6-foot Single Port Bollard Networked Station with Concrete Mounting Kit CT4011-GW1

EVC Software and Services: Charge Point Commercial Service Plan CPCLD-COMMERCIAL-5

Inspection

Coordinate location of rough-in work and utility stub-outs to assure match and/or non-interference with equipment to be installed.

Inspect delivered equipment for damage from shipping and exposure to weather. Compare delivered equipment with packing lists and specifications to assure receipt of all items.

INSTALLATION

A Minimum of 4 (four) dual-port EVCs or eight (8) single-point EVCs are included to meet Alternate 1 requirements for projects at Merchant Street Lot, Liberty Commons Garage, Warren Street Garage, and Lafayette Garage. Each project should include pricing for one (1) dual-port EVC or two (2) single-point EVCs to meet Alternate 1 requirements.

Perform work under direct supervision of Foreman or Construction Superintendent with authority to coordinate installation of scheduled equipment with Design Team.

Coordinate work with Manufacturer's Representative indicated in Warranty of this specification section.

Install equipment in accordance with plans, shop drawings, and manufacturer's instructions:

Initial TPA mockup for positioning: At a parked EV charging position to be identified by TPA, provide installation mockup of EVC unit with actual charging cord, attached charge connector plug to allow for testing and proofing of charger operation and ergonomics.

Positioning: Place equipment in accordance with any noted special positioning requirements generally level, plumb and at right angles to adjacent work.

Fitting: Where field cutting or trimming is necessary, perform in a neat, accurate, professional manner without damaging equipment or adjacent work.

Anchorage: Attach equipment securely to floor, per manufacturer's instructions and as directed by Design Team, to prevent damage resulting from inadequate fastening. Installation fasteners shall be installed to avoid scratching or damaging adjacent surfaces. Upon completion of work, finish surfaces shall be free of tool marks, scratches, blemishes, and stains.

TESTING

After final connections are made and prior to authorizing payment, specified equipment shall be tested for compliance with specification in the presence of the Design Team using acceptance procedures provided by the manufacturer.

Final testing and post installation inspection are required and shall be performed by the manufacturer or the manufacturer's designated representative only. Final testing and inspection shall not be performed by the installer, unless the installer is also the manufacturer.

Manufacturer / Installer shall provide a testing procedure and checklist that indicates proper testing of all major functions of the equipment. This procedure and checklist will form the basis of the testing process.

CLEANUP

At the conclusion of every workday (scheduled or un-scheduled) the contractor is required to restore all work areas to "broom clean" condition.

Touch-up damage to painted finishes.

Wipe and clean equipment of any oil, grease, and solvents, and make ready for use.

Clean area around equipment installation and remove packing or installation debris from job site.

Notify Design Team for acceptance inspection.

TRAINING

Direct the technical representative to provide specified hours of training to designated TPA's maintenance personnel in operation and maintenance of the following equipment. Coordinate, with TPA, training schedule and list of personnel to be trained.

EVC equipment, software monitoring and management system and appurtenances.

Hours Required: 8

Software Subscription minimum requirements.

The EVC unit operating management and monitoring software must provide the following functionality:

TPA shall be enabled to set the price that drivers pay to use charging stations based on energy cost, duration, time of use, session length or driver group. Funds collected from drivers are electronically transferred to a designated bank account.

Advanced access controls to manage which drivers can access stations and when.

Must provide charts and analytics, to summarize trends for planning and management reporting.

Waitlist function to make charging more convenient by notifying drivers when a charging spot becomes available for them and holding it until they can plug in their vehicle.

Capability to integrate with fleet fuel cards, telematics and asset management systems simplifies.

A valet feature that automatically indicates (to TPA staff) when cars are completed with charging so they can be notified/charged.

A graphical dashboard showing real-time status and a detailed map, making it easy to manage stations from TPA desks or mobile phones.

APPENDIX F: FACILITIES DRAWINGS

1. LAFAYETTE GARAGE DRAWINGS
2. LIBERTY COMMONS GARAGE DRAWINGS
3. WARREN ST GARAGE DRAWINGS