



## Request for Proposal

The National Audubon Society (NAS), dba Audubon Arkansas, is soliciting proposals from a qualified contractor to design, fabricate, deliver, install, and maintain a grid-tied, net-metered solar photovoltaic system on the property of the Little Rock Audubon Center, 4500 Springer Blvd, Little Rock.

### Statement of Work / Design Build Guidance Criteria

NAS is interested in contractor proposals for a net-metered solar PV system designed to offset up to 100% of our energy usage and serve as an interactive educational display for visitors to the Little Rock Audubon Center. We will consider any variation or combination of roof mount, ground mount, and/or other build designs as appropriate for our needs.

NAS will consider all proposals submitted, in full compliance with the guidelines below, that are delivered to 4500 Springer Blvd., Little Rock, AR 72206 or submitted electronically to [gmoody@audubon.org](mailto:gmoody@audubon.org) on or before 5 pm local time on Monday, September 16<sup>th</sup>.

NAS will host a pre-bid conference on-site at 4500 Springer Blvd., Little Rock, AR 72206 at 2pm on August 22. Conference call dial-in available upon request.

### Net Metered Photovoltaic System

#### 1. PROJECT IDENTIFICATION

1.1. Project: Little Rock Audubon Center Solar Learning Lab

1.2. Location: 4500 Springer Blvd. Little Rock, AR 72206

#### 2. BACKGROUND

**2.1. Objective.** Contractor shall provide a total “turnkey” project including all necessary equipment, materials, design, manufacturing, and installation services for the installation of a grid tied, net metered, photovoltaic system that shall produce between 70% and 100% of the LRAC’s usage in kWh AC per year at the point of interconnection based on the most recent 24 months of usage. See billing history (Appendix C). The contractor should prepare a system summary detailing exact location, applicable equipment/size, and predicted system energy production (kWh). In relation to any building mounted system, the contractor shall evaluate roof conditions and may remove the existing roof system and replace it with either an integrated roof/PV system or a new roof with PV system installed. See roofing specification for these requirements. This project shall meet all requirements of this

Statement of Work and other specifications included that apply. Contractor shall also include the Conflict of Interest Questionnaire (Appendix B) with submitted proposal.

**2.2. Scope.** The contractor shall perform all professional services as necessary to provide NAS with a complete design package including the requirements outlined in this Statement of Work and a binding quote for construction and any included ongoing maintenance and operating costs, as well as applicable warranties. The contractor shall install the project such that it is operational and compliant with all applicable state and local standards, including, without limitation, building codes, Entergy interconnection requirements, fire codes, and Arkansas state requirements. The contractor shall include specifications, calculations, and drawings in the design package, which, when submitted, will be property of NAS. After approval by NAS of the final design package, the contractor shall provide all necessary construction to successfully complete the photovoltaic system installation. The contractor will also provide a proposal for ongoing maintenance, warranty service, and continuing requirements to ensure proper functioning of the system. The awarded contractor shall apply for and manage any available tax benefit monies and renewable energy certificates (RECs) paperwork.

**2.2.1. Design Guidelines for LRAC Solar Learning Lab**

Contractor shall develop a design for a new photovoltaic system at the LRAC campus. See attached drawings indicating available areas for installation and existing roof structure plans. These drawings are meant for informational purposes only and must be field verified by the contractor.

**If chosen, any rooftop mounting system shall:**

- Limit roof penetrations and shall be either building integrated roof PV or fully ballasted. Mounting system design needs to meet applicable local building code requirements with respect to snow, wind, and earthquake factors.
- Conduit penetrations shall be minimized.
- If system is not building-integrated or membrane sealed, system shall be fixed tilt with an orientation that maximizes annual energy production while ensuring structural soundness and cost-effectiveness.
- All roof access points shall be securely locked at the end of each day during construction.
- System layout shall meet all local fire department, code, and ordinance requirements for roof access and other requirements.

**For any ground mounted systems:**

- It is the responsibility of the contractor to assess site topography and geotechnical attributes to estimate costs related to project installation.
- Ground mounting system shall be either directly anchored into the ground (driven piers, concrete footers, etc.) or ballasted on the surface without ground penetration. Mounting system design needs to meet applicable local building code requirements with respect to snow, wind, and earthquake factors.
- Panels' orientation or azimuth shall be within 20-30 degrees of due south.
- Panels' tilt shall be based on site latitude and wind conditions, or attached to a tracking system.

- Restoration of ground cover and vegetation management shall be included in the proposal and should be pollinator friendly.
- Storm water management and erosion control management plan shall be included in the proposal.
- A recommendation for system security should be included in the proposal.
- All lines interconnecting PV arrays to point of interconnection shall be underground.
- The design should be aesthetically pleasing, functional, and convenient to service and grounds maintenance.
- The system should be designed to demonstrate preservation of bird, animal, and plant habitat.

### **Design Guidelines for Carport PV.**

- Attached drawings indicating available areas for carport installation. Not all locations need to be utilized.
- It is the responsibility of the contractor to assess site topography and geotechnical attributes to estimate costs related to Project installation.
- Carport PV shall be tilted at a minimum of 5 degrees to allow for drainage and reduce soil build-up.
- Any carport PV shall be at least 9 feet clear in all locations.
- Lighting shall be provided under each carport. This lighting shall be efficient (e.g., LED) and allow for adjustable times for illumination with photocell controls to turn the lights on at dusk and off in the morning prior to daylight.
- All lines interconnecting PV arrays to point of interconnection shall be underground.

**2.2.2. Financial Structure.** NAS strongly prefers that the Solar Learning Lab project be financed under the Solar Services Agreement language authorized in Arkansas Act 464 of 2019; however, other financial structures including leases and / or direct purchase will be considered, but should include a written justification for not utilizing an Act 464 structure.

**2.2.3. Performance Criteria.** The following performance criteria shall be met for all arrays:

- Power provided shall be either 208V, 480V or 13.8 kV three phase compatible with the onsite distribution system. See drawings for options for connection voltage and location.
- Proposal shall provide estimated energy delivery for each array, for each month of the year and total for the year at the delivered voltage (208V, 480V or 13.8 kV).
- The STC-rated power value will be entered into PVWatts (<http://pvwatts.nrel.gov/>) using the nearest weather file to determine estimated energy delivery in kWh AC. A default value for the system losses of 14% shall be used, unless otherwise warranted by the contractor.
- PV array shall mean one or more PV modules having that same orientation and on the same maximum power point tracking (MPPT) system. Every array with differing orientation shall have a separate MPPT system.
- All proposed/implemented PV array locations shall be shade free from 9AM until 6PM (solar time). Contractor shall provide documentation of shading

calculations for exterior extents for each proposed array. These calculations may be modified for shading obstructions that will be removed and mitigated as part of the project. Suggested documentation would include sun path diagrams for exterior array locations or SunEye measurements.

- All PV hardware components shall be either stainless steel or aluminum. PV structural components shall be corrosion resistant (galvanized steel, stainless steel, composites, or aluminum).
- The project, including supports and power conductors, shall not interfere with roof drains, water drainage, expansion joints, air intakes, existing electrical and mechanical equipment, existing antennas, conservation easements, and planned areas for future installation of equipment shown on drawings.

**2.2.4. Production Metering.** The project shall have:

- At least one production meter at POI.
- Production for the project should be able to be monitored in real time via a visual app that can be utilized for an indoor educational exhibit.

**2.2.5. Construction.** Perform all construction necessary for the successful installation of the system based upon the approved design generated from 2.2.1., 2.2.2., and 2.2.3.

### **2.3. Technical Requirements and Reference Materials**

**2.3.1. Code Compliance.** Installation and equipment shall comply with applicable building, mechanical, fire, seismic, structural and electrical codes. Only products that are listed, tested, identified, or labeled by UL, FM, ETL, or another Nationally Recognized Testing Laboratory shall be used as components in the project. Non-listed products are only permitted for use as project components when a comparable useable listed component does not exist. Non-listed products proposed for use as components must be identified as such in all submittals.

The contractor shall use project components that are or are made of materials that are recyclable, contain recycled materials, and that are EPA or Energy Star rated if they are available on the market.

The publications listed below form a part of this document and are hereby incorporated by reference:

- National Electrical Code (NEC)
- UL 1703 Flat – Plate PV Modules and Panels
- UL 1741 – Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Power Systems
- FM Approved – Fire Protection Tests for Solar Component Products
- IEC 62446 Grid Connected Photovoltaic Systems- Minimum Requirements for System Documentation, Commissioning Tests, and Inspections

Other technical codes that shall apply include:

- ASME PTC 50 (solar PV performance)

- ANSI Z21.83 (solar PV performance and safety)
- NFPA 853 (solar PV systems near buildings)
- IEEE 1547 (interconnections)
- ASCE/ SEI-7 – American Society of Civil Engineers – “Minimum Design Loads for Buildings and Other Structures”.
- NRCA – National Roofing Contractors Association

## **2.4. Roles and Responsibilities.**

**2.4.1. Contractor.** The contractor is required to provide:

- Design concepts
- Construction documents and engineering calculations that are signed and sealed by a licensed architect or engineer
- Submittals for materials and products
- Construction materials, equipment and labor
- Design and construction supervision / contract management
- Quality control plan (QCP)
- Safety plan
- Inspections and tests (per QCP)
- Manuals (design calculations, operation/maintenance, shop drawing, etc.)
- Commissioning of project
- Mentoring and training building operating staff for operation and maintenance
- Operation and Maintenance during a fixed period specified in the proposal and provide an optional service plan after that period.
- Web-based monitoring system for 25 years

**2.4.2. NAS will:**

- Review for approval design submittals and QCP
- Witness inspections and test witnesses to verify attainment of performance requirements
- Make progress payments for design / construction as agreed

## **3. PROPOSAL CONCEPT DRAWINGS AND SPECIFICATIONS SUBMISSIONS**

**3.2. Concept Drawings.** The contractor shall provide NAS with concept drawings with the proposal. The drawings must indicate the proposed location of the PV array(s) and access points along with a one-line electrical diagram showing inverters, transformers, meters, and interconnection locations. All drawings shall be submitted with dimensions shown in English units.

**3.3. Concept Information.** The proposal shall include major equipment information, proposed installation/interconnection information, applicable incentive information, and performance characteristics of the system. Identify an appropriate location for the solar PV inverter equipment and its related components and environmental control systems that will meet the following criteria:

- Ease of maintenance and monitoring
- Efficient operation
- Low operating losses
- Secured location and hardware

- Compatibility with existing facilities
- Avoidance of flood-prone areas
- Visual harmony

All products shall comply with the technical requirements shown under section 8, "Solar Electric Module Array". At a minimum, the proposed concept information shall include:

Equipment Information:

- System description
- Layout of installation
- Selection of key equipment and layout of equipment
- Performance of equipment components, and subsystems
- Specifications for equipment procurement and installation
- All engineering associated with structural and mounting details
- Controls, monitors, and instrumentation
- Operation and maintenance service plan

Installation Interconnection Information:

- Solar electric array orientation (degrees)
- Solar electric module tilt (degrees)
- Electrical grid interconnection requirements
- Integration of solar PV system with other power sources
- System type and mode of operation (utility interactive)

Performance Characteristics

- Shading calculation documentation
- Total system output
- Estimated kWh/month per array (shown over a 12 month period)
- Warranties and guarantees

Applicable Incentives

- Identify all applicable incentives

Interconnection Agreement

- Provide confirmation that the PV systems will be designed to comply with Entergy interconnection requirements.
- Contractor will be responsible for completing all necessary steps for interconnection.

Cost

- Total bid price of project, including:
- \$/KW
- \$/kWh

- Breakout line items for any: discounts, including charitable donations, additional services, interconnection costs, insurance, maintenance fee(s), mounting costs, pv module costs, design costs, labor, site preparation costs, and any other applicable categories above and beyond this list at contractors discretion.

#### 4. PROPOSAL EVALUATION

4.2. Evaluation. Proposals will be evaluated through a competitive proposal process and scored by a committee composed of board, staff, and an external consultant on a number of selection criteria. Selection criteria shall include, but not be limited to, the following:

- Cost
- Suitability
- Education purposes
- Risk mitigation
- Aesthetics
- Adherence to RFP guidelines

Any proposal may be rejected if it is late, conditional, incomplete, or deviates from the guidelines in the RFP. Contractor shall note and provide rationale for any deviation from RFP guidelines. NAS reserves the right to request additional information in support of the written proposal.

4.3. Selection. The selected proposal will be notified on or before October 1, 2019.

4.4. Commitment to Diversity. NAS promotes a diverse workplace and is an equal opportunity employer. It is the policy of NAS to contract with the best qualified person regardless of race, color, religion, age, sex, sexual orientation, national origin, disability or marital status.

#### 5. DESIGN SERVICES

Solar PV system shall be designed and engineered to maximize the solar energy resources, taking into consideration the customer's electrical demand and load patterns, proposed installation site, available solar resources, existing site conditions, proposed future site improvements, and other relevant factors.

Design Services for this project shall require a schematic design submission, a design development submission, a check set submission and a construction document submission. A final set of as-built drawings shall also be provided to NAS. These submissions shall be delivered to NAS based on the project schedule submitted and approved by NAS. The design package shall include the following details (4.1-4.6).

**5.2. Timeline/Project Schedule.** Contractor is required to provide an estimate on project timeline and schedule. System must be fully installed, interconnected and operational prior to July 1, 2020. Strong preference will be given to proposals that will substantially begin the project before December 31, 2019 to capture the full ITC.

**5.3. Post Award Conference.** Within 10 calendar days after receipt of the contract award. The meeting will be attended by NAS team members and the contractor's personnel. At

a minimum, the prime contractor's project manager, the primary designer, and a representative of any subcontractor performing over 25% of the work must attend. The meeting will be held at the project location. The purpose of the meeting will be to discuss the contractor's plan for completing the design and construction, including a construction schedule. A walk-through of the site will occur at the end of the meeting.

**5.4. Specifications.** A full set of specifications shall not be required for this project. However, specifications that express all information and demonstrate sufficient detail so as to direct the construction work outlined in this Statement of Work shall be required. The specifications package shall be coherent enough that any contractor not familiar with the project would be able to construct the project design. The specifications shall include all equipment information, proposed installation and interconnection information, and performance characteristics of the system.

**5.4.1.** All drawings, estimates, calculations, and specifications shall be in English units.

**5.4.2.** The contract shall take into account a construction plan producing a minimum disruption of day-to-day activities, utilities, services, etc.

## **5.5. Construction Drawings**

**5.5.1.** Provide drawings for each discipline required (architectural, structural, electrical, etc.), with separate plans for new work and demolition as well as special types of drawings where necessary, such as enlarged plans, equipment curbing and flashing details, roof penetration details etc. Drawings shall clearly distinguish between new and existing work.

**5.5.2.** Each drawing shall indicate project title, project number, array identification and location, A/E firm, A/E's address and/or phone number, contract number, drawing title, drawing type, drawing number, and key plan. A cover sheet shall be provided and shall include a list of the drawings, legend, vicinity map, and location map in addition to all items required for each drawing. Each A/E submission shall be clearly dated and labeled (e.g. 75% Design Development Submission, 100% Check Set Submission, Construction Document Submission, As-Built Drawings, etc.). Each drawing sheet submitted shall include a graphic scale in the lower right-hand portion of the sheet. The final set shall be stamped by a registered engineer and/or registered architect for the state in which the building/carport is located. At a minimum, the following drawings are required:

- Site plan including utility locations and connections – shall show staging and phasing requirements.
- Electrical plans – including single line diagram and utility interconnection.
- Electrical details.
- Roof plan and/or carport plan – showing the full layout of the system and detailing any obstacles that must be permanently or temporarily removed or relocated.
- Array support and mounting details.
- Any drawings that may be required to install a complete project.
- Water proofing details



**5.5.3.** The contract documents shall sufficiently define the Statement of Work and shall stand on their own.

**5.5.4.** Specifically address the means to keep the existing building accessible and operational by means of relocation and / or phasing.

**5.6. Calculations.** The contractor will provide the following calculations.

**5.6.1.** System Electrical Calculations. Provide with design development and again with 100% check set.

- PVWatts or equivalent calculation
- System energy production calculation showing estimated monthly and yearly energy output for each array
- Energy value and project cash flow

**5.7. Registration Seals.** Each final working drawing and each submitted specification and calculation document shall be signed by, bear the seal of, and show the state certificate number of the architect and/or engineer who prepared the document and / or is responsible for its preparation.

## **6. DESIGN SUBMISSIONS**

Awarded contractor will secure from governing agencies and the utility company all required rights, permits, approvals, and interconnection agreements at no additional cost to NAS. The awarded Contractor will complete and submit in a timely manner all documentation required to qualify for any available rebates and incentives.

**6.2. Design Reviews.** For each design / drawing submissions, NAS reserves the right to make comments and request changes after the receipt of the submission. Reviews will be made by NAS staff. As part of its review, NAS may offer submission reviews to local code officials. NAS shall provide review comments within fourteen (14) calendar days of receipt of the 75% Design Development Submission and the 100% Check Set Submission.

**6.3. Purpose.** NAS will review the contractor design submissions to verify adherence to contract requirements. Design reviews by NAS are not to be interpreted as resulting in an approval of the contractor's apparent progress toward meeting contract requirements but are intended to discover any information that can be brought to the contractor's attention that might prevent errors, misdirection, or rework later in the project. The contractor shall remain completely responsible for designing, constructing, operating and maintaining the project in accordance with the requirements of this Statement of Work.

**6.4. Resolution of Comments.** The contractor shall respond to all design review comments in writing, indicating one of the following: (1) adoption and action taken, (2) adoption with modifications and action taken, (3) alternative resolution and action taken, or (4) rejection. In cases other than unqualified adoption, the contractor shall provide a statement as to why the reviewer's comment is inappropriate. If the contractor believes

that any NAS design comments or requested changes will result in a change in the contract cost, they shall notify NAS within seven calendar days of receiving the comment(s) and provide a detailed cost estimate of anticipated contract modifications. Rejection items shall not go forward to the construction phase until adequate resolution to the rejected item has been approved by NAS. Design review comments shall not relieve the contractor from compliance with the terms and conditions of this contract. The contractor's comment resolution shall be transmitted to NAS within seven (7) calendar days of comment receipt and incorporate discussions from the scheduled design comment review meetings.

## **7. UTILITY INTERCONNECTION AGREEMENT**

- 7.2.** The contractor shall coordinate with Entergy to ensure that the project satisfies all Entergy criteria for interconnection of the project to the Entergy electric distribution system. This includes coordinating all negotiations, meeting with Entergy, design reviews, and participating in any needed interaction between Entergy and NAS.
- 7.3.** The contractor is responsible for preparing required submissions for obtaining the Net Energy Metering (NEM) and interconnection agreement from Entergy. NAS will sign the NEM and interconnection agreements, not the contractor.
- 7.4.** The contractor shall manage interconnection and startup of project in coordination with the Site and Entergy. The contractor shall at its own expense pay any interconnection, processing, and other fees and expenses as may be required by Entergy for interconnection and operation of the project.

## **8. Quality Control Plan**

- 8.2. Content.** For each performance and installation requirement, the QCP shall identify: item/system to be tested, exact test(s) to be performed, measured parameters, inspection/testing organization, and the stage of construction development when tests are to be performed. Each inspection/test shall be included in the overall construction schedule. The contractor is not relieved from required performance tests should these not be included in the plan.

The QCP is intended to document those inspections and tests necessary to assure NAS that product delivery, quality and performance are as required. It also serves as an inspection coordination tool between the contractor and NAS. An example of these inspections/tests is the final test/inspection for overall performance compliance of the system. Results from tests and inspections shall be submitted within 24 hours of performing the tests and inspections.

At a minimum, the QCP should conform to "IEC 62446 Grid Connected Photovoltaic Systems - Minimum Requirements for System Documentation, Commissioning Tests, and Inspections (2009)".

Performance tests will be conducted at the final commissioning/acceptance testing, and one year after the acceptance date. Performance tests will include I-V curve traces for all PV strings. For project acceptance, measured performance at maximum power point must be at least 90% of expected performance, which will be adjusted for concurrently measured cell temperature and plane of array (POA) irradiance. This can be

accomplished using a current industry standard I-V curve tracer with capability to compare measured PV string I-V curves with nameplate performance of PV string compensated for concurrent cell temperature and POA irradiance measurements. If performance is less than 90% at the one year performance tests (measured using the same method as for project acceptance), contractor shall promptly troubleshoot and correct any malfunction or issues as necessary to return project to 90% measured performance or better. The contractor shall supply NAS with detailed documentation of malfunction or errors and all corrective actions taken.

**8.3. Submissions.** The QCP shall be prepared and submitted within 21 calendar days of the post award conference meeting and prior to any construction on-site. The QCP may be rejected as incomplete and returned for resubmission if there is any performance, condition or operating test that is not covered therein.

**8.4. Updating.** During construction, the contractor shall update QCP if any changes are necessary due to any changes or schedule constraints. NAS shall be notified immediately of any schedule and/or procedural changes.

## **9. SOLAR ELECTRIC MODULE ARRAY**

### **9.2. Photovoltaic Modules**

**9.2.1.** PV modules shall be a commercial off-the-shelf product, shall be UL listed, and shall be on the California Senate Bill 1 (SB1) List of Eligible SB1 Guidelines Compliant Photovoltaic Modules to be eligible for Construction Specifications Institute (CSI), and shall be properly installed according to manufacturer's instructions, NEC, and as specified herein.

**9.2.2.** The PV modules shall be installed such that the maximum amount of sunlight available year-round on a daily basis should not be obstructed. At a minimum, all PV arrays shall be shade free from 9 a.m. until 3 p.m. (solar time). All projects must include documentation of the impact from any obstruction on the seasonal or annual performance of the solar electric array.

**9.2.3.** The solar electric system shall produce the minimum annual AC energy output. If the system is proposed to produce more than the minimum required energy output to reduce the cost per delivered kWh then the system shall produce the "proposed" energy. The output will be adjusted if the actual yearly solar insolation received is less than that indicated by PVWatts. A normalizing calculation will be made to correct the output, so a contractor is not penalized for an extremely cloudy year.

**9.2.4.** System wiring shall be installed in accordance with the provisions of the NEC.

**9.2.5.** All modules installed in a series string shall be installed in the same plane/orientation.

**9.2.6.** PV modules shall have a 25-year limited warranty that modules will generate no less than 80% of rated output under STC. PV modules that do not satisfy this warranty condition shall be replaced.

**9.2.7.** Panel installation design shall allow for the best ventilation possible of panels to avoid adverse performance impacts.

**9.2.8.** Provide NAS with 1% extra PV panels.

**9.2.9.** Warranty. Provide a panel manufacturer's warranty as a minimum: No module will generate less than 90% of its specified minimum power when purchased. PV modules shall have a 25-year limited warranty guarantying a minimum performance of at least 80% of the original power for at least twenty-five (25) years. Measurement made under actual installation and temperature will be normalized to standard test conditions using the temperature and coefficients published in the module specifications.

### **9.3. Inverter and Controls**

**9.3.1.** Each inverter and associated controls shall be properly installed according to manufacturer's instructions.

**9.3.2.** Inverters shall be commercial off-the-shelf product, listed to UL 1741 and IEEE 1547. The inverter shall have at a minimum the following features:

- UL/ETL listed
- Peak efficiency of 96% or higher
- Inverter shall have operational indicators of performance and have built-in data acquisition and remote monitoring.
- The inverter shall be capable of parallel operation with the existing AC power. Each inverter shall automatically synchronize its output waveform with that of the utility upon restoration of utility power.

**9.3.3.** Warning labels shall be posted on the control panels and junction boxes indicating that the circuits are energized by an alternate power source independent of utility-provided power.

**9.3.4.** Operating instructions shall be posted on or near the system, and on file with facilities operation and maintenance documents.

**9.3.5.** Provide detailed lock out /tag out instructions for all equipment.

**9.3.6.** Power provided shall be compatible with onsite electric distribution systems.

- Install inverters and control panels in most optimum locations with appropriate environmental protection. Roofs may be used if structurally sufficient. If inverters are mounted outside they shall be shaded from direct sun from 10 a.m. to 6 p.m. in the months of June to August and be able to be secured.

**9.3.7.** The inverter and system shall utilize an astronomical timer or other means to shut down the inverter during night time to avoid energy usage at night.

**9.3.8.** Warranty. A 10-year manufacturers' warranty shall be provided.

### **9.4. Control Panel to Solar Electric Array Wire Runs**

- 9.4.1. Areas where wiring passes through ceilings, walls or other areas of the building shall be properly restored, booted, sealed and returned to their original condition.
- 9.4.2. All wiring between carports and the point of interconnection shall be underground and meet applicable codes.
- 9.4.3. Thermal insulation in areas where wiring is installed shall be replaced to “as found or better condition.” Access doors to these areas shall be properly sealed and gasketed.
- 9.4.4. All field electrical devices shall have the capability to be locked as appropriate.

## **9.5. PV Monitoring**

- 9.5.1. The PV systems installed shall provide for monitoring by NAS as well as by the general public on a vendor provided website. The public site is intended for education and outreach regarding renewable energy production and information on avoided greenhouse gas production. The public site shall be maintained for ten years. The contractor is encouraged to consult with an educational specialist regarding design, accessibility, maintenance, and information resources for the project.
- 9.5.2. Monitor by an IP addressable device and displayed graphically in a user-friendly manner the following parameters:
  - AC energy
  - Solar irradiance
  - Show status of all equipment
  - Provide electrical one line showing operation and performance of all equipment

Data shall be available both in real time and in archived in 15-minute averages. All monitoring hardware and monitoring equipment shall be provided by the contractor.

System shall also include metering for remote data collection and display on vendor-provided web site of system performance. System performance shall allow display during different monitoring periods from one hour to one year.

- 9.5.3. Provide networking equipment, engineering, programming, wiring, and software to allow remote connection by NAS to the local area network.
- 9.5.4. Meters utilized for the project shall be listed on CEC List of Eligible System Performance Meters per SB1 Guidelines, shall be UL listed, and shall comply with UTILITY net energy metering requirements.
- 9.5.5. Meters shall be installed in the main distribution panel (MDP) when possible. Meters shall not be mounted to the transformer housing without prior approval when there is no other reasonable place to mount it.

## **9.6. Transformers**

- 9.6.1.** Stand-alone boost up transformers not incorporated into the inverters shall be National Electrical Manufacturers Association (NEMA) premium efficiency. Exterior transformers shall be housed in a NEMA 3R enclosure and be pad mounted. They shall be located next to switchgear housings where indicated on drawings.

## **9.7. Structural Requirements**

- 9.7.1.** All structures, including array structures, shall be designed in accordance with all applicable state and local codes and standards.
- 9.7.2.** The contractor shall provide structural calculations, stamped by a licensed professional structural engineer in the appropriate state.
- 9.7.3.** All structural components shall be non-corrosive (galvanized steel, stainless steel or aluminum). All hardware shall be stainless steel or aluminum. All components shall be designed to obtain a minimum 40 year design life.
- 9.7.4.** [Include for roof mounted systems] All roof penetrations shall be designed and constructed in collaboration with the roofing professional or manufacturer responsible for the roof and roofing material warranty for the specific site. The number and size of the penetrations necessary to extend the power and control cable into the building must be kept to a minimum and grouped in a single location when practicable. All roof installations and weather proofing of penetrations shall not compromise the roof warranty, or if roof has no warranty, accepted best practice. The roof penetrations and roof connections shall be warranted for weather tightness for ten (10) years from the installer including parts and labor.
- 9.7.5.** [Include for roof mounted system] Rooftop installations where there is no parapet or the parapet is less than 42", a 6' safety zone from the roof edge to the PV system shall be maintained. A 3' clear path of travel shall be maintained to and around all rooftop equipment. Design shall address access for maintenance and replacement of the equipment. Appropriate fall protection or temporary platforms shall be incorporated into the design to allow for this maintenance and replacement work. If the inverters are mounted on the roof this equipment shall have permanent access walkways installed to facilitate monitoring and maintenance.

## **9.8. Attachment to Roof**

- 9.8.1.** The system shall be mounted using the best means practicable, such as direct attachment or a fully ballasted system. All penetrations and structural connections associated with supports and conduit shall be kept to a minimum and shall be water-proof.

## **9.9. Lightning Protection.** Provide surge protection on all electrical systems.

- 9.10. PV System Installation Warranty.** The PV systems shall carry a ten (10) year workmanship warranty by both the manufacturer and the installer including parts and labor.

## 10. QUALIFICATIONS FOR INCENTIVES

- 10.2.** Incentives and Benefits: Contractor shall determine and select all incentives and benefits available to the project, except that it shall select from among any mutually exclusive incentives for which the project might qualify in a way reasonably expected to maximize net present value to NAS of all incentives and benefits, RECs, energy cost savings that might be realized in relation to the project.

Contractor shall make application and pay all deposits and fees for the selected incentives and ensure that NAS receives all benefits of incentives to the extent reasonably within Contractor's control.

Project shall be designed and constructed to comply with requirements of all other benefits programs for which it might qualify such as accreditation for RECs, green tags, and tradable renewable energy certificates (TRECs). Certification shall be accomplished through Green-e ([http://www.green-e.org/getcert\\_re.shtml](http://www.green-e.org/getcert_re.shtml)) and overseen through the Western Renewable Energy Generation Information System (WREGIS) (<http://www.wregis.org/>).

Contractor shall complete all paperwork and application processes associated with Green-e certification on behalf of NAS, and shall, if NAS does not yet have an account with WREGIS, complete all application processes to establish an account for NAS with WREGIS, and, after the account has been established, register the project in the account with WREGIS such that NAS will receive RECs for the operation of the project. Contractor shall, at its expense, pay all deposits and fees for completing the applications and certifications with Green-e and WREGIS.

## 11. SHOP DRAWINGS/PRODUCT DATA

- 11.2. Submissions.** The Contractor shall submit shop drawings and product data / submittals, catalog cuts, etc. as stipulated herein. Shop drawing/product data submissions to NAS shall be made after review and approval by the contractor. All approved product data and shop drawings shall be delivered to NAS in one submission electronically.

The contractor shall combine all product data submission material into hard copy manuals for reference during all phases of construction. Shop drawings shall be bound with product data.

See also Electronic Project Management requirements in Section 1, General Requirements. .

- 11.3. Reviews.** Reviews of shop drawings and product data by NAS are not to be interpreted as an approval of the Contractor's product selections. The contractor shall remain completely responsible for constructing the PV system in accordance with all contract performance requirements.
- 11.4. Products for Submission.** The contractor shall provide shop drawings and product data for all systems, equipment and materials.

## 12. INSPECTIONS AND TESTS

- 12.2. General.** The contractor shall perform inspections and tests throughout the construction process including: existing conditions/needs assessments, construction installation placement/qualification measurements and final inspections/tests performance certification. Periodic “quality” inspections shall also be conducted to support progress payments as identified in the contractor’s QCP.
- 12.3. NAS Witness.** All inspections and tests, to verify documented contract assumptions, to establish work accomplishment, or to certify performance attainment shall be witnessed by NAS and/or construction management (CM) and coordinated through the QCP.
- 12.4. Final Inspections and Tests.** In order to ensure compliance with the provisions of the NEC, an inspection by a licensed electrical inspector is mandatory after construction is complete. Unless otherwise identified, manufacturer recommendations shall be followed for all inspection and test procedures. The NEC inspection shall be conducted by an independent third party electrical inspector familiar with PV systems. Provide qualifications of the proposed third party inspector for review and approval prior to conducting the NEC inspections.

Tests shall include a commissioning of the array. Commissioning shall be performed for the entire PV system. This data shall be used to confirm proper performance of the PV system.

- 12.5. Documentation.** Inspections/tests required in the QCP shall result in a written record of data/observations. The Contractor shall provide two (2) copies of documents containing all test reports/findings. Test results shall typically include: item/system tested, location, date of test, test parameters/measured data, state of construction completion, operating mode, contractor inspector/NAS witness, test equipment description and measurement technique.

## 13. Project Closeout

- 13.2. Preparation for Final Inspection and Tests.** The following steps shall be taken to assure the project is in a condition to receive inspections and tests.

Finalize record drawings and manuals, indicating all “as-built” conditions.

- 13.3. Record Drawings.** The contractor shall maintain on site the working record drawings of all changes/deviations from the original design. Notations on record drawings shall be made in erasable red pencil or other color to correspond to different changes or categories of work. Marked-up drawings shall always be maintained at the contractor’s on site construction office, available for NAS and/or CM to review. Record drawings shall note related change order designations on impacted work. When shop drawings indicate significant variations over design drawings, shop drawings may be incorporated as part of record drawings. Review of record drawings may be required before monthly payments can be processed.



**13.4. As-Built Drawings and Specifications.** The Contractor shall provide "as-built drawings" and documents based upon actual site installation. Should NAS determine that variations exist between finished construction and the as-built drawings, the contractor shall correct drawings to the satisfaction of NAS.

The contractor shall submit six (6) hard copies and two (2) CDs containing the "as-built" drawings and specifications as CAD and PDF files.

**13.5. Warranties and Guarantees.** Submit specific warranties and guarantees, final certifications and similar documents to NAS upon substantial completion and prior to final payment. Include copies with operations and maintenance manual. All warranties shall be signed by a principal of the contractor's firm and sealed if a corporation.

**13.6. Maintenance Manual.** Provide a detailed operation and maintenance manual, including diagram of system components, description of normal operation; description of operational indicators and normal status of each, table of modes of operation, safety considerations, preventative maintenance requirements, troubleshooting and corrective actions; sources of spare parts and cut-sheets for all components. The contractor shall prepare six (6) hardcopies and two (2) CDs containing the detailed Maintenance Manual. Submit to NAS.

**13.7. Spare Parts.** The contractor shall provide a recommended list of spare parts. At the minimum a set of combiner box fuses for each array shall be provided along with the required spare panels noted in Section 8.

**13.8. Demonstration and Training.** Provide NAS approved training for designated personnel in the operation of the entire photovoltaic energy system, including operation and maintenance of inverter(s), transfer switches, panel board, disconnects and other features as requested by NAS. Instruct the designated NAS personnel in removal and installation of panels, including wiring and all connections. Provide NAS with written instructions and procedures for shut-down and start-up activities for all components of the system. NAS shall be permitted to video tape this training for official use.

#### **14. Operations and Maintenance Service.**

**14.2.** Provide operation and maintenance of the solar array systems for one year. Work shall include all manufacturer recommended maintenance as well as a 12 month performance commissioning as outlined in section 7.1 (QCP). NAS shall be invited to witness all performance commissioning. A maintenance log shall be maintained to note dates, equipment and issues being resolved. Contractor should be available within 48 hours to respond to natural disasters (extreme storm, hail, wind events) to inspect array for damage.

## Appendix A - List of Abbreviations and Acronyms



AC	alternate current
A/E	architects/engineers
ANSI	American National Standards Institute
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
CDs	compact disks
CM	construction management
CSI	Construction Specifications Institute
DC	direct current
EPA	Environmental Protection Agency
ETL	ETL Testing Laboratories
FM	Factory Manual
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
KWh	kilowatt-hour
KW	kilowatt
KV	Kilovolts
LED	light emitting diode
LRAC	Little Rock Audubon Center
MDP	main distribution panel
MPPT	maximum power point tracking
NAS	National Audubon Society
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NRCA	National Roofing Contractors Association
POA	plane of array
POI	point of interconnection
PV	photovoltaic

QCP	Quality Control Plan
RECs	renewable energy certificates
ACT 464	Arkansas Act 464 of 2019
STC	standard test conditions
TRECs	tradable renewable energy certificates
UL	Underwriters Laboratories
V	volts

## Appendix B- Property Map

RFP Area

**Legend**

-  4500 Springer Blvd
-  RFP Area



4500 Springer Blvd



## Appendix B- Conflict of Interest Questionnaire

# Conflict of Interest Questionnaire

\_\_\_\_\_  
Title of Solicitation/Contract

Please complete and include this questionnaire with your final bid submittal. Not all conflicts of interest are necessarily prohibited or harmful to Audubon. However, advanced full disclosure of actual or potential conflicts are required.

When responding to the questions below, please answer about your relationship with the following organizations:

National Audubon Society, Inc.  
\_\_\_\_\_  
\_\_\_\_\_

- |  | Yes                      | No                       |
|--|--------------------------|--------------------------|
| 1. Do you* have a personal, familial or business relationship with any of the above-referenced organizations?              | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Do you currently or have you served on any boards of these organizations?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Have gratuities, favors, or anything of monetary value been offered to you or accepted by you from these organizations? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Have you been employed by any of these organizations?   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Have you made financial contributions to any of these organizations?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Do you plan to seek or accept future employment with any of these organizations?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Are there any other conditions that may cause a conflict of interest or the appearance of a conflict?                   | <input type="checkbox"/> | <input type="checkbox"/> |

If you answered "yes" to any of the above questions, please provide further information below.

I certify that I have answered the above questions truthfully and to the best of my knowledge.

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\*When responding to this questionnaire, please consider relationships that while not necessarily related as family, are nonetheless similar to family relationships and would give rise to a potential conflict of interest. Examples of such family-type relationships would include live-in friendships, unmarried domestic partners, dating relationships, etc.

## Appendix D- Billing History





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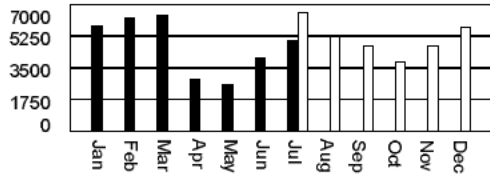
**Service Location**  
4500 Springer Blvd  
Little Rock, AR 72206-3651

**Business Solutions Center**  
877-ETRBIZZ (877-387-2499); 8a-5p, Mon-Fri  
**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019	2018
Jul 2019	27	5040	186.7	<input type="checkbox"/>	<input type="checkbox"/>
Jul 2018	32	6560	205.0		



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

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Get account info on your cell phone. Text **INFO** to **368374** for a menu of options.

**Account Detail**

Previous Balance	453.52
Payment Received (07/12/2019)	-453.52
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	53.16
Energy Charge	280.22
Formula Rate Plan	\$322.55 @ 13.9199% 44.90
Tax Cuts & Jobs Act Credit	\$322.55 @ -1.17% -3.77
Internal Restructuring Credit	\$322.55 @ -0.5273% -1.70
Fuel & Purchased Power Cost	5040 kWh @ \$0.01462 73.68
FERC-Imposed Payment	5040 kWh @ \$-0.00019 -0.96
Municipal Franchise Adjustment	\$469.78 @ 0.052 24.43
<b>Total Metered Charges (Contract 9780644 )</b>	<b>\$494.21</b>
Ice Storm Recovery Charge	4.44
City Sales Tax	7.48
County Sales Tax	4.99
State Sales Tax	32.41

**Current Month Energy Charges \$543.53**

**Meter Reading (Contract 9780644 )**

Meter # 3261859	Rate : AR_SG1
Total Days ( 27 )	
Current Meter Reading (07/13/2019 09:59 AM)	6457
Previous Meter Reading (06/16/2019 11:23 AM)	- 6394
Difference	63
Multiplier	x 80
<b>kWh Metered</b>	<b>5040</b>
Demand Metered kW	0.22
Multiplier	x 80
<b>kW Metered</b>	<b>18.00</b>

Account 85888766      QPC 05000      Invoice # 465003464664

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 08/13/2019</b>	<b>\$543.53</b>
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Bill to be Drafted. DO NOT PAY.

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4500 SPRINGER BLVD  
LITTLE ROCK AR 72206

ENTERGY  
PO BOX 8101  
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**Service Location**  
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Little Rock, AR 72206-3651

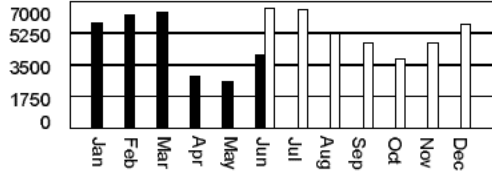
**Business Solutions Center**  
877-ETRBIZZ (877-387-2499); 8a-5p, Mon-Fri  
**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

*Internet*

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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019 2018
Jun 2019	32	4080	127.5	<input type="checkbox"/>
Jun 2018	30	6640	221.3	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

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**Account Summary for Audubon Arkansas**

Account # 85888766	Mail Date 06/20/2019	QPC 05000
Invoice # 410002327433	06/20/2019	Cycle 14
<b>Amount to be drafted 07/12/2019</b>		<b>\$453.52</b>

**Account Detail**

Previous Balance	351.43
Payment Received (06/12/2019)	-351.43
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	44.30
Energy Charge	230.42
Formula Rate Plan	\$270.57 @ 13.9199% 37.66
Tax Cuts & Jobs Act Credit	\$270.57 @ -1.17% -3.17
Internal Restructuring Credit	\$270.57 @ -0.5273% -1.43
Fuel & Purchased Power Cost	4080 kWh @ \$0.01462 59.65
FERC-Imposed Payment	4080 kWh @ \$0.00013 0.53
Municipal Franchise Adjustment	\$392.21 @ 0.052 20.39
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$412.60</b>
Ice Storm Recovery Charge	3.47
City Sales Tax	6.24
County Sales Tax	4.16
State Sales Tax	27.05
<b>Current Month Energy Charges</b>	<b>\$453.52</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 32 )	
Current Meter Reading (06/16/2019)	6394
Previous Meter Reading (05/15/2019)	- 6343
Difference	51
Multiplier	x 80
<b>kWh Metered</b>	<b>4080</b>
Demand Metered kW	0.20
Multiplier	x 80
<b>kW Metered</b>	<b>16.00</b>



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Account 85888766 QPC 05000 Invoice # 410002327433

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 07/12/2019</b>	<b>\$453.52</b>
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Bill to be Drafted. DO NOT PAY.

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Page 1 of 2

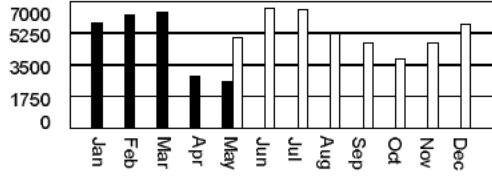
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Power Outage or Safety Concern, 24 hrs/7days  
800-968-8243 (800-9OUTAGE)

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### Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019 2018
May 2019	31	2560	82.6	<input type="checkbox"/>
May 2018	31	5040	162.6	<input type="checkbox"/>



### Important Messages

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

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### Account Summary for Audubon Arkansas

Account # 85888766	Mail Date 05/21/2019	QPC 05000
Invoice # 120004466166		Cycle 14

Amount to be drafted 06/12/2019	<b>\$351.43</b>
---------------------------------	-----------------

### Account Detail

Previous Balance	343.38
Payment Received (05/14/2019)	-343.38
<b>Remaining Balance</b>	<b>\$0.00</b>

### Current Charges

Customer Charge	24.25
Demand Charge	53.16
Energy Charge	162.13
Formula Rate Plan	\$221.72 @ 13.9199% 30.86
Tax Cuts & Jobs Act Credit	\$221.72 @ -1.17% -2.59
Internal Restructuring Credit	\$221.72 @ -0.5273% -1.17
Fuel & Purchased Power Cost	2560 kWh @ \$0.01462 37.43
FERC-Imposed Payment	2560 kWh @ \$0.00013 0.33
Municipal Franchise Adjustment	\$304.40 @ 0.052 15.83
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$320.23</b>
Ice Storm Recovery Charge	2.18
City Sales Tax	4.84
County Sales Tax	3.22
State Sales Tax	20.96
<b>Current Month Energy Charges</b>	<b>\$351.43</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	Amount to be drafted 06/12/2019	<b>\$351.43</b>
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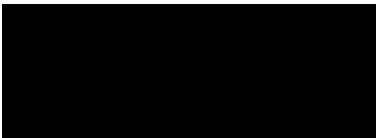
Bill to be Drafted. DO NOT PAY.

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*Internet*

<b>Meter Reading (Contract 9780644 )</b>		
Meter # 3261859	Rate : AR_SG1	
Total Days ( 31 )		
Current Meter Reading	(05/15/2019)	6343
Previous Meter Reading	(04/14/2019)	- 6311
Difference		32
Multiplier		x 80
<b>kWh Metered</b>		<b>2560</b>
Demand Metered kW		0.23
Multiplier		x 80
<b>kW Metered</b>		<b>18.00</b>



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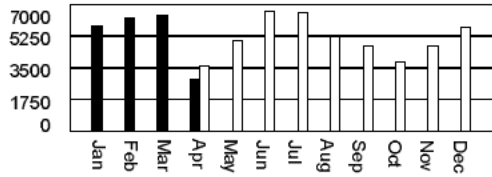
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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019	2018
Apr 2019	27	2880	106.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Apr 2018	27	3600	133.3	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

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**Account Detail**

Previous Balance	716.47
Payment Received (04/15/2019)	-716.47
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	35.44
Energy Charge	169.41
Formula Rate Plan	\$209.05 @ 13.9199% 29.10
Tax Cuts & Jobs Act Credit	\$209.05 @ -1.17% -2.45
Internal Restructuring Credit	\$209.05 @ -0.5273% -1.10
Fuel & Purchased Power Cost	2880 kWh @ \$0.01462 42.11
FERC-Imposed Payment	2880 kWh @ \$0.00013 0.37
Municipal Franchise Adjustment	\$297.13 @ 0.052 15.45
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$312.58</b>
Ice Storm Recovery Charge	2.45
City Sales Tax	4.73
County Sales Tax	3.15
State Sales Tax	20.47
<b>Current Month Energy Charges</b>	<b>\$343.38</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 05/14/2019</b>	<b>\$343.38</b>
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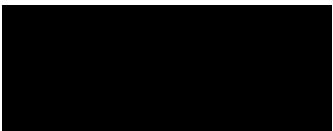
Bill to be Drafted. DO NOT PAY.

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*Internet*

<b>Meter Reading (Contract 9780644 )</b>		
Meter # 3261859	Rate : AR_SG1	
Total Days ( 27 )		
Current Meter Reading	(04/14/2019)	6311
Previous Meter Reading	(03/18/2019)	- 6275
Difference		36
Multiplier		x 80
<b>kWh Metered</b>		<b>2880</b>
Demand Metered kW		0.18
Multiplier		x 80
<b>kW Metered</b>		<b>14.00</b>



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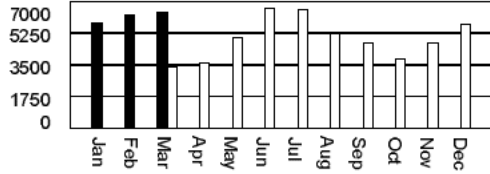
**Business Solutions Center**  
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**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019	2018
Mar 2019	32	6400	200.0	<input type="checkbox"/>	<input type="checkbox"/>
Mar 2018	33	3360	101.8		



**Important Messages**

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**Account Detail**

Previous Balance	703.37
Payment Received (03/14/2019)	-703.37
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25	
Demand Charge	70.88	
Energy Charge	353.82	
Formula Rate Plan	\$404.28 @ 13.9199%	56.28
Tax Cuts & Jobs Act Credit	\$404.28 @ -1.17%	-4.73
Internal Restructuring Credit	\$404.28 @ -0.5273%	-2.13
Fuel & Purchased Power Cost	6400 kWh @ \$0.01882	120.45
FERC-Imposed Payment	6400 kWh @ \$0.00013	0.83
Municipal Franchise Adjustment	\$619.65 @ 0.052	32.22
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$651.87</b>	
Ice Storm Recovery Charge	5.44	
City Sales Tax	9.86	
County Sales Tax	6.57	
State Sales Tax	42.73	
<b>Current Month Energy Charges</b>	<b>\$716.47</b>	

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 32 )	
Current Meter Reading (03/18/2019)	6275
Previous Meter Reading (02/14/2019)	- 6195
Difference	80
Multiplier	x 80
<b>kWh Metered</b>	<b>6400</b>
Demand Metered kW	0.28
Multiplier	x 80
<b>kW Metered</b>	<b>22.00</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 04/15/2019</b>	<b>\$716.47</b>
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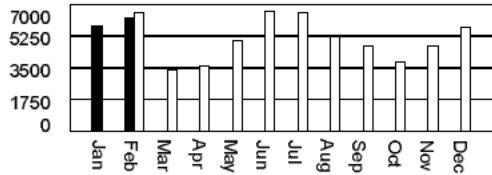
Service Location  
4500 Springer Blvd  
Little Rock, AR 72206-3651

Business Solutions Center  
877-ETRBIZZ (877-387-2499); 8a-5p, Mon-Fri  
Power Outage or Safety Concern, 24 hrs/7days  
800-968-8243 (800-9OUTAGE)

Internet

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019	2018
Feb 2019	30	6240	208.0	<input type="checkbox"/>	<input type="checkbox"/>
Feb 2018	31	6560	211.6		



**Important Messages**

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**IMPORTANT NOTICE:** Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

Get account info on your cell phone. Text **INFO** to **368374** for a menu of options.

**Account Detail**

Previous Balance	673.65
Payment Received (02/13/2019)	-673.65
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25	
Demand Charge	70.88	
Energy Charge	346.35	
Formula Rate Plan	\$397.93 @ 13.9199%	55.39
Tax Cuts & Jobs Act Credit	\$397.93 @ -1.17%	-4.66
Internal Restructuring Credit	\$397.93 @ -0.5273%	-2.10
Fuel & Purchased Power Cost	6240 kWh @ \$0.01882	117.44
FERC-Imposed Payment	6240 kWh @ \$0.00013	0.81
Municipal Franchise Adjustment	\$608.36 @ 0.052	31.63
<b>Total Metered Charges (Contract 9780644 )</b>		<b>\$639.99</b>

Ice Storm Recovery Charge	5.30
City Sales Tax	9.68
County Sales Tax	6.45
State Sales Tax	41.95
<b>Current Month Energy Charges</b>	<b>\$703.37</b>

**Meter Reading (Contract 9780644 )**

Meter # 3261859	Rate : AR_SG1
Total Days ( 30 )	
Current Meter Reading (02/14/2019)	6195
Previous Meter Reading (01/15/2019)	- 6117
Difference	78
Multiplier	x 80
<b>kWh Metered</b>	<b>6240</b>
Demand Metered kW	0.28
Multiplier	x 80
<b>kW Metered</b>	<b>22.00</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 03/14/2019</b>	<b>\$703.37</b>
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Bill to be Drafted. DO NOT PAY.

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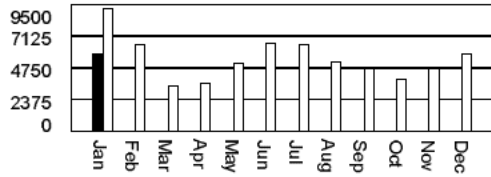
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Page 1 of 2  
*Internet*

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800-968-8243 (800-9OUTAGE)

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2019	2018
Jan 2019	32	5840	182.5	<input type="checkbox"/>	<input type="checkbox"/>
Jan 2018	33	9200	278.8		



**Important Messages**

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Get account info on your cell phone. Text **INFO** to **368374** for a menu of options.

**Account Detail**

Previous Balance		481.52
Payment Received	(01/10/2019)	-481.52
Interest On Deposit	0.30 %	-5.93
<b>Remaining Balance</b>		<b>-\$5.93</b>

**Current Charges**

Customer Charge		24.25
Demand Charge		75.31
Energy Charge		330.17
Formula Rate Plan	\$388.97 @ 13.9199%	54.14
Tax Cuts & Jobs Act Credit	\$388.97 @ -1.17%	-4.55
Internal Restructuring Credit	\$388.97 @ -0.5273%	-2.05
Fuel & Purchased Power Cost	5840 kWh @ \$0.01882	109.91
FERC-Imposed Payment	5840 kWh @ \$0.00013	0.76
Municipal Franchise Adjustment	\$587.94 @ 0.052	30.57

**Total Metered Charges (Contract 9780644 ) \$618.51**

Ice Storm Recovery Charge	4.96
City Sales Tax	9.35
County Sales Tax	6.23
State Sales Tax	40.53

**Current Month Energy Charges \$679.58**

**Total Amount Due \$673.65**

**Meter Reading (Contract 9780644 )**

Meter # 3261859	Rate : AR_SG1
Total Days ( 32 )	
Current Meter Reading	(01/15/2019) 6117
Previous Meter Reading	(12/14/2018) - 6044
Difference	73



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Customer Service 877-ETRBIZZ (877-387-2499)	Amount to be drafted 02/13/2019	\$673.65
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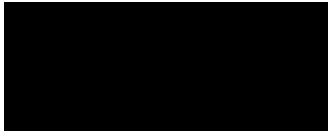
Bill to be Drafted. DO NOT PAY.

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*Internet*

Multiplier	x 80
<b>kWh Metered</b>	<b>5840</b>
Demand Metered kW	0.29
Multiplier	x 80
<b>kW Metered</b>	<b>23.00</b>



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**Service Location**  
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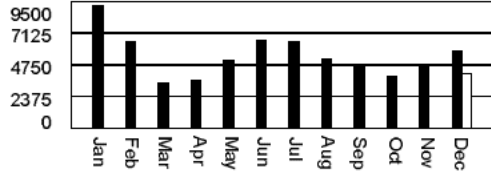
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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Dec 2018	30	5760	192.0	<input type="checkbox"/>	<input type="checkbox"/>
Dec 2017	29	4080	140.7		



**Important Messages**

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Get account info on your cell phone. Text **INFO** to **368374** for a menu of options.

**Account Detail**

Previous Balance	381.84
Payment Received (12/11/2018)	-381.84
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	106.32
Energy Charge	347.10
Formula Rate Plan	\$434.29 @ 9.3096% 40.43
Tax Cuts & Jobs Act Credit	\$434.29 @ -48.85% -212.15
Fuel & Purchased Power Cost	5760 kWh @ \$0.01882 108.40
FERC-Imposed Payment	5760 kWh @ \$0.00013 0.75
Municipal Franchise Adjustment	\$415.10 @ 0.052 21.59
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$436.69</b>
Ice Storm Recovery Charge	5.07
City Sales Tax	6.63
County Sales Tax	4.42
State Sales Tax	28.71
<b>Current Month Energy Charges</b>	<b>\$481.52</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 30 )	
Current Meter Reading (12/14/2018)	6044
Previous Meter Reading (11/14/2018)	- 5972
Difference	72
Multiplier	x 80
<b>kWh Metered</b>	<b>5760</b>
Demand Metered kW	0.37
Multiplier	x 80
<b>kW Metered</b>	<b>30.00</b>



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<b>Customer Service</b> 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 01/10/2019</b>	<b>\$481.52</b>
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Bill to be Drafted. DO NOT PAY.

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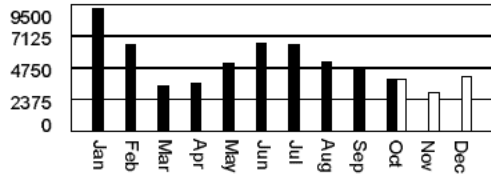
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Power Outage or Safety Concern, 24 hrs/7days  
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*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Oct 2018	30	3840	128.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oct 2017	30	3920	130.7	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

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**Account Detail**

Previous Balance	362.62
Payment Received (10/12/2018)	-362.62
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	53.16
Energy Charge	226.40
Formula Rate Plan	\$274.89 @ 9.3096% 25.59
Tax Cuts & Jobs Act Credit	\$274.89 @ -48.85% -134.28
Fuel & Purchased Power Cost	3840 kWh @ \$0.01882 72.27
FERC-Imposed Payment	3840 kWh @ \$0.00013 0.50
Municipal Franchise Adjustment	\$267.89 @ 0.052 13.93
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$281.82</b>
Ice Storm Recovery Charge	3.38
City Sales Tax	4.28
County Sales Tax	2.85
State Sales Tax	18.54
<b>Current Month Energy Charges</b>	<b>\$310.87</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 30 )	
Current Meter Reading (10/15/2018)	5913
Previous Meter Reading (09/15/2018)	- 5865
Difference	48
Multiplier	x 80
<b>kWh Metered</b>	<b>3840</b>
Demand Metered kW	0.22
Multiplier	x 80
<b>kW Metered</b>	<b>18.00</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 11/12/2018</b>	<b>\$310.87</b>
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Bill to be Drafted. DO NOT PAY.

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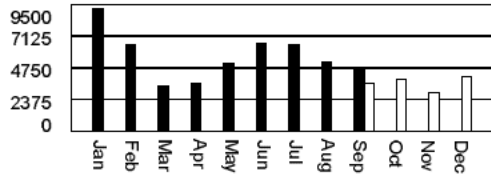
Service Location  
4500 Springer Blvd  
Little Rock, AR 72206-3651

Business Solutions Center  
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Power Outage or Safety Concern, 24 hrs/7days  
800-968-8243 (800-9OUTAGE)

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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Sep 2018	31	4720	152.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sep 2017	30	3600	120.0	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

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Get account info on your cell phone. Text **INFO** to **368374** for a menu of options.

**Account Detail**

Previous Balance		390.91
Payment Received	(09/12/2018)	-390.91
<b>Remaining Balance</b>		<b>\$0.00</b>

**Current Charges**

Customer Charge		24.25
Demand Charge		53.16
Energy Charge		267.96
Formula Rate Plan	\$309.84 @ 9.3096%	28.84
Tax Cuts & Jobs Act Credit	\$309.84 @ -48.85%	-151.36
Fuel & Purchased Power Cost	4720 kWh @ \$0.01882	88.83
FERC-Imposed Payment	4720 kWh @ \$0.00013	0.61
Municipal Franchise Adjustment	\$312.29 @ 0.052	16.24
<b>Total Metered Charges (Contract 9780644 )</b>		<b>\$328.53</b>
Ice Storm Recovery Charge		4.15
City Sales Tax		4.99
County Sales Tax		3.33
State Sales Tax		21.62

**Current Month Energy Charges \$362.62**

**Meter Reading (Contract 9780644 )**

Meter # 3261859	Rate : AR_SG1
Total Days ( 31 )	
Current Meter Reading	(09/15/2018) 5865
Previous Meter Reading	(08/15/2018) - 5806
Difference	59
Multiplier	x 80
<b>kWh Metered</b>	<b>4720</b>
Demand Metered kW	0.23
Multiplier	x 80
<b>kW Metered</b>	<b>18.00</b>



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Customer Service 877-ETRBIZZ (877-387-2499)	Amount to be drafted 10/12/2018	\$362.62
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Bill to be Drafted. DO NOT PAY.

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BATON ROUGE, LA 70891-8101

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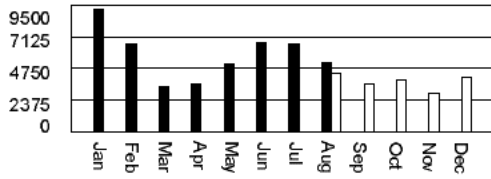
**Service Location**  
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**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Aug 2018	29	5200	179.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aug 2017	28	4400	157.1	<input type="checkbox"/>	<input type="checkbox"/>



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**Account Detail**

Previous Balance	84.28
Payment Received (08/13/2018)	-84.28
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	53.16
Energy Charge	290.65
Formula Rate Plan	\$328.91 @ 9.3096% 30.62
Tax Cuts & Jobs Act Credit	\$328.91 @ -48.85% -160.67
Fuel & Purchased Power Cost	5200 kWh @ \$0.01882 97.86
FERC-Imposed Payment	5200 kWh @ \$0.00013 0.68
Municipal Franchise Adjustment	\$336.55 @ 0.052 17.50
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$354.05</b>

Ice Storm Recovery Charge	4.58
City Sales Tax	5.38
County Sales Tax	3.59
State Sales Tax	23.31
<b>Current Month Energy Charges</b>	<b>\$390.91</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 29 )	
Current Meter Reading (08/15/2018)	5806
Previous Meter Reading (07/17/2018)	- 5741
Difference	65
Multiplier	x 80
<b>kWh Metered</b>	<b>5200</b>
Demand Metered kW	0.23
Multiplier	x 80
<b>kW Metered</b>	<b>18.00</b>



Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 09/12/2018</b>	<b>\$390.91</b>
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Bill to be Drafted. DO NOT PAY.

*Internet*

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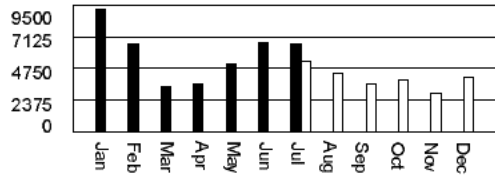
ENERGY  
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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Jul 2018	32	6560	205.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jul 2017	33	5280	160.0	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

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**Account Detail**

Previous Balance	906.07
Transfer From Account 13567144	-405.87
Payment Received (07/12/2018)	-906.07
<b>Remaining Balance</b>	<b>-\$405.87</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	70.88
Energy Charge	364.90
Formula Rate Plan	\$410.64 @ 9.3096% 38.23
Tax Cuts & Jobs Act Credit	\$410.64 @ -48.85% -200.60
Fuel & Purchased Power Cost	6560 kWh @ \$0.01882 123.46
FERC-Imposed Payment	6560 kWh @ \$0.00013 0.85
Municipal Franchise Adjustment	\$421.97 @ 0.052 21.94
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$443.91</b>
Ice Storm Recovery Charge	5.77
City Sales Tax	6.75
County Sales Tax	4.50
State Sales Tax	29.22
<b>Current Month Energy Charges</b>	<b>\$490.15</b>
<b>Total Amount Due</b>	<b>\$84.28</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 08/13/2018</b>	<b>\$84.28</b>
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Bill to be Drafted. DO NOT PAY.

*Internet*

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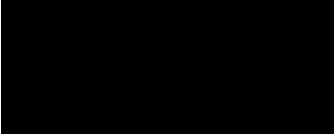
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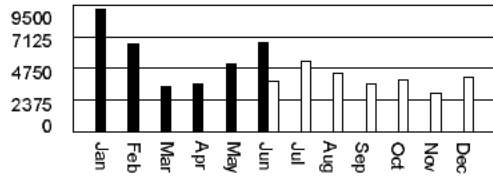


*Internet*

<b>Meter Reading (Contract 9780644)</b>		
Meter # 3261859	Rate : AR_SG1	
Total Days ( 32 )		
Current Meter Reading	(07/17/2018)	5741
Previous Meter Reading	(06/15/2018)	- 5659
Difference		82
Multiplier		x 80
<b>kWh Metered</b>		<b>6560</b>
Demand Metered kW		0.28
Multiplier		x 80
<b>kW Metered</b>		<b>22.00</b>

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Jun 2018	30	6640	221.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jun 2017	29	3760	129.7	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

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**Account Detail**

**Remaining Balance (Due Now) \$405.87**

**Current Charges**

Customer Charge	24.25
Demand Charge	75.31
Energy Charge	371.18
Formula Rate Plan	\$420.75 @ 9.3096% 39.17
Tax Cuts & Jobs Act Credit	\$420.75 @ -48.85% -205.54
Fuel & Purchased Power Cost	6640 kWh @ \$0.01882 124.96
Municipal Franchise Adjustment	\$429.33 @ 0.052 22.33
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$451.66</b>
Ice Storm Recovery Charge	7.24
City Sales Tax	6.88
County Sales Tax	4.59
State Sales Tax	29.83
<b>Current Month Energy Charges</b>	<b>\$500.20</b>
<b>Total Amount Due</b>	<b>\$906.07</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>** PAST DUE PAY NOW **</b>	<b>\$405.87</b>
	Amount to be drafted 07/12/2018	<b>\$500.20</b>
	<b>Total Due</b>	<b>\$906.07</b>

Due date does not apply to any previous balance already past due.  
Bill to be Drafted. DO NOT PAY.

*Internet*

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4500 SPRINGER BLVD  
LITTLE ROCK AR 72206

ENTERGY  
PO BOX 8101  
BATON ROUGE, LA 70891-8101

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SI C ARNR E1 000030445 30470 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20180620\_002813



*Internet*

<b>Meter Reading (Contract 9780644)</b>		
Meter # 3261859	Rate : AR_SG1	
Total Days ( 30 )		
Current Meter Reading	(06/15/2018)	5659
Previous Meter Reading	(05/16/2018)	- 5576
Difference		83
Multiplier		x 80
<b>kWh Metered</b>		<b>6640</b>
Demand Metered kW		0.29
Multiplier		x 80
<b>kW Metered</b>		<b>23.00</b>



Entergy Arkansas, Inc.  
entergy-arkansas.com

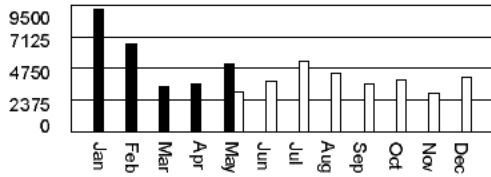
**Service Location**  
4500 Springer Blvd  
Little Rock, AR 72206-3651

**Business Solutions Center**  
877-ETRBIZZ (877-387-2499); 8a-5p, Mon-Fri  
**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
May 2018	31	5040	162.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
May 2017	29	2960	102.1	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**IMPORTANT NOTICE:** Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

**Account Detail**

Previous Balance	344.25
Payment Received (05/14/2018)	-344.25
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	75.31
Energy Charge	295.57
Formula Rate Plan	\$357.19 @ 9.3096% 33.25
Tax Cuts & Jobs Act Credit	\$357.19 @ -48.85% -174.49
Fuel & Purchased Power Cost	5040 kWh @ \$0.01882 94.85
Municipal Franchise Adjustment	\$348.74 @ 0.052 18.13
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$366.87</b>
Ice Storm Recovery Charge	5.49
City Sales Tax	5.59
County Sales Tax	3.72
State Sales Tax	24.20
<b>Current Month Energy Charges</b>	<b>\$405.87</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 31 )	
Current Meter Reading (05/16/2018)	5576
Previous Meter Reading (04/15/2018)	- 5513
Difference	63
Multiplier	x 80
<b>kWh Metered</b>	<b>5040</b>
Demand Metered kW	0.29
Multiplier	x 80
<b>kW Metered</b>	<b>23.00</b>



Entergy

entergy-arkansas.com

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 06/12/2018</b>	<b>\$405.87</b>
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Bill to be Drafted. DO NOT PAY.

*Internet*

000013079 01 AV 0.375 \*\*\*\*\* AUTO\*\*SCH 5-DIGIT 72206



AUDUBON ARKANSAS  
4500 SPRINGER BLVD  
LITTLE ROCK AR 72206-3651

ENERGY  
PO BOX 8101  
BATON ROUGE, LA 70891-8101

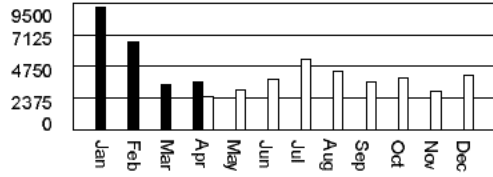
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AM C ARNR E2 000013069 13079 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20180519\_002703

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Apr 2018	27	3600	133.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Apr 2017	31	2480	80.0	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance	430.65
Payment Received (04/13/2018)	-430.65
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	106.32
Energy Charge	230.03
Formula Rate Plan	\$333.50 @ 9.3096% 31.05
Tax Cuts & Jobs Act Credit	\$333.50 @ -48.85% -162.91
Fuel & Purchased Power Cost	3600 kWh @ \$0.01882 67.75
Municipal Franchise Adjustment	\$296.49 @ 0.052 15.42
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$311.91</b>
Ice Storm Recovery Charge	3.92
City Sales Tax	4.74
County Sales Tax	3.16
State Sales Tax	20.52
<b>Current Month Energy Charges</b>	<b>\$344.25</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 27 )	
Current Meter Reading (04/15/2018)	5513
Previous Meter Reading (03/19/2018)	- 5468
Difference	45
Multiplier	x 80
<b>kWh Metered</b>	<b>3600</b>
Demand Metered kW	0.37
Multiplier	x 80
<b>kW Metered</b>	<b>30.00</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 05/14/2018</b>	<b>\$344.25</b>
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Bill to be Drafted. DO NOT PAY.

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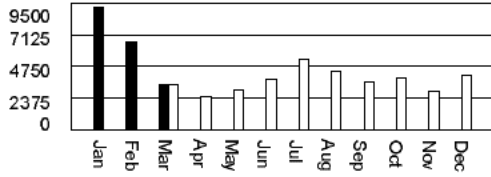


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00013467 13477 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20180420\_002646

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Mar 2018	33	3360	101.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mar 2017	31	3440	111.0	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance	732.99
Payment Received (03/15/2018)	-732.99
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	62.02
Energy Charge	208.72
Formula Rate Plan	\$269.68 @ 9.3096% 25.11
Fuel & Purchased Power Cost	3360 kWh @ \$0.01547 51.98
Municipal Franchise Adjustment	\$372.08 @ 0.052 19.35
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$391.43</b>
Ice Storm Recovery Charge	3.66
City Sales Tax	5.93
County Sales Tax	3.95
State Sales Tax	25.68
<b>Current Month Energy Charges</b>	<b>\$430.65</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 33 )	
Current Meter Reading (03/19/2018)	5468
Previous Meter Reading (02/14/2018)	- 5426
Difference	42
Multiplier	x 80
<b>kWh Metered</b>	<b>3360</b>
Demand Metered kW	0.25
Multiplier	x 80
<b>kW Metered</b>	<b>20.00</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 04/13/2018</b>	<b>\$430.65</b>
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Bill to be Drafted. DO NOT PAY.

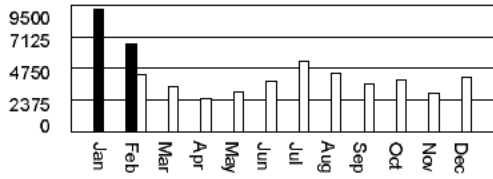
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000012887 12887 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20180322\_002604

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Feb 2018	31	6560	211.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Feb 2017	33	4320	130.9	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance		969.16
Interest On Deposit	0.30 %	-5.93
Payment Received	(02/13/2018)	-969.16
<b>Remaining Balance</b>		<b>-\$5.93</b>

**Current Charges**

Customer Charge		24.25
Demand Charge		93.03
Energy Charge		377.39
Formula Rate Plan	\$445.28 @ 9.3096%	41.45
Fuel & Purchased Power Cost	6560 kWh @ \$0.01547	101.48
Municipal Franchise Adjustment	\$637.60 @ 0.052	33.16
<b>Total Metered Charges (Contract 9780644)</b>		<b>\$670.76</b>
Ice Storm Recovery Charge		7.15
City Sales Tax		10.17
County Sales Tax		6.78
State Sales Tax		44.06
<b>Current Month Energy Charges</b>		<b>\$738.92</b>
<b>Total Amount Due</b>		<b>\$732.99</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 03/15/2018</b>	<b>\$732.99</b>
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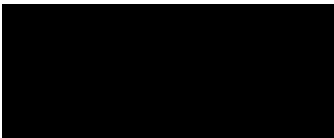
Bill to be Drafted. DO NOT PAY.

*Internet*

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*Internet*

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1	
Total Days ( 31 )		
Current Meter Reading	(02/14/2018)	5426
Previous Meter Reading	(01/14/2018)	- 5344
Difference		82
Multiplier		x 80
<b>kWh Metered</b>		<b>6560</b>
Demand Metered kW		0.34
Multiplier		x 80
<b>kW Metered</b>		<b>27.00</b>





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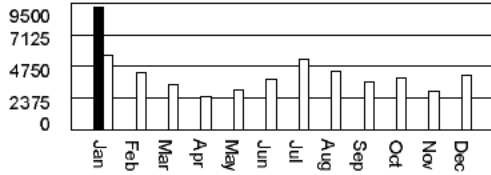
**Service Location**  
4500 Springer Blvd  
Little Rock, AR 72206-3651

**Business Solutions Center**  
877-ETRBIZZ (877-387-2499); 8a-5p, Mon-Fri  
**Power Outage or Safety Concern, 24 hrs/7days**  
800-968-8243 (800-9OUTAGE)

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2018	2017
Jan 2018	33	9200	278.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jan 2017	33	5600	169.7	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

To ensure a normal billing period, this month's meter reading was adjusted to reflect a 33 day bill.

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance	468.39
Payment Received (01/10/2018)	-468.39
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	106.32
Energy Charge	509.62
Formula Rate Plan	\$570.92 @ 9.3096% 53.15
Fuel & Purchased Power Cost	9200 kWh @ \$0.01547 142.32
Municipal Franchise Adjustment	\$835.66 @ 0.052 43.45
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$879.11</b>
Ice Storm Recovery Charge	10.03
City Sales Tax	13.34
County Sales Tax	8.89
State Sales Tax	57.79
<b>Current Month Energy Charges</b>	<b>\$969.16</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 33 )	
Current Meter Reading (01/14/2018)	5344
Previous Meter Reading (12/12/2017)	- 5229
Difference	115
Multiplier	x 80
<b>kWh Metered</b>	<b>9200</b>
Demand Metered kW	0.37
Multiplier	x 80
<b>kW Metered</b>	<b>30.00</b>
Reading is estimated.	



**Entergy**

entergy-arkansas.com

Customer Service  
877-ETRBIZZ  
(877-387-2499)

**Amount to be drafted 02/13/2018**

**\$969.16**

Bill to be Drafted. DO NOT PAY.

*Internet*

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AUDUBON ARKANSAS  
4500 SPRINGER BLVD  
LITTLE ROCK AR 72206-3651

ENERGY  
PO BOX 8101  
BATON ROUGE, LA 70891-8101

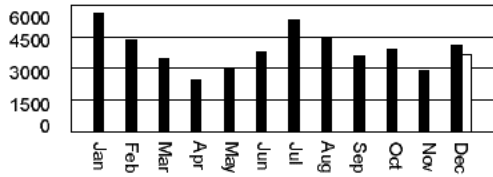
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AM C ARNR E2 000012915 12925 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20180120\_002444

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2017	2016
Dec 2017	29	4080	140.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dec 2016	30	3680	122.7	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance	370.37
Payment Received (12/11/2017)	-370.37
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	66.45
Energy Charge	237.68
Formula Rate Plan	\$305.21 @ 4.4471% 13.57
Fuel & Purchased Power Cost	4080 kWh @ \$0.01547 63.12
Municipal Franchise Adjustment	\$405.07 @ 0.052 21.06
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$426.13</b>
Ice Storm Recovery Charge	3.59
City Sales Tax	6.45
County Sales Tax	4.30
State Sales Tax	27.92
<b>Current Month Energy Charges</b>	<b>\$468.39</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 29 )	
Current Meter Reading (12/12/2017)	5229
Previous Meter Reading (11/13/2017)	- 5178
Difference	51
Multiplier	x 80
<b>kWh Metered</b>	<b>4080</b>
Demand Metered kW	0.26
Multiplier	x 80
<b>kW Metered</b>	<b>21.00</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 01/10/2018</b>	<b>\$468.39</b>
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Bill to be Drafted. DO NOT PAY.

000013065 01 AV 0.370 \*\*\*\*\* AUTO\*\*SCH 5-DIGIT 72206



AUDUBON ARKANSAS  
4500 SPRINGER BLVD  
LITTLE ROCK AR 72206-3651

ENERGY  
PO BOX 8101  
BATON ROUGE, LA 70891-8101

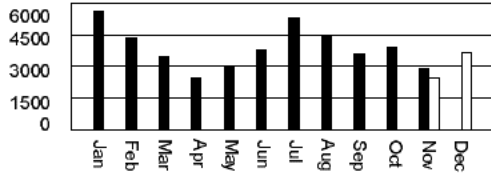
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AM C ARNR E2 000013055 13065 00001 entAR\_BIL\_DPQ\_MAIL\_01\_20171219\_002641

*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2017 2016
Nov 2017	31	2880	92.9	<input type="checkbox"/>
Nov 2016	29	2480	85.5	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Detail**

Previous Balance	415.27
Payment Received (11/09/2017)	-415.27
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	62.02
Energy Charge	178.71
Formula Rate Plan	\$248.62 @ 4.4471% 11.06
Fuel & Purchased Power Cost	2880 kWh @ \$0.01547 44.55
Municipal Franchise Adjustment	\$320.59 @ 0.052 16.67
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$337.26</b>
Ice Storm Recovery Charge	2.53
City Sales Tax	5.10
County Sales Tax	3.40
State Sales Tax	22.08
<b>Current Month Energy Charges</b>	<b>\$370.37</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 31 )	
Current Meter Reading (11/13/2017)	5178
Previous Meter Reading (10/13/2017)	- 5142
Difference	36
Multiplier	x 80
<b>kWh Metered</b>	<b>2880</b>
Demand Metered kW	0.25
Multiplier	x 80
<b>kW Metered</b>	<b>20.00</b>

Customer Service 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 12/11/2017</b>	<b>\$370.37</b>
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Bill to be Drafted. DO NOT PAY.

*Internet*

000013122 01 AV 0.370 \*\*\*\*\* AUTO\*\*SCH 5-DIGIT 72206

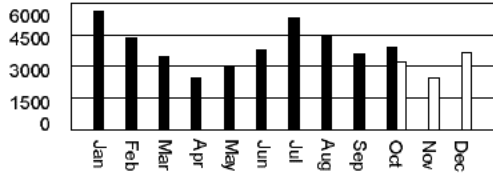


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*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2017	2016
Oct 2017	30	3920	130.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oct 2016	30	3200	106.7	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Account Summary for Audubon Arkansas**

<b>Account #</b> 85888766	<b>Mail Date</b> 10/18/2017	<b>QPC</b> 05000
<b>Invoice #</b> 25005256671		<b>Cycle</b> 14
<b>Amount to be drafted 11/09/2017</b>		<b>\$415.27</b>

**Account Detail**

Previous Balance	400.28
Payment Received (10/10/2017)	-400.28
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	44.30
Energy Charge	217.93
Formula Rate Plan	\$264.21 @ 4.4471% 11.75
Fuel & Purchased Power Cost	3920 kWh @ \$0.01547 60.64
Municipal Franchise Adjustment	\$358.87 @ 0.052 18.66
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$377.53</b>
Ice Storm Recovery Charge	3.45
City Sales Tax	5.71
County Sales Tax	3.81
State Sales Tax	24.77
<b>Current Month Energy Charges</b>	<b>\$415.27</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 30 )	
Current Meter Reading (10/13/2017)	5142
Previous Meter Reading (09/13/2017)	- 5093
Difference	49
Multiplier	x 80
<b>kWh Metered</b>	<b>3920</b>
Demand Metered kW	0.20
Multiplier	x 80
<b>kW Metered</b>	<b>16.00</b>

<b>Account</b> 85888766	<b>QPC</b> 05000	<b>Invoice</b> 25005256671
<b>Customer Service</b> 877-ETRBIZZ (877-387-2499)	<b>Amount to be drafted 11/09/2017</b>	<b>\$415.27</b>

Bill to be Drafted. DO NOT PAY.

*Internet*

000026530 01 MB 0.420 \*\*\*\*\* AUTO\*\*MIXED AADC 750



AUDUBON ARKANSAS  
 PO BOX 80720  
 BATON ROUGE LA 70898-0720

ENERGY  
 PO BOX 8101  
 BATON ROUGE, LA 70891-8101

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*Internet*

**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2017	2016
Sep 2017	30	3600	120.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sep 2016	32	4320	135.0	<input type="checkbox"/>	<input type="checkbox"/>

**Important Messages**

Thank you for the prompt way you pay your bill.

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Real-Time Payment Options:**

- My Account Online at [entergy.com](http://entergy.com)
- By Phone at 800-584-1241 for a small fee.

Please add \$1 to total bill amount for **The Power to Care**. Learn more at [entergy.com](http://entergy.com).

**Account Summary for Audubon Arkansas**

<b>Account #</b> 85888766	<b>Mail Date</b> 09/18/2017	<b>QPC</b> 05000
<b>Invoice #</b> 65004916595		<b>Cycle</b> 14
<b>Amount Due by 10/10/2017</b>	<b>\$400.28</b>	after <b>\$410.02</b>

Late Payment Charges apply to amounts paid after the due date.

**Account Detail**

Previous Balance	475.09
Payment Received (08/28/2017)	-475.09
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	48.73
Energy Charge	205.90
Formula Rate Plan @ 4.4471%	11.49
Fuel & Purchased Power Cost 3600 kWh @ \$0.01547	55.69
Municipal Franchise Adjustment \$346.06 @ 0.052	18.00
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$364.06</b>
Ice Storm Recovery Charge	3.17
City Sales Tax	5.51
County Sales Tax	3.67
State Sales Tax	23.87
<b>Current Month Energy Charges</b>	<b>\$400.28</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 30 )	
Current Meter Reading (09/13/2017)	5093
Previous Meter Reading (08/14/2017)	- 5048
Difference	45
Multiplier	x 80
<b>kWh Metered</b>	<b>3600</b>
Demand Metered kW	0.21
Multiplier	x 80
<b>kW Metered</b>	<b>17.00</b>

<b>Account</b> 85888766	<b>QPC</b> 05000	<b>Invoice</b> 65004916595
<b>Customer Service</b> 877-ETRBIZZ (877-387-2499)	<b>Amount Due by 10/10/2017</b>	<b>\$400.28</b> after <b>\$410.02</b>

Please send stub with check payable to **Entergy**. Thank You.

*Internet*

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AUDUBON ARKANSAS  
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PO BOX 80720  
BATON ROUGE LA 70898-0720

ENTERGY  
PO BOX 8101  
BATON ROUGE, LA 70891-8101

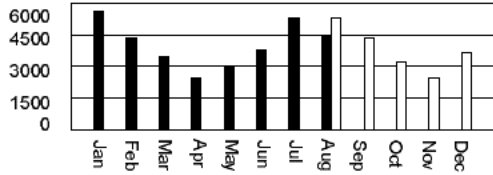
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**Total Monthly Energy Usage**

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2017	2016
Aug 2017	28	4400	157.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aug 2016	28	5280	188.6	<input type="checkbox"/>	<input type="checkbox"/>



**Important Messages**

Thank you for the prompt way you pay your bill.

**Warning:** If your payment is late for two consecutive months or you have a total of three late payments in the past 12 months, we may require an **additional deposit**. The additional deposit will be equal to the sum of your two highest bills in the past 12 months minus any deposit already on your account. Additional deposit will be billed in four installments.

**Real-Time Payment Options:**

- My Account Online at [entergy.com](http://entergy.com)
- By Phone at 800-584-1241 for a small fee.

Please add \$1 to total bill amount for **The Power to Care**. Learn more at [entergy.com](http://entergy.com).

**Account Detail**

Previous Balance	531.69
Payment Received (08/08/2017)	-531.69
<b>Remaining Balance</b>	<b>\$0.00</b>

**Current Charges**

Customer Charge	24.25
Demand Charge	57.59
Energy Charge	247.21
Formula Rate Plan	@ 4.4471%
Fuel & Purchased Power Cost	4400 kWh @ \$0.01547
Municipal Franchise Adjustment	\$410.64 @ 0.052
<b>Total Metered Charges (Contract 9780644)</b>	<b>\$431.99</b>
Ice Storm Recovery Charge	3.87
City Sales Tax	6.54
County Sales Tax	4.36
State Sales Tax	28.33
<b>Current Month Energy Charges</b>	<b>\$475.09</b>

**Meter Reading (Contract 9780644)**

Meter # 3261859	Rate : AR_SG1
Total Days ( 28 )	
Current Meter Reading (08/14/2017)	5048
Previous Meter Reading (07/17/2017)	- 4993
Difference	55
Multiplier	x 80
<b>kWh Metered</b>	<b>4400</b>
Demand Metered kW	0.24
Multiplier	x 80
<b>kW Metered</b>	<b>19.00</b>

877-ETRBIZZ (877-387-2499)	Amount Due by 09/11/2017	<b>\$475.09</b>	after	<b>\$486.21</b>
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Please send stub with check payable to **Entergy**. Thank You.

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