



EAST KENTUCKY POWER COOPERATIVE

A Touchstone Energy Cooperative 

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COMMISSION

March 18, 2026

Ms. Linda C. Bridwell, P.E.  
Executive Director  
Kentucky Public Service Commission  
211 Sower Boulevard  
P.O. Box 615  
Frankfort, Kentucky 40602-0615

Re: Bluegrass Station Annual Report; Case No. 2015-00267

Dear Ms. Bridwell:

Pursuant to the Commission's December 1, 2015 Order in Case No. 2015-00267, in which the Commission approved East Kentucky Power Cooperative Inc's ("EKPC") requests to acquire the Bluegrass Station and to assume the evidences of indebtedness associated with the acquisition, enclosed please find a copy of EKPC's 2025 Bluegrass Station Annual Operation Report. Please file this in the post-case correspondence file and return a file-stamped copy to my office.

This is to certify that the electronic document has been transmitted to the Commission on March 18, 2026 and that there are currently no parties in this proceeding that the Commission has excused from participation by electronic means. Pursuant to the Commission's July 22, 2021 Order in Case No. 2020-00085 no paper copies of this filing will be made.

If you have any questions, please call me.

Thank You,

A handwritten signature in blue ink, appearing to read "Greg Cecil".

Greg Cecil  
Director, Regulatory and Compliance Services

Enclosure

4775 Lexington Road, POB 707  
Winchester, KY 40392  
859-744-4812

## Bluegrass Generating Station 2025 Annual Operating Report

### Performance Update:

In 2025, East Kentucky Power Cooperative's, Inc's. (EKPC) Bluegrass Generating Station (Bluegrass) successfully operated for 1,599.94 hours, produced 208,795 gross megawatts and 207,288 net megawatts of generation; experienced 602.22 unplanned outage hours; and performed to an overall average net heat rate of 11,652.58 (BTU/KWH).

Bluegrass Unit 1 successfully operated 693.26 hours, generated 90,806 gross megawatts and 89,866 net megawatts; experienced 169.65 hours of unplanned outage hours; performed to an average net heat rate of 11,672.23 (BTU/KWH); and successfully started 100 times with one failed start. Bluegrass Unit 1 experienced five unplanned/forced outage events.

- (1) Unplanned forced outage 0.07 hours for a unit trip while transferring from Natural Gas to Fuel Oil. The Fuel Oil control valve was sluggish due to cold weather. The plant has implemented a procedure to pre-stroke the valves to warm them up prior to transferring to Fuel Oil.
- (2) Unplanned forced outage 0.40 hours for start failure due to a blown fuse in the Generator Relay and Metering Surge cubical. The fuse was replaced and the unit was brought on line.
- (3) Unplanned forced outage 147.55 hours for a Torque Converter failed clutch. Replace Torque Converter with in-stock spare.
- (4) Unplanned maintenance outage 14.50 hours to allow LG&E to replace Lightning Arrestor in the LG&E Switchyard.
- (5) Unplanned maintenance outage 7.13 hours to allow LG&E to perform Circuit Breaker maintenance in the LG&E Switchyard.

## Bluegrass Generating Station 2025 Annual Operating Report

Bluegrass Unit 2 successfully operated 577.72 hours, generated 76,781 gross megawatts and 76,679 net megawatts; experienced 25.28 hours of unplanned outage hours; performed to an average net heat rate of 11,523.14 (BTU/KWH); and successfully started 78 times with no failed starts. Bluegrass Unit 2 experienced two unplanned/forced outage events.

- (1) Unplanned forced outage 3.65 hours for an Inlet Guide Vane Actuator. Replaced Actuator with in-stock spare and returned to service.
- (2) Unplanned maintenance outage 14.50 hours to allow LG&E to replace Lightning Arrestor in the LG&E Switchyard.
- (3) Unplanned maintenance outage 7.13 hours to allow LG&E to perform Circuit Breaker maintenance in the LG&E Switchyard.

Bluegrass Unit 3 successfully operated 328.96 hours, generated 41,208 gross megawatts and 40,743 net megawatts; experienced 407.29 hours of unplanned outage hours; performed to an average net heat rate of 11,852.86 (BTU/KWH); and successfully started 47 times with no failed starts. Bluegrass Unit 3 experienced one (3) unplanned/forced outage event:

- (1) Unplanned forced outage 11.27 hours for a Failed Lightning Arrestor in the LG&E Switchyard. LG&E replaced the Lightning Arrestor and made unit available.
- (2) Unplanned forced outage 1.07 hours for a failed solenoid valve on C-Stage Natural Gas Control Valve.
- (3) Unplanned forced outage 391.62 hours for a cracked Torque Tube (Turbine Rotor) which required a rotor exchange with the OEM. Outage carried over into 2026.
- (4) Unplanned maintenance outage 3.33 hours to allow LG&E to perform Circuit Breaker maintenance in the LG&E Switchyard.

## Bluegrass Generating Station 2025 Annual Operating Report

### **Budget Update:**

Bluegrass budgeted \$6.56 million and incurred \$7.46 million in 2025 for capital expenditures. The overall variance was due to the advancement of several small projects in combination with the fuel oil storage addition project having carryover costs. EKPC has budgeted \$462,000 for capital expenditures for equipment in 2026. This capital budget includes the following projects: Bluegrass Generating Units 1, 2 & 3 Relaying Upgrades \$440,000 and Bluegrass Unit 3 2025 Generator Rewind expenditure carryover of \$22,000. An unbudgeted 2026 project, Bluegrass Unit 3 Rotor Replacement estimated cost is \$16.0 million.

Bluegrass budgeted \$5.8 million (excluding fuel) in 2025 for O&M expenses, and had expenditures of \$5.2 million. The variance was due to deferring projects, as well as cost savings ideas and competitively bidding projects. Bluegrass has budgeted \$7.5 million (excluding fuel) for O&M expenses in 2026. Bluegrass budgeted \$13 million for fuel in 2025 and had expenditures of \$16.7 million (Natural Gas) and \$0.36 million in (Diesel Fuel). Bluegrass' budget for fuel in 2026 is \$14.8 million.

### **Reliability Update:**

Bluegrass performed various maintenance activities to increase the availability and reliability of the facility. These maintenance activities included, but were not limited to the annual spring and fall reliability outages, which included the turbine borescope inspections on all three units, and continued with cold weather hardening of all systems. The plant successfully test ran all three units on diesel fuel after the spring and fall outages to insure full system capability.

## Bluegrass Generating Station 2025 Annual Operating Report

### Environmental Update:

Bluegrass Station is in compliance with the requirements of the Clean Air Act (CAA), and the Clean Water Act (CWA). Moreover, fossil fuel applicable only;

Applicable NSPS is covered below.

- Title IV of the CAA and the rules governing pollutants that contribute to Acid Deposition (Acid Rain program);
- Title V operating permit requirements (Title V);
- New Source Review requirements as a “synthetic minor” source;
- Stationary Gas and Combustion Turbines: New Source Performance Standards (NSPS);
- Cross-State Air Pollution Rule (CSAPR);
- Clean Water Act, and
  - National Pollution Discharge Elimination System (NPDES) as delegated by the EPA to Kentucky Pollution Discharge Elimination System (KPDES).
  - EPA Spill Prevention Control and Counter Measure (SPCC) plans.