

Wildlife Habitat

Solar One not only provides renewable energy to northeast Arkansas, but also provides sustainable habitat important to pollinators and wildlife within the region. The Northeast Arkansas Chapter of Quail Forever supports the habitat management aspect of the project as part of the QF youth pollinator habitat program. They provide wildflower and native warm-season grass seed, procure planting equipment, provide planting volunteers, and involve youth groups like Boy Scouts of America and local Agri-programs throughout the establishment and monitoring process. Quail Forever has also overseen the creation of a habitat management plan for Craighead Electric's maintenance and operations programs.



The Solar One facility hosts a sustainable habitat for pollinators and local wildlife like the Bobwhite Quail.



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SOLAR ONE

 Craighead Electric



775 Highway 230 E, Brookland Arkansas

Ground Breaking



The solar project ground breaking was held in August 2018. The project would soon be named Solar One. Construction moved quickly as the solar panels and most of the equipment are installed in just a few weeks.

Flipping the Switch



The 'Flip the Switch' ceremony was held in September 2018. Community leaders, cooperative board members, and cooperative staff were in attendance for the flipping of the giant light switch marking the opening of the facility.

Facts:

- **Peak power output is equal 1 Megawatt of AC electricity, enough to power 135 homes.**
- **2.4 million Kilowatt hours are generated annually using only the power of the sun.**
- **Solar power is a cheap and renewable energy source.**
- **Horizontal Single Axis Balanced Mass Tracker (120° tracking range) tracts the sun across the sky.**
- **Each Row is independently driven by a small electric motor.**
- **The electric tilt-motors are themselves solar powered.**
- **68 rows of panels, 57 panels per row, totals 3888 panels. They cover 8 acres of the 11 acre facility.**
- **25 x 40KW inverters have a max output of 1 million watts.**
- **2 1/2 miles of Torque Tube**
- **6.6 miles of AC wiring, 15 miles of DC wiring, 2 miles of conduit**
- **Habitat for pollinators (bees, butterflies), and wildlife (rabbits, quail), and beneficial insects**
- **On-site weather stations monitor atmospheric conditions like wind-speed, wind direction, and position of the sun**
- **Panels automatically flatten out during windy conditions to avoid wind damage.**
- **The panels are durable enough to withstand direct impacts from quarter-sized hail.**
- **24/7 computer monitoring allows output of the system to be tracked remotely.**

Solar One is a Single-Axis tracking system. Each row has a small motor that tilts the panels towards the sun following it across the sky as it rises in the east and sets in the west, maximizing energy production throughout the day.

