

# UGA-1 Solar Facility



## Location

ATHENS, GEORGIA

## Fuel Resource

PHOTOVOLTAIC SOLAR

## Capacity

1 MEGAWATT

## Ownership

GEORGIA POWER

Georgia Power is the largest electric subsidiary of Southern Company (NYSE: SO), America's premier energy company. Value, Reliability, Customer Service and Stewardship are the cornerstones of the company's promise to 2.5 million customers in all but four of Georgia's 159 counties. Committed to delivering clean, safe, reliable and affordable energy at rates below the national average, Georgia Power maintains a diverse, innovative generation mix that includes nuclear, 21st century coal and natural gas, as well as renewables such as solar, hydroelectric and wind. Georgia Power focuses on delivering world-class service to its customers every day and the company is consistently recognized by J.D. Power and Associates as an industry leader in customer satisfaction. Learn more at [www.GeorgiaPower.com](http://www.GeorgiaPower.com).

Southern Company is America's premier energy company, with 44,000 megawatts of generating capacity and 1,500 billion cubic feet of combined natural gas consumption and throughput volume serving 9 million electric and gas utility customers through its subsidiaries. The company provides clean, safe, reliable and affordable energy through electric utilities in four states, natural gas distribution utilities in seven states, a competitive generation company serving wholesale customers across America and a nationally recognized provider of customized energy solutions, as well as fiber optics and wireless communications.

The University of Georgia (UGA) 1-MW solar facility was completed by Georgia Power in collaboration with the university. The facility is owned and operated by Georgia Power with energy delivered to the state's electric grid. UGA will receive the renewable energy credits, or RECs. The facility reached commercial operation on February 4, 2016.

Research will be conducted under a two-year collaboration with UGA researchers, spearheaded by the College of Engineering, to study solar forecasting and the effects of solar panel soiling versus performance. Data analysis and performance reporting will occur through a Georgia Power partnership with the Electric Power Research Institute. The new solar project will demonstrate optimal orientation and sun-tracking technology suited for Georgia's climate and energy demand with project partners studying the performance and reliability of fixed and tracking configurations of five separate sub-arrays.

## Size

The solar facility is located on an approximately 10-acre site in Athens, Georgia.

## Technology

The project utilizes approximately 2,900 photovoltaic (PV) modules combining single-axis and dual-axis tracking.

PV modules generate electricity directly from sunlight through an electronic process that occurs naturally in certain types of material known as semiconductors. Solar energy frees electrons in these materials to travel through an electrical circuit, powering devices or sending electricity to the grid.