

Republic Services Caps Atlanta Landfill With Flexible Solar Cover

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One of Georgia's largest solar projects will generate enough electricity to power more than 200 homes

ATLANTA – October 4, 2011 – [Republic Services, Inc.](#) (NYSE: RSG) today cemented its leadership in landfill energy production with the dedication of a solar energy cover on its closed Hickory Ridge landfill near Atlanta. The innovative flexible solar cover technology that increases renewable energy output at landfills will generate one megawatt (MW) of electricity and meet the needs of 224 homes. The 45-acre closure system, which includes 10 acres of solar panels, is the world's largest landfill solar energy cap and can be seen from planes using the Hartsfield-Jackson Atlanta International Airport.

As one of the largest solar projects in Georgia so far and only the third application of this solar landfill technology in the country, Hickory Ridge becomes the state's first landfill solar farm, transforming a closed landfill into a commercial scale, solar-energy-generating facility. The cover, a Spectro PowerCap™ made by [Carlisle Energy Services](#) (CES), is a new dual-purpose landfill closure system that allows a landfill owner to close a landfill and also generate renewable electrical power.

“This is a technologically advanced solution that is actually very simple at its core,” said Bob Boucher, senior vice president, operations for Republic. “Given the choice of covering the site with clay and soil, or flexible solar panels, we made the choice that not only caps the landfill with an environmentally safe technology but also produces enough renewable energy to power the equivalent of 224 homes.”

The roughly \$5 million investment by Republic is being offset by a \$2 million grant of federal stimulus money awarded through the [Georgia Environmental Finance Authority](#) (GEFA). Georgia received \$82.5 million in American Recovery and Reinvestment Act funding for state energy-efficiency and renewable energy programs.

“GEFA encourages renewable energy in Georgia by funding solar projects such as Hickory Ridge. In addition to funding, we provide technical assistance to state agencies, local governments and private sector companies in developing innovative energy resources,” said Kevin Clark, executive director, GEFA.

Carlisle's Spectro PowerCap is a dual-purpose landfill closure system that meets regulatory requirements as an alternative closure system and provides clean renewable energy. The system features Carlisle's three-ply, scrim-reinforced GeoTPO Geomembrane that serves as both the closure system and platform for integrated solar photovoltaics. GeoTPO was developed exclusively for Exposed Geomembrane Solar Cap (EGSC) or Exposed Geomembrane Cap (EGC) applications as both a long-term and final landfill closure solution.

“Our Spectro PowerCap installation at Republic's Hickory Ridge is a remarkable achievement for the entire team. It confirms our system is viable for large scale solar electricity generation and in meeting state regulatory requirements for landfill closure,” said Arthur Mohr Jr., director, landfill solutions at Carlisle Energy Services.

The Hickory Ridge landfill solar energy cover uses nearly 7,000 solar panels to generate more than 1 million kilowatt hours of renewable electricity annually. The solar panel area is located on the landfill's south slope and covers approximately 10 acres of the 45-acre site. The solar array is configured to allow access to landfill utilities such as landfill gas collection wells, while also incorporating cost-effective wiring and efficient electrical operations. The entire array of panels and their accompanying infrastructure are installed on the exposed geomembrane to produce year-round renewable electricity during the 30-year post closure long-term care period and beyond.

The new solar cover will be complemented by a soon-to-be installed landfill gas-to-energy project.

According to the U.S. Environmental Protection Agency, there are about 100,000 closed landfills in the United States, which could potentially represent hundreds of thousands of acres of property that could be used for renewable energy development. Many of these landfills are close to urban areas and have infrastructure in place to deliver solar and other forms of alternative energy economically.

About Republic Services

Republic Services, Inc. provides recycling and solid waste collection, transfer and disposal services across the United States. The company's various operating units, including collection companies, transfer stations, recycling centers and landfills, are focused on providing reliable environmental services and solutions for commercial, industrial, municipal and residential customers. For more information, visit the Republic Services website at www.republicservices.com.

About the Georgia Environmental Finance Authority

GEFA provides energy, land and water resources resulting in an improved quality of life for today and future generations. GEFA is the lead agency for state energy programs and is home to the Center of Innovation for Energy; directs the Georgia Land Conservation Program and maintains state-owned fuel storage tanks; and offers financing for reservoir and water supply, water quality, storm water and solid waste infrastructure. Since 1985, GEFA has approved financial commitments totaling more than \$3 billion to local governments, businesses and nonprofit organizations. For more information, visit www.gefa.org.

About Carlisle Energy Services (CES)

CES, a wholly owned subsidiary of Carlisle Construction Materials Incorporated, is a leading provider of exposed, single-ply geomembrane closure systems and solar energy solutions for the solid waste and related industries. Carlisle Energy Services' next-generation Spectro PowerCap™ Exposed Geomembrane Solar Cap is an industry-leading landfill closure system that generates renewable energy from integrated solar photovoltaic technology. At a comparable cost to a traditional landfill cap, the Spectro PowerCap provides superior environmental protection with years of clean, renewable solar energy. For more information, visit Carlisle Energy's website at www.carlisleenergy.com.