

Atlanta Airport 2018 Carbon Offset Purchase



Atlanta Airport reduces the carbon footprint of their operations through efficiencies, new technologies, and carbon offsets to balance what can't be avoided. Their purchase of carbon credits from a Georgia Landfill Gas to Energy project of 16,000 metric tons carbon dioxide equivalent (MTCO₂e) is equivalent to reducing the emissions of flying over 140 million passenger miles.

(source: ghgprotocol.org)

The [Wolf Creek Landfill](#) in Dry Branch, Georgia provides environmental benefits to the local area by capturing the landfill gas created by the facility and utilizing it as fuel to produce energy on a voluntary basis. The offsets are verified and validated through [Climate Action Reserve](#).

Project	Volume (MT)	Cost per unit	Total cost
Wolf Creek Landfill Gas	16,000	\$1.80	\$28,800.00
	# of hours	cost per hour	
Advisory Services-NB	2	\$175.00	\$350.00
			\$29,150.00

RMI/ The Good Traveler will invoice Haley Aldridge and provide your offsets.

ATL carbon credits will be retired on a public registry
on their behalf (APX CAR).

Atlanta Airport is sending a strong message around sustainability and in the fight against climate change by taking responsibility for their impact and funding an equivalent emission reduction

Wolf Creek is a **landfill gas-to-energy** project that provides an environmental benefit and provides electricity to power over 1500 homes as well as reduces greenhouse gas emissions.



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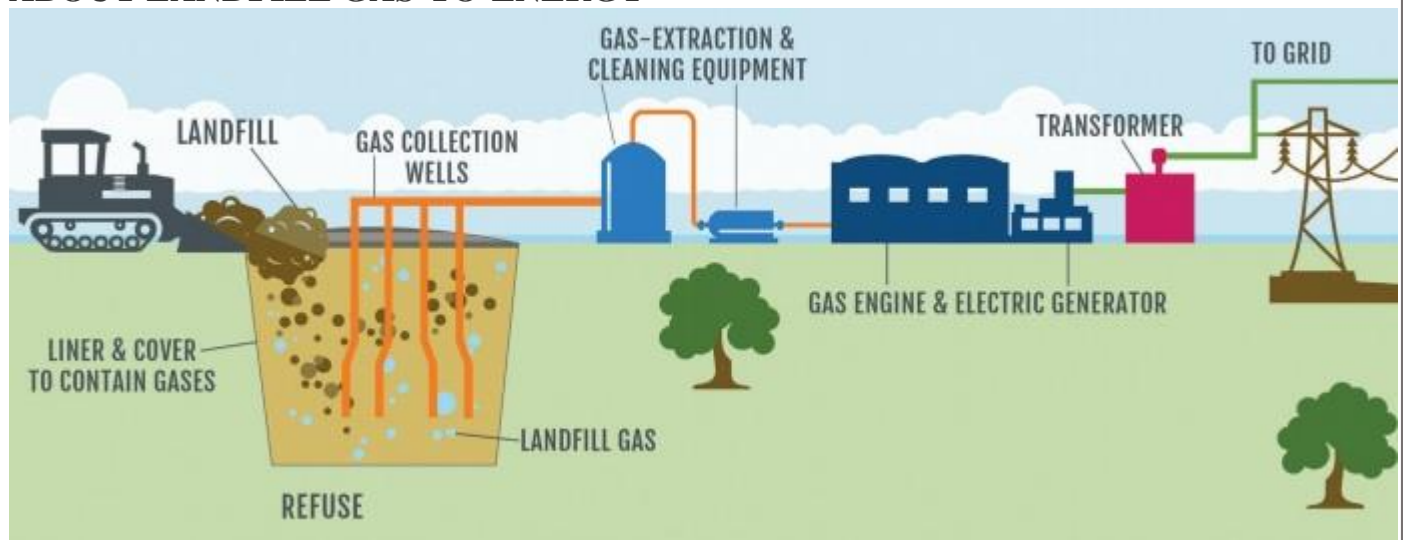
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Background Information.

Why pursue carbon offsets? The logical start to reducing greenhouse gases is energy conservation. Wherever possible, operations should eliminate wasted energy consumption and install onsite renewable energy where feasible. Once all the cost-effective measures have been implemented, carbon offsets can address the remaining emissions. Carbon offsets are a third-party verifiable form of tradable commodity. When you buy an offset, you fund projects that reduce greenhouse gas (GHG) emissions measured in metric tons of CO₂ reduced.

ATL is funding the use of waste gas at landfills to establish a new source of energy for the state of Georgia and to achieve emission reductions. Hartsfield-Jackson's portfolio from Wolf Creek maximizes emissions reductions per dollar leveraging low-cost, high-quality landfill gas credits, totaling 16,000 metric tons.

ABOUT LANDFILL GAS-TO-ENERGY



TURNING WASTE INTO ENERGY (source:EPA)

Decomposing waste in these landfills produce landfill gas, which is a mixture of methane and carbon dioxide emissions. Eliminating methane emissions is critical. Methane generates over 28



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times the global warming effect than the same amount of CO₂, and landfills are the third largest source of human-made methane emissions in the United States. Landfill gas collection systems eliminate greenhouse gases associated with waste decomposition.

The U.S. Environmental Protection Agency (EPA) has endorsed landfill gas as an environmentally-friendly energy resource that reduces our reliance on fossil fuels. This process is an effective means of recycling methane and avoiding emissions from new sources of natural gas. Typically, landfill projects capture up to 90% of the methane that would be emitted into the atmosphere without invention.

Surrounding communities benefit of waste-to-energy facilities. Local residents often realize economic benefits, odor control; and, the facilities generate economic benefits in the form of energy revenue and jobs creation associated with design, construction and operation of the system.

Project Evaluations

A thorough review of multiple options was performed. The three LFG projects reviewed that met budgetary and emission reduction requirements were Wolf Creek, Eagle Point, and Gaston County. The two additional projects reviewed and priced similarly (+/- \$0.10 per MT) were Eagle Point Landfill (Georgia) and Gaston County Landfill (North Carolina). Eagle Point and Wolf Creek are located in the State of Georgia. Wolf Creek was chosen for 2017 Scope 1 Emission reductions.



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Wolf Creek Landfill to Energy Project

Hartsfield-Jackson Atlanta International

2017 Carbon Offset Project

Dry Branch, GA

PROJECT TYPE: Landfill Gas to Energy

OFFSET STANDARD: Climate Action Reserve

Wolf Creek meets and exceeds the standards set forth by Climate Action Reserve. In addition, it maximizes reduction per dollar, allows for ATL to support a project in Georgia that also has the co-benefit of creating renewable energy while meeting volume needs.

Located in Dry Branch, Georgia, the Eagle Point Landfill Gas to Energy Project was developed to capture and destruct methane gas through a gas collection and control system then a LFGE component was added for beneficial use of the methane gas instead of destruction. The developer implemented three projects in the area. (Wolf Creek, Eagle Point, and Stone Throws) Wolf Creek was the first of the three projects to produce renewable energy. Wolf Creek produces enough energy to power 1500 homes.

Eagle Point Landfill Project

BALL GROUND, GA

PROJECT TYPE: Landfill Gas Methane Capture & Destruction

OFFSET STANDARD: Climate Action Reserve

Located in Forsyth County, Georgia, the Eagle Point Landfill Project captures methane gas through a gas collection and control system. The system was installed in 2009. This voluntary capture project incorporates an LFG Specialties blower and flare station and Siemens Ultramat gas monitoring and logging system to monitor and destroy the captured gas.



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Gaston County Landfill Gas to Energy Project

Gaston, NC

PROJECT TYPE: Landfill Gas to Energy

OFFSET STANDARD: Climate Action Reserve

The three goals of Gaston county are to reduce greenhouse gas emissions from the decomposition of waste occurring in the landfill (2) to produce renewable energy from the capture of biogas (3) to provide the infrastructure for development of a green Eco-Industrial Park. Businesses in the Eco Park have access to reduced-cost heat and excess landfill gas from the Renewable Energy Center and adjacent landfill. This voluntary capture project incorporates innovative thinking and co-benefits to meet the challenges of renewable energy.



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