

GASTON COUNTY LANDFILL GAS USA

Reducing the environmental impact of landfill gas with an innovative capture and flare system

Just west of Charlotte, North Carolina, this project in Gaston County involves the installation of an innovative capture and flare system that captures methane emissions from a landfill site and prevents them from entering the atmosphere.

The Context

As it decomposes underground without the presence of oxygen, landfill waste emits the greenhouse gas methane, which has a warming effect 25 times as potent as carbon dioxide. Prior to the implementation of this project, landfill gas was not collected from this site and all gases were released into the atmosphere.

The Project

This project involves the voluntary collection and destruction of landfill gas in two open flares and three internal combustion engine generators. Gaston County replaced the old passive venting system with this active gas collection and flare system, which today reduces the environmental impact of the waste facility by reducing its greenhouse gas emissions.

The Benefits

This project delivers positive environmental impacts by reducing the amount of the harmful greenhouse gas methane being emitted into the atmosphere. It also promotes responsible waste management and the transition to more sustainable infrastructures in America.

Reducing emissions with responsible landfill waste management.



CLIMATE
ACTION
RESERVE



**108,168
tonnes**

of waste sent to the landfill site each year and treated for gas emissions



**75,452
tCO₂e**

reduced on average each year by preventing methane from entering the atmosphere

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: Gaston County Landfill Gas Destruction Project | **UNFCC/markit/VCS link:** <https://thereserve2.apx.com/mymodule/reg/prjView.asp?id1=475>
UNFCCC/markit/VCS ID: CAR475