

Aries Gasification Plant Achieves 94% Operational Availability Milestone

By Jim Lane - October 11, 2018023

In Tennessee, the Lebanon Waste-to-Energy Gasification Plant reached a milestone last week as the plant maintained a 94% uptime rate over the last 100 consecutive days. More than 460,000 kWh of green electricity was generated during 2,259 operating hours. This success was accomplished through outstanding teamwork, hard work, and cooperation between the City of Lebanon and Aries Clean Energy.

Aries Clean Energy, LLC, based in Franklin, Tennessee, designs and builds innovative downdraft and fluidized bed gasification systems using its eight patents granted to date. Its projects provide for the sustainable disposal of waste, reduction of carbon emissions, and the production of clean thermal and electrical energy.

The city engaged Aries to provide a solution for the disposal of the city's biosolids and generate renewable energy from both biosolids and wood waste. Aries proposed and constructed a 32-ton per day downdraft gasification plant that would divert waste wood from the landfill and biosolids from land application for its fuel. The plant would generate enough electricity behind the meter to offset a third of the city's wastewater treatment plant's energy bill.

"A benchmark like this is additional validation that our patented technology is the best way to reduce disposal costs and produce green electricity behind the meter," said CEO Greg Bafalis. "Gasification can be a step toward zero landfill goals and a cleaner earth overall."

The Aries Clean Energy downdraft gasification system yields waste, energy, and emissions benefits for Lebanon, Tennessee: