



City of Dayton reduces carbon emissions, raises revenue

-Water reclamation plant now produces, sells renewable natural gas-

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New systems now in use at the City of Dayton Department of Water's Guthrie Road reclamation plant will dramatically reduce the City's carbon footprint and earn revenue through the sale of renewable natural gas.

Through collaboration with a private firm, DTE Biomass Energy, the water reclamation facility is capturing processed digester gas that was previously burned, allowing production of natural gas suitable for sale.

Throughout the past year, DTE installed technology and infrastructure needed to convey the digester gas to its off-site treatment facility, where the gas is cleaned to produce pipeline-quality natural gas.

Dayton's water reclamation facility accepts millions of gallons of wastewater daily from residential, business, and industrial customers throughout Dayton and parts of Montgomery County. The water reclamation facility uses anaerobic digestion, a process that uses microbes to break down organic waste, to stabilize wastewater solids and generate biogas (digester gas) as a by-product.

The biogas is composed of methane, carbon dioxide, and trace amounts of other gases, which were previously burned to heat the digesters and other buildings at the water reclamation campus. Excess gas was burned by a flare. With the addition of the new equipment and infrastructure, all biogas is now captured and treated by DTE for sale as natural gas.

Through capturing the gas instead of flaring, the renewable natural gas operation will result in a 50% reduction in carbon emissions by City of Dayton municipal facilities.

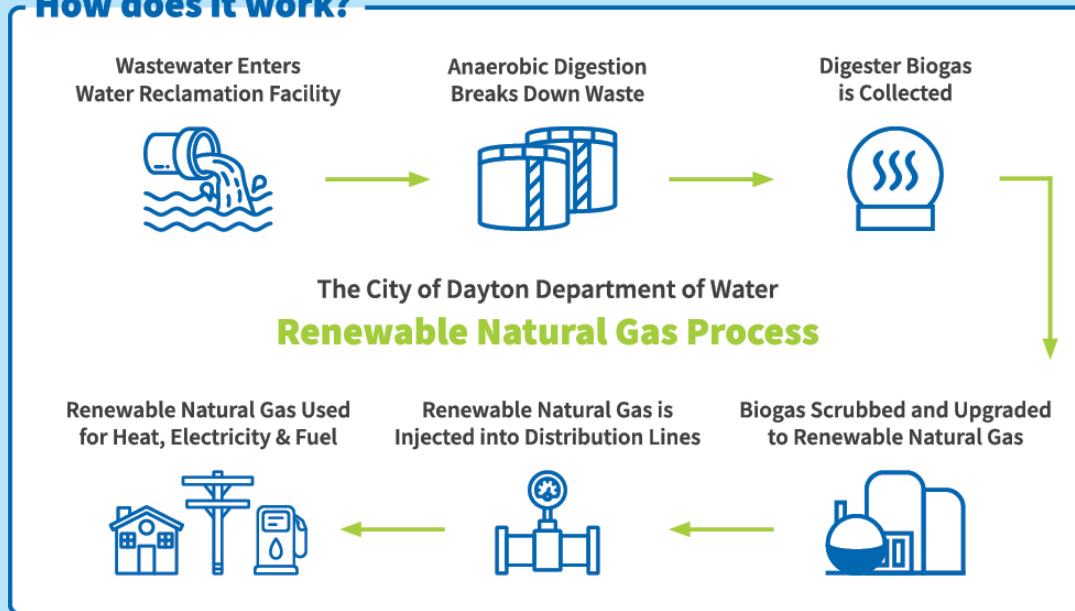
Estimated Department of Water net revenue is \$800,000 annually for the length of the 20-year contract, for a total of \$16 million (depending on market conditions).

"The City of Dayton is proud to launch a sustainability-focused innovation that will result in enhanced financial performance and reduced environmental impact," said City Manager Shelley Dickstein.

###

Turning Wastewater into Renewable Energy

How does it work?



Key Benefits

- CREATES CITY OF DAYTON **\$800,000 ANNUAL REVENUE STREAM**
- 50% REDUCTION** CARBON FOOTPRINT AT CITY OF DAYTON FACILITIES
- ONE OF THE FIRST** MUNICIPAL WASTEWATER-DERIVED RENEWABLE NATURAL GAS PROGRAMS
- ACHIEVES KEY** SUSTAINABILITY GOAL DAYTON CITY COMMISSION

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