

BioCNG Harnesses Landfill Gas for Dane County Fleet

In Dane County, Wisconsin, a new BioCNG filling station located at the county's Rodefeld Landfill is turning even more trash into Renewable Compressed Natural Gas (biomethane). Dane County Executive Joe Parisi, said the station is part of the county executive's "CNG by 2023" effort to expand the county's use of the cheaper, cleaner, homegrown fuel over the next 10 years.

The new filling station will more than double the CNG generation of the county's existing facilities at the landfill from 100 gallons of gasoline equivalent (GGE) per day up to a capacity of 250 GGE per day. The new station will also increase fuel storage more than six-fold.

The BioCNG generated at the landfill costs the county the gasoline equivalent of \$1.25 a gallon to fill up its fleet. The roughly USD 0.5 million station was funded in part by a State of Wisconsin Office of Energy (SEO) grant totaling \$150,000.

The county's switch to CNG has offset the use of approximately 25,000 gallons of diesel and gasoline, saving county taxpayers roughly \$50,000 annually. These savings continue to grow as more CNG vehicles are added to the fleet.

An additional \$28,800 was recently awarded to the county from the SEO to cover half the cost of five new CNG vehicles for the county, bringing the total CNG fleet to 30.

To further increase CNG use in the fleet, the county ordered four snow plows that would run on CNG generated at the county landfill. Dane County would be the first to use this innovative equipment on large snow plows that could hit the roads as soon as this winter.

At the direction of the county executive, staff will also begin work with a planning firm to explore the possibility of completely converting the entire county vehicle fleet to natural gas within the next 10 years. The strategic plan will look at all aspects of this opportunity, including vehicles, infrastructure, fueling stations, maintenance, training, and costs.

BioCNG, LLC is the co-inventor of the patent-pending BioCNG™ biogas conditioning system, which economically produces biogas-based fuel for compressed natural gas (CNG) vehicles.

(Source: BioCNG)



ANGI CNG systems deliver renewable natural gas from the Rodefeld Landfill site.



The Rodefeld facility