

Alternative Energy Using Biogas Avoids Flaring

Challenge

The City of Burbank California was flaring unutilized landfill gas into the atmosphere. Through a joint effort between Burbank Water and Power and City of Burbank's Public Works department, investigation began into the most effective way to utilize landfill gas as a means to generate renewable energy.

Ingersoll Rand Energy Systems was chosen as a provider of clean reliable microturbine systems for the Burbank Landfill Project. Gas that is naturally produced at the landfill as trash and waste decomposes is used as the fuel source to generate the electricity in the microturbine. The electricity is then exported to the City of Burbank as renewable power.

Solution

A single Ingersoll Rand MT250 microturbine provides 250 kW of round the clock power for export to the City of Burbank. As a result homes and businesses in the Burbank area benefit from the use of renewable energy.

Benefits

With installation of the MT250 microturbine, Burbank affirms its' commitment to renewable energy and environmental stewardship. The City of Burbank benefits by adding a landfill gas to energy project utilizing microturbine technology to their Renewable Portfolio Standard. The city's goal is to be 20% renewable by 2017, and the Ingersoll Rand microturbine is helping to contribute to this goal.

Results

Annual Emissions: California ARB Waste Gas Certified for operation on landfill gas

Energy Savings: \$200,000/year in energy savings

Renewable Portfolio Standard: 250 kW towards Burbank's overall renewable energy goals



Burbank's landfill is located in the Verdugo Mountains in the northeastern portion of the City. As the site is estimated to be an active landfill for the next 50 years or more, the City of Burbank didn't want to waste any opportunities with a guaranteed and free fuel source. The 250 kW of clean renewable power from the Ingersoll Rand microturbine provides enough power to feed approximately 225 homes.

250 kW microturbine at Burbank Landfill

For more information, contact your local Ingersoll Rand office or email power@irco.com

©2009 Ingersoll Rand Company

Certain Ingersoll-Rand Energy Systems products were developed with the assistance of the Gas Technology Institute (formerly Gas Research Institute), Southern California Gas Company and New York Gas Group. This document comprises a general overview of the products or services described herein. It is solely for informational purposes, does not represent a warranty of the information contained herein and is not to be construed as an offer to sell or a solicitation to buy. Ingersoll Rand Energy Systems reserves the right to modify its products and related product information at any time without prior notice.