

# CASE STUDY

## IRIS GLEN LANDFILL GAS TO ENERGY FACILITY PROVIDES ENERGY FOR THE MOUNTAIN HOME, VETERANS ADMINISTRATION HOSPITAL

### IRIS GLEN LANDFILL GAS TO ENERGY FACILITY JOHNSON CITY, TENNESSEE



“This project is a tremendous credit to the foresight of the City, to the active involvement of the Mountain Home Veterans Administration as end-users of the ‘green’ energy, and to the innovative, technical approach by our partner, Energy Systems Group.”

**Phil Pindzola,**

*Director of Public Works, City of Johnson City, TN.*

### PROJECT BACKGROUND

Energy Systems Group (ESG) designed, engineered, installed and funded the innovative Iris Glen Landfill Gas to Energy Facility in Johnson City, Tennessee. ESG also continues to operate and maintain the facility. Processed landfill gas is transported through a four (4) mile dedicated pipeline built and operated by ESG to the Mountain Home Veterans Administration Hospital. This project serves two main clients and over 2,000,000 square feet of facilities with waste to energy gas.

The landfill gas is used as a one-for-one replacement of natural gas which is used to generate steam, electricity and chilled water for the VA complex.

ESG was one of the first companies to utilize this innovative gas clean up technology to process landfill gas into a high quality natural gas resource. The project has won several awards and national recognition.

- Solid Waste Association of North America (SWANA) Bronze Excellence in Solid Waste Management Award in Landfill Gas Utilization
- 2007 Governor’s Award for Excellence in Energy Leadership
- Landfill Methane Outreach Program (LMOP) 2007 Project of the Year Award

### STRATEGIES & SOLUTIONS

This project is one of the most effective applications of waste to energy technology developed in the country and is becoming a model for other projects to follow. The project has won numerous awards and national recognition.

This innovative project is being funded entirely by ESG with no cost or debt to the City of Johnson City, TN. The anticipated annual revenue to the city is approximately \$500,000+ per year and this amount will grow over the life of the project.

### Key Installed Waste to Energy Processing Technologies included at the Iris Glen Landfill Gas to Energy Facility:

- Four miles of underground gas pipe
- Automated metering technology
- Digital control/supervision of the entire system



### ABOUT ENERGY SYSTEMS GROUP

ESG is an award-winning energy services company that provides its customers with innovative energy efficiency, technology, and long-term financing solutions for modernization of their facilities and energy infrastructure.



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