ENER-CORE

CASE STUDY: ENER-CORE POWERSTATION AT U.S. ARMY BASE LANDFILL FORT BENNING, GA

TRANSFORMING LOW-BTU LANDFILL GAS INTO CLEAN ONSITE POWER

THE CHALLENGE:

A closed U.S. Army Base landfill was experiencing problems with fugitive methane, and its fuel quality was low, ranging from 15-30% methane. The Army sought a technology that could help shut off the existing flare and handle fugitive methane problems.

THE SOLUTION:

The 250kW Ener-Core Powerstation FP250 became the perfect solution, transforming previously unusable low-Btu biogas into a source of onsite electricity for the Army base.

The FP250 was selected for the U.S. Department of Defense's Environmental Security Technology Certification Program (ESTCP) to demonstrate a cost effective, environmentally beneficial technology.

A key partnership between DoD's Environmental Security Technology Certification Program (ESTCP), Southern Research Institute (SRI), and Ener-Core.

THE RESULTS & BENEFITS:

Since commissioning in 2011, the Ener-Core Powerstation has been generating 250kW of clean electricity with the following achievements:

- Complete Flare Shutdown
- Runs on 15-30% Methane
- Less than 1 ppm NO_x emissions
- No H_2S or Siloxane Removal
- Tolerates Grid Fault Transients
- Transitions to standby mode, continues operation for up to 5 minutes without gas supply as grid re-establishes connection

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