JESSE DRAKE *Project Manager*

PROFILE

Jesse Drake is a project manager at ENERGYneering Solutions, Inc. (ESI). As project manager, Jesse is involved in all stages of a LFGTE project from feasibility study to startup. Jesse has successfully overseen design, construction, and engineering for 5 LFGTE facilities. Most notably he managed the proposal, design, permitting, construction and startup of a LFGTE facility that provides power to the Marine Corps Air Station Miramar.

EDUCATION

BS, Mechanical Engineering, University of Nebraska, Lincoln, NE, 2010

AFFILIATIONS

American Society of Mechanical Engineers

PROFESSIONAL EXPERIENCE

LANDFILL GAS-TO-ENERGY EXPERIENCE

Professional Service Capabilities

- Budget and Schedule Development
- Preliminary Design
- Detailed Design
- Construction Management
- Startup Assistance
- Operations Assistance

Reciprocating Engines

- CAT 3520
- CAT 3516

Alternative Prime Movers

- Stirling Cycle Engines
- Steam Engines

TECHNICAL EXPERTISE

- Software
  - AutoCAD
  - Solidworks
  - Microsoft Office (Word, Excel, Project, etc.)
  - Google Sketchup

SAMPLE PROJECTS

LANDFILL GAS-TO-ENERGY PROJECTS

- Miramar LFGE Facility, San Diego, CA
  Design and construction management of expansion of a 3.28MW facility to 6.48MW facility by expanding the existing four Tandem CAT3516s facility with two CAT3520s, integrating existing system into expansion for better operation and control. Dedicated power feed to Marine Corps Air Station Miramar.
- Lincoln LFGE Facility, Lincoln, CA
  Construction management of expansion of a 2.46MW facility to 4.92MW facility by expanding existing three CAT3516 facility with three CAT3516s and incorporating enhanced use of space and equipment to aid in the operation and maintenance of the facility.
- Sand Valley LFGE Facility, Collinsville, AL
  Designed new 4.8 MW LFGE Facility utilizing three CAT3520s.

SAMPLE PROJECTS *(continued)*

- Otay LFGTE Facility, Chula Vista, CA:
  Design, construction management, and operational support of the expansion of a 3.2 MW LFGTE facility to a 10.6MW facility.