





# Fuel Cell Success Stories

Keith A Spitznagel  
Senior VP, Marketing  
LOGANEnergy Corporation



**GovEnergy**  
[www.govenergy.gov](http://www.govenergy.gov)



# Successful Fuel Cell Projects

- What Makes a Successful Fuel Cell Project:
  - Meets Original Objective
  - Enthusiastic Participants
  - Good Site Characteristics
  - Cooperative Equipment



# Successful Fuel Cell Projects

- Project Objective
  - Testing and Research
  - Demonstration
  - New Application
  - Specific Site Need
  - Economic Justification



# Successful Fuel Cell Projects

- Enthusiastic Participants
  - Host Site
  - Vendors
  - Contractors
  - Code Officials



# Successful Fuel Cell Projects

- Good Site Characteristics:
  - Fuel Quality and Quantity
  - Grid Stability and Quality
  - Accessibility
  - Adequate Space
  - Short Runs to Interfaces



# Successful Fuel Cell Projects

- Cooperative Equipment
  - Reliability
  - Availability
  - Reparability



# USMC Camp Pendleton

- China Lake Naval Air Warfare Center
- Two 250 kilowatt carbonate fuel cells
- Electricity into main base grid
- Thermal energy into central galley



# USMC Camp Pendleton





# USMC Camp Pendleton

- Congressional set-aside
- Demonstration of technology
- Good team
- Good site
- Good equipment



# Guaranteed Savings Bldg

- Commercial real estate developer
  - US GSA Major Tenant
- Three 200 kilowatt PAFC fuel cells
- Electricity into building – grid parallel
- Grid independent capability
- Thermal energy into adsorption chiller



# Guaranteed Savings Bldg





# Guaranteed Savings Bldg

- Commercial transaction
- Multiple drivers
- Some team issues
- Very good site
- Very good equipment



# FAA – Sandersville Airport

- Army Corps of Engineers – ERDC/CERL
- One 5 kilowatt PEM fuel cell
- Back-up power for communication shed
- DC power only
- Strenuous Testing Protocol



# FAA – Sandersville Airport





# FAA – Sandersville Airport

- Demonstration and Testing
- Performance Reports
- Very good team
- Good site
- Good equipment



# US Postal Service - Merrifield

- Honeywell Federal Energy Solutions
- One 200 kilowatt PAFC fuel cell
- Combined Heat and Power
- Grid Parallel Interface
- with Heat Recovery



# US Postal Service - Merrifield





# US Postal Service - Merrifield

- ESCO Contract
- Good team
- Good site
- Good equipment



# For More Information

- Would you like to know more about this session?
- Keith Spitznagel
- LOGANEnergy Corporation
- Roswell, Georgia
- [kspitznagel@loganenergy.com](mailto:kspitznagel@loganenergy.com)

Don't forget to fill out and drop off your session evaluations!