



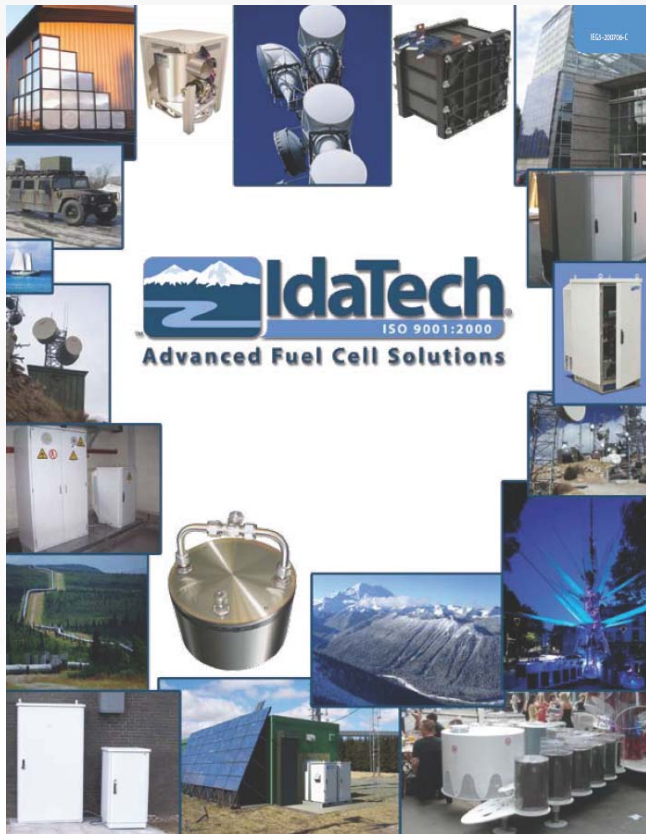
# Powered by IdaTech

*IdaTech's Family of Reliable Backup Power Systems*

Presenter: John Lewis, PhD

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*IdaTech is a global leader in the development of extended run backup power fuel cell systems*



- World class energy technology company focused on the commercial deployment of PEM fuel cell products
- Founded in 1996, in Bend, Oregon, USA
- Wide range of fuel processing capabilities to produce high purity hydrogen from a variety of fuels
- Market- and application-driven fuel cell solutions for backup power and industrial remote power applications
- Deploying systems worldwide with partners in North America, South America, Europe and Asia



*Corporate Headquarters  
Bend, Oregon*

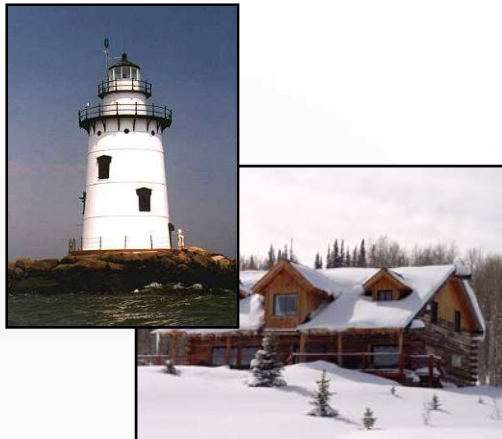
- Headquartered in Bend, Oregon, USA
- Manufacturing facility in Tijuana, Mexico
- Field service and sales office in Herten, Germany



*German Office  
Herten, Germany*



*Manufacturing Facility  
Tijuana, Mexico*



Industrial Remote  
Power



Industrial UPS



Telecommunications  
Critical Backup/  
Emergency Power

**Customer Driven Solutions**  
**ElectraGen™ Backup Power Systems**  
**ElectraGen™ XTR Module**  
**ElectraGen™ XTi Integrated System**  
**iGen™ Power System**



Battery Charging & Military

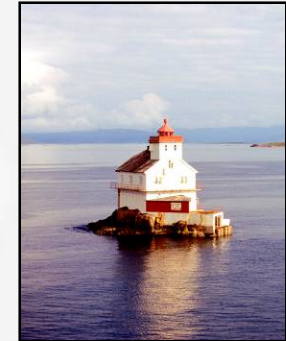


Refueling, Hydrogen Purification



- Liquid fueled 250 watt fuel cell system
- CE certified
- Autonomous operation with remote monitoring capabilities
- Robust solution available in 12 VDC or 24 VDC
- Commercially available for industrial applications

## Example End Markets



## **IdaTech's systems are easy to integrate into off-grid hybrid applications to provide solutions with:**

- Very low emissions and quiet operation
- Reduced operating costs
- Increased fuel efficiency
- Remote monitoring capabilities
- Fuel consumption management system

*Using a patented system design, IdaTech is able to develop customized hybrid solutions integrating its fuel cell systems with renewable energy sources such as wind and solar*



## Fuel cell/solar hybrid system installed in for traffic network application

- Backup power to highway information network and video system
- Provides key information to drivers in the event of road way incidents through radio broadcast or roadside message boards
- Improves safety on highway by providing emergency responders and police with information on road way incidents



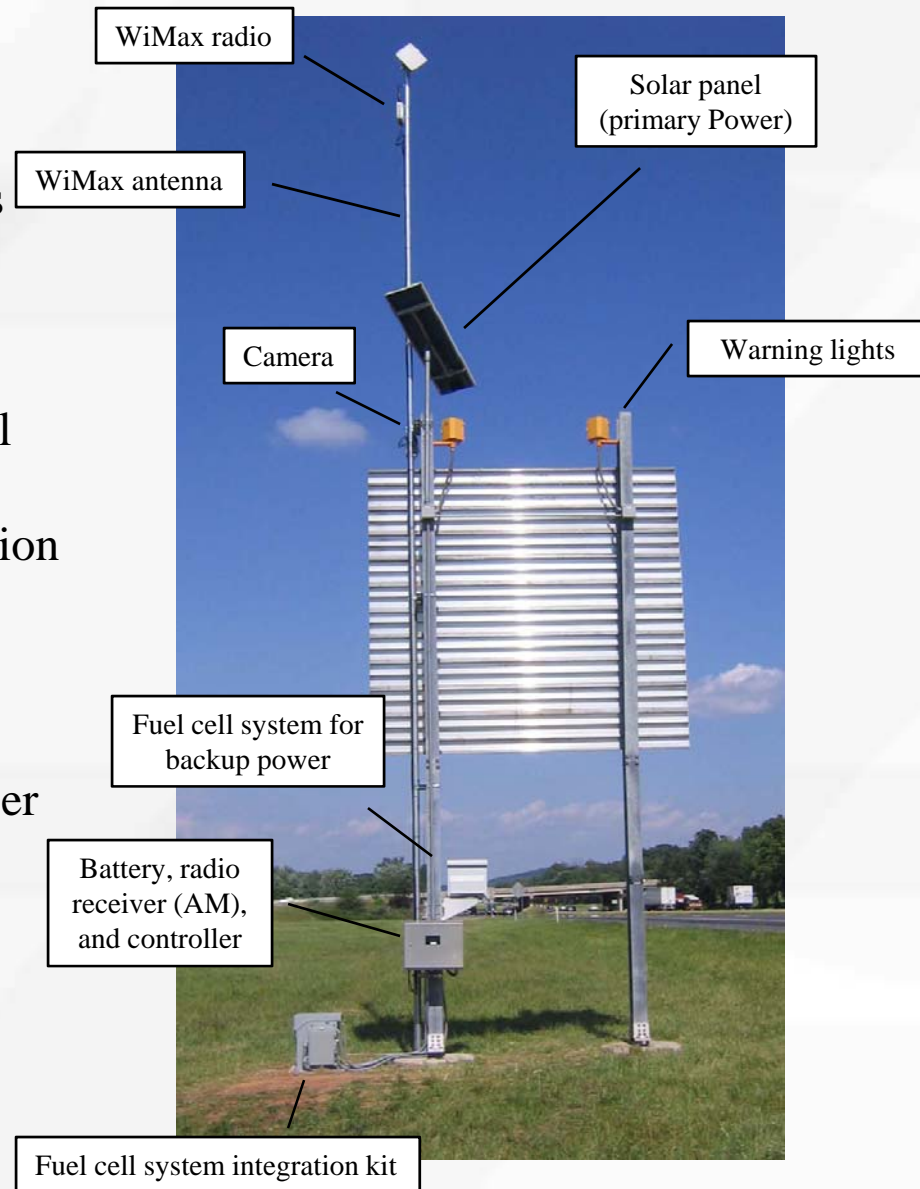
# Hybrid System - Installation

## Features:

- Provides critical power to highway communications and information networks
- Operates on liquid fuel to automatically charge batteries in event of grid or solar system failure
- Remote communication and control of fuel cell system
- Convenient standardized turn-key installation of integrated system

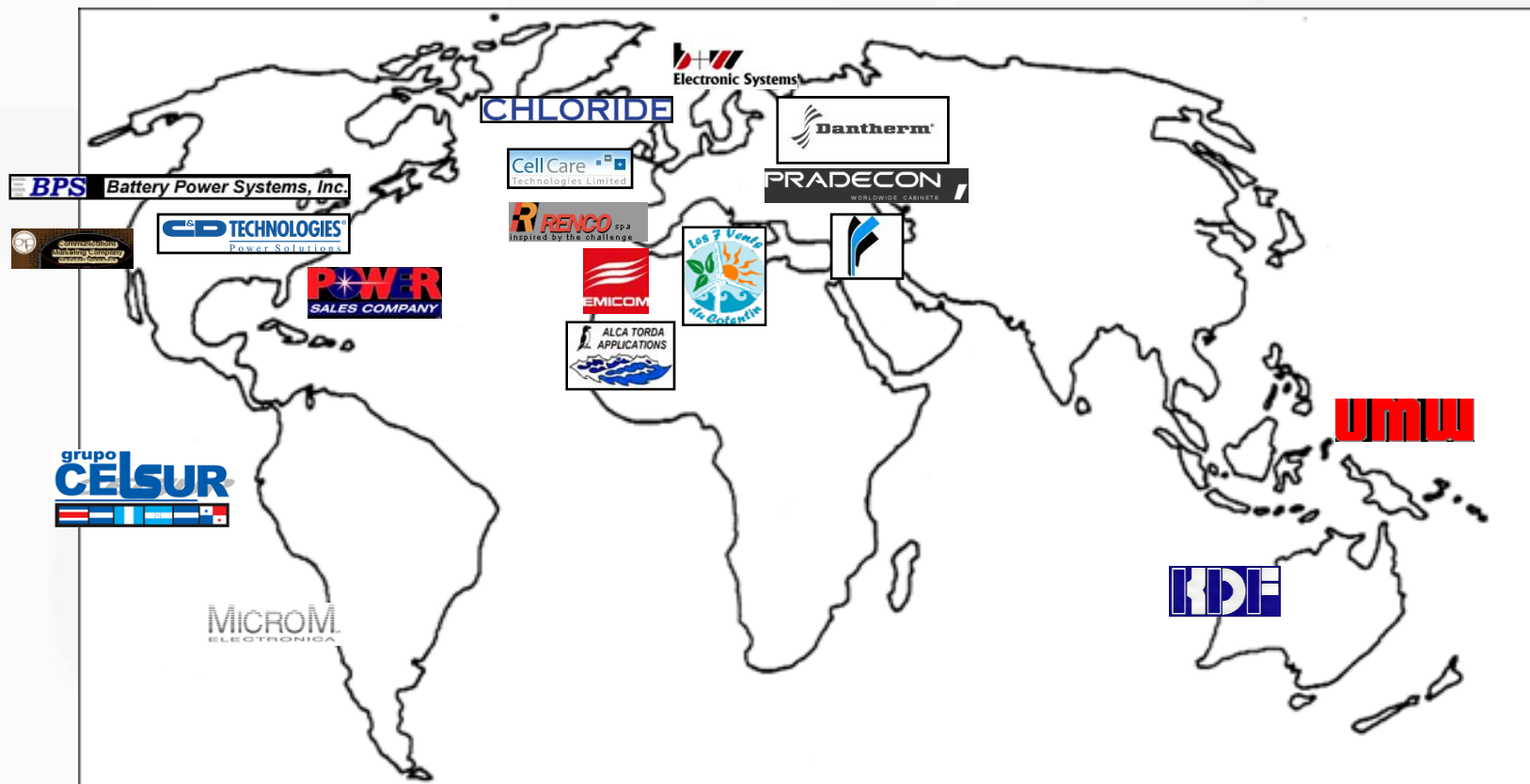
## Benefits:

- Allows more than 90 hours of backup power
- Provides dependable backup power in any weather
- Ensures flow of real time data to highway managers, emergency professionals and motorists



# Worldwide Partners

# Worldwide Distribution Partners



### Countries/regions covered:

USA, Mexico, Argentina, Puerto Rico, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, Panama, Caribbean

### Countries/regions covered:

UK, Germany, France, Spain, Italy, Portugal, Turkey, Greece

### Countries/regions covered:

Australia, New Zealand, Singapore, Malaysia

IdaTech has a large fuel supplier network including Brenntag, Airgas and Hayman. IdaTech is pleased to provide their customers with an increasingly simplified fuel supply chain for their family of fuel cell systems.



- IdaTech partners with large companies and government agencies to develop application-specific products.
- These products range from research and development to design and deployment.

IdaTech has an unmatched family of diverse power solutions for multiple applications:

- Extended-run backup power capabilities
- Operation on renewable fuels
- Proven remote hybrid capabilities
- Indoor and outdoor applications
- Wide range of power outputs (100 watts to 15 kW<sub>e</sub>)

IdaTech is a top-tier fuel cell company working with industry-leading partners to develop and deploy fuel cell solutions worldwide

Thank you.

Questions?