

PUBLIC SAFETY AND FIRSTNET DESERVE MODERN BACKUP POWER TECHNOLOGY

The only fully integrated hydrogen fuel cell solution designed with long runtimes

During emergencies, public safety needs to be able to communicate without interruption – which requires constant, available power even when the grid fails. Backup power is an essential requirement needed to successfully deploy FirstNet’s wireless broadband network. Habitual solutions – batteries and generators – are not up to the task of supporting the redundancy, reliability, sustainability and long runtimes required for the success of this public safety network. Modern, intelligent fuel cell backup power systems deliver the reliability, extended runtime, and flexibility needed for critical infrastructure applications. In addition, fuel cells are also a clean source of power (no greenhouse gas (GHG) emissions) eliminating the noise and air pollution that other forms of power generation create.

Altery’s Freedom Power Public Safety Platform (PSP) is the only fully integrated fuel cell solution on the market today specifically designed for public safety applications. With higher reliability, lower CapEx costs, lower ongoing maintenance costs, and lower total cost of ownership than batteries or generators, Altery fuel cells are the most reliable cost-effective backup solution today, and allow customers to meet sustainability goals.

Altery’s portfolio of public safety backup power solutions delivers a peace of mind during power outages and other emergency situations.

With the largest deployed fleet of hydrogen fuel cells in telecom, Altery is the trusted backup power since 2001.



Altery’s Freedom Power Public Safety Platform (PSP)

- Meets sustainability and climate change objectives
- Produce power with no greenhouse gas (GHG) emission
- Eliminates performance and replacement issues with batteries and generators
- Dual power source in single cabinet
- Low initial capital cost
- Lowest Total Cost of Ownership
- Long runtime solution
- Smallest footprint, highest power density
- SNMPv3 Security Interface
- Made in USA

Altery’s Freedom Power fuel cells provide freedom from:



Modular Fuel Cell Solutions for Multiple Public Safety Applications

Fuel Cell Power System
(suitable for connection with telco hut)



Integrated Radio Cabinet with 48 Fuel Cell UPS



Fuel Cell Power System – 7 day runtime solution



Alteryg's "All-In-One" Integrated Fuel Cell Solutions meets FirstNet's needs

FirstNet's Goals for Network	Alteryg PSP 48 hour solution	Alteryg PSP 7 day solution	Batteries	Generators	Explanation
Redundant backup power for secure, available network.					Alteryg's fuel cell solutions provide redundant backup power sources, no need for any additional power source.
Single site visit installation.					Unlike batteries and generators, Alteryg's fuel cell solutions are factory integrated into one cabinet. Competitive solutions may require many visits.
Solution serves remote and rural areas.					Alteryg's 7 day solution provides security in areas that need more time to recover from natural disasters.
Hardening of network strengthens cell tower sites reliability and security.					Alteryg fuel cells provide the only means to provide power during potential threats to our national security and interface on secure SNMPv3 GUI.
Cost investment necessary for public safety.					Alteryg's fuel cells can reduce total cost of ownership by 50% or more compared to batteries and generators.
Public Safety extends to environmental concerns regarding building additional infrastructure.					Alteryg's fuel cells are a green alternative to dirty diesel engines and hazardous battery disposal.

www.alteryg.com
Tel: 916.458.8590
Email: info@alteryg.com



Public Safety Chooses Altery Fuel Cells



Telecom & Emergency Communications:

- Altery fuel cells used in US government national security application
- Motorola deployed Altery fuel cells at a customer's FirstNet ready site in NYC



Government & Emergency Services:

- Sacramento County (CA) first responders use an Altery fuel cell powered mobile trailer COW (Communication-on-Wheels)
- NASA uses Altery fuel cell powered light carts for launches
- SFO uses Altery powered light carts during critical repairing of airport runways
- Caltrans uses Altery powered light carts on roads to ensure greater public safety



Railroad Signaling:

- CSX chose to replace diesel generators with Altery fuel cells for signal gate crossings
- Union Pacific uses Altery fuel cells for cell tower backup in CA
- Altery fuel cells used for BNSF signaling application



Traffic Intersections:

- City of Alexandria (VA) chose Altery fuel cells to power their busiest intersection
- City of Folsom (CA) looking to roll out more Altery fuel cells at their most critical intersections



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Leading the
Fuel Cell Revolution