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**SPECIAL PURPOSE BATTERIES**

# LEADERSHIP STATEMENT

## » *Mission*

A Special-Purpose Battery company to pursue the development and manufacturing of lithium-based batteries.

## » *Primary Goals of the Company & Vision*

Service government, commercial, and OEM along the line of “niche” product applications.

## » *Supporting Principles*

Provide leading-edge technologies, quality engineering prototypes, and production-ready products.

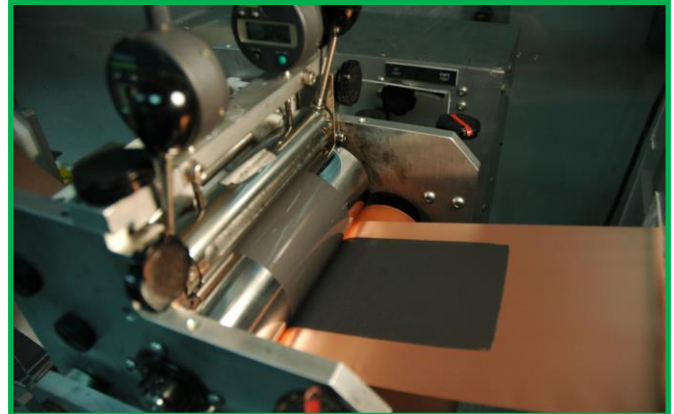
# CORE COMPETENCIES

## » *Technology*

- Li-ion Technology :  
Small and large footprints;  
prismatic and cylindrical
- Battery Management System (BMS)
- Organic-based Li-Reserve Batteries  
(Electronic Fuze)
- Li-Aqueous Technology (Underwater)
- Li-Non-Aqueous Technology

## » *R&D*

- Advanced anodes, cathodes, separators, electrolyte formulations, and packaging



## » *Production*

- Lithium primary, rechargeable, and reserve batteries

## » *Service*

- Concept to Development to Prototype
- Electrochemical testing and performance characterizations
- U.N. & D.O.T. Safety Testing

# PRODUCTS / SERVICES

## OTHER APPLICATION AREAS OF TECHNOLOGY

### » **Scope of Services**

- Research & Development of new battery concepts
- Design and Packaging of Battery assemblies (hardware and pouch)
- Evaluation of new cathodes, anodes, electrolyte, and separators for chemistry compatibility, temperature stability, and storage stability
- Concept to Prototype Build and Demonstration per Customer's Requirements
- Customized Test Fixtures per Customer's Requirements

### » **Product range**

- High Energy Density (HED) Reserve Cells
- 18650 thru D-size Li-Ion and Li Cells
- Small to Large Format Prismatic Wrap
- Small to Large Format Flat Pack Cells
- BB2590 with fully integrated Battery Management System (BMS) with SM Bus 1.1 capability
- BMS Boards for BB-2590 Batteries

### » **Application areas**

- Radios
- Military fuzes
- Unmanned Aerial Vehicles
- Medical
- Satellite
- Soldier auxiliaries
- Sensors



## PROFILE

### » **Management**

In 1995 MaxPower was established and, to-date, its business direction has been successfully guided by the above stated "mission statement." Since the onset of the organization, MaxPower's business segments are comprised of four areas: military, aerospace, OEM, and service. The first 5 years through private investment and government-funded programs, the company's focus has been on creating an "internal" organization strength along the line of "science and technology" and strategically investing in key equipment and facilities. MaxPower operates two facilities, one dedicated to R&D and manufacturing, and one to lithium anode-based primary battery programs.

# CUSTOMERS

## » **Government**

U.S. Navy, U.S. Army, U.S. Air Force, NASA,  
and the Department of Energy

# CORE ADVANTAGE

## » **Employees:**

- 20 Employees
- 8 Ph.D.'s
- 12 B.S.'s

## » **Disciplines:**

Material Science, Chemical and Mechanical  
Engineers, Chemists, Electrochemists, and  
Electronics

## » **R&D Facility:**

- 12,000 sq ft (600 sq ft Dry Room)

## » **Production Facility:**

- 6,000 sq ft (700 sq ft Dry Room)

## » **Security clearance status:**

Selective personnel

## » **Competitive advantage:**

Special-purpose at both R& D and application level

## » **Value proposition:**

Quick turn-around from concept to prototype to  
product



# CONTACT INFORMATION

## » **Management**

- President: Dr. David L. Chua
- Vice-President: Dr. Hsiu-ping Lin

## » **Project Leaders**

- Dr. Benjamin Meyer (R & D and Commercial)
- Ian Kowalczyk (Lithium Batteries)
- Frank Cassel (System)

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