

## **Sion Power Receives DOE Grant to Enhance Lithium Sulfur Batteries**

Tucson, Arizona: Sion Power Corporation has received a three-year, \$800,000, research grant from the United States Department of Energy (DOE). The monies are being used to support Sion's ongoing work to develop a new class of electrolytes used in lithium sulfur (Li-S) batteries for electric vehicle (EV) applications. Sion Power will provide matching funds for this three-year effort.

The project objective is to increase performance of very high energy lithium metal anodes used in rechargeable battery systems. Sion Power will complete development of its unique electrolyte system employing multiple components. While improving lithium conductivity, one component will be optimized to enhance metallic lithium anode performance; another will enhance cathode functionality. The multi-component electrolyte system will enable Sion Power to improve chemical stability leading to improved safety and abuse tolerance.

According to Sion Power's CEO, Dennis Mangino, "We consider the receipt of this grant by the DOE a vote of confidence in the future of our advantaged Li-S rechargeable battery technology. There is no known commercial technology that will be able to match the electric vehicle driving performance enabled by Li-S batteries once targeted hurdles of cycle life and safety are overcome. This grant is key in helping to make that a reality."

Li-S technology already offers significant specific energy advantages over existing rechargeable battery technologies. Sion Power is currently completing development of a range of battery materials which improve Li-S battery life and extend driving range. The higher energy available with Li-S chemistry has the potential to extend significantly driving ranges over that available, or projected, with rechargeable lithium ion (Li-ion) battery technologies by a factor greater than three.

All major automotive manufactures are vigorously pursuing the introduction of electric vehicles that are environmentally friendly yet provide the range and comfort consumers expect in automobiles. These criteria cannot be obtained today with any commercially available battery technology. Sion Power is focused on being the first rechargeable battery company to do so.

### **About Sion Power:**

*Privately held Sion Power Corporation, "The Rechargeable Battery Company™," is the global leader in the development of a new generation of high-energy, rechargeable lithium sulfur batteries for portable power and electric vehicle markets. Sion Power has more than 100 U.S. and international patents and is headquartered in Tucson, Arizona. Further information is available at [www.sionpower.com](http://www.sionpower.com).*