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For Immediate Release: Wednesday, August 21, 2013

ARPA-E Funds Revolutionary Storage Approaches

New \$36 Million "RANGE" Program Seeks to Develop Innovative Electric Vehicle Battery Chemistries, Architectures, and Designs

Washington, D.C. – Advanced Research Projects Agency-Energy (ARPA-E) Deputy Director Cheryl Martin today announced that 22 projects across 15 states will receive a total of \$36 million to develop transformational electric vehicle (EV) energy storage systems using innovative chemistries, architectures and designs. ARPA-E's new program, Robust Affordable Next Generation Energy Storage Systems (RANGE), aims to accelerate widespread EV adoption by dramatically improving driving range and reliability, and by providing low-cost, low-carbon alternatives to today's vehicles.

"The breadth and volume of technology approaches embodied in the RANGE projects demonstrate ARPA-E's commitment to transformational innovation," said Deputy Director Cheryl Martin. "The success of RANGE battery technologies will reshape our thinking on EV storage and help reduce U.S. dependence on foreign energy sources, decrease emissions and help maintain our technological lead in R&D."

ARPA-E's RANGE program seeks to improve EV driving range and reduce vehicle costs by re-envisioning the total EV battery system, rather than working to increase the energy density of individual battery cells. Some of the projects selected will focus on developing robust battery chemistries and architectures that would improve vehicle driving range and overall battery robustness. For example, Solid Power located in Louisville, CO will receive approximately \$3.5 million to develop a solid-state Lithium-ion battery that requires less protective packaging, which reduces cost and overall vehicle weight to improve driving range.

RANGE projects will also focus on multifunctional energy storage designs that use these robust storage systems to simultaneously serve other functions in a vehicle, further reducing an energy storage system's effective and overall EV weight. For example, the University of California, San Diego will receive approximately \$3.5 million to engineer a low-cost, low-weight battery and to redesign vehicle frames so the battery becomes an integral part of a vehicle's support structure.

Information on all RANGE projects announced today is available [HERE](#).

ARPA-E was officially authorized in 2007 and first funded in 2009. The Agency invests in high-potential, high-impact energy technologies that are too early for private-sector investment. ARPA-E is changing what's possible by thinking big, thinking bold, and thinking differently about energy innovation. For more information on ARPA-E and its innovative project portfolio, please visit <http://www.arpa-e.energy.gov/>.

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