News Release

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Missouri Solar Energy Industries Association Conference Highlight Link Between Electric Vehicles and Solar Energy

KANSAS CITY, Mo., June 25, 2012 --- Two forces in green technology will converge next Monday when the Missouri Solar Energy Industries Association (MOSEIA) hosts its first-ever Midwest Electric Vehicle Buildout, a professional development event covering topics ranging from electric vehicle transportation infrastructure and grid-tied solar photovoltaic integrated electric vehicle charging stations.

The event, which will be held from 9 a.m. to 3 p.m. at the Mid America Regional Council (MARC) offices in Kansas City, will feature remarks by EV World Editor Bill Moore, Mercy Davison, city planner, Normal, Ill., Jack Hackathorn, energy solutions manager, Kansas City, MO.-based Milbank Manufacturing, and Ruth Redenbaugh, project manager, Electrify Heartland.

"Zero emission vehicles and zero emission energy technologies are natural partners and we are excited to bring stakeholders from all facets of industry together to discuss ways to use renewal energy to power electric vehicles," said Heidi Schoen, Executive Director, MOSEIA. "Electric vehicles are the only vehicles on the road that get 'greener' the longer you operate them."

Schoen cites an increasing number of solar-powered electric vehicle charging stations (also known as electric vehicle supply equipment or EVSE) as evidence that green technologies increasingly are being linked together to ensure a cleaner utility grid and reduce emissions from carbon-based fuels from vehicles and power plants alike. Recent developments in the region include:

- At the University of Kansas, the KU EcoHawks have built a solar energy filling station on campus consisting of six 180W solar panels that enable electric vehicle charging. Kansas

State University is moving toward a study of solar charging of electric vehicles in a micro-grid using innovative power electronics design.

- Kansas City, Mo.-based Brightergy's installation of a 169kW solar array atop a public parking garage in Clayton, Mo. that will provide the power for the city's new police station and parking garage. While there are currently no plans to install EVSE at that location, the array is an excellent example of how parking structures' large surface areas are ideally suited for solar energy solutions.Kansas City, Mo.-based Premier Carports offers pre-engineered carports that include solar.
- Also in Kansas City, Mo., Milbank Manufacturing, long active in electrical metering systems, is now manufacturing and marketing EVSE and solar equipment.
- Overland Park, Kan.-based Chevron Energy Solutions offers to run empty conduit underground from AC switchgear to the base of carport columns, allowing easier retrofit of EV chargers at a later date.

Across the U.S., several companies are addressing the photovoltaic carport market, which is a market that could be tied to the electric vehicle charging market, and several organizations already have installed solar-powered EVSE. Installations include:

- Edison, N.J.-based SunDurance Energy and Solaire Generation, based in New York City, offer a solar parking lot canopy for installations such as the 120kW system installed at the New Jersey Meadowlands Commission headquarters in Lyndhurst, N.J.
- Western Michigan University's installation of Dublin, Ga.-based MAGE SOLAR's 50kW solar photovoltaic installation linked to 15 electric vehicle charging stations on its Kalamazoo, Mich. Campus.
- Maryland-based Advanced Technology & Research Corporation's development of a GPS-based sun-tracking technology capable of producing 30 to 45 percent more power than traditional rooftop or canopy-mounted solar panels, making them ideal power sources for EVSE, including one recently installed in Columbia, Md.
- A partnership between the Tennessee Valley Authority (TVA) and the Electric Power Research Institute (EPRI) that installed six "solar-assisted" electric vehicle charging stations connected to battery-packs and delivering 3.3 kW per hour, enabling an electric car to recharge at a rate of 10 miles per hour.

- IBEW Local 191's installation of a solar-powered electric vehicle charging station at the union's joint apprenticeship training center (JATC) in Mount Vernon, Wash.

Other companies offering solar-powered EVSE solutions include:

- The Tucson, Ariz. operations of Schletter, a German company, is promoting Park@Sol©, an engineered solar carport product with a variety of foundation options and scalability from one unit to much larger areas.
- Baja Construction, Inc. with several U.S. locations, has become somewhat specialized in offering Solar Carports, Solar/EV Charging Stations, Solar Truck Bays and Solar RV/Boat Storage.
- Demand Energy Networks, Liberty Lake, Wash., has parking lot installations of photovoltaic-powered EV charging combined with about 30kW of solar power and 100kW of energy storage.
- Inovateus Solar, South Bend, Ind., has several vendor partnerships to build solar carports with EV charging stations and are active in the Midwest.

"Each of these innovations demonstrate the future of electric vehicle charging as government, business and industry join forces to create greener energy solutions for our country," said Schoen.

Reservations for the MOSEIA Midwest Electric Vehicle Buildout are available for $40 and include lunch and an EV Joy Ride. For more information contact Heidi Schoen at (314) 677-4076 or HeidiSchoen@moseia.org.

About MOSEIA

Solar industry leaders from across the state met in Columbia in early June, 2009 to form the industry trade association MOSEIA (Missouri Solar Energy Industries Association). MOSEIA aims to increase market growth for the solar industry in the state of Missouri. The group's formation is in large part a response to the passage of Proposition C, the Clean Energy Initiative, which Missourians passed during November 2008 election with an overwhelming 66 percent of the vote. Proposition C mandates 15 percent of the electricity produced by Missouri investor owned utilities (IOUs) comes from renewable sources by 2021, two percent of which must come from solar photovoltaics.

Industry professionals predict as much as 150 megawatts of new solar development in Missouri, enough energy to power 15,000 homes, as a result of the measure. In addition, Proposition C includes a solar rebate requirement that will refund $2.00 per installed watt (roughly 20 percent of an installed system's price) for Missourians who install on their homes or businesses in investor owned utility territory. Coupled with new federal tax incentives, electricity generating solar photovoltaics are more affordable than ever in Missouri, and the industry is expected to grow quickly. The solar industry is well positioned to meet that demand, producing Missouri jobs, supporting small businesses, and growing our local economies.

About Electrify Heartland

Electrify Heartland is an electric vehicle planning project managed by Metropolitan Energy Center that will create a replicable plan for electric vehicle and charging infrastructure preparedness in Greater Kansas City; Wichita, Salina, Topeka and Lawrence, Kan.; and Jefferson City, Mo. Electrify Heartland is funded by U.S. Department of Energy Award EE-0005551, "Kansas – Missouri Community Readiness for EV and EVSE" and is a product of the Greater Kansas City Plug-In Readiness Initiative. Electrify Heartland is led by a Steering Committee comprised of members from MEC, Black & Veatch, Polsinelli Shughart PC, IBEW Local 124, the Kansas City Joint Apprenticeship and Training Center, Kansas City Kansas Community College, Johnson County Community College and the University of Missouri-Kansas City.

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