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**FOR IMMEDIATE RELEASE**

November 30, 2012

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**TEAM LED BY ARGONNE NATIONAL LAB SELECTED AS DOE'S BATTERIES AND ENERGY STORAGE HUB**

*Mayor Emanuel Joins Energy Department in Announcement That Team to Receive up to \$120 Million Over 5 Years*

Mayor Rahm Emanuel was joined today by U.S. Secretary of Energy Steven Chu, Senator Dick Durbin, Illinois Governor Pat Quinn, University of Chicago President Robert J. Zimmer, and Argonne National Laboratory Director Eric Isaacs to announce that a multi-partner team led by Argonne National Laboratory has been selected for an award of up to \$120 million over five years to establish a new Batteries and Energy Storage Hub. The Hub, to be known as the Joint Center for Energy Storage Research (JCESR), will combine the R&D firepower of five DOE national laboratories, five universities, and four private firms in an effort aimed at achieving revolutionary advances in battery performance. Advancing next generation battery and energy storage technologies for electric and hybrid cars and the electricity grid are a critical part of President Obama's all-of-the-above energy strategy to reduce America's reliance on foreign oil and lower energy costs for U.S. consumers.

"Since taking office, I have been focused on making Chicago the electric vehicle and batteries capital of the nation," said Mayor Rahm Emanuel. "This includes creating incentives to encourage the adoption of electric vehicles, attracting companies to manufacture electric vehicles, and now, working with Argonne to make sure that Chicago is at the epicenter of research on this subject. All of these pieces fit together into a comprehensive strategy that will allow Chicago to lead in this industry, from conception to construction to implementation. I will continue to work to attract more companies, create more jobs and foster more economic development in this crucial space."

"This is a partnership between world leading scientists and world leading companies, committed to ensuring that the advanced battery technologies the world needs will be invented and built right here in America," said Secretary Chu. "Based on the tremendous advances that have been made in the past few years, there are very good reasons to believe that advanced battery technologies can and will play an increasingly valuable role in strengthening America's energy and economic

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security by reducing our oil dependence, upgrading our aging power grid, and allowing us to take greater advantage of intermittent energy sources like wind and solar.”

“This new Hub brings together, under a single organizational roof, the world’s leading scientists, engineers and manufacturers in energy storage and provides them with the tools, resources and market reach necessary to produce major breakthroughs,” said U.S. Senator Dick Durbin. “The large-scale, innovative research and transformational new battery systems that will result from this venture will mean more effective, lower cost and longer life energy storage technologies with real world applications for anything that can use a rechargeable battery. The project promises to have a significant economic impact across Illinois with the help of towns and businesses who have already agreed to partner on the commercialization of promising technology developed at the Hub.”

“The research at the Energy Storage Hub has the potential to revolutionize the energy industry,” said Senator Kirk. “From transportation to the electric grid, the Hub will bring the private sector, national labs and universities together to deliver new technologies and scientific approaches needed to transform the battery and energy storage industry and spur commercial innovation. The Hub at Argonne will help boost our local economy and create new jobs. Today's announcement further establishes Illinois and Argonne as a leader in this growing industry.”

Governor Quinn is providing \$5 million through his Illinois Jobs Now! capital construction plan to help build the state-of-the-art JCESR facility, which will be located on the Argonne National Laboratory campus in suburban Chicago. Additionally, the Governor has committed to working with the General Assembly to provide an additional \$30 million in future capital funding for the building, which will serve as a nationwide center for energy storage research and is a key part of the governor’s plan to create jobs and grow Illinois’ economy through cutting-edge innovation.

“Illinois is the birthplace of innovations that have changed the world, including the web browser, the cell phone and the ultrasound,” Governor Pat Quinn said. “As I said during my State of the State address, this innovative center will attract the best minds from across our state and country to turn cutting-edge scientific research into new companies that will create more American jobs and revolutionize our energy economy.”

"Argonne has a long tradition of exceptional leadership on energy research, and the DOE's selection of Argonne for this exciting project will cement its role as the nation's leading facility for advanced battery technology," said Representative Judy Biggert (IL-13). "Most importantly, this project will give scientists and researchers the best environment in which to develop the next generation of energy storage to power our homes, cars, and industries in the decades to come. I applaud the team at Argonne on winning the project, and I thank my colleagues from across the Midwest who worked with us to make it happen."

"This award sets up Argonne National Laboratory to be the world leader in an emerging field that will promote American energy independence, make green energy more available and affordable, and grow manufacturing in the region," said Representative Dan Lipinski (IL-03). "I believe this new facility will bring a significant return on the investment for our nation and especially for the communities around Argonne."

The new Hub will integrate efforts at several successful independent research programs into a larger, coordinated effort designed to push the limits on battery advances. Advancements in batteries and energy storage technology are essential for continued efforts to develop a fundamentally new energy economy with decisively reduced dependence on imported oil.

Improved storage will be vital to fully integrating intermittent renewable energy sources such as wind and solar into the electrical grid. It will also be critical to transitioning the transportation sector to more flexible grid power.

JCESR (pronounced "J-Caesar") will be directed by George W. Crabtree, Argonne Senior Scientist, Distinguished Fellow and Associate Division Director; Distinguished Professor of Physics, Electrical and Mechanical Engineering, University of Illinois at Chicago; and an internationally recognized leader in energy research.

"The JCESR batteries and energy storage hub gives us a new collaborative, inter-institutional R&D paradigm in which to develop the energy storage technologies that transform both the electricity grid and transportation and so reduce our dependence on foreign oil," said Eric Isaacs, Director of Argonne National Laboratory.

The Hub will bring together some of the most advanced energy storage research programs in the U.S. today. Other national labs partnering with Argonne include Lawrence Berkeley National Laboratory, Pacific Northwest National Laboratory, Sandia National Laboratories, and SLAC National Accelerator Laboratory. University partners include Northwestern University, University of Chicago, University of Illinois-Chicago, University of Illinois-Urbana Champaign, and University of Michigan. Four industrial partners have also joined to help clear a path to the marketplace for the advances developed at JCESR, including Dow Chemical Company; Applied Materials, Inc.; Johnson Controls, Inc.; and Clean Energy Trust.

"This ambitious initiative, which builds on Argonne National Laboratory's innovative work in advanced battery technology, will create new opportunities for technological research and economic development in the city of Chicago and the region," said Robert J. Zimmer, University of Chicago President. "It will rely on a public-private partnership to speed the development of environmentally sound energy storage capabilities, with potentially profound economic benefits. We are grateful to all of the public officials who helped make this possible, especially Mayor Rahm Emanuel, Governor Pat Quinn and Senator Richard Durbin, whose support and commitment to economic development through innovation have been vital."

Selected through an open national competition with a rigorous merit review process that relied on outside expert reviewers, JCESR is the fourth Energy Innovation Hub established by the Energy Department since 2010. Other Hubs are devoted to modeling and simulation of nuclear reactors, achieving major improvements in the energy efficiency of buildings, and developing fuels from sunlight. A fifth Hub focused on critical materials research was announced earlier this year and is still in the application process.

Energy Innovation Hubs are major integrated research centers with researchers from many different institutions and technical backgrounds that combine basic and applied research with engineering to accelerate scientific discovery in critical energy areas. They are modeled after the strong scientific management characteristics of the Manhattan Project, Lincoln Lab at MIT that developed radar, AT&T Bell Laboratories that developed the transistor and, more recently, the highly successful Bioenergy Research Centers established during the Bush Administration to pioneer advanced techniques in biotechnology, including biofuels.

Over the decades, DOE national laboratories and DOE-funded university research programs have been responsible for some of the most important advances in battery technology. For example, key battery improvements developed at Argonne helped make the Chevy Volt battery possible.

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