Iceland energy storage for renewable energy

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It is important for Iceland, a model country in renewable generation, to lead by example and set a precedent for developing its electric grid. Our formula for success will be vital to the rest of the world moving towards 2020 and beyond.

This August marks the 10 year anniversary since the 2003 North American blackouts. Many of you can remember this summer. The cause of the second worst power outage in our modern history, that left over 50 million people in the U.S. and Ontario without power for several days, was reported due to a tree branch touching a power line in Ohio... That"s all folks. We are hoping to avoid these gaffes in the future with our work.

Our planet is entrenched in a global energy crisis, and we need solutions. A template for developing the world"s first renewable green battery is proposed and lies in storing electricity across the grid. Iceland generates 100% of its electricity from renewable resources including 73% from hydropower and 27% from geothermal energy. Is it possible to help Iceland become the world"s first renewable green battery?

Conferences and Airfare: This research has already been accepted to be presented at the Arctic Energy Summit 2013 as well as The International Workshop on Simulation for Energy, Sustainable Development & Environment (SESDE 2013) in Athens, Greece. We plan to attend, proudly, and showcase our research... backed by your tremendously generous contributions.

Grid CommandTM is expensive software, and the developers deserve remuneration for their work. All of your donations will be used to pay Battelle for training and technical support throughout the course of our research. You can follow our progress through the Lab Notes (above) and keep up-to-date as we model better grids for the planet.

The current Icelandic grid as provided by Landsnet. This infographic is a visual representation of the transmission network across the country, for instance, the most populous area of Iceland, Reykjav?k, is located in the southwestern portion of this graphic where the greatest grid density and electricity consumption may be seen. Other regions of note, especially with the highest rate of use (speed of lines) represent aluminum smelters and heavy industry. The roles of electricity energy storage (EES) will be explored at various locations across this grid!

EES offers a wide degree of voltage control or frequency regulation, and power flow management. The diagram below shows how EES absorbs and injects electricity to the grid, keeping voltages within a narrower frequency band. This shows how EES can manage power surges and sags, helping maintain power lines and power plants in the process.

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