V&R Energy Supplies Voltage Stability Analysis Software to Western Interconnection Synchrophasor Program

*V&R Energy* is supplying its Region of Stability Existence (*ROSE*) application to the Western Electricity Coordinating Council’s (*WECC*) Western Interconnection Synchrophasor Program (*WISP*).

Los Angeles, CA (*PRWEB*) October 11, 2012 -- *V&R Energy* is supplying its Region of Stability Existence (*ROSE*) application to the Western Electricity Coordinating Council’s (*WECC*) Western Interconnection Synchrophasor Program (*WISP*). *ROSE*, a voltage stability analysis software, uses Phasor Measurement Unit (PMU) data to track the power system’s current operating state, analyze power system conditions and will alert operators of changes that could lead to voltage instability.

V&R Energy is a leading provider of the advanced power systems engineering solutions designed to improve the stability and reliability of the electrical transmission and distribution networks. Founded in 1992, V&R Energy offers a wide spectrum of advanced consulting services, sophisticated scientific research, and comprehensive electrical power systems software applications for a comprehensive power system analysis, both off-line and in real time.

WISP participants are installing more than 300 new or upgraded PMUs to identify and analyze system vulnerabilities in real time, as well as to detect evolving disturbances on the Western Bulk Electric System. Scheduled for completion on March 31, 2013, this “early warning” mechanism will enable WECC and WISP’s partner entities to take timely actions to help avoid widespread system blackouts.

“As the Smart Grid becomes a reality, V&R Energy offers the cutting-edge tools and unique solutions to help improve the wide-area situational awareness, and real-time, steady-state stability analysis and control using PMUs,” said Marianna Vaiman, Executive Vice President at V&R Energy.

*ROSE* continuously monitors power system conditions by incorporating high-rate PMU data into the calculation of stability margin and visualization, and alerts the operator of the changes in the power system conditions (e.g., whether the system is “moving” closer to the boundary). This allows the operator to take timely remedial actions to prevent the system instability.

*ROSE* also defines the range of phasor measurements or other system parameters under which the system can operate securely. In addition to voltage stability, voltage and thermal constraints may be simultaneously monitored, enforced and visualized on the *ROSE* boundary.

*ROSE* also is being implemented by ISO New England’s Synchrophasor Infrastructure and Data Utilization (*SIDU*) Project.

**About V&R Energy**

V&R Energy is a technology and consulting company headquartered in Los Angeles, Calif. V&R Energy is the vendor for POM Suite and *ROSE* applications. It also has extensive expertise in performing various consulting projects on behalf of the electric power utilities, ISOs and other electric utility industry organizations worldwide. V&R also has long-standing relationships with the U.S. Department of Energy (DOE), Electric Power Research Institute (EPRI), NRECA Cooperative Research Network (CRN), Centre for Energy...
Advancement through Technological Innovation (CEATI), and New York State Research and Research Development Agency (NYSERDA).

V&R Energy’s areas of expertise include:
• Improving reliability of the transmission grid to facilitate integration of the renewable energy;
• Predicting and preventing cascading outages;
• Transmission system optimization in order to fully maximize the use of the existing infrastructure;
• Using the PMU data to predict and prevent the power system instability;
• Bringing transient stability analysis into the real-time environment of the Control Centers;
• Automating NERC-compliance studies for the purpose of compliance with the latest NERC standards;
• Automating the process for ranking and prioritization of the future expansion projects, and performing cost/benefit analysis.

About WISP
WECC received $53.9 million in funding from the U.S. Department of Energy’s Assistance Agreement DE-OE0000364. The funding, awarded under the American Recovery and Reinvestment Act’s Smart Grid Investment Grant initiative, matches dollars committed by nine WISP Cost Share Participants to extend and deploy synchrophasor technologies within their western electrical systems. The total funding for WISP is $107.8 million.

About WECC
WECC is geographically the largest and most diverse of the eight Regional Entities that have Delegation Agreements with the North American Electric Reliability Corporation (NERC). WECC’s service territory extends from Canada to Mexico. It includes the provinces of Alberta and British Columbia, the northern portion of Baja California, Mexico, and all or parts of the 14 Western states between. Due to the vastness and diverse characteristics of the region, WECC and its members face unique challenges in coordinating the day-to-day interconnected system operation and the long-range planning needed to provide reliable electric service across nearly 1.8 million square miles.
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