

May 10, 2011

Tom Edmunds
Lawrence Livermore National Lab (LLNL)
P.O. Box 808, L-180
Livermore, CA 94551

Subject: Letter of Support for LLNL Public Interest Energy Research (PIER) Proposal

Dear Mr. Edmunds:

Southern California Edison Company (“SCE”) is pleased to offer this Letter of Support to your PIER proposal to study “Planning for Generation, Storage, and Demand Response to Accommodate Intermittent Generation.” The questions of 1) how much regulation is appropriate in a high penetration intermittent resource environment; 2) what are the most cost-effective regulation resources available; and 3) what are the estimated costs for utilizing these regulation resources are critical questions to effectively meet California energy policy goals. SCE supports this proposed study.

SCE, a subsidiary of Edison International (EIX), is an investor-owned electric utility operating in the state of California, covering over 50,000 square miles and serving 14 million people. The above questions are important to SCE and all participants in the California balancing authority area. A detailed and independent study addressing these questions will be valuable to the participants in the California energy market as well as to policy developers.

SCE is particularly interested in the leveraging High Performance Computing (HPC) environments to solve complex power system analysis. Many of the studies on these issues to date are limited by the detail of the model and the computational resources available to solve the algorithms. The utility industry has leveraged over the last several decades the increase in computational power to support analytical applications. With the increase in complexity of resources and devices plugged into the grid, the computational needs increase. LLNL has a long history of solving complex problems with HPC resources. SCE is very interested in incorporating this expertise and these resources into the utility industry.

SCE understands that its participation in this project is as a non-cost sharing utility partner, and any advisory time supplied by SCE will not be considered as an in-kind contribution. Because SCE will not be receiving any funds for project-related activities, SCE expects to be able to support this project without being subject to the terms and conditions associated with the receipt of funds.

We look forward to the opportunity to support LLNL as a utility technical advisor on this promising initiative and anticipate that these efforts will help in better understanding the impacts of and mitigation strategies for intermittent generation.

Sincerely,

A handwritten signature in black ink, appearing to read 'Doug Kim', with a long horizontal line extending to the right.

Doug Kim
Director, Advanced Technology