Creating a Clean and Secure Future

The Energy Dynamics Laboratory (EDL) is a nonprofit research corporation owned by Utah State University (USU) as a part of the USU Research Foundation (USURF). Situated on USU’s Innovation Campus in North Logan, Utah, EDL has access to state-of-the-art facilities and equipment. EDL in-house expertise is complemented by its sister organization, the Space Dynamics Laboratory (SDL), which has a 50-year legacy of resources in engineering, systems integration, program management and technology innovation. EDL also has offices in Salt Lake City and Vernal, UT.

EDL scientists and engineers are developing disruptive technologies that enable new, practical solutions for the most intractable energy and environmental challenges facing America today. Partnered with academic and industry leaders, the Energy Dynamics Laboratory’s mission is to develop and deploy transformational energy systems that provide step-function improvements in U.S. energy security.

EDL is driving system-level transformation by:

- Looking beyond today’s known needs and requirements by first envisioning what future energy systems might consist of and then building R&D programs around them.
- Creating new paradigms, R&D market space and associated partnerships.

EDL focuses on prototyping, demonstrating, deployment and commercialization of innovative technologies for renewable and advanced energy systems that help solve national and international environmental issues. We provide our customers and partners with innovative, high-value solutions and services that can rapidly be commercialized through industry-friendly practices and efficient technology transfer.

At EDL, we understand that technology innovation is the key to resolving the world’s energy issues. By solving energy issues, we will also be well on the path to resolving the world’s environmental challenges. We recognize that to achieve these goals our greatest resource is creative, productive people. To foster their innate creativity and innovative problem solving, we strive to create an environment in which our people can flourish and grow professionally, personally, and in service to our community.

Paul is one of the founders and Deputy Director of the Energy Dynamics Laboratory. He has previously served as a Research Associate Professor in Electrical and Computer Engineering at Utah State University. Paul directs engineering and R&D programs within EDL which have as a goal the commercialization of technology and reducing theoretical research to practice. Paul has been involved in the start-up and successful execution of several companies. He served as Chief Technical Officer of a company which he founded from research he developed at Utah State University which specialized in video compression hardware and software. This company now employs well over 500 people. He is also currently involved in three other startup companies. He is the Board director of the Center for Active Sensing and Imaging and a founding board member of the Institute for Intuitive Buildings. His areas of expertise are in Energy Systems and energy-environmental issues, VLSI design, digital and analog integrated circuits, image compression, signal processing, and imaging. He has a number of publications, and numerous patents issued and several pending in these areas. Paul was selected in 2011 to receive the Governor’s Medal of Honor in Science and Technology.