

NEWS RELEASE**April 22, 2015**

RTDS® SIMULATOR SHINES IN THE WORLD'S LARGEST REAL-TIME DIGITAL SIMULATION LABORATORY AT A UNIVERSITY

The Australian Energy Research Institute (AERI) at the University of New South Wales (UNSW) in Sydney has opened the largest real-time digital simulation laboratory at any university in the world – and the RTDS Simulator is a critical element of the lab.

The Power Systems Interface Research Laboratory features 18 RTDS Simulator racks containing 90 PB5 processor cards and nearly 100 input/output cards. UNSW received \$19 million AUD in funding from the Australian Federal Government's Education Investment Fund to support the lab, with the goal of creating long-term sustainable energy infrastructure.

"It is one of the most significant, largest-ever investments in the power-engineering research sector in Australia," says Professor Vassilios Agelidis, who is the Director of the AERI and Professor of Power Engineering at the UNSW School of Electrical Engineering and Telecommunications.



The RTDS Simulator plays a key role in UNSW's Power Systems Interface Research Laboratory.

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The RTDS Simulator, supplied exclusively by RTDS Technologies Inc., is a fully digital electromagnetic transient simulator. The Simulator will allow UNSW researchers to interface real equipment with a simulated power system, and to test the large-scale integration of renewables into the Australian grid. Worldwide, the Simulator is used by power system equipment manufacturers, electric utilities, research institutions, and universities. Among other applications, it is used for the closed-loop testing of protection and control systems, power-hardware-in-the-loop studies, smart grid technology and distributed generation integration studies, HVDC and FACTS testing, and education.

“The University of New South Wales is a flagship project for RTDS Technologies. Not only is the Power Systems Interface Research Laboratory the largest university-owned RTDS Simulator installation to date – UNSW was also our 300th customer. We are proud to say that there are now over 1,100 RTDS Simulator racks installed in 37 countries around the world.”

Rick Kuffel, Director, RTDS Technologies Inc.

ADAPT Australia worked with RTDS Technologies to facilitate this substantial project, and serves as local support and first response for RTDS Simulator users throughout Australia. Through a combination of this local support and the commercial and technical services provided by RTDS Technologies headquarters in Winnipeg, Canada, users of the Simulator receive comprehensive and rapid support.

RTDS Technologies staff travelled to Sydney to facilitate the commissioning of the 18 rack Simulator and the training of UNSW researchers.

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