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Darnell Group

NEWS

DC Building Power Asia 2011 Call for Papers Issued “Integrating Buildings with the Smart Grid”

Corona, California, July 14, 2011 – An Announcement and Call for Papers has been issued for the Third-Annual DC Building Power Asia conference (DCBPA ‘11) to be held in December in Taipei, Taiwan. Building on the success of last year’s event, this focused two-day international conference will attract an international audience to discuss high-voltage and low-voltage dc distribution in facilities such as data centers, commercial and industrial buildings and residences. The theme of this year’s event will be: “Integrating Buildings with the Smart Grid.”

"We are excited about the expanded scope of this year’s event," stated Jeff Shepard, president of Darnell Group. "We have an expanded Advisory Committee, being chaired by Dr. Tsai-Fu-Wu, Professor and Director of the Elegant Power Application Research Center at Taiwan’s National Chung Cheng University and internationally-recognized expert in dc microgrid technologies. And this year's event will feature a tour of a working DC MicroGrid and Smart Meter lab at CHEM (Chung-Hsin Electric & Machinery Mfg. Corp.)," Shepard concluded.

A convergence of technologies is occurring that will change how buildings are powered. These technologies include the continued rapid growth of distributed generation resources (photovoltaic panels, wind turbines, fuel cells, micro turbines, etc.); the emergence of high-efficiency lighting technologies (especially solid-state LED lighting); wireless building automation systems; demand-side management of building energy use by electric utilities; and more. According to recent studies, the use of dc power can be ten-times more reliable and significantly more efficient compared with today's ac-power designs.

The use of dc distribution can complement other trends in building power including the growth of 'green' energy sources, use of wireless building automation systems, demand side management, the implementation of high-efficiency lighting, and more. And it can reduce construction and operating costs, improve flexibility and enhance sustainability. DCBPA '11 will consider all aspects of building power including high-voltage and low-voltage dc distribution, hybrid ac and dc distribution architectures, and dc microgrids. Examples of the topics to be addressed at DCBPA '11 include: Selection of the optimal dc distribution voltage; Integration of distributed generation resources; DC lighting systems; DC HVAC and other building systems; DC appliances; Building automation and controls; DC microgrids; Combined heat and power; Advanced components and hardware; Safety considerations; Standardization issues; Hybrid ac and dc power distribution architectures; Implementation of demand-side management; Implications for power quality; and more.

Submissions are being sought in three areas: 1) Case Studies/Industry Examples: outstanding examples of recent applications of dc power distribution or hybrid ac and dc power distribution in commercial, industrial, government, and residential buildings, or in critical facilities such as data centers, including field tests as well as full production systems. 2) Implementation and Operational Process: return on investment scenarios and analysis of benefits for implementation of new and improved dc power distribution technologies, with special focus on the role of power electronics and applications systems; directions and developments in utility interface and integration; needed and/or anticipated changes in regulatory environments. 3) Technology Developments: projections and forecasts for changes in core power electronic, distributed generation, and building automation technologies, including new designs/implementations, new applications and new methods for implementing solutions.

Darnell Group is the leading source for worldwide strategic information covering the full spectrum of power electronics, energy storage and generation. The company specializes in the economic/business analysis of emerging power markets and technologies. The DCBPA '11 web site is at:
<http://DCBuildingPowerAsia.darnell.com>.

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