Green Plug Tackles the Longest Yard: Linking Consumer Electronics to the Smart Grid

SAN JOSE, Calif. -- (BUSINESS WIRE) -- The Smart Grid already is reducing energy consumption and leveling peak demand in millions of homes and offices. So why is it that many of the DC-powered electronic devices we use every day aren't able to realize the benefits of being connected to the Smart Grid?

Paul Panepinto, vice president of Ecosystem Development at Green Plug, the first developer of digital technology enabling collaboration between multiple electronic devices and their power sources, answers that question and more in a paper titled "The Longest Yard," presented Oct. 19 at the Smart Grid Electronics Forum in San Jose, Calif.

Concludes Panepinto: "The Smart Grid already is reducing energy consumption and leveling peak demand. A significant portion of home energy consumption, however, has no direct interface to the Smart Grid and cannot participate in the system. New digital controller technology is enabling power supplies to be smarter and more capable. Smart power supplies that are capable of serving power to multiple electronic plug loads concurrently are able to serve as affordable gateways to the Smart Grid. That way, many more electronic devices that consume power can participate, saving energy and reducing demand during peak power consumption periods."

Currently, Green Plug is developing IP licensing relationships with chipmakers, collaborating with partners, such as Imagination Technologies Group plc (LSE:IMG), and working with consumer electronics manufacturers to expand deployment of the company's Greenwire™ multi-function physical layer technology and Greentalk™ digital power protocol – the key components of its Green Plug Power System.

The Greentalk digital power protocol enables devices to collaborate with power supplies to dynamically monitor and control them, thus minimizing power consumption under diverse operating conditions.

DC power hubs enabled with Green Plug's Green Power Processor (GPP) chip can simultaneously power multiple devices, each with its own specific voltage and power requirements. By implementing Green Plug technology, manufacturers also minimize solid waste by enabling consumers to continue to use their smart power adaptors and battery chargers with newer electronic devices long after their current CE devices have become obsolete.

Paul Panepinto is available to discuss the concepts and challenges addressed in his white paper, "The Longest Yard," which he presented on October 19, to the Smart Grid Electronics Forum, in San Jose, Calif. To access a copy of the white paper, visit: greenplug.us/events.php [1]" and click on The Darnell Group Smart Grid

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