



14 June 2011

Companies Announcement Office  
Australian Securities Exchange Limited  
10th Floor, 20 Bond Street  
SYDNEY NSW 2000

**Japanese Patent Granted for BAR Monitoring System**

Please find attached an operational update from BPH Energy (**ASX: BPH**) investee company Cortical Dynamics Ltd.

Yours sincerely,

A handwritten signature in black ink, appearing to read "D. Breeze". The signature is fluid and cursive, with a long horizontal stroke at the end.

David Breeze  
Chairman



14 June 2011

Companies Announcements Office  
Australian Securities Exchange Limited  
10<sup>th</sup> Floor, 20 Bond Street  
SYDNEY NSW 2000

## **JAPANESE PATENT GRANTED FOR BAR MONITORING SYSTEM**

Cortical Dynamics Ltd (“**Cortical**”) an investee of BPH Energy Limited (ASX: BPH) is pleased to announce that a key patent relating to its Brain Anaesthesia Response (BAR) monitoring unit has been granted in Japan. Currently, Cortical has patents awarded in Australia, New Zealand and the United States. The issued patent entitled ‘Method of Monitoring Brain Function’ is valid to 14/01/2024.

Cortical has developed an extensive patent portfolio encapsulating the BAR monitor, providing critical patent protection across a number of key brain monitoring markets. Cortical Director David Breeze, said, ‘The grant of the Japanese Patent is a milestone for Cortical Dynamics and we are also very pleased to have the patent awarded within one of the largest EEG brain function monitoring markets in the world’.

As previously announced Cortical has lodged a prospectus with the Australian Securities and Investment Commission and has applied for admission of its securities to the official list of the Australian Securities Exchange.

### **About the BAR Monitor**

The BAR monitoring system measures a patient brain electrical activity, electroencephalogram (EEG), to indicate how deeply anaesthetised a patient is during an operation via an adhesive sensor applied to the forehead. The BAR monitor is designed to assist anaesthetists and intensive care staff in ensuring patients do not wake up unexpectedly, as well as reducing the incidence of side effects associated with the anaesthetic.

The BAR monitor improves on currently used EEG monitors by utilising advances in understanding of how the brain’s electrical activity is produced, and how it is affected by



anaesthetic and sedative drugs. This unique physiological approach enables the BAR monitor to independently monitor the hypnotic and analgesic states, a feature no known

EEG based anaesthesia monitors are able to achieve. Objectively monitoring of hypnotic and analgesic state will lead to improved anaesthetic and surgical outcomes, by reducing recovery times and minimising drug costs.

### **About Cortical Dynamics**

Cortical Dynamics is a medical technology company that was established in 2004 to commercialise intellectual property relating to brain function monitoring developed by Associate Professor David Liley and his scientific team at Melbourne's Swinburne University of Technology.

Yours Sincerely,

David Breeze  
Chairman

---

**Cortical Dynamics Ltd**

ACN 107 557 620

PO box 317, North Perth, WA, 6906

14 View Street, North Perth, Western Australia

T: +61 8 9328 8366 F: +61 8 9328 8733

[contact@corticaldynamics.com](mailto:contact@corticaldynamics.com) [www.corticaldynamics.com](http://www.corticaldynamics.com)