

Diamond Energy officially opens Demand Response Centre in Singapore

Singapore – Diamond Energy has opened its next generation Demand Response Centre, the first dedicated facility of its kind actively serving electricity consumers in the National Electricity Market of Singapore.

Demand Response globally is already playing a pivotal role in conserving energy use, and maintaining grid stability as the resource mix trends towards greater distributed renewable generation sources. Singapore is taking deliberate steps to ride this trend and Diamond Energy is honoured to be the pioneering national partner in this field. The reserve market is essential as it is where stand-by capacity is procured. This is to ensure adequate electricity supply in the event of a power plant failure or other disturbance event in the power system.

Under the Energy Market Authority's leadership, Singapore was an early adopter of Demand Response and introduced Interruptible Load in the reserve market of the National Electricity Market of Singapore in 2004. "With companies such as Diamond Energy offering innovative demand management, including demand response services, consumers will be able to further reduce their electricity cost while improving system efficiency," commented Mr Chee Hong Tat, Chief Executive of the Energy Market Authority who officiated the opening.

Interruptible Load, or IL as it is often referred, is a form of Demand Response that is the equivalent of stand-by generation capacity in the form of curtailable electricity demand which can be turned off on a temporary basis in exchange for payments.

There are currently 15 registered loads in NEMS that provide IL, all of which are managed by Diamond Energy from its Demand Response Centre. These resources are capable of providing 21 MW of primary response (8 seconds), 21 MW of secondary response (30 seconds), and 23 MW of contingency response (10 minutes).¹ Providing IL allows electricity customers with the means to generate additional revenue, lower their



From left to right: Mr Zainul Abidin Rasheed, Chairman Diamond Energy, Mr Chee Hong Tat Chief Executive Energy Market Authority of Singapore, and Mr Dallan Kay President & CEO Diamond Energy.

expenditure on electricity, and improve their energy efficiency. During 2013 there were 20 contingency activation events with an average duration of 52 minutes. IL providers are paid based on their availability whether an activation event is called or not. Minimal affected hours makes participation suitable for electricity consumers that are able to manage the curtailment of nonessential electricity loads for short periods of time. Mr Zainul Abidin Rasheed, Chairman of Diamond Energy stated: "the official opening of our Demand Response Centre is an important step towards achieving our mission of changing the way electricity is consumed in Singapore."

¹Source: Energy Market Company Pte Ltd, however, note that the actual quantity registered for contingency is 23.2 MW which has been rounded down to 23 MW.

Canon Emirates receives renewal of ISO 14001 Environmental Management Standard certification

Dubai, United Arab Emirates – Canon Emirates, a leader in imaging solutions, has been re-certified to the ISO 14001 environmental management standard following an external environment audit reporting no 'non-conformities'. The recertification highlights Canon's ongoing commitment to meet all applicable environmental regulations while continuously improving its environmental performance in the local community. The internationally recognised ISO 14001 standard, to which more than 800 Canon sites worldwide are certified, is a strong reflection of the successful integration of environmentally responsible practices across all aspects of the business. The Canon Group is one of very few organisations that has achieved consolidated ISO 14001 certification covering all operations globally.

Shadi Bakhour, General Manager, Canon Emirates said: "At Canon, we aim to reduce the environmental impact of our products throughout their lifecycle from design concept to end of life. In 2014, our goal was to improve lifecycle CO2 emissions per product by 3 percent. Additionally, we looked at reducing waste per unit by 1 percent for the year, both compared to 2013. These efforts are in line with Canon's clear targets to manage the environmental impact of its products and operations across the region. Canon Middle East & Canon Emirates continues to invest heavily in sustainable best practices with environmental initiatives at the core of Canon's CSR commitment. The ISO 14001 environmental management system provides a framework for employees in Canon Middle East & Canon Emirates to identify and control the environmental impact of operations in line with regional regulations. A CSR and environment coordinator is appointed in each company department and every employee receives environmental awareness training.



Shadi Bakhour