

Diamond Energy's Smart Grid Solutions power new ground in Vietnam

Pilot Demand Response programs implemented in Ho Chi Minh City generate savings for industrial and commercial electricity consumers who deliver electricity demand reductions when requested by the grid

The largest Demand Response Aggregator in Singapore, Diamond Energy contributes notably to the power sector with an extensive client portfolio.

Pioneering Demand Response (DR) in Singapore since 2006, it is now powering new ground in Vietnam with the implementation of Pilot Demand Response Programs in Ho Chi Minh City.

Breakthrough for Ho Chi Minh City

The pilot project, undertaken by Diamond Energy, the Electricity Regulatory Authority of Vietnam, and Ho Chi Minh City Power Corporation (HCMPC), is the first DR initiative to be implemented in Vietnam. Through the project, which was funded by the World Bank and AustralianAID, participants receive incentive payments for reducing their electricity demand when requested by HCMPC.

"We've developed and delivered a solution that is uniquely tailored for the city, and rewards participants with incentives for achieving demand reductions. This has taken us forward in achieving our mission to change the way energy is consumed in Asia," says Mr Dallon Kay, President & CEO of Diamond Energy. "Accepting the SmartGrid Project of the Year award at the 2015 Asian Power Awards was a pleasant bonus," Kay added.

Demand Response

When a peak demand event or localised network congestion is anticipated, HCMPC initiates a DR event using the Demand Response Management System (DRMS) for the project located at the company's Demand Response Centre in Singapore. DRMS then notifies participants when the DR event will take place. Next, HCMPC notifies each participant of their Baseline using DRMS, and a series of reminders leading up to the start of the DR event are sent to the participants.

Upon receiving confirmation that the DR event has started, participants will initiate adjustments to the operation of their facilities to deliver electricity demand reductions. Industrial facilities such as factories, may switch off energy-intensive equipment while commercial facilities such as shopping malls, hotels, and high-rise buildings may switch off air-conditioning systems.

Two hours later, upon confirmation that the DR event has ended, participants will resume their normal operations. After each DR event, HCMPC determines each participant's demand reduction, prompting DRMS to notify each participant of their incentive payment.



Dallon Kay, President & CEO of Diamond Energy