

Press Release

Chiang Mai, 20th March 2015. - World's First Renewable Energy Residence with Hydrogen Energy Storage Enters Testing Phase in Chiang Mai.

At the opening event on March 20th, the world's first fully renewable powered hydrogen energy system for a multi house compound was officially presented by CNX Construction.

The Phi Suea House development in Chiang Mai consists of 4 family homes and several other purpose-built constructions, fully supported by solar power from photovoltaic panels and an innovative hydrogen energy storage system. During the day, excess solar power is used to run electrolyzers and produce hydrogen, which can then be transformed back in to electricity through a fuel cell at night.

"It's a dream to have 24-hour access to the power of the sun. With our renewable power system and hydrogen energy storage, we have fulfilled this dream." says Sebastian-Justus Schmidt, initiator of the Phi Suea House project.

The technology behind this system is still very new. There are some systems already running in labs at leading universities worldwide and small numbers of similar hydrogen energy storages have been deployed as backup power systems for telecommunications in remote areas, but the Phi Suea House is the first project worldwide where this ground-breaking technology is being used as the main energy storage for a multi-house residential development.

CNX Construction Co., Ltd., the property development and system integration company behind the Phi Suea House, strongly believes that further advancements in the technology and lower costs will result in many more projects like this to be developed in Thailand and all over the world in the coming years.

At this time, the first phase of the development is completed and the energy system has entered the testing phase with the first three buildings. The system will be 100% operational when constructions are completed at the end of 2015.

Mr. Hagen E. W. Dierksen, the Honorary Consul of the Federal Republic of Germany, cut the ribbon to mark the opening of the hydrogen energy system at the Phi Suea House.

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