

## Microgrid design abu dhabi

During the event, the joint Project Team between MI and RIST revealed a conceptual design for an island-based renewable micro-grid. The conceptual design consists of a control system, energy storage, and a high efficiency DC distribution system. It is designed to incorporate renewable energy sources such as solar PV, small wind power and biofuel production from waste and algae. The micro-grid system can be linked to local seawater desalination and electric powered boats for island access.

The Public Private Partnership project is coordinated by GGGI and will tap the expertise of Masdar Institute in the design and simulation of micro-grids with renewable energy, and the RIST team's established expertise in commercializing technologies demonstrated by the project on Jeju Island, South Korea.

MI proposed an initial concept for the project to GGGI on October 2010 and the GGGI UAE Country team provided MI an essential link to an industrial Partner within GGGI's partnership network – RIST.

The 100% renewable energy micro-grid project features new research collaboration potential between the UAE and South Korea. Korea is expanding smart grid technology rapidly and already hosts a successful demonstrations project on Jeju Island. The project island in the UAE will become a 'sister' island, featuring advanced micro-grid and 'smart renewable' technologies.

Dr. Sultan Al Jaber, the UAE's Special Envoy for Energy and Climate Change and CEO of Masdar, said: 'This project is another powerful example of the leading role Abu Dhabi and the UAE are playing in clean energy innovation. Masdar has funded development projects on small islands that can potentially benefit from micro-grids, and we are interested in their potential role in supporting renewable energy deployment in rural areas.'

Dr, Hee Don Chun, executive vice president of RIST, said: The UAE project will benefit from the outcomes of research already conducted on Jeju Island and we are confident the expertise from Masdar Institute will further stimulate innovation in micro-grids which is optimized in MENA region environment. In addition, RIST will seek further opportunities for collaboration with MI in terms of green technology research based on each institute's core competence.'

The Joint team already conducted a pre-workshop in Pohang, Korea in July, 2012 and visited a potential demonstration site in Abu Dhabi, the UAE in August, 2012 to set up the conceptual design. The team will develop a UAE tailored micro-grid model and an action plan for a subsequent implementation project until March, 2013. The developed micro-grid model will be highlighted during the World Future Energy Forum in January 2013 in Abu Dhabi.



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