

IEEE PVSC Lana'i

Lana'i La Ola Addendum

Lana'i 100% Renewables



The "Lana'i 100% Renewables" project is part of the Hawaii Clean Energy Initiative, a partnership with the State of Hawaii and the US Department of Energy. Isle developer Castle & Cooke Resorts, LLC has completed Hawaii's largest single-site 1.2 MW solar farm. La Ola solar farm is a prime example of pioneering high-penetration grid-tied photovoltaics where new "Smart Grid" communications and controls are being employed and evaluated. Castle & Cooke Resorts, LLC and Sandia National Laboratories have organized an IEEE PVSC Addendum opportunity to see La Ola's technical accomplishments, the installation, daily operation and future renewable energy plans. This addendum will consist of a technical program, a tour of the photovoltaic facility and the future wind site on Lana'i. It will take place on Friday evening, June 25 and Saturday June 26, 2010. Special rates are being offered at Four Seasons Resorts Lana'i. The special rates are also extended beyond the addendum technical program and tour for additional unique island activities. Please see the attached links for reservations and more information about the installation, the advanced high-penetration, communications, resource prediction, energy management, and grid integration. Register early (no fee); rooms are limited and flights may have to be added.

Draft Program and Activities

See Links on PVSC-35 and Sandia sites (<http://photovoltaics.sandia.gov/main.html>) for registration, reservation and program details.

- Addendum rooms blocked at Four Seasons Lana'i Resorts (+1-800-321-4666)
- Friday, June 25. Transportation from Oahu to Lana'i; Island Air (www.islandair.com)
- Light evening reception/welcome (TBD)

- 1.5MW DC Hawaii's largest Solar Farm in service 12/19/2008
- 10 acres, 12 separate arrays, 7,000+ panels, tracker system
- 3,000MWhour production = 30% of Lanai's daytime peak demand, 10% of Lanai's annual demand
- 2,300 tons of carbon dioxide emissions eliminated annually = 5,000 barrels of oil or 237,000 gallons of gasoline
- \$1M+ in payroll to Lana'i Residents:~22 of 25 construction jobs were filled by Lana'i Residents

Saturday, June 26 (Breakfast Buffet followed by Morning Presentations)

LA OLA project	Castle & Cooke
Grid Interconnections	MECO
DOE Solar Program Goals	US DOE
PV Array Presentation	Sun Power
Inverter/Controls	SatCon
Energy Storage for LA OLA	TBD
Lana'i L.I.N.E. System	Sandia
Distributed PV Concept	NREL

Saturday, June 26, Lunch Buffet

Saturday, June 26, Tour of PV and Wind sites

- Pick up and drop of at airport, hotels, trilogy snorkeling, "Lana'i Culture and Heritage Center, are part of the island transportation package.

