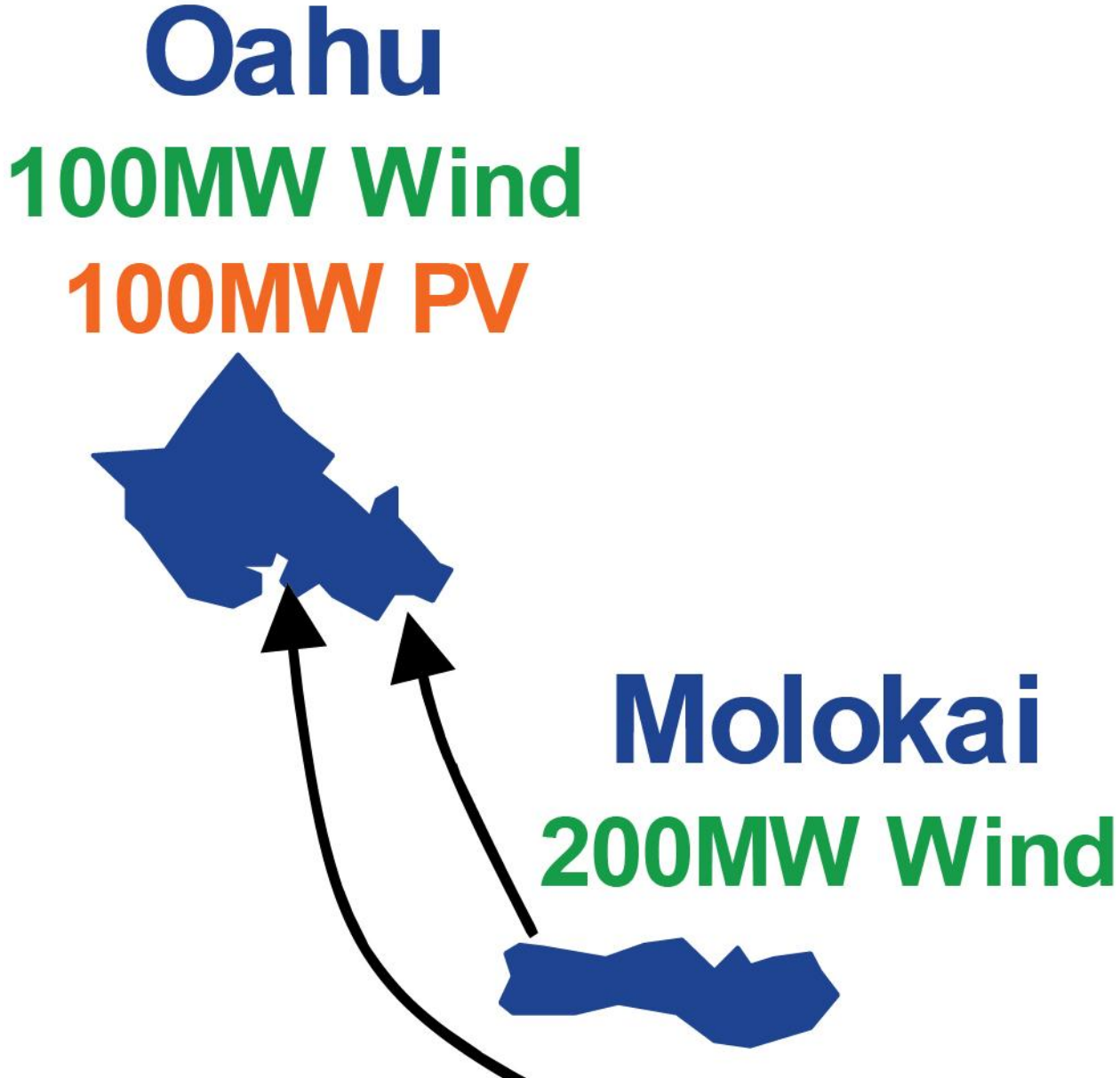
Published on ***Hawaii Natural Energy Institute*** (http://www.hnei.hawaii.edu)



# O?ahu Wind Integration Study shows HECO can use wind and solar power to supply 25% of O?ahu?s electricity.

In partnership with the Hawaiian Electric Company (HECO) and General Electric Company, HNEI studied the impacts to the HECO grid of integrating 400 MW of wind power from Molokai and Lanai supplied through an undersea cable combined with 100 MW of wind and 100 MW of solar power located on O?ahu. The study showed HECO can reliably integrate this power and supply 25% of O?ahu?s electricity from these sources if several recommendations for upgrades to the HECO grid and requirements for the wind projects are followed.



supplied from these sources would reduce Hawai?i?s fossil fuel consumption by approximately 2.8 million barrels of low sulfur fuel oil and 132,000 tons of coal each year. The National Renewable Energy Laboratory (NREL) organized a technical review committee of U.S. and world experts in large-scale integration of wind power that met throughout the study to provide technical expertise and review of results.

See the O?ahu Wind Integration Study [2] for the full report. For further information, please contact Jay Griffin [3].

| Attachment | Size |
|---|---|
| Oahu_Wind_Integration_Study.pdf [4] | 5.39 MB |

Last Updated: Thursday, July 14, 2011
Tags: wind [5]

Hawaii Natural Energy Institute ? 1680 East West Road, POST 109 ? Honolulu, HI 96822 ? Ph: (808) 956-8890 ? Fax: (808) 956-2336 ? Email:Contact ?

---

**Source URL:** http://www.hnei.hawaii.edu/content/o%E2%80%98ahu-wind-integration-study-shows-heco-can-use-wind-and-solar-power-supply-25-o%E2%80%98ahu%E2%80%99s-elect

**Links:**
[1] http://web41.its.hawaii.edu/www.hnei.hawaii.edu/sites/web41.its.hawaii.edu.www.hnei.hawaii.edu/files/story/2011/03/Wind_
[2] http://web41.its.hawaii.edu/www.hnei.hawaii.edu/sites/web41.its.hawaii.edu.www.hnei.hawaii.edu/files/story/2011/03/Oahu_
[3] http://web41.its.hawaii.edu/www.hnei.hawaii.edu/staff/james-p-griffin
[4] http://www.hnei.hawaii.edu/sites/web41.its.hawaii.edu.www.hnei.hawaii.edu/files/story/2011/03/Oahu_Wind_Integration_Stu
[5] http://www.hnei.hawaii.edu/taxonomy/term/63