

First Wind in Hawai'i by the Numbers

As a developer, owner, and operator of wind farms, First Wind is a long-term partner with the state of Hawai'i and local communities, providing clean energy and a wide range of economic and environmental benefits.



Clean Power

210,000,000

kWh generated annually from First Wind's projects.*

18,700

homes powered by Hawai'i projects.*

0

air and water pollution from our wind projects.

0

fossil fuels imported or burned for wind energy.



Environmental Benefits

384,324

barrels of oil required to generate an equivalent annual amount of electricity.*

116,969

tons of coal required to generate an equivalent annual amount of electricity.*

153,365

tons of carbon dioxide (CO²) emissions avoided each year.*



First Wind Projects

32

1.5 MW and 2.5 MW turbines installed at two First Wind projects.

60

megawatt (MW) capacity for both projects combined.

90

MW currently under development and in construction.



Economic Benefits

191,000

on-site labor hours during construction.**

50+

Hawai'i businesses included in the development and construction supply chains.**

25

continuous full-time jobs created in Hawai'i for ongoing development and operations.**


firstwind[®]
CLEAN ENERGY. MADE HERE.[®]

810 Richards St. Suite 650
Honolulu, HI 96813
Tel: 808.695.3300
Fax: 808.441.4604
www.firstwind.com

* Source: Cumulative typical annual generation from our individual Hawai'i projects. Equivalencies and/or offsets are derived from EPA's 2010 eGRID database.

** First Wind and contractor data.

Habitat Conservation Plans

First Wind's Hawai'i projects feature the first-ever Habitat Conservation Plans ("HCP") approved for wind energy projects under Hawai'i's Endangered Species Act. The first such plan was put in place for First Wind's 30 MW Kaheawa Wind project on Maui, and the second for the Kahuku Wind project on O'ahu.

The HCPs are designed to ensure a net conservation benefit for native bird and bat species that might be affected by the projects. Under the HCP, First Wind is contributing in excess of \$1,000,000 toward mitigation and wildlife conservation efforts, including funding for critical research needs, propagation of young birds for future release and the protection of remote nesting areas in interior Maui and O'ahu.

In addition to the HCP activities at Kaweawa Wind, First Wind has engaged in efforts to restore native plants at the project sites that were displaced during construction.

First Wind Hawai'i Projects

Kahuku Wind builds on Hawai'i's longstanding tradition of self-sufficiency, capturing the natural wind resource of the North Shore to provide a renewable energy solution.

Kahuku Wind went online in March 2011. The project consists of 12 state-of-the-art wind turbines with the capacity to produce 30 MW of power. That's enough clean, renewable energy to power about 7,000 homes and businesses on O'ahu.



The Kahuku project also features an innovative 15 MWh battery energy storage system to assist in meeting the island grid's performance standards, and smoothing fluctuations in wind energy output. The battery storage system has been developed by Xtreme Power, Inc. and is the first large scale application for any wind energy project in the United States. The combination of these technologies provides reliable and renewable energy to O'ahu's electrical grid from the local power of wind.



The Kaheawa Wind project on the island of Maui is one of the two largest wind projects in Hawai'i and produces enough energy for about 9 percent of the energy needs of the island.

Featuring 20 turbines, each capable of generating up to 1.5 MW, the project went online in 2006 and has been steadily generating electricity ever since. The 30 MW project is located in the West Maui Mountains high above Maui's scenic shores.

Kaheawa Wind operates in harmony with a variety of native plant and animal species while providing clean, renewable power.

In addition to clean energy for Maui homes and businesses with no harmful emissions, the Kaheawa project has also been a strong partner in the local community, giving tours to many school and civic groups, and creating and supporting employment on the island.

Kahuku Wind and Kaheawa Wind are jointly owned by First Wind and its Maui based partner, Makani Nui Associates.

Visit www.firstwind.com/mediacenter to see videos of our Hawai'i projects.