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Ingenuity for life

Thanks to renewable resources, **Hawaii's energy future is bright.**

Oahu still gets **more than 80%** of its energy from imported fuel oil, but the Hawaiian Electric Company is determined to incorporate more grid-scale and customer-sited **solar energy** into its system.

To do so requires solving the challenges of **Distributed Generation.** Areas with higher photovoltaic (PV) circuit penetration present problems for stable operations, at times feeding excess power back onto the grid.

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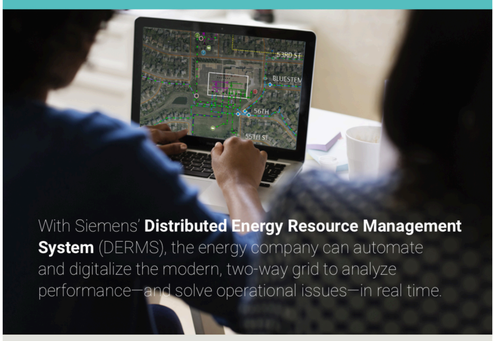
The Island of Oahu The Hawaiian Electric Company's goal is to help customers add as much self-generated renewable energy as possible while maintaining reliable service to all customers.



With Siemens' **Distributed Energy Resource Management System** (DERMS), the energy company can automate and digitalize the modern, two-way grid to analyze performance—and solve operational issues—in real time.

To reach its statewide goal of **100% renewable energy** for electricity by 2045, Hawaiian Electric has turned to private and public partnerships. Siemens' solutions offer:

Control Center

Gives utilities visibility into the entire network system to optimize operation

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Customer-Centric Applications

Provides the ability to forecast customer-sited solar generation

Learn More

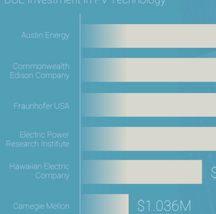
Renewable Integration and Control

Offers an ideal solution for remote monitoring and control

Learn More

To help integrate renewable energy sources, the Department of Energy's SunShot Initiative has invested **more than $3 billion** to support emerging PV technologies. Hawaiian Electric was among six recipients in 2016.

DOE Investment in PV Technology



Siemens software will provide Hawaiian Electric the visibility and insight necessary to **manage and operate their photovoltaic systems**, and help prove that renewable energy can be an essential part of our 21st century energy mix.

— Mike Carlson, President, Siemens Digital Grid

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