

HAWAII'S CLEAN ENERGY FUTURE



CLEAN ENERGY VISION

The State Administration is determined to harness Hawaii's natural resources to achieve its goal of 100 percent renewable energy generation by 2045. Pursuing energy independence and transitioning off fossil fuels achieves a dual purpose: stimulating smart growth that benefits future generations in Hawaii and delivering cost-effective energy that is environmental friendly.

STATE ENERGY OFFICE ENERGY POLICY GOALS:

Hawaii is the perfect setting for a comprehensive clean energy transformation to occur. Our leadership in renewable energy penetration, coupled with isolated islanded grids and high-energy costs make Hawaii a unique laboratory for clean energy solutions.

Under the leadership of the Energy Resource Coordinator (ERC), the Hawaii State Energy Office (HSEO) is driving Hawaii's clean energy transformation.

HSEO has set forth five key energy policy directives:

1. Diversifying our energy portfolio
2. Connecting and modernizing our grids
3. Balancing technical, economic, environmental and cultural considerations
4. Leveraging our position as an innovation test bed
5. Creating an efficient marketplace that benefits producers and consumers



HAWAII CLEAN ENERGY INITIATIVE 2.0

The Hawaii Clean Energy Initiative (HCEI) began as a groundbreaking partnership between the State of Hawaii, the U.S. Department of Energy, the military and the private sector. The next phase of HCEI 2.0 is stimulating innovation in Hawaii's emerging clean energy sector. In 2015, Hawaii passed HB623 which set a new renewable portfolio standard of 100 percent renewable energy by 2045, while also increasing Hawaii's interim 2020 target to 30 percent. These aggressive goals will drive investment in clean energy infrastructure and serve as a catalyst for economic growth, investments in innovation and entrepreneurship.

SECURING THE RENEWABLE ENERGY FUTURE

Hawaii is working towards 100 percent renewable energy in the electricity sector by improving interconnection and interoperability at the transmission and distribution level. Leveraging Hawaii's role as a test bed is also critical to achieve this vision. Innovative programs like the GEMS Financing Program and Community Solar Program are helping to remove barriers to clean energy.

SETTING THE COURSE TO GREATER EFFICIENCY

The state has already reduced electricity demand by more than 1,500 gigawatt-hours. A report prepared for the Hawaii Public Utilities Commission last year concluded that Hawaii has the potential to significantly exceed its 2030 target of 4,300 gigawatt-hours of savings.

The Energy Services Coalition has also recognized Hawaii for three consecutive years as the nation's leader in performance contracting on a per capita basis. HSEO has successfully completed its 2013 Commitment to Action under the Clinton Global Initiative by doubling the value of performance contracts in the state and extending its national

leadership in the Energy Services Coalition's *Race to the Top*.

CLEAN ENERGY FOR TRANSPORTATION

Hawaii is determined to harness cleaner, cheaper alternative fuels like natural gas to replace petroleum based fuels. These alternative fuels help drive down electricity rates. We're also working to support higher rates of renewable penetration with quick start, efficient generators and providing lower cost, cleaner options for marine and ground transportation.

POWERING THE ECONOMY

Hawaii is becoming a test bed for promising clean energy technologies. Our isolation, renewable resources and Asia-Pacific connections are proving to be an ideal environment for developing, testing and proving emerging clean energy technologies. Hawaii's clean energy transformation is laying the foundation for a new knowledge-based sector of the economy fueled by innovation and ideas. Creation of a clean energy innovation sector is also creating a supporting ecosystem featuring jobs in a host of complementary professions.