

# Hawai'i Clean Energy Initiative Executive Summary

## Basis

- Hawaii currently **depends on imported fossil fuel - primarily oil** - to meet over 90% of its energy needs, and its **energy costs are among the highest** in the Nation.
- Hawaii is **rich in clean and renewable energy resources** and is **increasing priority** on accelerating their use, for energy security, economic, and environmental reasons. **Governor Lingle** has made clean energy transformation a top State priority via her '**Clean Energy for Tomorrow**' policy agenda, and continues a high level of direct leadership in energy.
- While studies show high potential for meeting 70% or more of the State's energy needs from renewables, **many interrelated regulatory, policy, institutional, and technological changes are needed** to assure most economic, reliable, and rapid uses of these resources.
- The integrated approach needed for Hawaii's clean energy transformation **has not yet been proven** at a scale of significance anywhere in the world to demonstrate the **viability of major reliance on renewable energy resources**.
- The Nation's ability to **capitalize on DOE's investments** in renewable supply, delivery, and end use technologies **will be greatly enhanced** through the first substantial **real-world application** of an integrated, clean energy transformation process in Hawaii.

## Vision

- The Hawaii Clean Energy Initiative (HCEI) will be a **broad-based partnership that effectively focuses federal – via DOE leadership – State, and private capabilities** for clean energy technology development, application, and market transformation.
- The HCEI will **drive a clear acceleration** of clean energy technology penetration from the State's current target levels - for example, 20% of electricity from renewables by 2020 – **to more than double the rate of progress**, and achieve reliance on renewables for meeting **70% or more of overall energy needs within a generation**.

## Approach

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- DOE and Hawaii will enter into a **Memorandum of Understanding** defining the short and long term actions needed to accelerate the State's clean energy transformation.
- DOE will provide Hawaii with **world-class technological leadership** resident in its federal program personnel, National laboratories, and private sector partners as well.
- DOE will **coordinate contributions from key federal agencies**, such as the Departments of Defense and Agriculture, to achieving the vision of the HCEI.
- DOE will identify and implement opportunities for its renewable energy, efficiency, and electricity delivery **programs to fund and support strategic, integrated projects** that further the HCEI vision, while also providing innovative and effective contributions to program objectives.
- **Hawaii will support regulatory, legislative, and outreach initiatives** needed for transformational change, and expand commitments for achieving their urgently needed transition from imported fossil energy resources.

## Benefits

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- Hawaii will realize substantial **energy security, economic growth, and environmental gains** through both reduced dependence on volatile imported fuel supplies and expansion of its clean energy technology industry base.
- DOE will develop and validate **breakthrough approaches for increasing the value of its clean energy technologies** through strategic, full system integration solutions, developed and applied in concert with energy policy and market reform.
- The Nation and the world will be able **to leverage the technological solution sets and transformational strategies** developed and captured via the HCEI to promote application of urgently needed clean energy technologies in much larger settings.