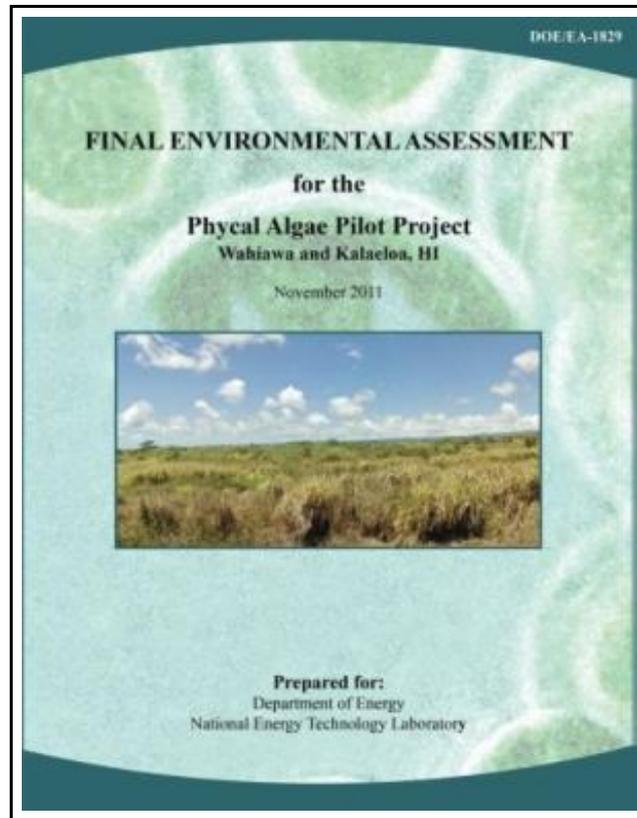


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FINAL ENVIRONMENTAL ASSESSMENT FOR THE PHYCAL ALGAE PILOT PROJECT, WAHIAWA AND KALAELOA, HI (DOEEA-1829)

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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 124 pages. Dimensions: 11.0in. x 8.5in. x 0.3in. DOE prepared this Environmental Assessment (EA) to assess the potential for impacts to the human and natural environment of its Proposed Action -- providing financial assistance to Phycal under a cooperative agreement. DOE's objective is to support the development of innovative concepts for beneficial CO₂ use, which include, but are not limited to, CO₂ mineralization to carbonates directly through conversion of CO₂ in flue gas; use of CO₂ from power plants or industrial applications to grow algae or biomass. Under the terms of the cooperative agreement, DOE would provide approximately 80 percent of the funding for the development of a pilot algae farm and processing facility in Wahiawa and Kalaeloa, Hawaii, to demonstrate the beneficial use of CO₂ for the growing of algae and production of algal oil (referred to as the proposed project within this EA). The proposed project would develop algae technology that demonstrates the future potential of algae oil for biofuels at a level that results in technical, economic, and environmental advantages. This advanced technology would not only help to enhance U. S. energy supplies through the responsible development of domestic renewable energy but would also help to reduce CO₂ emissions to the atmosphere. The proposed project would include developing an algae farm and processing facility, which would include constructing shallow ponds, greenhouses, lab offices, a process building, and an outdoor area with various processing equipment facilities. The proposed project would be split into two phases or Modules. Module 1 would provide a baseline assessment of core processes and initial optimization. Module 2 would include the scaling and integration of supporting processes. The overall objective of proposed project would be to confirm the process economics prior to commencing to...



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