

## **ATTACHMENT A: Potential Site Locations, Volumes and Fuel Types**

Hawaiian Electric Company, Inc. (“HECO”) recognizes that the Proposals received for this local biofuels Request for Proposal (“RFP”) are submitted for local biofuels that are in their early stage of development and therefore HECO is not limiting the proposals to a specific range of biofuel volume. However, all proposed volumes shall be evaluated with respect to mitigation of HECO’s supply risk, the operational and technical feasibility of the proposed biofuel for the generating site, and any HECO infrastructure modifications necessary to receive, store, or burn the biofuel.

HECO may initially restrict each potential supplier to a portion of the fuel requirements for an individual generating site to mitigate HECO’s supply risk. There is no restriction on the minimum bid volume. Bidders may propose supplies to multiple islands and facilities. Generally speaking there will be a trade-off in the evaluation process between risks and volume. Proposals that involve greater risks may be limited in the volumes the HECO would commit to a contract(s). Proposals that involve less risk may potentially secure a larger volume allocation of the total fuel consumption for a given generating unit or facility. However, HECO understands that there are economies of scale and expects bidders to propose terms that are economically viable.

Proposals to supply biodiesel are expected to deliver the biodiesel by truck to HECO’s storage tank(s) at HECO’s generating site. Generating units that currently operate on diesel are candidates for potential use of biodiesel.

Proposals for crude biofuel would potentially supply HECO’s generating units that currently receive petroleum fuel by pipeline only. The logistics of a delivering a locally produced crude biofuel to these generating units outside of the pipeline(s) currently connected to HECO’s facility(s) may require additional HECO plant infrastructure to enable receipt of crude biofuel via truck. Any additional investment required by HECO to receive crude biofuel via truck will be evaluated on the total cost of the biofuel proposal. Proposals may offer a solution for delivering crude biofuel to HECO’s facility(s) through existing pipelines however, potential suppliers shall negotiate the use of third party terminals and pipelines independent of HECO.

Table 1 represents approximate annual consumption volumes of all fuels, including petroleum fuels, at HECO’s sites that may potentially operate with biofuel, some of which have not been tested for the technical feasibility of biofuel use. The total fuel consumption volume shown does not imply that HECO can or will accept part or all of that volume at each given site from biofuel supplies. The chart is intended to provide a guideline of the total volumes of fuels consumed such that proposals may submit reasonable biofuel volumes and indicate which facility(s) are intended to receive the proposed biofuel supply.

Respondents may request more information on the location and logistics of a specific site by submitting the request via electronic mail to:

[RFPquestion@heco.com](mailto:RFPquestion@heco.com)

**Table 1:** Total estimated annual fuel consumption by site and fuel type

<b>COMPANY</b>	<b>Plant</b> "generating unit(s)"	<b>Location</b>	<b>Crude Biofuel</b> barrels	<b>Biodiesel</b> barrels	<b>TOTAL</b> <b>gallons</b> (millions)
<b>Helco</b>	Keahole	Keahole, Hawaii		458,000	19.2
	Puna	Keau, Hawaii		38,000	1.6
	Hill	Hilo, Hawaii		6,600	0.3
	Waimea	Waimea, Hawaii		2,200	0.1
					<b>21.2</b>
	*Hill	Hilo, Hawaii	398,000		16.7
	*Shipman	Hilo, Hawaii	16,000		0.7
	Puna	Keau, Hawaii	169,000		7.1
					<b>24.5</b>
<b>Meco</b>	Maalaea	Kihei, Maui		1,091,000	45.8
	Miki Basin	Lanai		35,000	1.5
	Manele CHP	Lanai		10,000	0.4
	Molokai	Molokai		58,000	2.4
<b>Heco</b>	*Kahe @ 50% <i>assumes a 50/50 blend</i>	Nanakuli, Oahu	2,700,000		113.4
	Campbell Industrial Park	Kapolei, Oahu		150,000	6.3
<b>TOTAL</b>			3,283,000	1,848,800	
	<b>millions of gallons:</b>		<b>137.9</b>	<b>77.6</b>	<b>215.5</b>

\* These sites currently receive fuel via pipeline.

All biodiesel sites may receive biodiesel via truck.

Crude biofuel for Puna may be received via truck.