

**Layer Name:** Wave Energy Transects  
**File Name:** wave\_energy\_transects  
**Layer Type:** Line  
**Status:** Complete  
**Geographic Extent:** Main Hawaiian Islands  
**Projection:** UTM Zone 4 (meters)  
**Datum:** NAD 83 HARN

*Please note - if you are using data in the [State's web services](#) or downloading from the [State's geoportal](#), the data is served and exported in WGS84 coordinates, although it is stored internally in UTM coordinates.*

**Description:** This data shows wave energy transect lines digitized by EA Engineering from Hagerman, G. 1992. [Wave Energy Resources and Economic Assessment for the State of Hawaii](#). Work was done as part of a contract for the US Army Corps of Engineers in support of the State of Hawaii's 2030 Clean Energy Initiative. For more information, see FGDC compliant metadata at [http://files.hawaii.gov/dbedt/op/gis/data/wave\\_energy\\_transects.html](http://files.hawaii.gov/dbedt/op/gis/data/wave_energy_transects.html).

**History:** A database was developed in 2010-2011 for the US Army Corps of Engineers and the State of Hawaii Energy Office in support of the State of Hawaii's 2030 Clean Energy Initiative. Layer was digitized and adapted from Figure 2-16 to 2-21 of Hagerman, G. 1992. [Wave Energy Resources and Economic Assessment for the State of Hawaii](#). Attribute data is from these figures as well. Attributes include name of transect and kW/m estimate at 80m depth, per the source figures.

**Source:** DBEDT State Energy Office, 2012

**Attributes:** Name: Transect Name (from report cited above)  
m\_KwPerM: Avg wave power (kw/M) at 80 meters depth

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