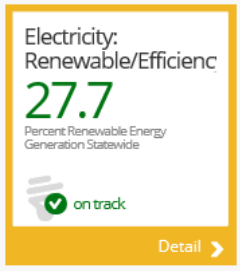
2018

Hawai'i Annual Code Challenge (HACC)

Challenge	Energy Consumption and Trends
Department / Organization	UH Office of Energy Management
Contact Information	Miles Topping, 808-383-3873, mtopping@hawaii.edu

Aloha+ Dashboard Connection

Clean Energy Transformation	**Electricity: Renewable / Efficiency**	*UH is aiming for Net Zero Energy by 2035, as well as progress towards Aloha Plus Challenge Clean Energy goals*
	*By 2030, increase energy efficiency by 30%.*	

Challenge Information

Background	UHM campus has upgraded several its most energy-intensive buildings to digital submeters and implemented an Energy Management System - Blue Pillar. The current Energy Management System is collecting energy consumption and power quality data at up to 1-second intervals, however it has limited data visualization capacities. UH is working towards developing an energy dashboard to help campus community and decision makers better understand Strategic Energy Management at our campuses. Understanding min-max amounts of a building's energy consumption will allow the Office of Energy Management to identify anomalies so that energy savings opportunities can be identified and capitalized upon. Visualizing where and how energy is consumed on-campus will allow stakeholders to make informed decisions about issues ranging from CIP and Operating budget allocations to after-hours requests for facilities use. * 60% of the energy used by a building is Air Conditioning and many of the buildings Air Conditioning is produced by the anchor building for that loop. Challenges: • Limited capacity for energy data analytics (min and max usage) • Limited data visualization capacities

Data	• Blue Pillar Database
Ideas	Blue Pillars Plug-ins, Real time dashboard, Visualizations showing energy consumption