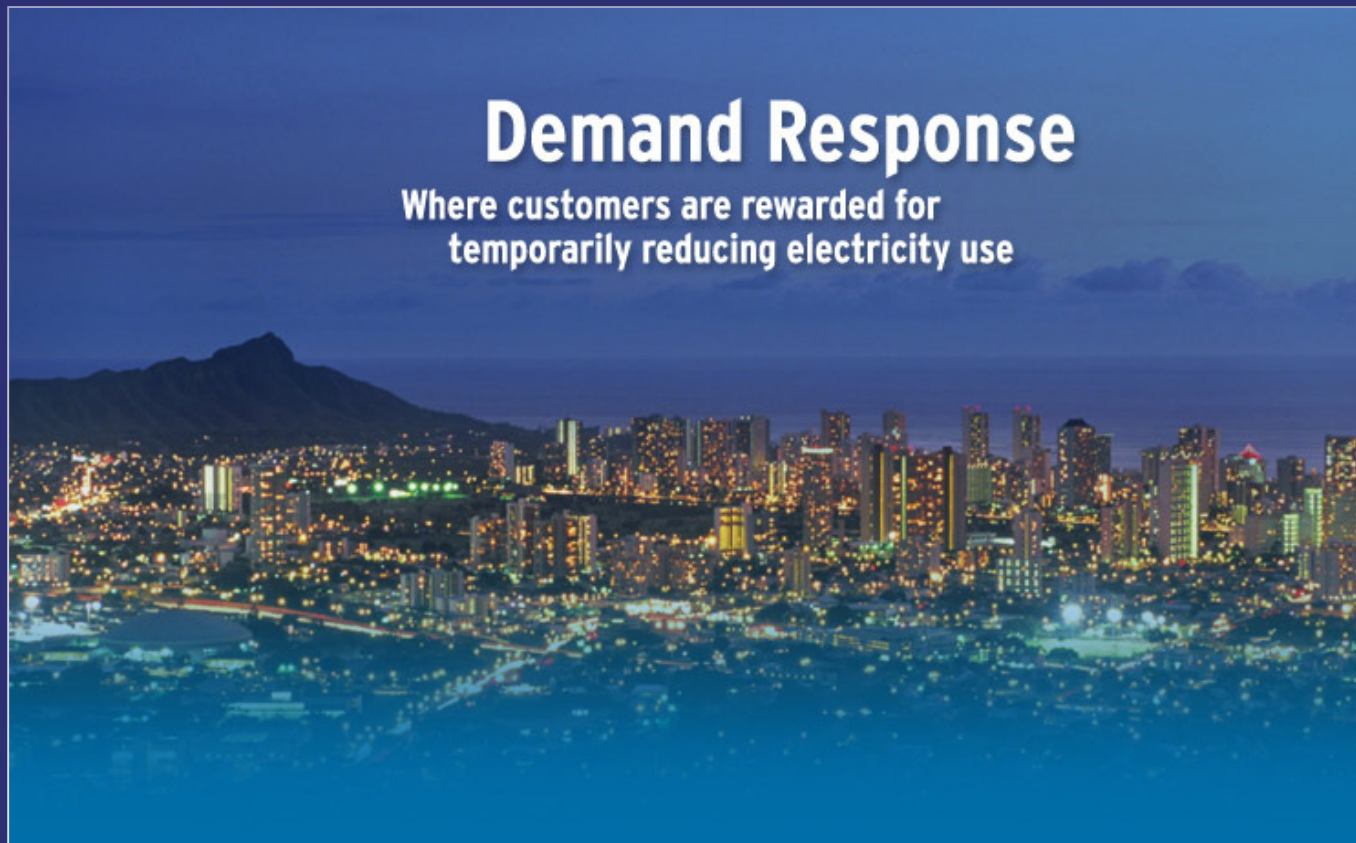


# OpenADR Member Meeting

## Hawaiian Electric Company



### Demand Response

Where customers are rewarded for  
temporarily reducing electricity use



**Hawaiian  
Electric**

# Topics

- ◆ Hawaiian Electric
- ◆ Fast DR Pilot
- ◆ Load Increase Project
- ◆ Load Following Project



**Hawaiian  
Electric**

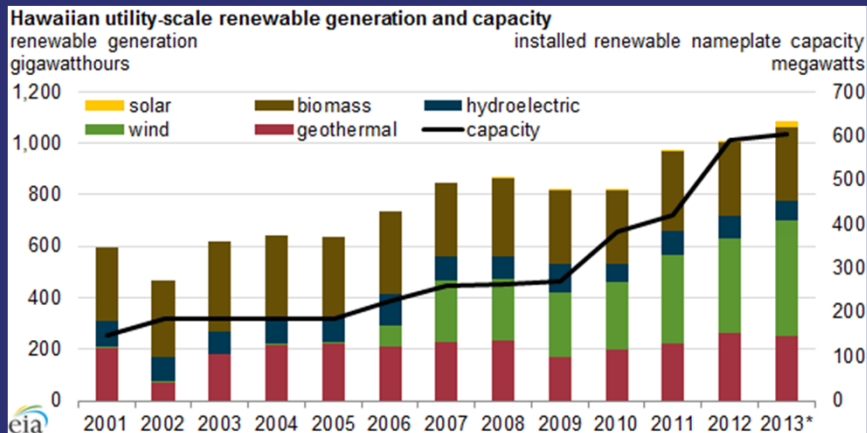
# Hawaiian Electric

## ◆ Hawai'i Goals

- 40% Renewables by 2020

## ◆ Hawaiian Electric Goals

- Clean energy
- Safety
- customer



<http://www.eia.gov/todayinenergy/detail.cfm?id=15091>



**Hawaiian  
Electric**

# Fast DR Pilot

- ◆ Purpose: Bridging Resource for Wind
- ◆ Term: January 2012 – December 2014
- ◆ Customer Type: Office Buildings, Condos, Schools, Retail Shops, Water and Waste water plants, Hospitals
- ◆ OpenADR: 1.0 High Event Only
- ◆ Shed Schemas:
  - Shut down heat pumps, pool pumps, and fountain equipment
  - Raise set point on A/C units
  - Shut down supply and exhaust fans
  - Reduce VFD speeds or cycle AHU's
  - Demand limit or shut down chiller plant
  - Reset chilled water supply temperature
  - Shut off water pumps or waste water plant

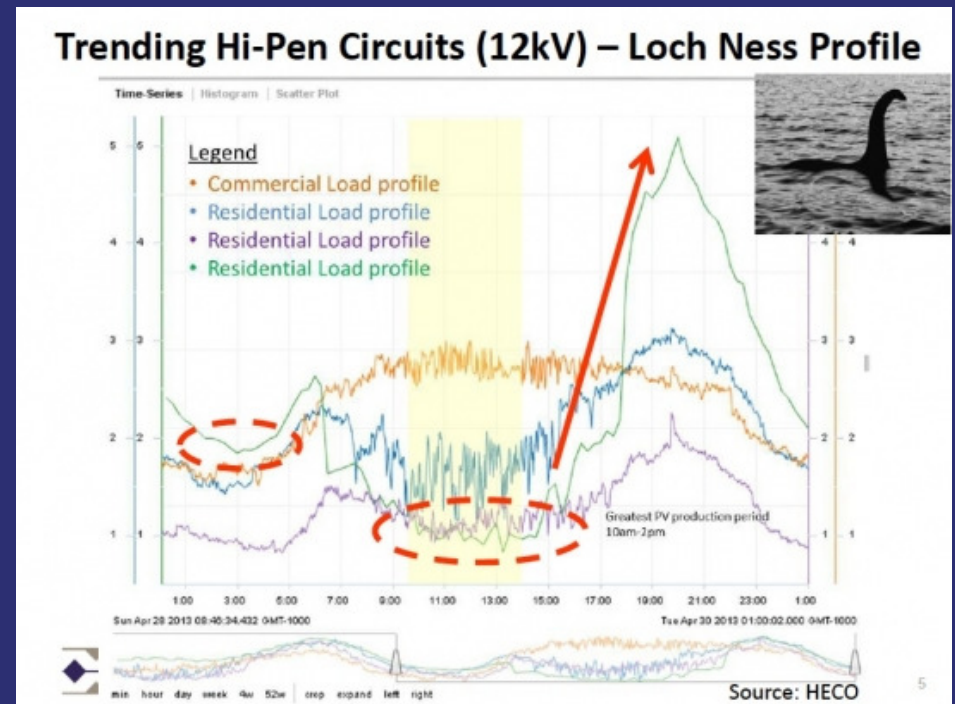


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Electric**



# Load Increase Project

- ◆ Purpose: Integrate system, measure inefficiencies, test shed schemas, research contract terms for demand increase
- ◆ Term: March - September 2014
- ◆ Customer Type: Water
- ◆ OpenADR: 1.0 Pending Event (2<sup>nd</sup> Relay for load increase)
- ◆ Potential Next Steps: Partner with Board of Water Supply on each island



# Load Following Project

- ◆ Purpose: Integrate system, measure latency, analyze system constraints
- ◆ Term: June - December 2014
- ◆ Customer Type: Waste Water
- ◆ OpenADR: 2.0b (Incremental Dispatch)
- ◆ Potential Next Steps: Integrate at feeder level

