Energy Cost Adjustment Clause (ECAC)

January 15, 2009

Alan Hee

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What is the ECAC?

- Adjusts customers' bills for difference between current energy costs and costs in base rates (¢/kWh)
- Utility makes no profit on changes in cost
- Has existed at HECO since 1925
- In effect at HECO, HELCO, & MECO



Automatic Adjustment Clause

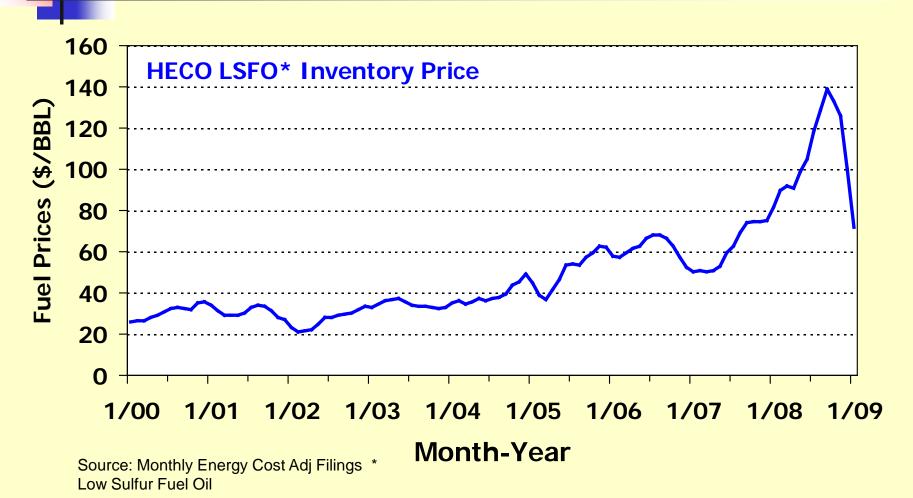
- Adjusts for cost changes without rate proceeding
 - Costs vary significantly
 - Make up a large portion of expenses
 - Outside of utilities' control
- Reduces the cost of administering frequent changes in base rates

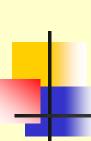


What Costs Pass Through the ECAC?

- PUC-approved contract energy costs
- Negotiated contracts
 - Utilities strive to get competitive prices
 - Fuel burned in utility-owned generating units purchased from local refineries
 - Purchased energy from Independent Power Producers (including renewable energy)
- Utility generated renewable energy (at zero energy cost)

Fuel Prices Vary Significantly



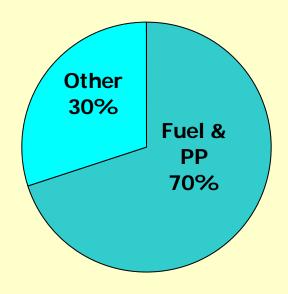


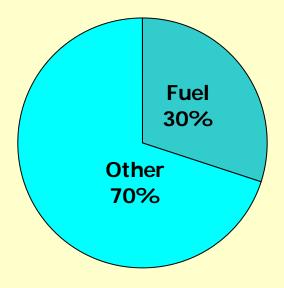
Fuel/Purchase Energy – Large Portion of Operating Expense

Fuel/Purchase Energy As % of Total O&M Expense (2007)

HECO Consolidated*

Hawaiian Air





*HECO Consolidated: Fuel & PP Includes Only Expenses That Pass Through the ECAC



Why Is ECAC Necessary?

- ECAC reduces financial risk
 - Cost that varies significantly
 - Large portion of expenses
 - Out of utilities' control
- Reduces the cost of capital needed to invest in infrastructure
- Reduces the cost to run the utility
- Leads to a financially secure off-taker for purchases of renewable energy
- Allows utilities to accept energy from renewable energy developers and recover the cost without rate proceedings



How Are Customers Affected?

- Resulting lower payment rates for capital and borrowings are passed on to customers through lower base rates
- Customers see the true cost of energy
- When fuel prices are low, customers participate in savings
- Encourages renewable energy development

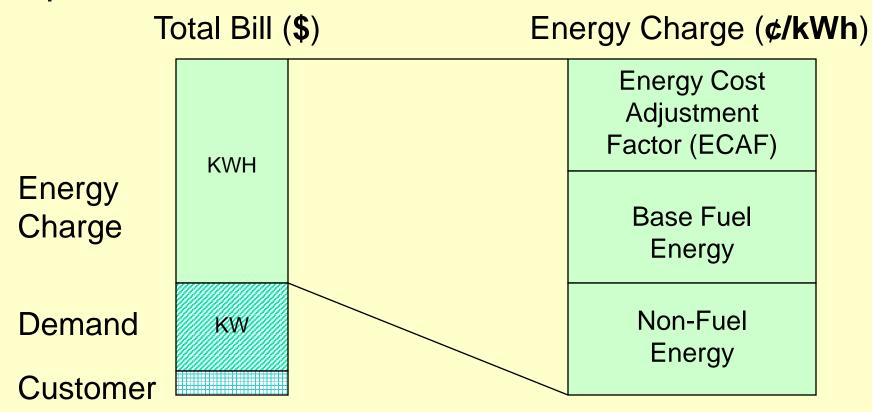


Commission Oversight

- Reviews of the ECA Clause in each rate case
- Reviews and approves fuel contracts and purchased power agreements
- Receives monthly notification of energy cost changes in ECA Clause



Components of An Electric Bill

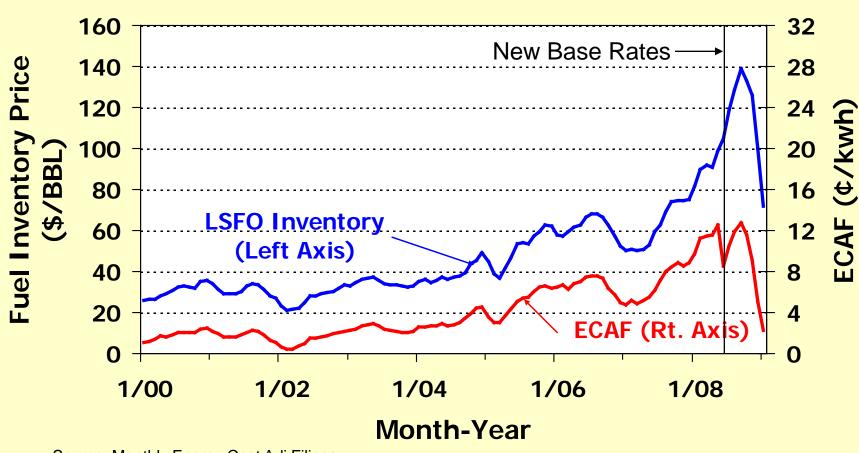




	<u>HECO</u>	<u>Maui</u>	HELCO
Base Fuel Energy (¢/kWh)	8.8903	4.5937	7.6132
Effective Date	Jun 08	Apr 99	Feb 01
Fuel Price (\$/bbl)			
Low Sulfur Fuel Oil (LSFO)	54		
Industrial		14	30
Diesel	79	26	41



HECO ECAF and Fuel Prices



Source: Monthly Energy Cost Adj Filings



Fuel Price (Market to Customer's Bill)

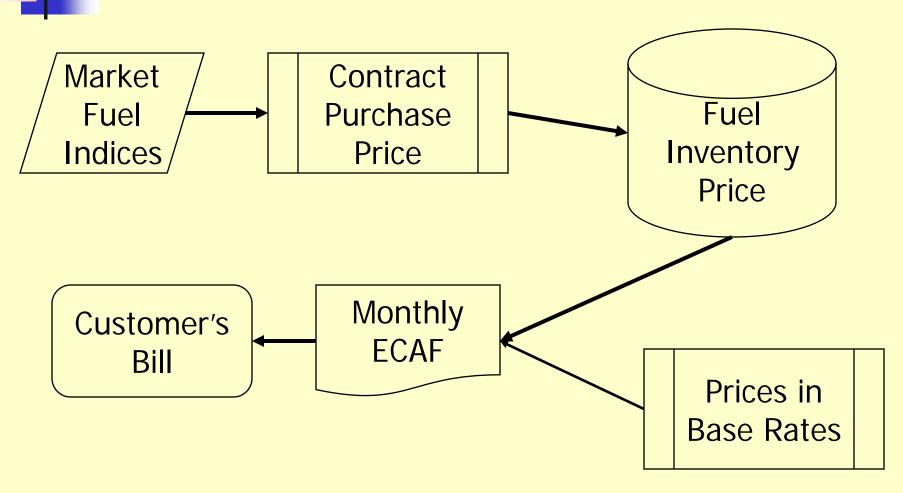
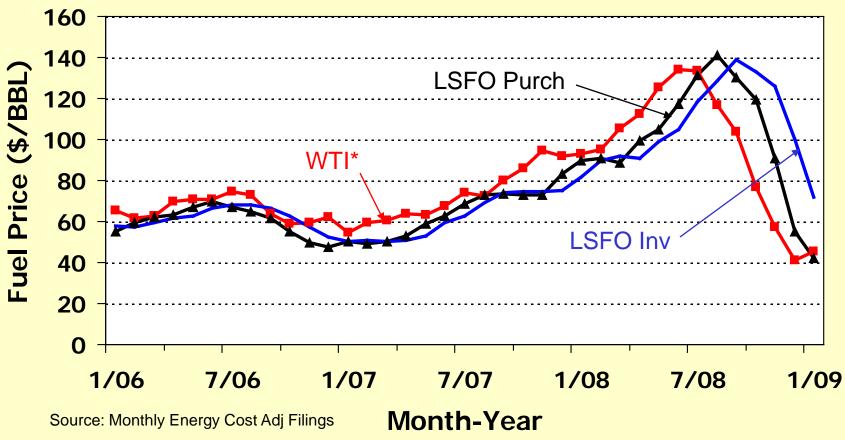




Illustration of Fuel Price Timing

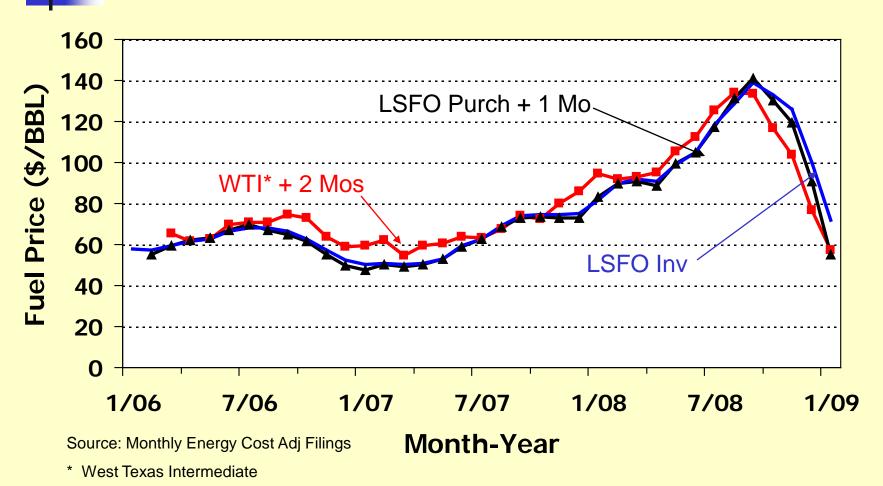
Market Oil Purchased Oil Burned To Indices Set and Placed in Generate Purchase 30-Day Electricity, Change In Inventory Price Price Included in Bill November December January

HECO Fuel Prices



^{*} West Texas Intermediate (Illustrative of a market index)

HECO Fuel Prices (Shifted)





ECAC Summary

- Adjusts customers' bills for difference in current energy costs and costs in base rates
- Energy costs are a large portion of expenses
- Customers benefit
 - Lower financing costs passed on to customers through lower base rates
 - See true cost of energy
 - Participate in savings when prices low
- Encourages renewable energy development

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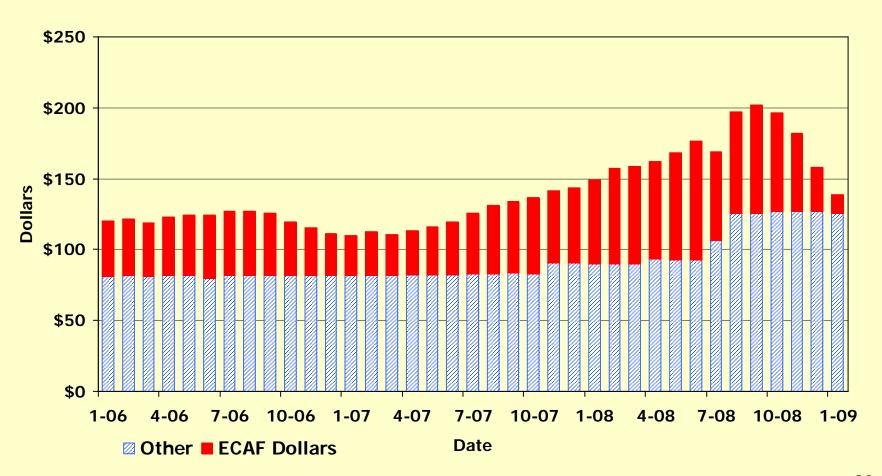
Energy Adjustment Clauses Widely Used on Mainland

- 33 States have an adjustment clause for energy costs
- Reasons for no ECAC:
 - Deregulated market
 - Typically deregulated utilities distribute, but do not generate, electricity. Therefore, they just pass on their cost of power to customers
 - Fuel prices do not fluctuate significantly (E.g., coal)

^{*}Source: National Economic Research Associates (NERA)

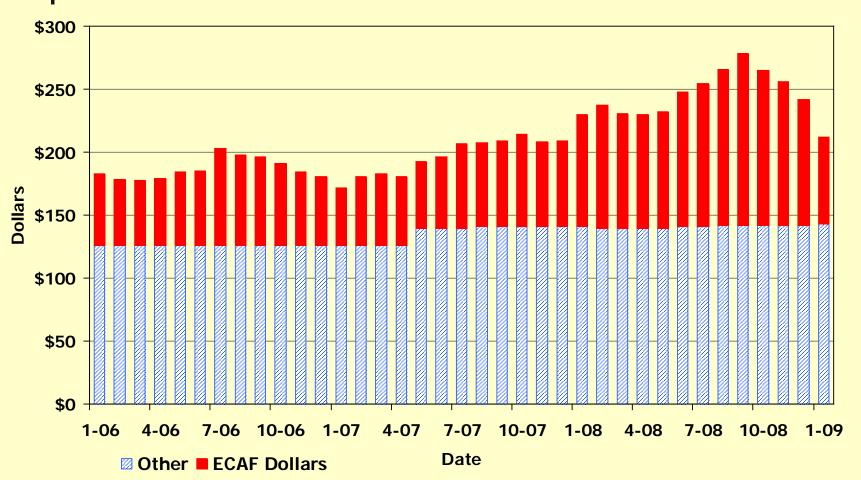


HECO Typical Bill At 600 kWh





HELCO Typical Bill At 600 kWh





Maui Typical Bill At 600 kWh

