

After MicroPlanet Regulation

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MicroPlanet products are installed in more than 500 locations, both residential and commercial, and are reducing energy consumption from 5-12% where voltage is on the high side of the allowed range and are improving quality and reliability where the voltage is low.



Three Main Applications

**Residential Energy Conservation
High Voltage**

**Commercial Energy Conservation
High Voltage, 3 Phase**

Power Quality – Low Voltage

MICROPLANET

Energy Efficient and Environmentally Friendly



**Residential
Installation**

**Pole Mount
LVR**



**Commercial 3 Phase
Installation**

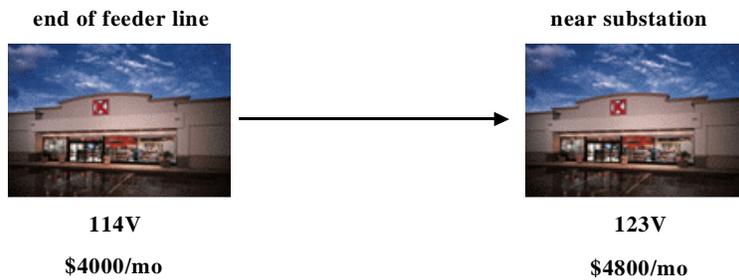
MICROPLANET

Load Type – Typical Savings

 electric heater	$P=V^2$	As voltage is reduced current also decreases	12% - 17% savings
 air conditioning		As voltage is reduced current is decreased, but heater remains on longer	12% - 17% demand reduction
	$P=V$	As voltage is reduced current remains constant	8% - 9% savings
	$P = \text{constant}$	As voltage is reduced current increases to maintain constant power	minimal savings

Electricity Usage Changes Based on Location

Same Business and Usage



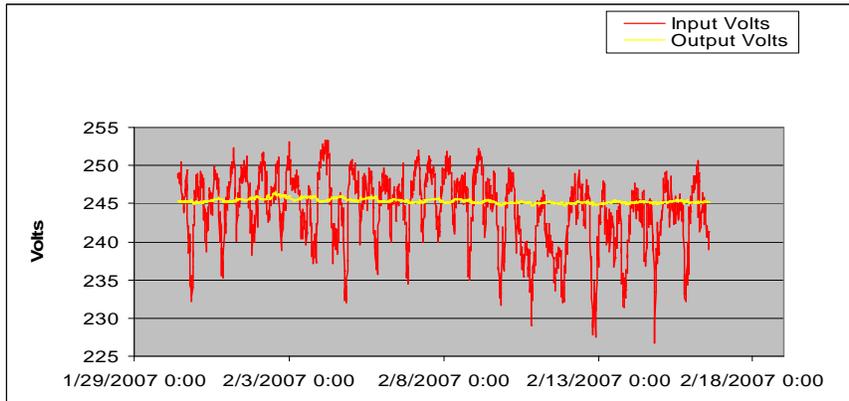
HECO Test at Iroquois Point

- Independent Test conducted for Hunt Builders by HECO
- Principal load was an air conditioned 3 bedroom home
- 7.8% savings in total consumption
- \$450 in savings per year
- 6.02 kWh savings/day and 2000+ kWh year

MicroPlanet on Hawaii

- On January 30, 2007 HECO Approved MicroPlanet as a DSM measure
- MicroPlanet now working with four Island Builders to quantify savings
- Pilot project expected 1st Quarter of 2007
- Builders programs expected 3rd Quarter of 2007
- Three phase installation sites early 2007

MicroPlanet Delivers Energy Savings



Summary

- MicroPlanet technology has been field tested on three continents
- Significant (7.8%) energy savings at Iroquois Point
- Non-behavioral based energy changes
- Extends life of electrical equipment

