

WIND POWER ON MAUI



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- ③ 3 LARGE SCALE “WIND FARMS” APPROVED FOR MAUI ISLAND:
 - ③ KAHEAWA WIND PARTNERS
 - ③ 1 30 MEGA WATT (MW) MAX OUTPUT
 - ③ KAHEAWA WIND PARTNERS
 - ③ 2 21 MW MAX OUTPUT
 - ③ AUWAHI WIND/SEMPRA
 - ③ 21 MW MAX OUTPUT
 - ③ TOTAL **72 MW**
 - ③ MAX DAILY ELEC DEMAND <200MW

SOLAR GROWTH

- ◎ SOLAR IS GROWING FASTER THAN EXPECTED
- ◎ IN 2011 MAUI COUNTY RESIDENTS ADDED MORE SOLAR THAN IN THE PRIOR TEN YEARS COMBINED



SOLAR POWER ON MAUI



FIRST COUNTY SOLAR ROOF

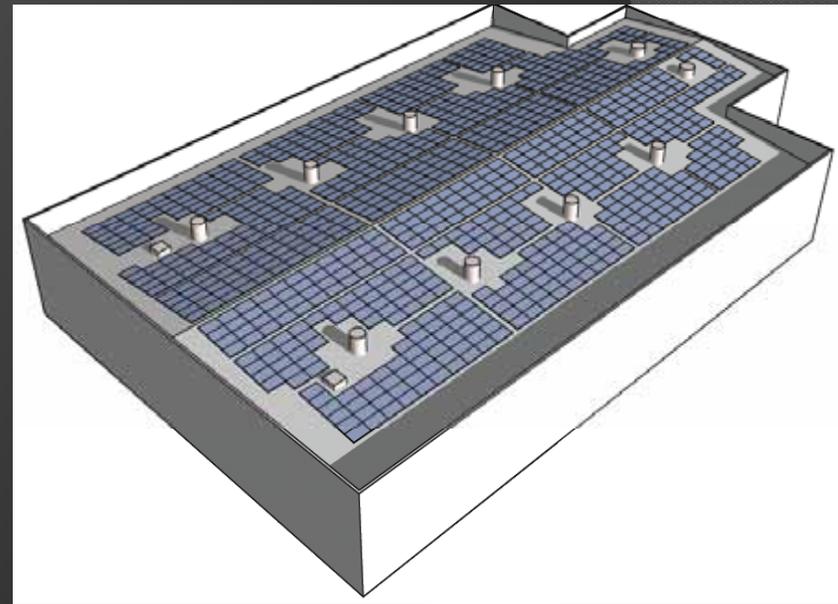


MAUI NET METERED SOLAR

MECO	# OF INSTALLATIONS	INSTALLED KW
2001	2	8.20
2002	5	8.80
2003	3	13.00
2004	8	21.60
2005	16	92.15
2006	50	233.47
2007	64	359.81
2008	135	947.00
2009	298	2,336.00
2010	342	1919.00
2011	1,039	6,624.22
TOTAL MECO	1,962	12,563.20

EXAMPLE SITE: LAHAINA CIVIC CENTER

- System size: 160kW-DC
- 247,200 kWh generated per year
- Energy Charge: \$0.147/kWh (1st year)
 - Grid energy charge rate: \$0.271/kWh (last-twelve-month average)
- ~\$30,000 expected savings in first year



COUNTY INITIATIVES



Those hybrid lights are state of the art

- Off grid LED lighting powered by solar pv and wind turbines, all with battery backup.
- County is installing 45 of these hybrid lights at 3 wastewater treatment facilities
- Each light completely and permanently replaces grid tied lighting created by oil power