HAWAIIAN ELECTRIC COMPANY, INC. (HECO)

	Cumulative Target Goal (MW by year-end)							
Renewable Energy Commitments	2010	2015	2020	2025	2030			
RENEWABLE GENERATION								
IPP Projects (info based on IPP proposals)								
Kahuku Wind	30.0	30.0	30.0	30.0	30.0			
Sea Solar OTEC		25.0	100.0	100.0	100.0			
Lockheed Martin OTEC		10.0	10.0	10.0	10.0			
Molokai and/or Lanai Wind		400.0	400.0	400.0	400.0			
Honua Waste-to-Energy		6.0	6.0	6.0	6.0			
C&C Waste-to-Energy RFP Non-firm RE		11.0 100.0	11.0 100.0	11.0 100.0	27.0 100.0			
RFP NON-IIIM RE		100.0	100.0	100.0	100.0			
Utility Projects								
Airport DSG (Bio-fuel)	8.0	8.0	8.0	8.0	8.0			
DG at substations (Bio-fuel)		30.0	30.0	30.0	30.0			
CIP CT-1 (Bio-fuel)	110.0	110.0	110.0	110.0	110.0			
CIP CT-2 (Bio-fuel)		110.0	110.0	110.0	110.0			
Military DG (Biofuel)		50.0	62.5	75.0	75.0			
Total RE Generation	148.0	890.0	977.5	990.0	1,006.0			
ENERGY EFFICIENCY/CUSTOMER SITED GENERATION								
PV (through feed-in tariff or PPA)	6.5	23.0	65.0	108.0	140.0			
Solar Opportunity	0.0	20.0	00.0	100.0	140.0			
Mandatory Solar Roofing, SB644	1.0	3.0	6.0	9.0	11.0			
Pay-As-You-Save Solar Program	2.0	6.0	10.0	15.0	19.0			
PV Host Program	2.0	12.0	22.0	32.0	42.0			
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Net Energy Metering	5.0	23.0	57.0	97.0	127.0			
Distributed Generation & Distributed Energy								
Resources	0.0	8.0	15.5	23.0	35.0			
Seawater Air Conditioning	0.0	16.0	16.0	16.0	16.0			
Total EE/DG	16.5	91.0	191.5	300.0	390.0			
TOTAL RE & EE/DG	168.5	1,015.0	1,220.0	1,358.0	1,481.0			
PEAK REDUCTION/PEAK SHIFTING								
Demand Response Program & Load								
Management	60.0	73.0	89.0	103.0	116.0			
Pricing Programs								
Residential TOU Rates								
Commercial TOU Rates	2.0	10.0	20.0	31.0	41.0			
Industrial TOU Rates								
Critical Peak Pricing	2.0	24.0	31.0	37.0	44.0			
2								
TO ANODODTATION OF COTOFOR STON								
	600	26.000	66.000	00.000	100.000			
Plug-In Hybrid Cars (# of Cars, Oahu Only)	600	36,000	66,000	96,000	126,000			

HELCO TIMELINES

HAWAII ELECTRIC LIGHT COMPANY, INC. (HELCO)

	Cumulative Target Goal (MW by year-end)				
Renewable Energy Commitments	2010	2015	2020	2025	2030
RENEWABLE GENERATION					
IPP Projects (info based on IPP proposals) PGV Geothermal	8.0	8.0	8.0	30.0	30.0
Hamakua Biomass or Hu Honua	0.0	8.0 25.0	25.0	30.0 25.0	30.0 25.0
Hawaii County Waste-To-Energy		4.0	4.0	4.0	4.0
Sopogy Solar	0.5	0.5	0.5	0.5	4.0 0.5
Na Makani Wind and PSH	0.0	4.5	4.5	4.5	4.5
		1.0	1.0	1.0	
Total RE Generation	8.5	42.0	42.0	64.0	64.0
ENERGY EFFICIENCY/CUSTOMER SITED G	ENERATION				
PV (through feed-in tariff or PPA) Solar Opportunity	1.8	7.8	18.0	30.0	39.0
Mandatory Solar Roofing, SB644	1.0	4.0	8.0	12.0	15.0
Pay-As-You-Save Solar Program	0.2	1.0	3.0	4.0	5.0
PV Host Program	2.0	7.0	12.0	17.0	22.0
Net Energy Metering	1.3	6.0	14.0	24.0	32.0
Distributed Generation & Distributed Energy Resources	2.7	6.6	10.0	12.6	12.5
Total EE/DG	9.0	32.4	65.0	99.6	125.5
TOTAL RE & EE/DG	17.9	80.4	115.0	172.6	202.5
PEAK REDUCTION/PEAK SHIFTING Demand Response Program & Load					
Management	0.0	1.0	4.0	4.0	4.0
Pricing Programs Residential TOU Rates					
Commercial TOU Rates	→ 0.2	2.0	3.0	3.0	5.0
Industrial TOU Rates	0.2	4.0	5.0	6.0	8.0
TRANSPORTATION ELECTRIFICATION Plug-In Hybrid Cars (# of Cars, Hawaii Only)	1,200	7,200	13,200	19,200	25,200

MAUI ELECTRIC COMPANY, LTD (MECO)

	Cumulative Target Goal (MW by year-end)						
Renewable Energy Commitments	2010	2015	2020	2025	2030		
RENEWABLE GENERATION IPP Projects (info based on IPP proposals)							
Shell Wind		21.0	21.0	21.0	21.0		
Lanai Solar	1.2	1.2	1.2	1.2	1.2		
Oceanlinx Wave		2.7	2.7	2.7	2.7		
Pulehu Biomass		6.0	6.0	6.0	6.0		
Landfill gas (Waste-to-Energy)		Un	known status.				
KWP II		21.0	21.0	21.0	21.0		
Total RE Generation	1.2	51.9	51.9	51.9	51.9		
ENERGY EFFICIENCY/CUSTOMER SITED GENERATION							
PV (through feed-in tariff or PPA)	1.8	7.8	18.0	30.0	39.0		
Solar Opportunity	1.0	0.0	0.0	0.0	11.0		
Mandatory Solar Roofing, SB644	1.0	3.0	6.0	9.0	11.0		
Pay-As-You-Save Solar Program PV Host Program	0.1	2.0	3.0	5.0	6.0		
PV Host Program	2.0	7.0	12.0	17.0	22.0		
Net Energy Metering	2.2	10.0	24.0	42.0	54.0		
Distributed Generation & Distributed Energy							
Resources	1.8	4.8	7.8	10.8	12.0		
Total EE/DG	8.9	34.6	70.8	113.8	144.0		
TOTAL RE & EE/DG	10.5	92.5	131.7	177.7	209.9		
PEAK REDUCTION/PEAK SHIFTING Demand Response Program & Load Management	4.0	8.0	9.0	10.0	10.0		
Pricing Programs Residential TOU Rates Commercial TOU Rates	} 0.2	2.0	3.0	5.0	6.0		
Industrial TOU Rates	J						
Critical Peak Pricing	0.2	4.0	6.0	7.0	8.0		
TRANSPORTATION ELECTRIFICATION Plug-In Hybrid Cars (# of Cars, Maui Only)	1,200	7,200	13,200	19,200	25,200		