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HECO CHP Forecast - With Utility Participation
Total Market Annual Potential

	Total kW [1]	Systems	Utility		3rd Party	
			Systems	kW	Systems	kW
2003	300	1	1	300	0	0
2004	2730	6	5	2275	1	455
2005	3000	6	5	2500	1	500
2006	4000	8	6	3000	2	1000
2007	4000	8	6	3000	2	1000
2008	4500	9	7	3500	2	1000
2009	3500	7	6	3000	1	500
2010	3000	6	5	2500	1	500
2011	2500	5	4	2000	1	500
2012	2000	4	3	1500	1	500
2013	2000	4	3	1500	1	500
2014	1500	3	2	1000	1	500
2015	1500	3	2	1000	1	500
2016	1500	3	2	1000	1	500
2017	1350	3	2	900	1	450
2018	1350	3	2	900	1	450
2019	1000	3	2	667	1	333
2020	867	3	2	667	1	200
2021	666	2	1	333	1	333
2022	867	3	2	667	1	200
Total	44329	97	72	33542	25	10787
2003-08	18530	38	30	14575	8	3955

[1] Includes utility and 3rd party CHP
Source: Energy Projects 7/25/03

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HECO CHP Forecast
No Utility Participation
Total Market Annual Potential

	Total kW [1]	Systems	kW/Unit
2003	300	1	300
2004	1000	3	333
2005	1500	2	750
2006	1500	3	500
2007	1500	3	500
2008	1500	3	500
2009	1500	3	500
2010	1500	3	500
2011	1000	2	500
2012	1000	2	500
2013	1000	2	500
2014	1000	2	500
2015	1000	2	500
2016	1000	3	333
2017	1000	3	333
2018	1000	3	333
2019	1000	3	333
2020	666	2	333
2021	666	2	333
2022	666	2	333
Total	23296	55	
2003-08	7300	15	

[1] 3rd party CHP only, no utility CHP
Source: Energy Projects, 7/16/03

HELCO CHP Forecast - With Utility Participation
Total Market Annual Potential

	Total kW [1]	Systems	Utility		3rd Party	
			Systems	kW	Systems	kW
2003	900	2	0	0	2	900
2004	1600	4	3	1200	1	400
2005	2400	4	3	1800	1	600
2006	2500	5	4	2000	1	500
2007	2500	5	4	2000	1	500
2008	2500	5	4	2000	1	500
2009	2000	5	4	1600	1	400
2010	2000	5	4	1600	1	400
2011	1500	4	3	1200	1	300
2012	1200	4	3	900	1	300
2013	1000	4	3	750	1	250
2014	1000	4	3	750	1	250
2015	1000	4	3	750	1	250
2016	900	4	3	750	1	150
2017	950	4	3	750	1	200
2018	850	4	3	750	1	100
2019	1000	4	3	750	1	250
2020	900	4	3	750	1	150
2021	600	3	2	500	1	100
2022	950	4	3	750	1	200
Total	30500	92	68	23300	24	7200
2003-08	12400	25	18	9000	7	3400

[1] Includes utility and 3rd party CHP
Source: Energy Projects, 7/25/03

HELCO CHP Forecast
No Utility Participation
Total Market Annual Potential

	Total kW [1]	Systems	kW/Unit
2003	900	2	450
2004	1200	3	400
2005	1400	4	350
2006	1200	3	400
2007	1000	3	333
2008	1000	3	333
2009	1000	3	333
2010	1000	3	333
2011	1000	4	250
2012	1000	4	250
2013	1000	4	250
2014	1000	4	250
2015	1000	4	250
2016	1000	4	250
2017	1000	4	250
2018	1000	4	250
2019	1000	4	250
2020	750	3	250
2021	750	3	250
2022	750	3	250
Total	22200	78	
2003-08	6700	18	
2003-12	10700	32	

[1] 3rd party CHP only, no utility CHP
Source: Energy Projects, 7/16/03 CHP Forecast - No Utility Participation

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Maui CHP Forecast - With Utility Participation
Total Market Annual Potential

	Total kW [1]	Total Systems	Utility		3rd Party	
			Systems	kW	Systems	kW
2003	1500	2	1	1000	1	500
2004	3000	6	5	2500	1	500
2005	3150	7	6	3000	1	150
2006	4000	8	7	3500	1	500
2007	2700	7	6	2400	1	300
2008	1100	4	3	1000	1	100
2009	1150	5	4	1000	1	150
2010	1000	5	4	800	1	200
2011	900	4	3	800	1	100
2012	950	4	3	800	1	150
2013	700	3	2	500	1	200
2014	850	4	3	750	1	100
2015	950	4	3	750	1	200
2016	850	4	3	750	1	100
2017	900	3	2	500	1	400
2018	900	4	3	750	1	150
2019	950	4	3	750	1	200
2020	600	3	2	500	1	100
2021	900	4	3	750	1	150
2022	700	3	2	500	1	200
Total	30350	99	76	25300	23	5050
2003-08	15450	34	28	13400	6	2050

[1] Includes utility and 3rd party CHP
Source: Energy Projects, 7/16/03 CHP Forecast - With Utility Participation

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Maui CHP Forecast
No Utility Participation
Total Market Annual Potential

	Total kW [1]	Systems	kW/Unit
2003	1200	2	600
2004	1200	3	400
2005	1300	3	433
2006	1000	3	333
2007	1000	3	333
2008	1000	3	333
2009	1000	4	250
2010	1000	5	200
2011	800	3	267
2012	800	3	267
2013	400	1	400
2014	400	2	200
2015	400	2	200
2016	400	2	200
2017	400	1	400
2018	400	2	200
2019	400	2	200
2020	200	2	100
2021	200	1	200
2022	150	1	150
Total	14250	51	
2003-08	6700	17	

[1] 3rd party CHP only, no utility CHP
Source: Energy Projects, 7/16/03 CHP Forecast - No Utility Participation