











































			Fuel Use		nissions (		
		GWh	MMBtu	NOx	SOx	CO2	
	Combined Cycle	-2.1	-15545	0	-2	-1352	
	Combustion Turbine	-1.3	-13905	-1	-2	-1245	
	Diesel Puna Geothermal	0.0	-341	0	0	-29	
	Small Hydro	0.0 0.0	0	0	0 0	0	
	Steam Oil	-0.6	-7582	-1	-1	-726	
	Wind	-0.0	-7562	-1	-1	-720	
	Solar	0.0	0	0	0	0	
	Grand Total	0.0	-37374	-2	-6	-3352	
offsets f But, HE	other changes to ossil fuel genera LCO must main changes in wind	ation a tain th	and redu neir syst	ices e em fre	emiss equer	ions hcy at (	60 Hz

Is there more to this story?					
Cost Adders	Wind power reduces the island's carbon footprint, and reduces the amount of imported petroleum, but				
I	<ol> <li>More spinning reserve will be needed - More oil must be burned so some generation is ready to quickly meet changes in the system load or wind farm output, and/or</li> </ol>				
ţ	<ol> <li>New technologies can be used to mitigate the intermittency of wind power.</li> </ol>				
?	3) Price paid to wind producers matters. If HELCO pays a wind producer more than it costs them to produce electricity from fossil fuel generation, more wind power will cost the island more.				
West Coast Re	GIONAL CARBON SEQUESTRATION PARTNERSHIP				



