## Appendix E

Table 4-1. CCAC-recommended policy options and results for the energy supply sector

	Policy Option	GHG Reductions (MMtCO₂e)			Net Present	Cost-			
		2012	2020	Total 2007- 2020	Value 2007– 2020 (Million \$)	(\$/tCO <sub>2</sub> e)	Support		
	Energy Supply								
ES-1	Environmental Portfolio Standard (Renewables and Energy Efficiency)						UC		
	Efficiency/Conservation	0.03	0.92	5.4	-\$79	-\$15	UC		
	Renewable Energy	0.0	1.6	5.5	\$53	\$10	UC		
ES-2	Renewable Energy Incentives and Barrier Removal	Not q	UC						
ES-3	Research and Development (R&D), Including R&D for Energy Storage and Advanced Fossil Fuel Technologies	Not q	UC						
ES-4	Incentives and Barrier Removal for Combined Heat and Power (CHP) and Clean Distributed Generation (DG)								
	Distributed Renewables	0.03	0.10	0.8	\$16	\$21	UC		
	Combined Heat and Power	0.2	0.7	5.0	\$81	\$16	UC		
ES-5	Incentives for Advanced Fossil Fuel Generation and Carbon Capture and Storage or Reuse (CCSR)								
	Reference Case	0	1.0	4.5	\$135	\$30	UC		
	High Fossil Fuel Scenario	0	5.2	24.4	\$733	\$30	UC		
ES-6	Efficiency Improvements and Repowering of Existing Plants	Not qu	UC						
ES-7	Demand-Side Management	Not qu (see E	UC						
ES-8/9	Market-Based Mechanisms to Establish a Price Signal for GHG Emissions (GHG Cap-and-Trade or Tax)	Not qu	UC						
ES-10	Generation Performance Standards or GHG Mitigation Requirements for New (and/or Existing) Generation Facilities, With/Without GHG Offsets	0.1	0.8	4.7	\$60	\$13	uc		
ES-11	Methane and CO₂ Reduction in Oil and Gas Operations, Including Fuel Use and Emissions Reduction in Venting and Flaring								
	Reference Case	0.1	0.5	3.9	Not	Likely net	UC		
	High Fossil Fuel Case	0.3	8.0	6.6	estimated	benefit	UC		
ES-12	GHG Reduction in Refinery Operations, Including in Future Coal-to-Liquids Refineries								
	Coal-to-Liquids – High Fossil Fuel Case	0	9.9	35	Not estimated	Not estimated	UC		
	Petroleum Refining - Reference Case	0.02	0.24	1.5	Not estimated	Not estimated	UC		
	Petroleum Refining - High Fossil Fuel Case	0.03	0.38	2.2	Not estimated	Not estimated	UC		

		GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value	Cost- Effective-	l aval of
	Policy Option	2012	2020	Total 2007– 2020	2007– 2020 (Million \$)	ness (\$/tCO <sub>2</sub> e)	Support
ES-13	CO <sub>2</sub> Capture and Storage or Reuse (CCSR) in Oil & Gas Operations, Including Refineries and Coal-to-Liquids Operations	Incorporated in ES-5 and ES-12					UC
	Sector Total After Adjusting for Overlaps (Among ES Options and After Demand Reductions From RCI Options)	0.4	4.2	21.9	\$272	\$17	
	Reference Case High Fossil Fuel Case	0.4	18.7	79.4	\$870	\$24	

UC - Unanimous Consent