

Summary of Results	1990	2010	2010	2010
		Base Case	Kyoto Compliance	Climate Protection
End-use Energy ( <i>Quads</i> )	63.9	85.5	70.0	69.8
Primary Energy ( <i>Quads</i> )	84.6	113.3	89.8	88.1
Renewable Energy ( <i>Quads</i> )				
Non-Hydro	3.5	5.6	8.2	9.3
Hydro	3.0	3.2	3.2	3.2
Carbon Emissions ( <i>Million metric tons</i> )	1338	1806	1242	1150
Other Emissions ( <i>Million tons</i> )				
SO <sub>2</sub>	21.9	12.9	6.8	5.8
NO <sub>x</sub>	19.3	17.5	13.8	12.9
PM <sub>10</sub>	1.7	1.6	1.3	1.2
Net Annualized				
Total ( <i>\$ Billion per year</i> )	-----	-----	\$46	\$43
Per household (\$)	-----	-----	\$393	\$368

Carbon reductions in 2010 by sector and policy	Carbon Savings (MtC)	
	Kyoto Compliance	Climate Protection
<b><i>Residential &amp; Commercial Sectors</i></b>	<b>100</b>	<b>110</b>
Building efficiency	100	100
District energy systems	0	10
<b><i>Industrial Sector</i></b>	<b>111</b>	<b>111</b>
Incentives	62	62
Capital cost	15	15
Cogeneration	34	34
<b><i>Transportation Sector</i></b>	<b>181</b>	<b>201</b>
Fuel efficiency	105	105
Cellulosic ethanol	11	31
VMT reductions	65	65
<b><i>Electric Sector</i></b>	<b>172</b>	<b>233</b>
Sulfur dioxide cap	23	23
Environmental externalities	42	42
SBC/RPS	40	40
Carbon cap/tax	50	103
Biomass co-firing	<u>17</u>	<u>25</u>
<b>Total Carbon Savings</b>	<b>563</b>	<b>656</b>

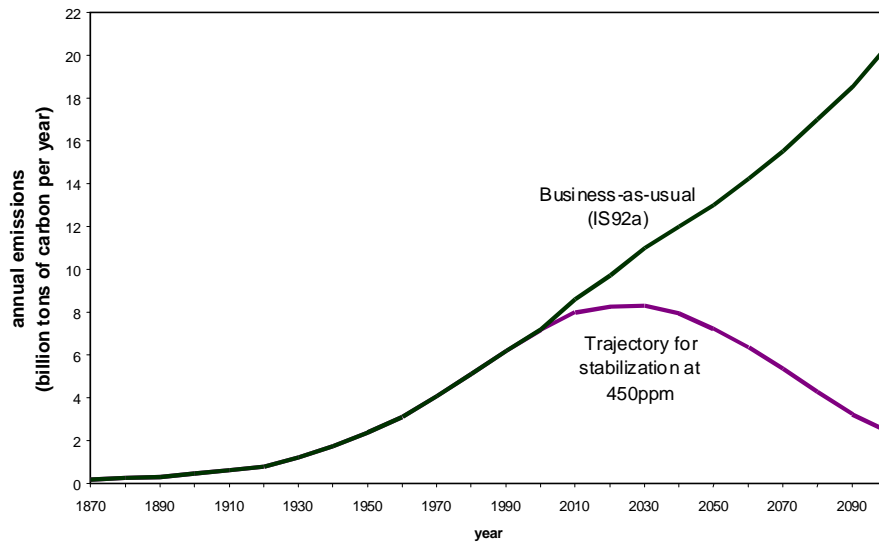
Macroeconomic Impacts of the Policy Scenario	2005	2010
	Net change in Jobs ( <i>actual</i> )	461,200
Net Change in Wage & Salary Compensation ( <i>Million 1996 \$</i> )	\$14,600	\$27,316
Net Change in GDP ( <i>Million 1996 \$</i> )	\$8,840	\$13,671

**Macroeconomic Impacts of Climate Scenario by Sector,**

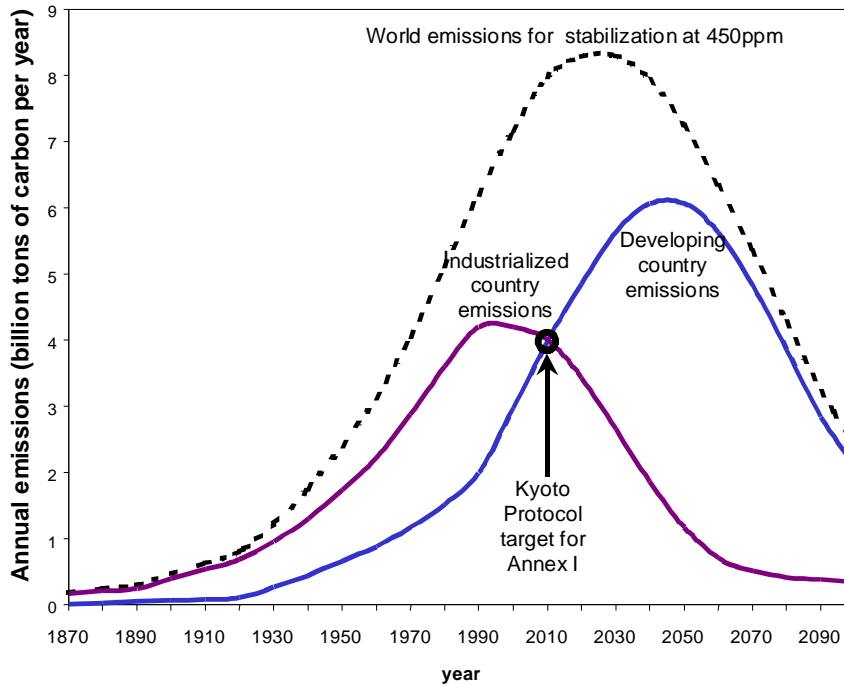
<b>Sector</b>	<b>Net Change in Jobs</b>	<b>Net Change in Wage and Salary Compensation (Million)</b>	<b>Net Change in GDP (Million 1996\$)</b>
Agriculture	37,031	\$341	\$1,261
Other	5,957	\$407	\$858
Coal	(13,574)	(\$1,538)	(\$3,165)
Oil/Gas	(63,052)	(\$2,866)	(\$13,592)
Construction	255,827	\$7,146	\$9,885
Food	6,058	\$263	\$514
Other Manufacturing	80,413	\$3,985	\$6,890
Pulp and Mills	7,588	\$515	\$872
Oil	(1,193)	(\$146)	(\$431)
Stone, Glass, Clay	21,209	\$1,183	\$1,682
Primary Metal	14,251	\$1,104	\$1,475
Metal	42,831	\$3,618	\$5,270
Motor	23,693	\$2,066	\$2,751
Transportation and Other	48,131	\$2,654	\$5,159
Electric	(59,533)	(\$5,553)	(\$26,851)
Natural Gas Utilities	(4,782)	(\$487)	(\$1,881)
Wholesale	5,107	\$266	\$472
Retail Trade	17,265	\$336	\$558
Finance	48,040	\$2,458	\$4,724
Insurance/Real Estate	8,999	\$319	\$2,395
Services	310,363	\$8,377	\$11,568
Education	35,024	\$1,167	\$1,179
Government	44,880	\$1,703	\$2,077
<b>TOTAL</b>	<b>870,532</b>	<b>\$27,316</b>	<b>\$13,671</b>

<b>State</b>	<b>Net Job Gain</b>	<b>State</b>	<b>Net Job Gain</b>
Alabama	15,200	Montana	3,000
Alaska	2,400	Nebraska	5,700
Arizona	13,700	Nevada	5,800
Arkansas	8,800	New Hampshire	3,700
California	94,900	New Jersey	26,300
Colorado	11,300	New Mexico	4,000
Connecticut	10,500	New York	49,900
Delaware	2,500	North Carolina	26,400
District of Columbia	2,500	North Dakota	2,300
Florida	44,500	Ohio	40,900
Georgia	25,200	Oklahoma	7,600
Hawaii	3,600	Oregon	10,300
Idaho	3,900	Pennsylvania	40,100
Illinois	39,200	Rhode Island	3,000
Indiana	23,500	South Carolina	13,500
Iowa	10,200	South Dakota	2,400
Kansas	7,900	Tennessee	19,900
Kentucky	12,500	Texas	67,800
Louisiana	18,300	Utah	6,300
Maine	4,600	Vermont	2,100
Maryland	15,200	Virginia	21,300
Massachusetts	19,800	Washington	18,600
Michigan	33,200	West Virginia	4,500
Minnesota	16,000	Wisconsin	17,600
Mississippi	8,400	Wyoming	1,500
Missouri	18,200	<b>U.S. Total</b>	<b>870,500</b>

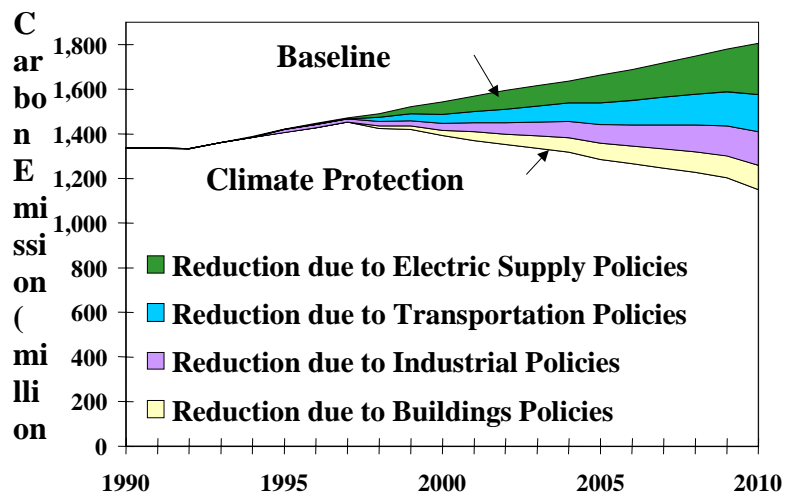
**Global carbon emissions from fossil fuel combustion (1860-2100) – Business-As-Usual trajectory (IPCC IS92a scenario) and a trajectory for stabilization at 450 ppm**



Carbon emissions for stabilization of atmospheric greenhouse gas concentrations at 450 ppm, showing emissions from industrialized and developing countries. Cumulative emissions (1990-2100) are ~700 GtC, and an emission rate in 2100 below 3 GtC/yr.



### Carbon Reductions in All Sectors Under the Climate Protection



### Emissions of major air pollutants: 1990-2010, Base Case and Policy case

*Policy Case* ..... *Base Case* —

