

**Supplementary material**  
for the report:  
“Economic/climate recovery score cards  
How climate friendly are the economic recovery  
packages?”

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by order of:  
WWF and E3G

<b>Part 1. General information</b>			
Country Name	EU	Euro	US\$
Total volume of investment package		5,000	7,357
Currency reported in	€		
Timeline for total period of investment years to be spent e.g. (2009-2020)	2009/10		
<b>EU budget for your country in 2008</b>			
provide all information in local currency (Million)		129,100	189,950
Package as percent of EU budget		3.87%	3.87%
Source of information specify author, title and year	Note from the Presidency to the European Council 7848/09 Does not include the 25 billion € for the EIB, since details were not available		

Exchange rate  
1.47134 US\$/€

**Part 2. Specific information**

Categories	Monetary value Million €	Description	Type of instrument	Comments	Effectiveness factor categories	Effectiveness factor instrument	Total climate friendly finance €	Monetary value in USD
<b>Positive</b>								
1. Energy Efficiency								
1.1 Energy efficiency buildings								
1.2 Energy efficiency Industry								
1.3 Other Energy efficiency (if does not fit in other category)								
2. Renewables	565	Investments in connections and new turbines, structures and components of offshore wind projects	Investments		1.2	1	678	831
3. Carbon capture and storage	1050	Support for a number of european CCS demonstration projects	Research&Development		0.4	1	420	1,545
4. Electric grid infrastructure	910	Investments in international interconnectors	Investments		0.6	1	546	1,339
5. Transport								
5.1 Local public transport								
5.2 Railway and Water way infrastructure								
5.3 Efficient vehicles								
5.4 Other Public transport (if does not fit in other category)								
6. Waste (Landfills and Recycling)								
<b>Negative</b>								
7. Road building								
7.1 Road building new								
7.2 Road building maintenance								
7.3 Other Road infrastructure (if it cannot be split)								
8. Funds for fossil fuel power plants								
9. Nuclear								
10. Other that do not fit anywhere and are climate relevant								
<b>Part 3. Additional Information</b>								
Greenwashing?, other climate unfriendly measures of the package?								

<b>Climate friendly</b>	2525
<b>Negative</b>	0
<b>Other</b>	2475
<b>Total</b>	5000

Total including CCS	1644	3715
% of Eu budget	1.3%	2.0%
		% of package

Part 1. General information			
	France	Euro	US \$
Country Name	France		
Total Volume of investment package	28500	28500	38991
Currency reported in	ME		
Timeline for total period of investment years to be spent e.g. (2009-2020)	2009-2010		
GDP for your country in 2008 (EUR)	1948070	1948070	2666273
Source of information specify author, title and year	Comité Interministériel d'aménagement et de compétitivité des territoires CIACT, Plan de relance de l'économie, Dossier d'information, Lyon, 2 février 2009		

Exchange rate  
1.47 US\$/€

Part 2. Specific information										
Category	Monetary value in local currency of instrument (million)	Description	Type of instrument	Comments	Effectiveness factor	Electromechanics factor	Total climate friendly finance €	Monetary value in USD	Total climate friendly finance USD	Total sector climate friendly finance USD
<b>Positive</b>										
<b>1. Energy Efficiency</b>										
1.1 Energy efficiency buildings										
1.1.1 Energy efficiency buildings										
1.1.1.1 Energy efficiency buildings	1	RATP (public company) jamais région total transports (subway) building renovation to current norms of the "Décret de l'Environnement": reduction of 40% of energy consumption and at least 50% of GHG emissions (French planification for sustainable development)					15	11	11	
1.1.1.2 Energy efficiency buildings	10	Investment of 10M€ in energy efficiency of public buildings used for defense purposes; this will be done via the purchase of energy consumption, heat consumption and water consumption meters for buildings bigger than 1000m²					10	10	10	
1.1.1.3 Energy efficiency buildings	200	200M€ will be invested in the renovation of state buildings, split as follows: 50M€ for energy audits on the left and now planned in the Champs de l'Environnement; and 150M€ for thermal renovation, but also accessibility aspects (aim is to reduce energy consumption by 40% and GHG emissions by 50%).		Decree no 2009-201 transferring credits, 16th February 2009			200	200	200	
1.1.1.4 Energy efficiency buildings	100	Thermal renovations (National Agency for living building improvement) 100 for medical centers and 50 against energetic tenaciousness					100	221	221	
1.1.2 Energy efficiency consumers										
1.1.2.1 Energy efficiency consumers										
1.1.2.1.1 Other Energy efficiency (if does not fit in other category)	30	Planification for energy efficiency in farms - this 30M€ will be allocated 20M€ for heat pumps that will help reduce factor emissions (installation of reduction: 35000-year tractor; 52M€ for energy efficiency equipment in agricultural buildings; 3.8M€ for maintenance units, 5.8M€ for wood boilers and heat pumps); 4.8M€ for solar water heaters; 2M€ for solar drying of forage.		Decree no 2009-203 transferring credits, 19th February 2009			30	44	44	
Efficiency Total	397.50						397.50	562	562	
<b>2. Renewables</b>										
2.1 Renewables										
2.1.1 Renewables	100	EDF (public company - energy supplier) 100M€ for renewables, including PV plants in Sabaudoye, Landes (15M€), this will be the largest PV plant in Europe, and of Manicoupe, Haute Alpes					100	441	530	
2.1.2 Renewables	80	RNCF (public company - national railway transport) for operations in renewables and sustainable development					80	29	39	
2.1.3 Renewables	120	La Poste (public company - national postal services), sustainable development investments - 120M€, including 2.3M€ for a PV plant (more than 14 000 m² in Montpellier, CHS)					120	177	212	
Renewables Total	440.00						440.00	647	777	
<b>3. Carbon capture and storage</b>										
3.1 Carbon capture and storage										
3.1.1 Carbon capture and storage	300	EDF (public company) quality and security of grid infrastructure - 40M€ for land between south-west and south-east of France and 15 M€ for a sub-line connection in Toulon					300	441	265	
3.1.2 Carbon capture and storage	300	EDF (public company) quality and security of electricity distribution					300	441	265	
Grid Total	600						600	882	530	
<b>4. Transport</b>										
4.1 Transport										
4.1.1 Local public transport	44	RATP additional investment for renewal and to fit up transport materials, improve stations accessibility, renovate and modernize them					44	265.3	651	391
4.1.2 Railway and Water way infrastructure										
4.1.2.1 Railway and Water way infrastructure	70	regeneration of railway network	acceleration of programmed projects				70	432	100	64
4.1.2.2 Railway and Water way infrastructure	15	improvement of national accessibility	acceleration of programmed projects				15	102	25	15
4.1.2.3 Railway and Water way infrastructure	150	accelerating programmed operations in regional development (except regeneration); especially necessary works for arrival of very high speed train in Aquitaine, Bretagne and Alsace; development works in Rhône Alpes, PACA, Poitou-Charentes, Centre (opening of the Nantes-Châteaubriant)	acceleration of programmed projects of the regional level (date of report: 2007-2013) (total amount within region: 1.8 billion by the state)				150	30	221	150
4.1.2.4 Railway and Water way infrastructure	30	accelerating preparatory works for the second phase of the east-western high speed railway					30	21	51	31
4.1.2.5 Railway and Water way infrastructure	15	related land acquisitions and related studies for the high speed train project in Bretagne-Pays de la Loire					15	9	22	15
4.1.2.6 Railway and Water way infrastructure	11	support for the reception of train jam in Brittany region					11	6.60	16	10
4.1.2.7 Railway and Water way infrastructure	10	big infrastructure project: canal Seine-Northem Europe - actions on dams (Oise et Chalon on the Seine) (DM n.2005, 10M€ in 2010)					10	12	26	16
4.1.2.8 Railway and Water way infrastructure	100	maintenance and modernization of river network	operations planned by Voies Navigables de France (already 120M€ envelope for 2009)				100	147	88	
4.1.2.9 Railway and Water way infrastructure	50	maintenance of the big intermodal terminals (Bordeaux, Dunkerque, La Rochelle, Marseille, Le Havre, Nantes-Saint-Nazaire, Rouen)					50	74	44	
4.1.3 Efficient vehicles	40	review of railway separation machines (improve the safety and speed performance for the rest of the train ELPO V)	acceleration of programmed projects				40	27	66	40
4.1.4 Other Public transport (if does not fit in other category)	400	research in low carbon vehicles					400	240	560	361
4.1.5 Other Public transport (if does not fit in other category)	800	RNCF all investments and command acquisition					800	409	1001	600
Transport Total	2037.5						2037.5	1310	2698	1799
<b>5. Water (Landfill and Recycling)</b>										
5.1 Water (Landfill and Recycling)										
5.1.1 Water (Landfill and Recycling)										
5.1.1.1 Water (Landfill and Recycling)		National Planning Fund for territory development via big projects of CPER (such as high speed network projects in Charente and Haut-Jura, sustainable development projects: development of green lanes, hydropony production in Comble, solar plant in the ecopole in Loue-en-Corbais)	acceleration of programmed projects							
5.1.1.2 Water (Landfill and Recycling)										
5.1.1.3 Water (Landfill and Recycling)										
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5.1.1.98 Water (Landfill and Recycling)										

Part 1. General information		
Country Name	Germany	Euro
Total Volume of investment package	81,490	119,899
Currency reported in	€	
Timeline for total period of investment years to be spent e.g. (2009-2020)	2009/10	
GDP for your country in 2008		
provide all information in local currency (Million)	2,492,000	3,666,579
Package as percent of GDP	3.3%	3.3%
Source of information specify author, title and year	Employment and Stability Act, Feb 2009, German Parliament & Package for Employment and Economic Growth, German Federal Government, Nov. 2008	

Exchange rate  
1.47134 US\$/€

#### Part 2. Specific information

Categories	Monetary value Million €	Description	Type of instrument	Effectiveness factor categories	Effectiveness factor instrument	Total climate friendly finance €	Monetary value in USD	Total climate friendly finance US\$
<b>Positive</b>								
1. Energy Efficiency								
1.1 Energy efficiency buildings	3000	Extension of Loan Program	low interest loans	1	2	6000	4,414	8828
1.1 Energy efficiency buildings	4000	Retrofit of schools and other public buildings	Investment	1	1	4000	5,885	5885
1.2 Energy efficiency Industry								
1.3 Other Energy efficiency (if does not fit in other category)								
2. Renewables	40	Insurances for geothermal drilling	guarantee	1.5	1.2	72	59	106
2. Renewables	450	Extension of maximum size of low interest loans	low interest loans	2	1.2	1080	662	1589
3. Carbon capture and storage								
4. Electric grid infrastructure								
5. Transport								
5.1 Local public transport								
5.2 Railway and Water way infrastructure	2200	Maintenance and new infrastructure for railways, waterways and intermodal freight transport	Investment	0.6	1	1320	3,237	1942
5.3 Efficient vehicles	500	research and development program for efficient vehicles, mainly hybrid and e-mobility	Research & Development	0.6	1	300	736	441
5.4 Other Public transport (if does not fit in other category)								
6. Waste (Landfills and Recycling)								
<b>Negative</b>								
7. Road building				-1	1	0	-	0
7.1 Road building new								
7.2 Road building maintenance								
7.3 Other Road infrastructure (if it cannot be split)	900	Maintenance and new road building of highways and major roads. The package totally amounts to 1800 million €. We assumed that half of this sum is spend for building of new roads	Investment	-1	1	-900	1,324	-1324
8. Funds for fossil fuel power plants								
9. Nuclear								
10. Other that do not fit anywhere and are climate relevant								
<b>Part 3. Additional Information</b>								

Climate friendly	10190
Negative	900
Other	70400
Total	81490

Total	11872	16317	17468
As% of GDP	0.4764%	0.45%	0.4764%
	as % of package		15%

Part 1. General information												
Country Name	Euro	US\$	Italy									
Total Volume of investment package	99.800	146700	80,000 million euro (formal economic recovery package) + 2,000 million euro (support to industrial sectors affected by the crisis, including car stimulus package) + 17,800 billion euro (public works projects)									
Currency reported in	Euro											
Timeline for total period of investment years to be spent e.g. (2009-2020)	Most measures apply to the three year-period 2009-2011, while others extend beyond 2011.											
GDP for your country in 2008	1,572,243	2311187	1,572,243 million euros (at current prices)									
% of GDP	6.3	6.3	US\$ 1.47									
Source of information specify author, title and year	Formal economic recovery package: Law 28 January 2009, no. 2; Support to industrial sectors affected by the crisis: Law decree 10 February 2009, no. 5; Public Works Projects: CIPE (Interministerial Committee for Economic Planning) Resolution 10 March 2009.											
Categories	Monetary value	Monetary value in local currency in Million	Description	Type of Instrument	Comments	Effectiveness factor categories	Effectiveness factor instrument	Total climate friendly finance Euro	Monetary Value US\$	total climate friendly stimulus US\$	Subtotal monetary value Euro	Subtotal total climate friendly stimulus US\$
<b>Positive</b>												
1. Energy efficiency												
1.1 Energy efficiency buildings												
1.1.1 Energy efficiency consumers												
1.1.2 Energy efficiency Industry												
1.3 Other Energy efficiency (if does not fit in other category)												
2. Renewables												
3. Carbon capture and storage												
4. Electric grid infrastructure												
5. Transport												
5.1 Local public transport	1,510	CIPE (Interministerial Committee for Economic Planning) Resolution 10 March 2009: 1,510 million euro	Investments in local public transportation systems	1. Investment								
5.2 Railway and Water way infrastructure	960	Law 28 January 2009, no. 2: 960 million euro (for 2009)	Establishment of fund within the Gruppo Ferrovie dello Stato S.p.a. (State Railway Group Inc.) to finance rail investments	1. Investment	A decree will be issued by the Ministry of Economy and Finance (in agreement with the Ministry of Infrastructure and Transport) to specify how these resources will be invested	0.8	1	1208	2220	1776		
						0.8	1	578	1411	847		
						0.8	1	854	2117	1270		
						0.8	1	1650	4045	2428		
						0.8	1	90	221	130	10011	6450
<b>Sub Total</b>												
6. Waste (Landfills and Recycling)												
<b>Negative</b>												
7. Road building												
7.1 Road building new	10,090	CIPE (Interministerial Committee for Economic Planning) Resolution 10 March 2009: 10,090 million euro (of which 8,09 million euro of private spending)	Investments in new roads (including extensions of existing roads)	1. Investment								
7.2 Road building maintenance												
7.3 Other Road infrastructure (if it cannot be split)												
7.3.1 Subtotal												
8. Funds for fossil fuel power plants												
9. Nuclear												
10. Other that do not fit anywhere and are climate relevant												
<b>Total</b>	<b>16900</b>								<b>24843</b>	<b>-8382</b>		
5.3 Efficient vehicles	1,300	Law decree 10 February 2009, no. 5: 1,300 million euro (for 2009)	Incentives (valid for 2009): 1,500 euro for the purchase of Euro 4/5 cars (<140 g/km CO2 for gasoline-powered vehicles and <130 g/km CO2 for diesel-powered vehicles) and the scrapping of a car Euro 0/1/2 registered by 31/12/1999; 1,500 euro for the purchase of methane/electricity/hydrogen-powered vehicles (< 120 g/km CO2); 3,000 euro for the purchase of methane/electricity/hydrogen-powered vehicles (> 120 g/km CO2) and the scrapping of a car Euro 0/1/2 registered by 31/12/1999; 3,500 euro for the purchase of methane/electricity/hydrogen-powered vehicles (< 120 g/km CO2) and the scrapping of a car Euro 0/1/2 registered by 31/12/1999; 1,500 euro for the purchase of LPG powered vehicles; 3,000 euro for the purchase of LPG-powered vehicles and the scrapping of a car Euro 0/1/2 registered by 31/12/1999; 350 euro for the conversion of gasoline- or diesel-powered vehicle	tax/subsidies								
									0	1911	0	
Part 3. Additional information												
		The 80,000 million euro economic recovery package only contained around 5,000 million euro in new spending (HSBC, 2009, <i>A Climate for Recovery - The colour of stimulus goes green</i> ).										
		The 17,800 million package for public works projects consists of 9,710 million euro of public spending and 8,090 million euro of private spending (the latter will be spent entirely on highways).										
		Law decree 10 February 2009, no. 5 also includes (beside the measures described above) tax deductions for the purchase of electric household appliances (regardless of their energy efficiency).										
		According to Law 28 January 2009, no. 2, the (existing) 55% tax deduction for investments in energy efficiency measures in buildings must be distributed within a five year-period (and not any more between 3 and 10 years).										
<b>Climate Friendly</b>	6,811								24843	-8382		
<b>Negative</b>	10,090											
<b>Other</b>	82,900											
									24843	-8382		
									AS%20 GDP	-0.4%	16.2%	0%

Part 1. General information			
Country Name	United Kingdom	GBP	US\$
Total Volume of investment package		20,000	37,100
Currency reported in	Pounds Sterling		
Timeline for total period of investment years to be spent e.g. (2009-2020)	2008/2009		
GDP for your country in 2008	+0.7% from 2007		
provide all information in local currency (Million)		1,445,104	2,680,668
Package as percent of GDP		1.4%	1.4%
Source of information specify author, title and year	<p>The Low Carbon Industry Strategy is still being developed within Government. The official release should be summer 2009 (no specific date yet). The information on expenditure on climate change and "green" products in this table is taken from the Pre-Budget Report which is a standard official document released each year in November before the final annual monetary Budget is agreed upon in the spring. This document does include the extra effort required in the current financial crisis (the Green Stimulus) but the details are very limited and more information should be available in the spring or summer documents.</p> <p>The pre-budget report, published by HM Treasury (UK Finance Ministry) can be found at: <a href="http://www.hm-treasury.gov.uk/prebud_pbr08_index.htm">http://www.hm-treasury.gov.uk/prebud_pbr08_index.htm</a></p>		

Exchange rate  
1.855 US\$/GBP  
average of  
2008

Part 2. Specific information										
Categories	Monetary value Million GBP	Description	Type of instrument	Comments	Effectiveness factor categories	Effectiveness instrument	Total climate friendly finance GBP	Monetary value in USD	Total climate friendly finance US\$	
<b>Positive</b>		As part of the fiscal stimulus, the Government is providing £535 million (green stimulus) of accelerated capital spending and additional resources to promote its environmental objectives and support low-carbon growth. The amounts below are part of this total amount NOT additional.		Note that a large part of the £535m is accelerated spending rather than additional spending as such.						
1. Energy Efficiency										
1.1 Energy efficiency buildings	100	+£100 million of new funding for Warm Front	Grant	NEW	1	0.8	80	186	148	
	50	£50 million spending For Warm Front on the programme brought forward now to support the economy. This stimulus (100+50) will help around 60,000 households in total cut their energy bills through insulation and improved heating systems.	Grant	Brought forward	1	0.8	40	93	74	
	60	+£60 million to provide 16,000 social houses with energy efficiency and heating measures as part of an accelerated Decent Homes programme.	Grant	Brought forward	1	0.8	48	111	89	
1.1 Energy efficiency consumers										
1.2 Energy efficiency Industry										
1.3 Other Energy efficiency (if does not fit in other category)										
2. Renewables										
3. Carbon capture and storage										
4. Electric grid infrastructure										
5. Transport										
5.1 Local public transport										
5.2 Railway and Water way infrastructure	300	300 million to accelerate the delivery of up to 200 new train carriages to expand capacity on the rail network	Investment	Brought forward	0.6	1	180	557	334	
	5	+£5 million of spending on British Waterways network infrastructure	Investment	New	0.6	1	3	9	6	
5.3 Efficient vehicles										
5.4 Other Public transport (if does not fit in other category)										
6. Waste (Landfills and Recycling)										
<b>Negative</b>		£535 million green stimulus is part of overall £3 billion stimulus package								
7. Road building	400	£700 million to advance the Department for Transport's existing plans to increase capacity on the motorways and other critical highways (this includes £300 million to increase rail capacity mentioned above, therefore £400 million in this row)		Brought forward	-1	1	-400	742	-742	
7.1 Road building new										
7.2 Road building maintenance										
7.3 Other Road infrastructure (if it cannot be split)										
8. Funds for fossil fuel power plants										
9. Nuclear										
10. Other that do not fit anywhere and are climate relevant										
<b>Part 3. Additional Information</b>										
Adaptation		+£20 million of spending on flood defences		Brought forward Considered as adaptation not mitigation and therefore not included						

Climate friendly	515
Negative	400
Other	19085
Total	20000

Total	-49	1697	-91
As% of GDP	-0.003%	0.06%	-0.003%
AS% of total package			-0.2%

**Part 1. General Information**

Country	USA
Final Volume of investment package	197B
Currency reported in	US \$
Timeline for total period of investment years to be spent e.g. (2009-2020)	2009-2019
ESF Package as percent of GDP	1.2%
Sources	Global climate change regulation policy developments DE Advisors, for roadbuilding: United States Department of Transportation Federal Highway Administration

**Part 2. Specific Information**

Categories	Monetary value in local currency	Description	Type of measure	Effectiveness factor categories	Effectiveness factor instrument	Total climate friendly finance	Total
<b>Energy efficiency buildings</b>							
GSA Federal Buildings	4,300	Focused on projects that will create the greatest impact on energy efficiency and conservation for construction, repairs, and operations of Federal buildings. The General Services Administration (GSA) would make project selections based on its priority list. Much of this funding is expected to be awarded within 120 days of enactment.	Investment	1.0	1.0	4300	
Energy Efficiency Housing Retrofits	250	Funding will go towards a new program to upgrade Department of Housing and Urban Development sponsored low-income housing to increase energy efficiency, including new insulation, windows, and furnaces. Funds will be competitive awarded.	Investment	1.0	1.0	250	
Tax credits for energy efficient improvements to existing homes	2,034	The bill extends the tax credits for improvements to energy efficient existing homes through 2010. Under current law, individuals are allowed a tax credit equal to ten percent (10%) of the amount paid or incurred by the taxpayer for qualified energy efficiency improvements installed during the taxable year. This tax credit is capped at \$50 for any advanced main air circulating fan, \$150 for any qualified natural gas, propane, oil furnace or hot water boiler, and \$300 for any item of energy efficient building property. For 2009 and 2010, the bill would increase the amount of the tax credit to thirty percent (30%) of the amount paid or incurred by the taxpayer for a qualified energy efficiency improvement during the taxable year. The bill would also eliminate the property-by-property dollar caps on this tax credit and provide an aggregate \$1,500 cap on all property qualifying for the credit. This is estimated to cost \$2,034 billion over 10 years.	Tax incentive	1.0	0.8	1627	
Weatherization Assistance Program	5,000	The Weatherization Assistance Program is designed to assist low-income families reduce their energy costs by sending funds to states to weatherize low-income homes. This spending is expected to create job growth in low-income communities while energy cost savings will provide more disposable income for other purposes.	Investment	1.0	1.0	5000	
<b>Energy efficiency consumers</b>							
Smart Appliances	300	Funding to provide consumers with rebates for buying energy efficient Energy Star products to replace old appliances, which will lower energy bills.	Investment	1.0	1.0	300	
<b>Energy efficiency industry</b>							
<b>Energy Efficiency Total (if does not fit in other category)</b>							
Department of Energy - Advanced Research Project Agency - Energy	133	\$400 million is allocated for the Advanced Research Project Agency - Energy to support high-risk, high-payoff research to accelerate the innovation cycle for both traditional and alternative energy sources and energy efficiency.	Research and Development	1.0	1.0	133	
Energy Efficiency & Conservation Grants	3,150	The Energy Efficiency & Conservation Block Grant Program Conservation Grants will assist states, local governments and Indian tribes in implementing strategies to reduce fossil fuel emissions created as a result of activities within the jurisdiction of the eligible entities and aims to reduce the total energy use. The U.S. Conference of Mayors has identified over 644 "ready-to-go" energy infrastructure projects that could be started in cities in just two calendar years. States can use grants to address their energy priorities and to adopt emerging renewable energy and energy efficiency technologies. Energy sustainability and efficiency grants and loans will be made available to school districts, institutes of higher education, local governments, and municipal utilities for projects that will make them more energy efficient.	Tax incentive/subsidies	1.0	0.8	2520	
Energy Efficiency & Conservation Grants	3,150	See above	Loans	1.0	2.0	6300	
Energy Efficiency and Renewable Energy Research, Development and Deployment	1,250	Funding for energy efficiency and renewable energy research, development, demonstration, and deployment activities to foster energy independence, reduce carbon emissions, and cut utility bills. Funds are awarded on a competitive basis to universities, companies, and national laboratories.	Research & Development	1.0	1.0	1250	
Training for Green Jobs	250	Funding to prepare workers for careers in energy efficiency and renewable energy fields.	Investment	1.0	1.0	250	
Qualified Energy Conservation Bonds	803	The bill authorizes an additional \$2.4 billion of qualified energy conservation bonds to finance state, municipal and tribal government programs and initiatives designed to reduce greenhouse gas emissions. This is estimated to cost \$803 million over 10 years.	low interest loans	1.0	2.0	1606	
Energy efficiency next to carbon capture and storage	750	\$1.4 billion for carbon capture and energy efficiency improvement projects (we included the energy efficiency half here).	Investment	1.0	1.0	750	
<b>Renewables Total</b>	<b>23,870</b>					<b>0</b>	<b>24,487</b>
<b>Renewables wind</b>							
Three Year Extension and Modification of Renewable Energy Production Tax Credit	13,143	The bill extends the placed-in-service date for wind facilities for three years (through December 31, 2012). The bill also extends the placed-in-service date for three years (through December 31, 2013) for certain other qualifying facilities: (1) closed-loop biomass; (2) geothermal; (3) small irrigation; (4) hydro power; (5) landfill gas; (6) waste-to-energy; and (7) marine renewable facilities. This is estimated to cost \$13,143 billion over 10 years.	Tax incentive	1.2	0.8	12617	
Removal of Dollar Limitations on Certain Energy Credits	872	Under current law, businesses are allowed to claim a thirty percent (30%) tax credit for qualified small wind energy property (capped at \$4,000), individuals are allowed to claim a thirty percent (30%) tax credit for qualified solar water heating property (capped at \$2,000), qualified small wind energy property (capped at \$500 per kilowatt of capacity up to \$4,000), and qualified geothermal heat pumps (capped at \$2,000). The bill would repeal the individual dollar caps. As a result, each of these properties would be eligible for an uncapped thirty percent (30%) credit. This is estimated to cost \$872 million over 10 years.	Tax incentive	1.2	0.8	831	
<b>Renewables sun</b>							
<b>Renewables water/hydropower</b>							
<b>Renewables biomass</b>							
<b>Renewable Total if it cannot be split</b>							
Department of Defense Research	300	Funding for research into using renewable energy to power Research weapons systems and military bases.	Research and Development	1.2	1.0	360	
Renewable Energy and Transmission Loan	6,000	This new loan program would provide loan guarantees for Transmission Loan proven renewable and transmission technologies. The \$6 Guarantees bill in appropriated funds is expected to support more than \$60 billion in loans for these projects. The temporary program is designed to address the current economic conditions of the nation for renewable and transmission projects and will allow the subsidy cost of the loans to be made through appropriations. The authority to enter into new loan agreements expires on September 30, 2011.	government guarantees	1.2	1.0	10800	
Temporary Election to Claim the Investment Tax Credit in Lieu of the Production Tax Credit	285	Because of current market conditions, it is difficult for many renewable projects to find financing due to the uncertain future tax positions of potential investors in these projects. The bill allows PTC-qualifying projects that are placed-in-service in 2009 and 2010 to elect to claim the investment tax credit in lieu of the production tax credit. This is estimated to cost \$285 million over 10 years.	Tax incentive	1.2	0.8	274	
Grants for specified energy property in lieu of tax credits (refundability)	5	Provides grants of up to 30% of the cost of building a new renewable energy facilities in the case of wind, biomass, geothermal, solar, landfill gas, trash, hydro, marine, and qualified fuel cells. This is in lieu of federal tax credits, such as the PTC/ITC, and is meant to address current renewable energy credit market concerns. This is estimated to cost \$5 million over 10 years.	Tax incentive/subsidies	1.2	0.8	5	
Clean Renewable Energy Bonds ("CREB")	578	The bill authorizes an additional \$1.6 billion of new clean renewable energy bonds to finance facilities that generate electricity from the following resources: wind, closed-loop biomass; (2) geothermal; (3) small irrigation; (4) hydro power; (5) landfill gas; (6) marine renewable; and (7) trash combustion facilities. This \$1.6 billion is authorized and will be subdivided into thirds: 1/3 will be available for qualifying projects of state/local/tribal governments; 1/3 for qualifying projects of public power providers; and 1/3 for qualifying projects of electric cooperatives. This is estimated to cost \$578 million over 10 years.	low interest loans	1.2	2.0	1385	
Department of Energy - Advanced Research Project Agency - Energy	133	\$400 million is allocated for the Advanced Research Project Agency - Energy to support high-risk, high-payoff research to accelerate the innovation cycle for both traditional and alternative energy sources and energy efficiency.	Research and Development	1.2	1.0	160	
Energy Efficiency and Renewable Energy Research, Development and Deployment	1,250	Funding for energy efficiency and renewable energy research, development, demonstration, and deployment activities to foster energy independence, reduce carbon emissions, and cut utility bills. Funds are awarded on a competitive basis to universities, companies, and national laboratories.	Research & Development	1.2	1.0	1500	
Training for Green Jobs	250	Funding to prepare workers for careers in energy efficiency and renewable energy fields.	Investment	1.2	1.0	300	
Advanced Energy Manufacturing Base Investment Credit	1,647	Provides a 30% investment credit for qualified property used in a qualified advanced energy manufacturing project, such as facilities that manufacture components for the production of renewable energy, advanced battery technology and other innovative near-generation green technologies. This is estimated to cost \$1,647 billion over 10 years.	low interest loans	1.2	2.0	3893	
<b>2. Renewables total</b>	<b>24,483</b>						<b>39,190</b>
<b>Carbon capture and storage</b>							
Carbon capture and storage	700	\$1.5 billion for carbon capture and energy efficiency improvement projects (we assumed the CCS half here)	Investment	0.4	1.0	300	
Carbon capture and storage	800	\$800 million for the clean coal power initiative	Research and Development	0.4	1.0	320	
<b>3. Carbon capture and storage total</b>	<b>1,500</b>						<b>620</b>

Electric grid infrastructure	1,100	This funding will provide for research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to meet the goal of a modern electric grid, enhance security and reliability of energy infrastructure, and facilitate recovery from disruptions to the energy supply. The Smart Grid Investment Program includes a regional demonstration initiative. The program is intended to quantify costs and benefits, verify technology viability, and validate new business models at a scale that can then be replicated throughout the country. Also included is a matching grant program which would provide funding for qualifying smart grid investments. Energy consultants KEMA estimate that an investment by the Federal government of \$16 billion over four years would result in a private sector investment of \$64 billion over the same period, creating 280,000 new jobs. In the first year alone, an estimated 150,000 projects could be initiated.	Research Development	0.6	1.0	660		
<b>4. Electric grid infrastructure total</b>	<b>1,100</b>							<b>660</b>
<b>public transport water ways</b>								
public transport rail way								
Capital Assistance for High Speed Rail Corridors and Intercity Rail Services	8,000	\$8 billion has been made available to support the development of intercity high speed rail service.	Investment	0.6	1.0	4800		
Fixed Guideway Infrastructure New Construction	750	\$750 million has been appropriated for Capital Investment Grants for new commuter rail or other light rail systems to increase public use of mass transit and to speed projects already in construction. The Federal Transit Administration has \$2.4 billion in pre-approved projects waiting for funding.	Investment	0.6	1.0	4500		
Fixed Guideway Infrastructure Investment	750	\$750 million has been allocated to modernizing existing transit systems, including renovations to stations, security systems, computers, equipment, structures, signals, and communications. Funds will be distributed through the existing formula.	Investment	0.6	1.0	4500		
Capital Grants to the National Railroad Passenger Corporation	1,300	\$1.3 billion has been appropriated to the National Railroad Passenger Corporation, of which \$450 million is to be used for capital security grants.	low interest loans,	0.6	2.0	1560		
<b>public transport local public transport</b>								
Federal Transit Administration Transit Capital Assistance	6,900	\$6.9 billion has been appropriated for distribution to urbanized areas to be used for public transport infrastructure improvements.	Investment	0.6	1.0	5520		
<b>Efficient vehicles</b>								
GSA Federal Fleet	300	Funding to replace older vehicles owned by the federal government with alternative fuel and plug-in automobiles that will save on fuel costs and reduce carbon emissions.	Investment	0.6	1.0	180		
Diesel Emissions Reductions	150	Funding for grants and loans to state and local governments for projects that reduce diesel emissions, benefiting public health and reducing global warming. This includes technologies to retrofit emission exhaust systems on school buses, replace engines and vehicles, and establish anti-idling programs. Last year EPA was able to fund only 27% of the applications received.	tax incentive/subsidies	0.6	0.8	72		
Diesel Emissions Reductions	150	see above	low interest loans,	0.6	2.0	180		
Electric Transportation	400	Funding for a new grant program to encourage electric vehicle technologies.	tax incentive/subsidies	0.6	0.8	192		
Advanced Battery Manufacturing	1,000	\$2 billion for the Advanced Battery Loan Guarantee and Grants Manufacturing Program. To support U.S. manufacturers of advanced vehicle batteries and battery systems. The intent of the program is to establish America's leadership in transforming the way automobiles are powered.	tax incentive/subsidies	0.6	0.8	480		
Advanced Battery Manufacturing	1,000	see above	low interest loans,	0.6	2.0	1200		
Alternative Buses and Trucks	300	Funding to help state and local governments purchase efficient alternative fuel vehicles to reduce fuel costs and carbon emissions.	Investment	0.6	1.0	180		
Tax Credit for Plug-In Hybrid Vehicles	2,002	The bill provides a tax credit for families that purchase plug-in hybrid vehicles of up to \$7,500 to spur the next generation of American cars. This credit is limited to 200,000 vehicles. This is estimated to cost \$2.002 billion over 10 years.	Tax incentive	0.6	0.8	961		
Tax Credits for Alternative Refueling Property	54	The alternative refueling property credit provides a tax credit to businesses (e.g., gas stations) that install alternative fuel pumps, such as fuel pumps that dispense E85 fuel, electricity, hydrogen, and natural gas. For 2009 and 2010, the bill would increase the 30% alternative refueling property credit for businesses (capped at \$20,000) to 50% (capped at \$50,000). Hydrogen refueling pumps would remain at a 30% credit percentage; however, the cap for hydrogen refueling pumps will be increased to \$200,000. In addition, the bill would increase the 30% alternative refueling property credit for individuals (capped at \$1,000) to 50% (capped at \$2,000). This is estimated to cost \$54 million over 10 years.	Tax incentive	0.6	0.8	28		
<b>Public transport total (if does not fit in other categories)</b>								
<b>5. Transport total</b>	<b>20,056</b>							<b>16651</b>
<b>Water supply</b>								
Water supply								
<b>Waste</b>								
Waste								
<b>6. Waste total</b>								
Road building new								
Road building maintenance								
Road building total if it cannot be split	13,750	total 27500 we have assumed half for maintenance half for new building of roads (United States Department of Transportation - Federal Highway Administration)	Investment	-1.0	1.0	-13750		
<b>7. Road building total</b>	<b>13,750</b>							<b>-13750</b>
Funds for fossil fuel power plants	1,100	\$1 billion will be provided for fossil energy research and development programs, and the remainder of \$100 million funding will be used for research, training and program administration.	Research	-1.0	1.0	-1100		
Department of Energy - Advanced Research Project Agency - Energy	133	\$400 million is allocated for the Advanced Research Project Agency - Energy to support high-risk, high-payoff research to accelerate the innovation cycle for both traditional and alternative energy sources and energy efficiency.	Research and Development	-1.0	1.0	-133		
<b>8. Funds for fossil fuel power plants total</b>	<b>1,233</b>							<b>-1233</b>
<b>9. Nuclear</b>								
Nuclear								
<b>10. Other</b>								
Other								
<b>Total</b>	<b>86,723</b>					<b>59227</b>	<b>59227</b>	
<b>Climate friendly</b>	<b>74,210</b>					<b>59227</b>	<b>As % of GDP</b>	<b>6.4%</b>
<b>Negative</b>	<b>14,983</b>						<b>as % of total package</b>	<b>7.5%</b>
<b>Other</b>	<b>884,806</b>							