POTENTIAL DOLLARS FOR CLEAN ENERGY FROM AMERICAN RECOVERY AND REINVESTMENT ACT, 2009

- H.R. 1

Working Document

		Table de	eveloped f	or Climate	e Solution	ns by Daniel Malarkey and Greg Papciak. Contact at daniel.j.malarkey@gmail.co	m and gpapciak@	vahoo.c	om.
WASHINGTON STATE			Default	ĺ		WA has 2.26% of 2007 U.S. GDP and 2.14% of 2006 pop. We use GDP % as default.			
With the second	•	2.26%	Delault	1.5	0.5	High and low multiple of point estimate			
CLEAN ENERGY PROVISIONS	Total for U.	% for	Point Estimate		Low	Notes	H.R. 1 Section	Page of H. R. 1	Lead Agency
BUILDING/APPLIANCE EFFICIENCY	J	****	Louinate	ı ııgıı	LOW	110100	II.It. I Ocolon	11. 1	rigoloy
Federal green buildings program	\$4.500	2.26%	101.70	152.55	50.85		Div A. Title V	35	GSA
VA hospital and medical facility: for non-recurring maintenance, including energy	Ψ1,000	2.2070	101.70	102.00	00.00		Div 71, Title V		30/1
projects	\$1,000	2.26%	22.60	33.90	11.30		Div A, Title X	85	DOD
Energy Efficiency and Conservation Block Grants-Formula	\$2,800	2.15%	60.31	66.34	54.28	WA CTED will administer about 28% and rest goes to cities and counties.	Div A, Title IV	24	DOE
Energy Efficiency and Conservation Block Grants-Competitive	\$400		9.04	18.08		DOE to issue rules on competitive program	·		DOE
						WA CTED will administer. State spent under \$1 million in this program in 2006. Part of			
State Energy Program	\$3,100	1.96%	60.75	66.83	54.68	the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A, Title IV	24	DOE
Department of Housing and Urban Development's assisted housing for									
energy and green retrofit investments	\$250	2.26%	5.65	8.48	2.83		Div A, Title XII	108	HUD
Native American Housing Block Grants. New construction, acquisition, and rehabilitation, including energy efficiency and conservation, and infrastructure development.	\$510	2.26%	11.53	17.29	5.76		Div A, Title XII	101	HUD
Sustain, renovate, and modernize Dept. of Defense facilities: energy efficiency,						\$120 mn for Energy Conservation Investment Program. WA has more than other	Div A, Titles III &		
Dept. of Defense Energy Conservation Investment Program	\$4,360	2.26%	98.54	147.80	49.27	states of DOD facilities	X	18 & 78	DOD
Public Housing Capital Fund. Priority investments, including investments that leverage private sector funding or financing for renovations and energy conservation retrofit investments.	\$1,000	2.26%	22.60	33.90	11.30	Awarded by competitive grant	Div A, Title XII	100	HUD
Dept. of Defense research on energy efficiency at military installations.	\$300	2.26%	6.78	10.17	3 39	\$75 mn each for Army, Navy, Air Force & Defense-Wide	Div A. Title III	19	DOD
Smart and energy efficient appliances	\$300		6.78	10.17		Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A. Title IV		DOE
HOME Investment Partnerships Program.	\$2,250		50.85	76.28		<u> </u>	Div A, Title XII		HUD
Weatherization Assistance Program. Install efficiency measures in low-income households.	\$5,000		60.73	66.80		WA CTED will administer through contracts with community development agencies and housing authorities. Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A, Title IV		DOE
Direct spending subtotal	\$25,770								
Qualified Energy Conservation Bonds	803	2.25%	18.07	27.10			Sec 1112	208	
Tax Credits for Energy Efficient Improvements to Existing Homes	2,034	2.25%	45.77	68.65	22.88		Sec 1121	208	
Treasury Department Energy Grants in Lieu of Tax Credits	5	2.25%	0.11	0.17	0.06		Sec 1603	250	
Treasury Department Low-Income Housing Grants in Lieu of Tax Credits	69		1.55	2.33	0.78		Sec 1602	248	
Tax provisions subtotal	\$2,911								-
Building/Appliance Efficiency Subtotal	\$28,681								
SMART GRID/TRANSMISSION									
Electricity Delivery and Energy Reliability Program	\$4,500	2.26%	101.70	152.55	50.85	Includes \$100 mn for grid modernization worker training. 2 X because of BPA	Div A, Title IV	24	DOE
BPA Borrowing Authority for transmission lines	\$3250	40%	1 300 00	1 560 00	1 040 00	Borrowing authority; not direct allocation for spending. Will be repaid to US Treasury through BPA rates. Estimate for WA based on visual scan of map of existing BPA system on BPA webside.	Div A, Title IV, Sec 401	26	DOE
DI A Dollowing Authority for transmission lines	Ψ3230	40 /0	1,300.00	1,500.00	1,040.00	ayatem on bi A webalue.	Div A, Title IV,	20	DOL
Western Area Power Administration borrowing authority	\$3250	0%	0.00	0.00	0.00		Sec 402	27	DOE
Renewable energy and transmission line construction loan guarantees.	\$6,000					Expected to support more than \$60 bn in loans for such projects	Div A. Title IV		DOE
Grid/transmission Direct Spending Subtotal	\$17,000				500		, , , , , , , , , , , , , , , , ,		_ _
RENEWABLE ENERGY AND ALTERNATIVE ENERGY									
Renewable energy research	\$2,500	2.26%	56.50	84.75	28.25	Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"; includes \$800 mn for biomass & \$400 mn for geothermal	Div A, Title IV	24	DOE

Dept. of Energy Advanced Research Project Agency to accelerate the innovation								
cycle for both traditional and alternative energy sources and energy efficiency.	\$400	2.26%	9.04	13.56	4.52		Div A, Title IV	26 DOE
						Includes \$1 bn for fossil energy research and development programs, \$800 mn for		
	00.400	4.000/	0.4.00	E4 00		Clean Coal Power Initiative, \$1.52 bn for carbon capture & efficiency improvement, \$70		05 005
Carbon capture and sequestration research for coal-fired power plants.	\$3,400	1.00%	34.00	51.00	17.00	mn for geologic sequestration	Div A, Title IV	25 DOE
U.S. Fish & Wildlife Service facilities construction, with emphasis on energy efficiency and renewable energy.	0115	2.26%	2.60	2.00	1 20		Div A Title VII	53 DOI
	\$115	2.20%	2.60	3.90	1.30		Div A, Title VII	53 DOI
Direct spending subtotal Long-term extension and modification of renewable energy production tax credit	\$6,415	2.25%	295.72	591.43	147.86		Sec 1101	205
Temporary election to claim the investment tax credit in lieu of the production tax	13,143	2.25%	295.72	591.43	147.00		Section	205
credit	285	2.25%	6.41	9.62	3.21		Sec 1102	205
Removal of dollar limitations on certain energy tax credits	872	2.25%	19.62	29.43	9.81		Sec 1104	207
Tromoval of dollar limitations on cortain energy tax ordine	0,2	2.2070	10.02	20.10		CREB is for public utilities and WA is one of 5 states that have a majority of electricity	000 1101	207
Clean Renewable Energy Bonds (CREBs)	578	3.00%	17.34	26.01		provided by publicly owned utilities.	Sec 1111	208
Advanced Energy Investment Credit	1,647	2.25%	37.06	55.59	18.53		Sec 1302	231
Tax provisions subtotal	\$16,525							
Renewable & Alternative Energy Subtotal	\$22,940							
CLEAN VEHICLES & TRANSIT								
General Services Administration program to purchase alternative fuel vehicles and								
plug-in hybrids for federal fleets.	\$300	0.50%	1.50	2.25	0.75	Lower percentage because limited industry in WA.	Div A, Title V	36 GSA
Electrical infrastructure projects that encourage the use of plug-in electric drive	****					gg		
vehicles and for near-term, large-scale electrification projects.	\$400	2.26%	9.04	13.56	4.52	Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A, Title IV	24 DOE
Alternative fueled vehicles pilot grant program.	\$300	2.26%	6.78	10.17		Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A, Title IV	24 DOE
Advanced battery research loans and grants.	\$2,000	2.26%	45.20	67.80		Part of the \$16.8 bn for "Energy Efficiency & Renewable Energy"	Div A, Title IV	24 DOE
Diesel Emissions Reduction Act grants and loans.	\$300	2.26%	6.78	10.17		Part of the \$6.4 bn "State and Tribal Assistance Grants"	Div A, Title VII	56 EPA
						High and low plus or minus 10%. Includes \$100 mn in discretionary grants for	,	
Investments in public transportation.	\$8,400	2.13%	179.05	196.96		reduction of energy consumption & GHG emissions (see p. 96)	Div A, Title XII	DOT
						See map at http://www.fra.dot.gov/us/content/618; \$8 bn supports Capital Assistance to)	
						States program and High Speed Passenger Rail program; \$1.3 bn for Amtrak capital		
Investments in high speed rail and Amtrak.	\$9,300	2.25%	209.25	418.50	52.31	grants	Div A, Title XII	94 DOT
Direct Spending Subtotal	\$21,000							
Tax Credits for Alternative Refueling Property	54	2.25%	1.22	1.82	0.61		Sec 1123	211
Plug-In Electric Drive Vehicle Credit	2,002	2.25%	45.05	67.57	22.52		Secs 1141-44	212
Parity for Transit Benefits	192	2.25%	4.32	6.48	2.16		Sec 1151	219
Modify Speed Requirement for High-Speed Rail Exempt Facility Bonds	288	2.25%	6.48	9.72	3.24		Sec 1504	241
Tax provisions subtotal	\$2,536							
Renewable & Alternative Energy Subtotal	\$23,536							
JOBS TRAINING								
Green jobs training - funds Green Jobs Act of 2007	\$500	2.25%	11.25	16.88	5.63	Additional CO 4F has a second of the training O and the West of th	Div A, Title VIII	59 DOL
						Additional \$3.45 bn was allocated for training & employment activities under the Workforce Investment Act, \$2.95 bn of which is provided for formula grants to the States. Of these, \$500 mn go to adult training		
						activities, \$1.25 bn to dislocated worker training activities & \$1.2 bn for youth activities. Discussion on the		
						Senate floor noted that the foregoing should favor sector-based and career pathways initiatives that are focused on green jobs, health care and other viable industries. For purposes of our estimates, we assume		
Additional Workforce Investment Act funding - estimated green training allocation	\$998	2.25%	22.46	33.68	11.23	that approx 1/3rd of the \$2.95 bn will go to green jobs training	Div A, Title VIII	58 DOL
Jobs Training Direct Spending Subtotal	\$1,498					· _ v		
TOTAL DIRECT SPENDING	\$71,683							
TOTAL TAX PROVISIONS	\$21,972							
GRAND TOTAL OF FEDERAL DOLLARS TO AREA	\$93,655		\$3 1/17	\$4.444	\$2,056			
OTO THE OTHER POLITICAL DOLLARO TO THEM	400,000		ΨU, IT1	Ψ¬, ¬¬¬	Ψ2,000			
Beware of the spurious precision of the state numbers; all are estimates and s	hould be rou	inded to	nearest r					
				ree years: 1	the value of	the tax provisions is over 10 years. These dollar estimates are only for the federal dollars and do	not include the total	value of the economic
						I low ranges are set at the default values unless there is reason to think there is a narrower range,		
disbursements in the state energy programs.								
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Sources:

1. Initial appropriations data from Center for American Progress at http://www.americanpro						
2. American Recovery and Reinvestment Act of 2009, http://frwebgate.access.gpo.gov/cgi-						
3. Yellow shaded direct allocations from Center for American Progress at http://www.amer						
org/issues/2009/02/compromise_map.html.						
4. All estimates of dollar value of tax provisions from p.10 -14 of House Ways and Means summary at http://waysandmeans.house.gov/media/pdf/111/arra.pdf						
ADDITIONAL CLIMATE-RELATED PROVISIONS						
NOAA - climate modeling and research to mitigate climate change	\$170	Part of NOAA's \$600 mn allocated for "Procurement, Acquisition & Construction"	Div A, Title II	NOAA		
NASA - Science funding, including to accelerate the development of tier 1 set of Ear						
science climate research recommended by Nat'l Academies Decadal Survey	\$400	A portion of the \$400 mn to go to the described purpose	Div A, Title II	NASA		
bust						
Climanta Caludiana						
Climate Solutions						
PRACTICAL SOLUTIONS TO GLOBAL WARMING						