

VII. Appendix C: Complete State Tables

Table C1: State initiatives

	<i>Regional Cap-and-Trade Initiative</i>	<i>Renewable & Alternative Energy Portfolio Standard</i>	<i>Public Benefit Funds</i>	<i>Energy Efficiency Resource Standards</i>	<i>Alternative Fuel Policies</i>	<i>State Emission Targets</i>	<i>State Climate Action Plans</i>
Alabama	None	None	None	None	None	No	None
Alaska	WCI Observer	None	None	None	Fin. Incentives	No	In Progress
Arizona	WCI	RPS	None	EERS Complete	Fin. Incentives	Yes	Complete
Arkansas	None	None	None	None	Fin. Incentives	No	Complete
California	WCI + State	RPS	R+E Funds	EERS Complete	RFS + Fin. Incentives	Yes	Complete
Colorado	WCI Observer	RPS	None	EERS Complete	Fin. Incentives	Yes	Complete
Connecticut	RGGI	RPS	R+E Funds	EERS Complete	Fin. Incentives	Yes	Complete
Delaware	RGGI	RPS	R+E Funds	None	None	No	Complete
Florida	State Program	State Goal	None	EERS Complete	RFS + Fin. Incentives	Yes	Complete
Georgia	None	None	None	None	None	No	None
Hawaii	None	RPS	EE Funds	EERS Complete	RFS + Fin. Incentives	Yes	Complete
Idaho	WCI Observer	None	None	None	Fin. Incentives	No	In Progress
Illinois	MGGRA	RPS	R+E Funds	EERS Complete	Fin. Incentives	Yes	Complete
Indiana	MGGRA Observer	None	None	EERS Complete	Fin. Incentives	No	None
Iowa	MGGRA	RPS	None	EERS Complete	RFS + Fin. Incentives	No	Complete
Kansas	MGGRA	RPS	None	None	Fin. Incentives	No	In Progress
Kentucky	None	None	None	None	Fin. Incentives	No	Complete
Louisiana	None	None	None	None	RFS + Fin. Incentives	No	None
Maine	RGGI	RPS	R+E Funds	None	Fin. Incentives	Yes	Complete
Maryland	RGGI	RPS	None	EERS Complete	Fin. Incentives	Yes	Complete
Massachusetts	RGGI	RPS	R+E Funds	EERS Pending	RFS + Fin. Incentives	Yes	Complete
Michigan	MGGRA	AEPS	R+E Funds	EERS Complete	Fin. Incentives	Yes	In Progress
Minnesota	MGGRA	RPS	R+E Funds	EERS Complete	RFS + Fin. Incentives	Yes	Complete
Mississippi	None	None	None	None	Fin. Incentives	No	None
Missouri	None	RPS	None	None	RFS + Fin. Incentives	No	Complete
Montana	WCI	RPS	R+E Funds	None	RFS + Fin. Incentives	Yes	Complete

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C1: (continued)

	<i>Regional Cap-and-Trade Initiative</i>	<i>Renewable & Alternative Energy Portfolio Standard</i>	<i>Public Benefit Funds</i>	<i>Energy Efficiency Resource Standards</i>	<i>Alternative Fuel Policies</i>	<i>State Emission Targets</i>	<i>State Climate Action Plans</i>
Nebraska	None	None	None	None	None	No	None
Nevada	WCI Observer	RPS	None	EERS Complete	None	No	Complete
New Hampshire	RGGI	RPS	EE Funds	None	None	Yes	Complete
New Jersey	RGGI	RPS	R+E Funds	EERS Pending	None	Yes	Complete
New Mexico	WCI	RPS	EE Funds	EERS Complete	RFS + Fin. Incentives	Yes	Complete
New York	RGGI	RPS	R+E Funds	EERS Complete	Fin. Incentives	Yes	Complete
North Carolina	None	RPS	None	EERS Complete	Fin. Incentives	No	Complete
North Dakota	None	State Goal	None	None	Fin. Incentives	No	None
Ohio	MGGRA Observer	AEPS	R+E Funds	EERS Complete	Fin. Incentives	No	None
Oklahoma	None	None	None	None	Fin. Incentives	No	None
Oregon	WCI	RPS	R+E Funds	None	RFS + Fin. Incentives	Yes	Complete
Pennsylvania	RGGI Observer	AEPS	R+E Funds	EERS Complete	Fin. Incentives	No	Complete
Rhode Island	RGGI	RPS	R+E Funds	EERS Complete	None	Yes	Complete
South Carolina	None	None	None	None	Fin. Incentives	No	Complete
South Dakota	MGGRA Observer	State Goal	None	None	Fin. Incentives	No	None
Tennessee	None	None	None	None	None	No	None
Texas	None	RPS	None	EERS Complete	Fin. Incentives	No	None
Utah	WCI	State Goal	None	EERS Pending	None	Yes	Complete
Vermont	RGGI	RPS	R+E Funds	EERS Complete	None	Yes	Complete
Virginia	None	State Goal	None	EERS Complete	Fin. Incentives	Yes	Complete
Washington	WCI	RPS	None	EERS Complete	RFS + Fin. Incentives	Yes	Complete
West Virginia	None	AEPS	None	None	None	No	None
Wisconsin	MGGRA	RPS	R+E Funds	EERS Pending	Fin. Incentives	No	Complete
Wyoming	WCI Observer	None	None	None	Fin. Incentives	No	None

Note: WCI is the Western Climate Initiative; RGGI is the Regional Greenhouse Gas Initiative; MGGRA is the Midwestern Greenhouse Gas Reduction Accord. RPS and AEPS stand for renewable portfolio standards and alternative energy portfolio standards, respectively. EE funds are energy-efficiency funds; R+E funds are renewable and efficiency funds. RFS is a renewable fuel standard.

Source: Pew Center on Global Climate Change and Pew Center on the States (2009).

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C2: Per capita carbon dioxide emissions adjusted for electricity trade, 2005 (mT CO₂)

	<i>Per capita transportation emissions</i>	<i>Per capita household heating and cooking emissions</i>	<i>Per capita household electricity emissions</i>	<i>Per capita transportation and residential emissions</i>	<i>Per capita commercial and government emissions</i>	<i>Per capita industrial emissions</i>	<i>Per capita total emissions</i>
Alabama	7.8	0.6	4.7	13.2	3.7	10.3	27.2
Alaska	29.2	2.8	2.3	34.3	6.3	36.0	76.5
Arizona	6.5	0.4	2.9	9.8	3.0	2.0	14.7
Arkansas	7.6	0.8	3.9	12.3	3.4	8.2	23.9
California	6.7	0.8	1.1	8.5	1.9	2.8	13.2
Colorado	6.6	1.7	3.2	11.5	4.8	5.4	21.7
Connecticut	5.5	2.7	1.7	9.9	2.8	1.5	14.2
Delaware	6.4	1.5	4.9	12.7	5.3	8.5	26.6
Dist. Columbia	3.2	1.8	2.9	7.9	16.6	0.5	25.1
Florida	6.6	0.1	4.5	11.1	3.8	1.5	16.4
Georgia	7.8	0.9	4.4	13.1	4.1	5.1	22.3
Hawaii	10.3	0.1	2.2	12.6	2.7	4.3	19.6
Idaho	6.2	1.1	2.7	10.0	2.6	5.8	18.5
Illinois	6.3	2.0	2.2	10.6	3.3	5.5	19.3
Indiana	7.5	1.5	5.7	14.8	5.0	17.3	37.1
Iowa	7.4	1.6	4.7	13.8	5.2	11.8	30.7
Kansas	6.7	1.5	4.6	12.8	5.6	8.3	26.7
Kentucky	8.4	0.9	6.8	16.1	5.5	15.9	37.5
Louisiana	11.6	0.6	4.5	16.6	3.8	23.5	43.9
Maine	7.3	3.7	1.5	12.5	2.8	3.5	18.8
Maryland	6.0	1.3	3.8	11.1	3.3	4.1	18.4
Massachusetts	5.6	2.4	2.2	10.2	3.9	1.8	15.9
Michigan	5.7	2.4	2.6	10.7	4.0	5.1	19.8
Minnesota	7.5	1.8	3.5	12.8	4.7	6.6	24.1
Mississippi	8.9	0.6	4.0	13.6	3.3	6.9	23.8
Missouri	7.5	1.2	5.9	14.7	5.9	4.9	25.5

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C2: (continued)

	<i>Per capita transportation emissions</i>	<i>Per capita household heating and cooking emissions</i>	<i>Per capita household electricity emissions</i>	<i>Per capita transportation and residential emissions</i>	<i>Per capita commercial and government emissions</i>	<i>Per capita industrial emissions</i>	<i>Per capita total emissions</i>
Montana	9.1	1.8	3.6	14.5	5.0	10.6	30.0
Nebraska	7.2	1.4	4.2	12.9	5.0	7.4	25.3
Nevada	7.1	1.0	3.3	11.4	3.3	5.0	19.7
New Hampshire	5.8	2.5	1.3	9.6	2.8	1.4	13.9
New Jersey	8.2	2.0	1.8	12.0	3.7	2.6	18.3
New Mexico	8.1	1.2	3.2	12.5	5.5	7.7	25.8
New York	4.0	2.1	1.3	7.5	3.6	1.3	12.3
North Carolina	6.3	0.8	4.2	11.4	4.0	4.2	19.7
North Dakota	10.4	2.0	7.1	19.5	9.3	26.2	55.0
Ohio	6.5	1.8	4.4	12.7	4.8	8.2	25.7
Oklahoma	9.0	1.1	5.2	15.2	4.9	9.8	30.0
Oregon	6.6	0.8	1.2	8.5	1.5	2.6	12.6
Pennsylvania	6.1	2.0	2.9	11.0	3.5	6.7	21.3
Rhode Island	4.3	2.7	1.8	8.7	3.1	1.1	12.9
South Carolina	7.4	0.6	3.1	11.1	2.6	6.2	19.9
South Dakota	8.3	1.4	3.4	13.1	4.4	4.5	22.0
Tennessee	7.9	0.8	4.9	13.6	4.1	7.0	24.7
Texas	8.7	0.5	4.1	13.4	4.1	11.2	28.6
Utah	6.9	1.4	3.2	11.6	5.0	7.1	23.6
Vermont	6.4	2.8	0.4	9.5	1.4	1.3	12.2
Virginia	7.6	1.2	4.3	13.1	5.0	4.5	22.6
Washington	7.1	0.8	0.9	8.8	1.3	3.4	13.5
West Virginia	7.1	1.2	6.4	14.7	5.2	13.5	33.4
Wisconsin	5.8	1.8	3.9	11.5	5.0	7.4	23.9
Wyoming	16.8	1.7	5.3	23.8	10.0	37.1	70.8

Source: Stanton et al. (2010).

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C3: ACEEE 2009 Energy Efficiency Scores

	<i>Utility and Public Benefits Programs and Policies</i>	<i>Transportation Policies</i>	<i>Building Codes</i>	<i>Combined Heat & Power</i>	<i>State Government Initiatives</i>	<i>Appliance Standards</i>	<i>Total Score</i>	<i>Rank</i>	<i>Change in rank from 2008</i>
Alabama	0.0	0.0	0.0	1.0	2.0	0.0	3.0	48	1
Alaska	0.0	1.0	2.0	2.0	1.0	0.0	6.0	45	-8
Arizona	6.5	4.0	0.5	1.0	2.0	1.0	15.0	29	-1
Arkansas	1.0	0.0	4.0	2.0	0.0	0.0	7.0	41	-3
California	18.5	6.0	7.0	5.0	5.0	3.0	44.5	1	0
Colorado	11.0	1.0	3.0	3.0	3.0	0.0	21.0	16	8
Connecticut	17.0	5.0	4.0	5.0	4.5	2.0	37.5	3	0
Delaware	4.5	3.0	5.0	3.0	3.0	0.0	18.5	20	12
Dist. Columbia	1.5	4.0	6.0	4.0	2.0	1.0	18.5	20	10
Florida	4.0	1.0	5.5	3.0	3.0	0.0	16.5	23	-4
Georgia	1.5	1.0	4.0	0.0	0.0	0.0	6.5	44	-8
Hawaii	11.5	1.0	1.5	3.0	2.0	0.0	19.0	19	-4
Idaho	8.5	0.0	5.0	2.0	3.0	0.0	18.5	20	-7
Illinois	4.0	0.0	3.5	5.0	3.5	0.0	16.0	26	-7
Indiana	3.5	0.0	1.5	4.0	3.0	0.0	12.0	32	6
Iowa	13.0	0.0	4.0	0.0	3.0	0.0	20.0	18	-4
Kansas	2.0	0.0	1.5	1.0	3.0	0.0	7.5	39	-1
Kentucky	4.5	0.0	4.0	1.0	2.0	0.0	11.5	33	-2
Louisiana	0.0	1.0	3.0	0.0	3.0	0.0	7.0	41	-6
Maine	8.5	4.0	5.5	4.0	4.0	0.0	26.0	10	9
Maryland	5.5	5.0	5.5	3.0	3.0	2.0	24.0	11	1
Massachusetts	17.0	4.0	7.0	4.0	5.0	2.0	39.0	2	5
Michigan	2.5	0.0	3.5	2.0	2.0	0.0	10.0	34	4
Minnesota	16.5	2.0	5.0	3.0	4.0	0.0	30.5	8	-1
Mississippi	0.0	0.0	0.0	1.0	1.0	0.0	2.0	49	-2
Missouri	1.5	0.0	1.0	2.0	2.5	0.0	7.0	41	4

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C3: (continued)

	<i>Utility and Public Benefits Programs and Policies</i>	<i>Transportation Policies</i>	<i>Building Codes</i>	<i>Combined Heat & Power</i>	<i>State Government Initiatives</i>	<i>Appliance Standards</i>	<i>Total Score</i>	<i>Rank</i>	<i>Change in rank from 2008</i>
Montana	6.5	0.0	3.0	1.0	3.0	0.0	13.5	31	-4
Nebraska	0.5	0.0	2.0	1.0	1.0	0.0	4.5	47	-9
Nevada	11.0	0.0	4.0	2.0	3.0	1.0	21.0	16	-1
New Hampshire	10.5	0.0	5.5	2.0	4.0	1.0	23.0	13	5
New Jersey	9.5	5.0	3.5	4.0	1.0	0.0	23.0	13	-3
New Mexico	5.0	2.0	3.5	2.0	2.0	0.0	14.5	30	-5
New York	14.0	5.0	4.5	5.0	5.0	1.0	34.5	5	0
North Carolina	4.5	0.0	4.5	3.0	4.0	0.0	16.0	26	2
North Dakota	1.0	0.0	0.0	1.0	0.0	0.0	2.0	49	0
Ohio	5.0	0.0	3.5	5.0	2.0	0.0	15.5	28	-9
Oklahoma	1.5	1.0	2.0	1.0	2.0	0.0	7.5	39	4
Oregon	14.0	5.0	6.0	5.0	4.5	2.0	36.5	4	-2
Pennsylvania	3.0	4.0	6.0	4.0	5.0	0.0	22.0	15	0
Rhode Island	13.0	4.0	5.5	1.0	2.0	2.0	27.5	9	2
South Carolina	2.5	1.0	3.0	1.0	1.0	0.0	8.5	37	-3
South Dakota	4.5	0.0	0.0	3.0	1.5	0.0	9.0	36	11
Tennessee	2.0	2.0	1.0	1.0	2.0	0.0	8.0	38	8
Texas	5.5	0.0	3.0	5.0	3.0	0.0	16.5	23	-4
Utah	9.5	0.0	4.0	1.0	2.0	0.0	16.5	23	2
Vermont	19.0	4.0	3.5	2.0	4.0	1.0	33.5	6	-2
Virginia	1.5	1.0	4.5	0.0	3.0	0.0	10.0	34	-2
Washington	14.0	6.0	6.0	3.0	2.0	2.0	33.0	7	-1
West Virginia	0.0	0.0	3.0	1.0	2.0	0.0	6.0	45	-2
Wisconsin	11.0	1.0	4.0	4.0	4.0	0.0	24.0	11	-2
Wyoming	1.0	0.0	0.0	0.0	0.0	0.0	1.0	51	0

Source: ACEEE (2009), Table 23: Summary of Overall State Scoring of Energy Efficiency.

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C4: Electricity consumption, imports, exports, and generation for U.S. states, 2008

	<i>Consumption per capita (mwh)</i>	<i>Exports (million mwh)</i>	<i>Imports (million mwh)</i>	<i>Carbon intensity (mT CO₂/mwh)</i>	<i>Geothermal share</i>	<i>Hydro-electric share</i>	<i>Nuclear share</i>	<i>Wind share</i>	<i>Solar shaer</i>	<i>Coal share</i>	<i>Natural Gas share</i>	<i>Petroleum share</i>	<i>Wood and Biomass share</i>	<i>Other share</i>
Alabama	19.2	41.8	0.0	0.6	0.0%	4.2%	26.7%	0.0%	0.0%	51.1%	15.3%	0.1%	2.3%	0.1%
Alaska	9.2	0.0	0.0	0.6	0.0%	17.3%	0.0%	0.0%	0.0%	9.1%	59.1%	14.4%	0.1%	0.0%
Arizona	11.7	31.4	0.0	0.5	0.0%	6.1%	24.5%	0.0%	0.0%	36.7%	32.5%	0.0%	0.1%	0.1%
Arkansas	16.2	3.5	0.0	0.6	0.0%	8.5%	25.7%	0.0%	0.0%	47.4%	15.4%	0.1%	2.7%	0.1%
California	7.3	0.0	-80.6	0.3	6.2%	11.6%	15.6%	2.6%	0.3%	1.1%	57.7%	0.8%	2.8%	1.2%
Colorado	10.6	0.0	-4.0	0.8	0.0%	3.8%	0.0%	6.0%	0.0%	65.2%	25.2%	0.0%	0.1%	-0.4%
Connecticut	8.8	0.0	-3.5	0.3	0.0%	1.8%	50.8%	0.0%	0.0%	14.4%	26.5%	1.7%	2.4%	2.4%
Delaware	13.5	0.0	-5.0	0.9	0.0%	0.0%	0.0%	0.0%	0.0%	70.0%	18.4%	2.9%	2.2%	6.5%
Dist. Columbia	20.0	0.0	-11.8		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
Florida	12.3	0.0	-28.1	0.6	0.0%	0.1%	14.6%	0.0%	0.0%	29.5%	47.1%	5.5%	2.0%	1.3%
Georgia	14.0	0.0	-12.4	0.7	0.0%	1.6%	23.3%	0.0%	0.0%	62.8%	9.9%	0.5%	2.0%	-0.1%
Hawaii	8.1	0.0	0.0	0.8	2.1%	0.7%	0.0%	2.1%	0.0%	14.5%	0.0%	76.2%	2.7%	1.7%
Idaho	15.7	0.0	-13.1	0.2	0.7%	78.2%	0.0%	1.7%	0.0%	0.8%	14.2%	0.0%	3.8%	0.6%
Illinois	11.2	35.2	0.0	0.5	0.0%	0.1%	47.7%	1.2%	0.0%	48.4%	2.1%	0.1%	0.3%	0.1%
Indiana	16.8	9.8	0.0	1.0	0.0%	0.3%	0.0%	0.2%	0.0%	94.2%	2.8%	0.1%	0.2%	2.1%
Iowa	15.1	2.4	0.0	0.8	0.0%	1.5%	10.0%	7.7%	0.0%	76.1%	4.1%	0.3%	0.3%	0.0%
Kansas	14.1	2.5	0.0	0.8	0.0%	0.0%	18.2%	3.8%	0.0%	72.9%	4.8%	0.3%	0.0%	0.0%
Kentucky	21.9	0.0	-5.2	1.0	0.0%	2.0%	0.0%	0.0%	0.0%	93.6%	1.0%	2.9%	0.5%	0.0%
Louisiana	17.8	4.6	0.0	0.6	0.0%	1.2%	16.6%	0.0%	0.0%	26.1%	49.0%	2.5%	2.9%	1.7%
Maine	8.9	3.7	0.0	0.5	0.0%	26.1%	0.0%	0.8%	0.0%	2.1%	43.2%	3.1%	23.0%	1.8%
Maryland	11.2	0.0	-20.6	0.6	0.0%	4.2%	31.0%	0.0%	0.0%	57.5%	3.9%	0.9%	1.3%	1.3%
Massachusetts	8.6	0.0	-17.6	0.6	0.0%	2.7%	13.8%	0.0%	0.0%	25.0%	50.6%	5.0%	2.9%	-0.1%
Michigan	10.6	0.0	-2.1	0.7	0.0%	1.2%	27.4%	0.1%	0.0%	60.7%	8.4%	0.4%	2.1%	-0.3%
Minnesota	13.2	0.0	-19.4	0.7	0.0%	1.3%	23.7%	8.0%	0.0%	58.0%	5.2%	0.4%	2.7%	0.6%
Mississippi	16.2	0.0	-4.3	0.6	0.0%	0.0%	19.5%	0.0%	0.0%	34.6%	42.7%	0.2%	2.9%	0.1%
Missouri	14.3	0.0	-2.3	0.9	0.0%	2.2%	10.3%	0.2%	0.0%	80.8%	5.7%	0.1%	0.0%	0.6%

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C4: (continued)

	<i>Consumption per capita (mwh)</i>	<i>Exports (million mwh)</i>	<i>Imports (million mwh)</i>	<i>Carbon intensity (mT CO₂/mwh)</i>	<i>Geothermal share</i>	<i>Hydro-electric share</i>	<i>Nuclear share</i>	<i>Wind share</i>	<i>Solar shaer</i>	<i>Coal share</i>	<i>Natural Gas share</i>	<i>Petroleum share</i>	<i>Wood and Biomass share</i>	<i>Other share</i>
Montana	15.8	11.4	0.0	0.7	0.4%	33.7%	0.0%	2.0%	0.0%	61.9%	0.2%	1.4%	0.4%	0.0%
Nebraska	16.2	0.4	0.0	0.6	0.0%	1.1%	29.3%	0.7%	0.0%	66.3%	2.3%	0.1%	0.2%	0.0%
Nevada	13.5	0.0	-3.6	0.5	3.9%	5.0%	0.0%	0.0%	0.4%	22.3%	68.3%	0.0%	0.0%	0.0%
New Hampshire	8.3	9.6	0.0	0.4	0.0%	7.1%	40.9%	0.0%	0.0%	15.1%	30.9%	0.6%	5.1%	0.3%
New Jersey	9.3	0.0	-23.1	0.3	0.0%	0.0%	50.6%	0.0%	0.0%	14.2%	32.6%	0.5%	1.4%	0.7%
New Mexico	11.1	11.3	0.0	0.9	0.0%	0.8%	0.0%	4.4%	0.0%	73.0%	21.5%	0.1%	0.1%	0.0%
New York	7.4	0.0	-17.5	0.4	0.0%	19.0%	30.8%	0.9%	0.0%	13.7%	31.3%	2.7%	1.5%	0.2%
North Carolina	14.1	0.0	-17.1	0.6	0.0%	2.4%	31.8%	0.0%	0.0%	60.5%	3.3%	0.3%	1.5%	0.2%
North Dakota	19.4	17.1	0.0	1.0	0.0%	3.8%	0.0%	5.2%	0.0%	90.6%	0.0%	0.1%	0.0%	0.2%
Ohio	13.9	0.0	-21.1	0.8	0.0%	0.3%	11.4%	0.0%	0.0%	85.2%	1.6%	0.9%	0.4%	0.2%
Oklahoma	15.5	12.5	0.0	0.7	0.0%	5.0%	0.0%	3.1%	0.0%	47.6%	44.2%	0.0%	0.3%	-0.2%
Oregon	13.0	3.8	0.0	0.2	0.0%	57.6%	0.0%	4.4%	0.0%	6.9%	29.6%	0.0%	1.4%	0.1%
Pennsylvania	12.1	50.1	0.0	0.6	0.0%	1.1%	35.4%	0.3%	0.0%	52.9%	8.4%	0.4%	0.9%	0.5%
Rhode Island	7.4	0.0	-1.2	0.4	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	97.4%	0.4%	2.1%	0.0%
South Carolina	18.0	10.4	0.0	0.4	0.0%	1.1%	51.3%	0.0%	0.0%	41.1%	5.7%	0.2%	1.8%	-1.2%
South Dakota	13.6	0.0	-4.6	0.5	0.0%	42.3%	0.0%	2.0%	0.0%	51.7%	3.2%	0.3%	0.0%	0.4%
Tennessee	16.8	0.0	-22.4	0.6	0.0%	6.2%	29.8%	0.1%	0.0%	62.9%	0.5%	0.2%	1.0%	-0.8%
Texas	14.3	17.9	0.0	0.6	0.0%	0.3%	10.1%	4.0%	0.0%	36.3%	47.7%	0.3%	0.3%	1.0%
Utah	10.3	13.8	0.0	0.9	0.5%	1.4%	0.0%	0.1%	0.0%	81.6%	15.8%	0.1%	0.1%	0.4%
Vermont	9.2	0.4	0.0	0.1	0.0%	21.9%	71.8%	0.2%	0.0%	0.0%	0.0%	0.1%	6.1%	0.0%
Virginia	14.2	0.0	-44.6	0.5	0.0%	1.4%	38.4%	0.0%	0.0%	43.7%	12.8%	1.6%	3.7%	-1.7%
Washington	13.3	12.6	0.0	0.1	0.0%	70.1%	8.4%	3.3%	0.0%	7.9%	8.9%	0.0%	1.2%	0.3%
West Virginia	18.9	47.9	0.0	0.9	0.0%	1.4%	0.0%	0.4%	0.0%	97.8%	0.2%	0.2%	0.0%	0.1%
Wisconsin	12.5	0.0	-12.9	0.7	0.0%	2.5%	19.1%	0.8%	0.0%	65.7%	8.3%	1.5%	2.0%	0.1%
Wyoming	31.3	25.2	0.0	1.0	0.0%	1.8%	0.0%	2.1%	0.0%	94.2%	1.1%	0.1%	0.0%	0.8%

Sources: U.S. Energy Information Administration (2010e), U.S. Census Bureau (2009), and Hodges and Rahmani (2009); see Stanton et al. (2009) for methodology.

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C5: Household non-electricity fuel use and price of fuels, 2007

	<i>Non-electricity household fuel use (million Btu/capita)</i>	<i>Oil share of fuel use in Btu</i>	<i>Natural gas share of fuel use in Btu</i>	<i>Propane share of fuel use in Btu</i>	<i>Wood share of fuel use in Btu</i>	<i>Electricity price (\$/million Btu)</i>	<i>Natural gas price (\$/million Btu)</i>	<i>Oil price (\$/million Btu)</i>	<i>Propane price (\$/million Btu)</i>	<i>Wood price (\$/million Btu)</i>
Alabama	11.7	0.0%	69.5%	14.2%	15.9%	27.3	17.8	19.4	25.9	8.6
Alaska	49.9	26.6%	62.2%	1.9%	4.4%	44.5	8.6	18.2	30.1	11.6
Arizona	9.5	0.0%	71.1%	5.4%	23.5%	28.3	16.8	20.4	29.5	11.6
Arkansas	14.9	0.0%	81.1%	12.2%	6.7%	25.6	13.1	19.8	24.4	8.6
California	15.7	0.1%	90.1%	4.9%	4.7%	42.3	11.4	20.7	29.6	11.6
Colorado	33.8	0.0%	86.3%	6.9%	6.9%	27.1	8.7	19.2	23.0	11.6
Connecticut	38.7	57.8%	34.0%	4.2%	3.5%	56.0	15.9	20.0	29.5	6.9
Delaware	22.6	20.0%	56.2%	15.1%	7.0%	38.6	15.6	18.6	27.1	8.6
Dist. Columbia	30.7	7.6%	86.7%	0.0%	5.7%	32.8	15.3	20.0	29.7	8.6
Florida	1.9	0.9%	50.0%	42.0%	6.7%	32.9	19.1	18.5	32.4	8.6
Georgia	15.7	0.1%	83.0%	7.6%	9.1%	26.7	17.1	18.1	25.0	8.6
Hawaii	1.3	0.0%	31.3%	68.8%	0.0%	70.7	32.8	20.1	45.4	
Idaho	23.1	4.3%	74.3%	11.5%	9.6%	18.6	11.2	19.9	25.4	11.6
Illinois	38.8	0.2%	91.0%	3.8%	4.9%	29.7	10.6	19.4	21.0	8.7
Indiana	29.0	1.6%	82.4%	8.3%	7.1%	24.2	11.0	19.5	23.3	8.7
Iowa	32.0	1.4%	74.7%	16.3%	6.8%	27.7	11.6	19.3	19.0	8.7
Kansas	29.0	0.0%	83.3%	9.5%	7.3%	24.0	12.7	19.4	20.6	8.7
Kentucky	17.2	2.0%	75.8%	10.3%	10.6%	21.5	11.7	19.5	24.8	8.6
Louisiana	10.2	0.0%	85.4%	5.2%	9.4%	27.5	13.7	19.4	28.2	8.6
Maine	45.8	71.8%	2.2%	13.1%	3.7%	48.4	15.0	19.2	30.4	6.9
Maryland	22.3	16.0%	71.1%	5.4%	6.3%	34.9	14.6	20.2	30.5	8.6
Massachusetts	36.6	40.9%	51.4%	3.3%	3.9%	47.6	16.9	19.5	31.2	6.9
Michigan	40.7	2.0%	83.7%	9.0%	5.1%	29.9	10.8	19.8	23.2	8.7
Minnesota	33.8	5.3%	78.0%	10.3%	6.3%	26.9	10.9	19.9	21.4	8.7
Mississippi	12.2	0.0%	66.3%	19.2%	14.2%	27.4	12.7	20.0	27.7	8.6
Missouri	23.8	0.6%	77.1%	12.7%	9.1%	22.5	13.2	19.2	20.8	8.7

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C5: (continued)

	<i>Non-electricity household fuel use (million Btu/capita)</i>	<i>Oil share of fuel use in Btu</i>	<i>Natural gas share of fuel use in Btu</i>	<i>Propane share of fuel use in Btu</i>	<i>Wood share of fuel use in Btu</i>	<i>Electricity price (\$/million Btu)</i>	<i>Natural gas price (\$/million Btu)</i>	<i>Oil price (\$/million Btu)</i>	<i>Propane price (\$/million Btu)</i>	<i>Wood price (\$/million Btu)</i>
Montana	33.3	3.6%	66.0%	23.1%	7.3%	25.7	9.8	18.7	20.7	11.6
Nebraska	28.8	0.6%	79.9%	12.2%	7.3%	22.3	11.0	19.4	19.2	8.7
Nevada	20.3	1.9%	82.4%	4.5%	11.0%	34.6	13.5	20.6	29.1	11.6
New Hampshire	34.3	54.2%	17.2%	20.4%	4.3%	43.6	16.5	18.3	26.6	6.9
New Jersey	34.3	15.0%	80.7%	2.0%	2.3%	41.4	14.0	20.6	32.4	6.9
New Mexico	23.9	0.0%	76.1%	14.4%	9.5%	26.7	11.6	19.6	25.6	11.6
New York	35.3	26.6%	61.7%	2.8%	7.7%	50.1	15.1	20.1	28.6	6.9
North Carolina	13.2	10.4%	54.7%	18.6%	11.9%	27.5	15.1	18.1	26.3	8.6
North Dakota	34.6	12.8%	53.1%	25.6%	6.6%	21.4	8.7	19.3	19.1	8.7
Ohio	33.0	4.0%	84.4%	5.0%	6.2%	28.1	13.0	19.0	25.4	8.7
Oklahoma	22.1	0.3%	83.9%	11.3%	4.5%	25.2	11.3	19.2	21.9	8.6
Oregon	16.0	5.6%	76.7%	4.0%	13.7%	24.0	14.4	18.0	27.8	11.6
Pennsylvania	31.5	26.5%	63.9%	5.1%	2.7%	32.1	14.1	19.2	28.4	6.9
Rhode Island	37.0	45.3%	48.2%	2.4%	3.9%	41.2	16.0	20.1	35.9	6.9
South Carolina	9.7	2.5%	63.3%	15.2%	16.2%	26.9	16.6	18.4	27.7	8.6
South Dakota	26.5	5.1%	62.6%	24.2%	8.1%	23.7	10.5	19.1	19.3	8.7
Tennessee	14.5	0.8%	75.0%	10.0%	12.5%	23.0	12.9	19.7	26.5	8.6
Texas	11.1	0.0%	83.5%	9.0%	7.5%	36.2	11.6	19.9	26.6	8.6
Utah	29.7	0.3%	89.4%	4.0%	6.3%	23.9	8.9	19.6	24.1	11.6
Vermont	40.0	52.3%	13.3%	24.5%	4.1%	41.5	16.0	20.5	27.5	6.9
Virginia	18.7	18.5%	61.5%	9.1%	7.7%	25.6	14.8	18.2	28.4	8.6
Washington	17.7	5.9%	75.7%	6.1%	12.2%	21.3	13.5	22.3	25.5	11.6
West Virginia	20.8	5.1%	77.2%	7.6%	7.9%	19.7	13.6	18.9	28.6	8.6
Wisconsin	33.0	6.5%	74.9%	12.0%	6.5%	31.8	11.9	19.5	21.1	8.7
Wyoming	36.1	1.1%	72.1%	19.6%	6.7%	22.7	8.5	19.4	23.6	11.6

Source: U.S. Energy Information Administration (2009c).

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C6: Fuel use, population density, share of commuters using alternative transportation, 2008

	<i>Fuel use per capita (gallons)</i>	<i>Density (people per square mile)</i>	<i>Bus or trolley bus</i>	<i>Streetcar or trolley car</i>	<i>Subway or elevated</i>	<i>Railroad</i>	<i>Ferryboat</i>	<i>Total public transportation</i>	<i>Bicycle</i>	<i>Walked</i>
Alabama	704.7	91.9	0.49%	0.01%	0.01%	0.00%	0.00%	0.52%	0.13%	1.26%
Alaska	737.6	1.2	1.50%	0.07%	0.00%	0.00%	0.12%	1.68%	0.82%	7.13%
Arizona	533.9	57.2	2.29%	0.01%	0.01%	0.01%	0.00%	2.33%	0.87%	1.90%
Arkansas	696.2	54.8	0.40%	0.02%	0.01%	0.00%	0.00%	0.43%	0.13%	2.04%
California	482.8	235.7	3.88%	0.17%	0.80%	0.38%	0.03%	5.26%	0.99%	2.80%
Colorado	531.2	47.6	3.04%	0.04%	0.24%	0.11%	0.01%	3.44%	1.25%	2.73%
Connecticut	502.3	722.7	2.31%	0.01%	0.14%	1.88%	0.00%	4.35%	0.23%	2.86%
Delaware	555.9	446.9	3.17%	0.06%	0.11%	0.48%	0.00%	3.82%	0.30%	2.35%
Dist. Columbia	215.5	9639.0	15.58%	0.28%	19.49%	0.33%	0.05%	35.74%	2.33%	12.11%
Florida	512.7	339.9	1.78%	0.01%	0.09%	0.08%	0.00%	1.97%	0.60%	1.51%
Georgia	619.8	167.3	1.85%	0.03%	0.45%	0.08%	0.00%	2.42%	0.20%	1.47%
Hawaii	377.4	200.6	5.79%	0.00%	0.01%	0.00%	0.05%	5.85%	0.95%	4.23%
Idaho	561.2	18.4	0.97%	0.00%	0.03%	0.03%	0.00%	1.02%	1.52%	3.17%
Illinois	489.4	232.1	4.06%	0.08%	2.26%	2.29%	0.00%	8.69%	0.54%	2.98%
Indiana	666.8	177.8	0.87%	0.02%	0.03%	0.21%	0.00%	1.13%	0.44%	2.30%
Iowa	716.8	53.7	1.20%	0.00%	0.00%	0.01%	0.00%	1.21%	0.48%	4.08%
Kansas	616.9	34.2	0.49%	0.01%	0.02%	0.00%	0.00%	0.51%	0.39%	2.59%
Kentucky	682.3	107.5	1.18%	0.02%	0.00%	0.00%	0.00%	1.20%	0.19%	2.42%
Louisiana	626.0	101.3	1.21%	0.05%	0.00%	0.00%	0.05%	1.32%	0.36%	1.96%
Maine	629.9	42.7	0.65%	0.00%	0.00%	0.02%	0.05%	0.73%	0.53%	4.00%
Maryland	561.3	576.4	4.29%	0.09%	3.47%	0.68%	0.01%	8.54%	0.32%	2.35%
Massachusetts	482.5	828.8	2.98%	0.36%	3.96%	1.51%	0.06%	8.87%	0.72%	4.60%
Michigan	529.3	176.1	1.39%	0.01%	0.01%	0.01%	0.01%	1.42%	0.45%	2.19%
Minnesota	603.0	65.6	3.23%	0.02%	0.07%	0.10%	0.00%	3.43%	0.86%	2.95%
Mississippi	754.2	62.6	0.32%	0.01%	0.00%	0.02%	0.01%	0.36%	0.24%	1.75%
Missouri	693.4	85.8	1.48%	0.02%	0.10%	0.03%	0.00%	1.63%	0.21%	2.01%

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C6: (continued)

	<i>Fuel use per capita (gallons)</i>	<i>Density (people per square mile)</i>	<i>Bus or trolley bus</i>	<i>Streetcar or trolley car</i>	<i>Subway or elevated</i>	<i>Railroad</i>	<i>Ferryboat</i>	<i>Total public transportation</i>	<i>Bicycle</i>	<i>Walked</i>
Montana	736.2	6.6	1.09%	0.00%	0.00%	0.00%	0.00%	1.09%	1.45%	5.47%
Nebraska	681.2	23.2	0.70%	0.01%	0.00%	0.00%	0.01%	0.72%	0.47%	3.11%
Nevada	553.0	23.7	3.71%	0.00%	0.00%	0.00%	0.00%	3.71%	0.45%	2.37%
New Hampshire	607.8	146.7	0.62%	0.00%	0.02%	0.13%	0.00%	0.79%	0.32%	3.32%
New Jersey	587.5	1170.6	5.96%	0.06%	1.57%	2.57%	0.18%	10.34%	0.31%	3.33%
New Mexico	687.5	16.4	1.10%	0.00%	0.00%	0.07%	0.00%	1.17%	1.02%	2.61%
New York	353.9	412.8	6.57%	0.16%	17.04%	2.80%	0.10%	26.66%	0.47%	6.33%
North Carolina	606.3	189.3	1.04%	0.01%	0.03%	0.01%	0.02%	1.12%	0.24%	1.72%
North Dakota	835.1	9.3	0.63%	0.00%	0.00%	0.00%	0.00%	0.63%	0.82%	3.71%
Ohio	557.9	280.5	1.84%	0.02%	0.05%	0.02%	0.00%	1.92%	0.34%	2.18%
Oklahoma	733.5	53.0	0.38%	0.00%	0.02%	0.00%	0.00%	0.40%	0.26%	1.98%
Oregon	527.4	39.5	3.79%	0.36%	0.20%	0.16%	0.01%	4.52%	2.09%	3.93%
Pennsylvania	508.7	277.8	3.70%	0.12%	0.65%	0.85%	0.01%	5.33%	0.41%	3.98%
Rhode Island	430.9	1005.6	1.97%	0.07%	0.08%	0.62%	0.00%	2.73%	0.30%	3.06%
South Carolina	708.7	148.8	0.61%	0.02%	0.04%	0.02%	0.00%	0.69%	0.23%	1.84%
South Dakota	747.7	10.6	0.52%	0.00%	0.02%	0.00%	0.00%	0.54%	0.52%	4.64%
Tennessee	636.2	150.8	0.70%	0.01%	0.00%	0.02%	0.00%	0.73%	0.16%	1.38%
Texas	653.7	92.9	1.59%	0.02%	0.05%	0.08%	0.00%	1.74%	0.26%	1.73%
Utah	534.5	33.3	1.97%	0.13%	0.08%	0.21%	0.00%	2.40%	0.71%	2.96%
Vermont	617.8	67.2	0.87%	0.00%	0.04%	0.00%	0.02%	0.93%	0.65%	6.35%
Virginia	632.1	196.2	2.26%	0.06%	1.69%	0.28%	0.00%	4.29%	0.40%	2.27%
Washington	492.5	98.4	4.99%	0.04%	0.02%	0.18%	0.27%	5.50%	0.91%	3.56%
West Virginia	571.1	75.4	0.62%	0.00%	0.03%	0.12%	0.00%	0.77%	0.16%	3.10%
Wisconsin	561.2	103.6	1.84%	0.00%	0.01%	0.03%	0.00%	1.89%	0.74%	3.34%
Wyoming	1310.6	5.5	1.16%	0.04%	0.01%	0.03%	0.00%	1.25%	1.02%	3.85%

Sources: Federal Highway Administration (2009b), U.S. Census Bureau (ND; 2009).

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C7: Job gains and losses

	<i>Net job gains from \$150 billion clean-energy investment</i>	<i>2008 unemployment rate</i>	<i>Unemployment rate after job gains (\$150 billion)</i>	<i>Percentile decrease to unemployment rate (\$150 billion)</i>	<i>Net job gains from \$18/mT CO2 carbon price</i>	<i>Job losses as a share of labor force (\$18/mT)</i>	<i>Net job gains from \$30/mT CO2 carbon price</i>	<i>Job losses as a share of labor force (\$30/mT)</i>
Alabama	29,173	5.0%	3.7%	1.3%	(1,338)	-0.1%	(1,335)	-0.1%
Alaska	3,730	6.7%	5.6%	1.1%	(965)	-0.3%	(2,014)	-0.6%
Arizona	29,548	5.5%	4.6%	0.9%	(20)	0.0%	1,330	0.0%
Arkansas	17,732	5.1%	3.8%	1.3%	(1,199)	-0.1%	(1,323)	-0.1%
California	174,927	7.2%	6.3%	0.9%	1,328	0.0%	9,434	0.1%
Colorado	28,149	4.9%	3.9%	1.0%	(1,356)	-0.1%	(2,660)	-0.1%
Connecticut	16,741	5.7%	4.8%	0.9%	565	0.0%	1,578	0.1%
Delaware	5,726	4.8%	3.5%	1.3%	612	0.1%	911	0.2%
Dist. Columbia	5,514	7.0%	5.3%	1.7%	805	0.2%	1,216	0.4%
Florida	94,725	6.2%	5.2%	1.0%	6,387	0.1%	12,479	0.1%
Georgia	58,816	6.2%	5.0%	1.2%	1,292	0.0%	3,522	0.1%
Hawaii	7,146	3.9%	2.9%	1.0%	931	0.1%	1,294	0.2%
Idaho	8,504	4.9%	3.7%	1.2%	881	0.1%	1,108	0.1%
Illinois	69,624	6.5%	5.4%	1.1%	174	0.0%	2,738	0.0%
Indiana	38,013	5.9%	4.7%	1.2%	(2,390)	-0.1%	(1,216)	0.0%
Iowa	18,290	4.1%	3.0%	1.1%	(266)	0.0%	622	0.0%
Kansas	17,070	4.4%	3.2%	1.2%	(1,424)	-0.1%	(2,060)	-0.1%
Kentucky	25,705	6.4%	5.2%	1.2%	(2,920)	-0.1%	(4,338)	-0.2%
Louisiana	29,095	4.6%	3.2%	1.4%	(6,475)	-0.3%	(13,538)	-0.7%
Maine	9,957	5.4%	4.0%	1.4%	171	0.0%	554	0.1%
Maryland	26,605	4.4%	3.5%	0.9%	1,331	0.0%	2,945	0.1%
Massachusetts	38,410	5.3%	4.1%	1.2%	1,542	0.0%	3,819	0.1%
Michigan	53,816	8.4%	7.3%	1.1%	14	0.0%	1,890	0.0%
Minnesota	30,263	5.4%	4.4%	1.0%	137	0.0%	1,957	0.1%
Mississippi	19,007	6.9%	5.4%	1.5%	(1,031)	-0.1%	(1,274)	-0.1%
Missouri	35,989	6.1%	4.9%	1.2%	167	0.0%	1,495	0.0%

Emission Reduction, Interstate Equity, and the Price of Carbon

Table C7: (continued)

	<i>Net job gains from \$150 billion clean-energy investment</i>	<i>2008 unemployment rate</i>	<i>Unemployment rate after job gains (\$150 billion)</i>	<i>Percentile decrease to unemployment rate (\$150 billion)</i>	<i>Net job gains from \$18/mT CO2 carbon price</i>	<i>Job losses as a share of labor force (\$18/mT)</i>	<i>Net job gains from \$30/mT CO2 carbon price</i>	<i>Job losses as a share of labor force (\$30/mT)</i>
Montana	6,303	4.5%	3.2%	1.3%	(284)	-0.1%	(668)	-0.1%
Nebraska	11,059	3.3%	2.2%	1.1%	1,021	0.1%	1,563	0.2%
Nevada	10,553	6.7%	5.9%	0.8%	514	0.0%	1,513	0.1%
New Hampshire	7,686	3.8%	2.8%	1.0%	79	0.0%	532	0.1%
New Jersey	47,519	5.5%	4.4%	1.1%	1,829	0.0%	4,562	0.1%
New Mexico	11,443	4.2%	3.0%	1.2%	(1,294)	-0.1%	(3,077)	-0.3%
New York	109,441	5.4%	4.3%	1.1%	6,716	0.1%	12,301	0.1%
North Carolina	51,210	6.3%	5.2%	1.1%	(292)	0.0%	1,907	0.0%
North Dakota	4,257	3.2%	2.0%	1.2%	(519)	-0.1%	(1,191)	-0.3%
Ohio	67,356	6.5%	5.4%	1.1%	(1,299)	0.0%	1,227	0.0%
Oklahoma	27,684	3.8%	2.2%	1.6%	(5,439)	-0.3%	(11,665)	-0.7%
Oregon	20,931	6.4%	5.3%	1.1%	14	0.0%	972	0.1%
Pennsylvania	71,667	5.4%	4.3%	1.1%	(1,475)	0.0%	(264)	0.0%
Rhode Island	4,540	7.8%	7.0%	0.8%	639	0.1%	976	0.2%
South Carolina	24,757	6.9%	5.8%	1.1%	9	0.0%	1,112	0.1%
South Dakota	5,272	3.0%	1.9%	1.1%	514	0.1%	653	0.1%
Tennessee	39,128	6.4%	5.1%	1.3%	(1,150)	0.0%	925	0.0%
Texas	152,760	4.9%	3.6%	1.3%	(21,688)	-0.2%	(44,280)	-0.4%
Utah	16,149	3.4%	2.3%	1.1%	(1,137)	-0.1%	(1,450)	-0.1%
Vermont	4,270	4.8%	3.6%	1.2%	430	0.1%	611	0.2%
Virginia	44,668	4.0%	2.9%	1.1%	182	0.0%	1,593	0.0%
Washington	33,505	5.3%	4.4%	0.9%	235	0.0%	2,535	0.1%
West Virginia	10,334	4.3%	3.0%	1.3%	(3,084)	-0.4%	(6,168)	-0.8%
Wisconsin	35,238	4.7%	3.6%	1.1%	(1,093)	0.0%	621	0.0%
Wyoming	3,522	3.1%	1.9%	1.2%	(3,177)	-1.1%	(6,844)	-2.4%

Sources: Pollin, Heintz et al. (2009) and authors' calculations (see text for data sources and methodology).