

Appendix A: Descriptive Statistics (2008)

Variable	Description of Variable	Source of Data	Obs	Mean	Std. Dev.	Min	Max
Solar Density	kwh/M2/day	NREL	50	4.2364	0.5374268	2.42	5.48
Wind Potential	Pct of US Electricity Potential	NREL (Elliot and Schwartz 1993)	48	3.466667	7.188239	0	36
Biomasspc	Thousand Tons / Year / Population	NREL (Milbrandt, 2005)	50	.0026699	.0044129	.0001292	.0267999
Voter Turnout	Voter total U.S. House election	Office of the Clerk, U.S. House	50	.357137	.0611709	.2258601	.4761996
Criteria Pollutant Index	ΣPct of population living in non-compliance (6 pollutants)	Matisoff (2008)	50	.0641208	.0905446	0	.4140529
Energy ProdPC	000 Btu / capita (coal + gas + oil)	EIA	50	704.2283	3157.463	0	22190.48
Electricity Price	Cents / kwh (total)	EIA	50	11.539	4.41611	6.99	32.5
ConsumptionPC	mmBTU / capita	EIA	49	.3792684	.1661513	.2053847	1.014019
CO2 Intensity	Metric tons (millions) of carbon dioxide / Gross state product (billion \$)	EIA	50	.6090798	.442219	.1837141	2.138309
Liberalism	Index of Citizen Liberalism	(Berry et al, 1998)	50	61.33578	17.55346	25.23727	91.84828
SierraPC	Sierra club membership per capita	Sierra Club	50	.0021274	.0011687	.000434	.0054827
State Government RevenuesPC	\$1,000/population	Census bureau	50	4.424165	1.88829	1.513686	13.08177
GSPPC	Gross domestic product by state	Bureau of Economic Analysis	50	.0460478	.0092474	.0325307	.0730176
Pop Density	Population / Area	U.S. Census	50	74.02424	99.16165	.4645265	450.9603
Area SQKM	Land area (state)	U.S. Census	50	183235.3	222705.3	2706	1481347
Restructuring	Active Electricity Restructuring (1 = yes)	EIA	50	.18	.3880879	0	1

Appendix B. Highly Competitive Energy Policies: Logistic Regression Results.

VARIABLES	RPS NN	RPS Walker	Corp Eff NN	Corp Eff Walker	Corp Renew NN	Corp Renew Walker
Diffusion Variable	-0.482 (1.391)	9.239*** (2.269)	-1.984 (1.530)	13.42*** (4.191)	-10.70*** (4.121)	14.83* (8.173)
Solar Density	1.087 (4.491)	-3.127 (5.521)	0.949 (1.797)	-1.826 (2.157)	-1.904 (4.952)	-4.577 (3.909)
Wind Potential	0.202 (0.289)	0.309 (0.505)	0.394 (0.388)	0.290 (0.314)	1.096** (0.473)	0.795 (0.642)
Solar * GSPPC	-24.69 (110.7)	104.9 (123.9)	-6.001 (82.55)	76.29 (79.54)	17.90 (141.4)	114.0 (125.5)
WindPot * GSPPC	-0.0202 (6.623)	0.790 (10.54)	-5.406 (5.516)	-3.274 (4.732)	-16.31 (13.51)	-18.41 (23.08)
BiomassPC	-577.5** (251.5)	-884.6** (430.8)	-273.5 (317.9)	-227.0 (245.4)	-908.9** (367.1)	-464.7 (320.3)
HouseVote	17.30*** (4.648)	18.22** (7.323)	-14.28 (17.32)	-8.973 (16.34)	-30.61 (25.22)	-15.11 (21.43)
CritIndex	4.766* (2.516)	2.114 (3.918)	-2.712 (3.577)	-0.864 (4.588)	1.358 (5.291)	-3.327 (5.459)
EnergyProdPC	-0.000978 (0.00200)	-0.000313 (0.000438)	-0.000201 (0.000208)	-0.000333 (0.000236)	0.000441 (0.000375)	0.000450 (0.000596)
ElectricPrice	0.249 (0.212)	-0.418** (0.174)	-0.0797 (0.302)	0.00603 (0.308)	-0.259 (0.601)	-0.372 (0.639)
ConsumptionPC	-1.802 (5.958)	-16.33 (10.53)	0.553 (3.344)	-2.116 (2.971)	-4.379 (13.94)	-4.670 (16.05)
CO2Intensity	1.339 (3.009)	1.353 (3.556)	0.187 (0.707)	0.810 (0.948)	-2.487 (2.553)	-2.233 (2.184)
Liberalism	0.113*** (0.0404)	0.134*** (0.0449)	0.0755** (0.0360)	0.0419 (0.0332)	0.127 (0.111)	0.0926 (0.0601)
SierraPC	-126.6 (261.6)	-237.1 (341.2)	-67.30 (430.9)	-294.9 (394.2)	191.1** (83.33)	-621.7 (915.0)
RevPC	0.0636 (0.280)	0.136 (0.335)	0.420** (0.200)	0.458* (0.236)	0.0219 (0.291)	-0.254 (0.367)
GSPPC	261.3 (481.0)	-152.3 (518.5)	-92.98 (339.6)	-402.7 (333.9)	-287.3 (678.9)	-540.0 (522.4)
PopDens	0.00722 (0.00552)	0.00906 (0.00799)	0.000776 (0.00468)	0.00226 (0.00438)	-0.00376 (0.0106)	-0.00435 (0.0112)
LandSqKM	1.33e-05*** (3.28e-06)	2.02e- (7.49e-06)	1.00e-06 (6.81e-06)	-2.32e-06 (9.14e-06)	-5.40e-06 (6.14e-06)	4.00e-06 (7.92e-06)
Restruct	0.379 (0.813)	0.615 (1.327)	0.617 (0.619)	0.539 (0.651)	0.188 (1.708)	-0.769 (0.847)
Time	0.342** (0.170)	-0.0825 (0.242)	0.489* (0.277)	-0.0208 (0.172)	0.847*** (0.325)	0.300 (0.287)
Constant	-35.61 (24.61)	-12.07 (27.68)	-9.612 (6.704)	2.651 (11.16)	9.873 (28.66)	20.29 (20.27)
Observations	708	663	647	598	755	704
pR ²	0.502	0.605	0.243	0.353	0.332	0.303
Wald X ²	104.46	92.39	48.81	46.07	162.64	675.78

p-value: * < .1; ** < .05; *** < .01; Robust standard errors are in parentheses, clustered by state

Appendix C. Less Competitive Energy Policies: Logistic Regression Results

VARIABLES	Pubben NN	Pubben Walker	Bldg Stds NN	Bldg Stds Walker	Netmeter NN	Netmeter Walker
Diffusion Variable	3.315** (1.408)	9.024*** (2.489)	-0.586 (1.136)	3.967** (1.796)	-2.359 (1.581)	9.767*** (2.471)
Solar Density	-2.344 (3.658)	-1.531 (8.130)	5.803** (2.419)	2.769 (2.610)	-5.990* (3.479)	-9.747** (4.076)
Wind Potential	1.080** (0.533)	2.248** (1.048)	-0.350 (0.414)	0.0180 (0.284)	0.730*** (0.234)	0.999*** (0.311)
Solar * GSPPC	1.007 (86.54)	14.10 (178.4)	-163.3** (75.03)	-79.73 (89.31)	140.0 (94.23)	255.7** (113.7)
WindPot * GSPPC	-42.33* (21.76)	-81.85* (43.94)	4.870 (10.00)	-3.178 (7.173)	-22.22*** (5.953)	-25.22*** (9.594)
BiomassPC	-211.8 (514.8)	-549.8 (892.0)	-85.34 (184.2)	3.594 (200.9)	-329.4 (227.9)	-675.6* (373.4)
HouseVote	5.847 (6.986)	-5.840 (23.32)	9.329 (9.537)	3.020 (13.71)	-4.792 (5.746)	-13.11 (8.405)
CritIndex	6.929*** (2.480)	10.74** (4.184)	0.500 (2.661)	0.179 (2.923)	0.427 (1.373)	-4.164* (2.184)
EnergyProdPC	-0.000123 (0.000599)	0.000298 (0.00129)	-0.00118 (0.00113)	-0.000251 (0.000320)	0.000218* (0.000128)	0.000148 (0.000248)
ElectricPrice	0.513*** (0.147)	-0.0372 (0.194)	0.161 (0.190)	-0.00262 (0.250)	0.0657 (0.121)	-0.114 (0.134)
ConsumptionPC	8.554 (5.894)	8.364 (7.584)	2.457 (2.034)	1.825 (2.791)	3.927* (2.325)	3.510 (2.885)
CO2Intensity	-4.024 (2.915)	-8.724 (5.350)	0.956 (1.218)	-0.864 (1.566)	-1.257* (0.644)	-2.369* (1.276)
Liberalism	0.0615 (0.0497)	0.109** (0.0479)	-0.00648 (0.0286)	-0.0162 (0.0288)	0.0381 (0.0270)	0.00300 (0.0268)
SierraPC	-213.1 (415.8)	-863.1 (679.3)	-53.87 (175.4)	-150.1 (369.3)	161.7*** (35.29)	203.5*** (51.55)
RevPC	1.636** (0.650)	2.600** (1.275)	-0.0388 (0.208)	0.168 (0.274)	-0.0180 (0.180)	-0.0583 (0.227)
GSPPC	-256.9 (420.1)	-327.5 (935.0)	768.7** (318.3)	407.7 (381.7)	-464.8 (390.5)	-945.1** (449.9)
PopDens	0.00508 (0.00530)	0.000708 (0.00991)	0.00316 (0.00597)	0.00379 (0.00525)	-0.0107** (0.00492)	-0.0146*** (0.00490)
LandSqKM	1.35e-05 (9.30e-06)	1.79e-05 (1.60e-05)	1.12e- (3.33e-06)	8.64e- (3.29e-06)	-3.17e-06 (2.61e-06)	-7.52e-06 (4.85e-06)
Restruct	-0.513 (0.940)	-0.284 (1.151)	-0.895 (0.814)	-0.909 (0.741)	0.124 (0.596)	0.0103 (0.574)
Time	0.248 (0.297)	0.109 (0.590)	0.383** (0.153)	0.114 (0.176)	0.304*** (0.105)	-0.298* (0.162)
Constant	-9.216 (15.68)	-7.249 (39.20)	-41.65*** (11.27)	-22.05* (12.44)	16.10 (14.43)	41.65** (17.80)
Observations	643	592	662	624	523	475
pR ²	0.465	0.619	0.338	0.380	0.284	0.378
Wald X ²	132.63	52.50	93.62	151.30	125.57	80.83

p-value: * < .1; ** < .05; *** < .01; Robust standard errors in parentheses, clustered by state

Appendix D. Less-Competitive Policies, Personal Tax Incentives: Logistic Regression

VARIABLES	Pers Renew NN	Pers Renew Walker	Pers Tax Eff NN	Pers Tax Eff Walker
Diffusion Variable	-0.808	14.32***	-3.001	24.85*
	(1.998)	(5.506)	(2.507)	(13.06)
Solar Density	4.998	-4.502	4.523	-0.697
	(4.319)	(3.499)	(3.705)	(6.346)
Wind Potential	0.266	0.238	0.613*	0.386
	(0.286)	(0.303)	(0.315)	(0.453)
Solar * GSPPC	-102.2	135.2*	-128.7	-8.003
	(104.0)	(78.26)	(129.4)	(261.5)
WindPot * GSPPC	-7.963	-9.737	-9.138	2.525
	(7.083)	(6.951)	(6.809)	(11.72)
BiomassPC	181.1	303.9	-580.0*	-676.5**
	(212.0)	(216.4)	(338.5)	(291.2)
HouseVote	-4.339	-7.710	-3.280	-17.79
	(13.07)	(18.89)	(27.36)	(18.90)
CritIndex	3.705	1.209	4.750	-0.659
	(3.115)	(2.583)	(5.118)	(3.434)
EnergyProdPC	8.61e-05	7.26e-05	0.000410	0.000188
	(0.000366)	(0.000252)	(0.000363)	(0.000588)
ElectricPrice	-0.104	-0.199	-0.622	-0.569
	(0.264)	(0.241)	(1.096)	(0.876)
ConsumptionPC	3.280	-0.0170	-7.952	-6.187
	(4.490)	(4.904)	(17.43)	(24.35)
CO2Intensity	-2.118*	-1.985*	-1.926	-3.249**
	(1.096)	(1.132)	(2.979)	(1.638)
Liberalism	0.0584*	0.0297	0.0648	0.111**
	(0.0309)	(0.0317)	(0.0721)	(0.0549)
SierraPC	3.948	-195.7	39.49	-683.5
	(68.50)	(271.4)	(90.70)	(911.0)
RevPC	0.343	0.604	-0.288	0.251
	(0.275)	(0.446)	(0.395)	(0.707)
GSPPC	330.5	-618.4*	296.8	-227.6
	(442.2)	(350.9)	(678.6)	(987.5)
PopDens	0.000475	0.00312	0.00235	-0.00714
	(0.00458)	(0.00598)	(0.0172)	(0.0122)
LandSqKM	-1.08e-07	4.54e-06	3.10e-06	4.53e-06
	(4.46e-06)	(5.47e-06)	(5.07e-06)	(1.57e-05)
Restruct	0.459	0.740	-1.037	-1.976**
	(0.691)	(0.777)	(1.323)	(0.880)
Time	0.355**	-0.0106	0.956*	0.129
	(0.171)	(0.272)	(0.498)	(0.309)
Constant	-28.90	13.04	-19.34	10.59
	(20.74)	(17.69)	(19.26)	(18.98)
Observations	690	653	744	700
pR ²	0.209	0.363	0.349	0.566
Wald X ²	83.04	67.27	138.31	336.27

p-value: * < .1; ** < .05; *** < .01; Robust standard errors in parentheses, clustered by state

Appendix E – Selected Policy Summaries

Policy	Policy Description	Example State Legislation (for each policy a selection for a randomly selected state is provided)
Renewable Portfolio Standards	Requires utilities, usually serving a minimum population, to generate or purchase enough renewable energy to supply a percentage of their electric sales	Connecticut Requires each electric supplier and each electric distribution company wholesale supplier to obtain at least 23% of its retail load by using renewable energy by Jan 1, 2020. The RPS also requires each electric supplier and each electric distribution company wholesale supplier to obtain at least 4% of its retail load by using combined heat and power systems and energy efficiency by 2010
Business and corporate tax credits (renewable)	Financial incentives for eligible renewable and other technologies installed and placed into service	Hawaii The Hawaii Energy Tax Credits allow corporations to claim an income tax credit of 20% of the cost of equipment and installation of a wind system and 35% of the cost of equipment and installation of a solar thermal or photovoltaic (PV) system
Business and corporate tax credits (efficiency)	Financial incentives for certain energy-efficient equipment installed and placed into service	Georgia The following credit limits for various technologies: Lighting retrofit projects: \$0.60 / square foot of building Energy-efficient products: \$1.80 / square foot of building

Public benefit funds	Collects public funds, for example using a public goods surcharge on ratepayer electricity, to create public funds for renewable energy and energy efficiency projects	Oregon Requires energy utilities to collect a 3% public-purpose charge from their customers to support renewable energy and energy efficiency projects
Energy standard for public buildings	Promote energy conservation in state-owned buildings	Alabama State departments and agencies are encouraged and promoted to conserve energy in state-owned buildings. The initiative aims to reduce energy consumption by 10% in all conditioned, state-owned facilities by the end of Fiscal Year 2008, and 20% by Fiscal Year 2010 (as compared to 2005 levels). State departments and agencies are encouraged to employ the latest energy-conservation practices in the design, construction, renovation, operation, and maintenance of state facilities
Personal tax credits (renewable)	Incentives for residential consumers to install and implement renewable energy systems	Utah The individual income tax credit for residential systems is 25% of the reasonable installed system costs up to a maximum credit of \$2,000 per residential unit. Eligible residential systems include active and passive solar thermal systems; solar electric systems; wind turbines; hydro energy; geothermal heat pumps direct-use geothermal; and biomass

Personal tax credits (efficiency)	Incentives for residential consumers to purchase and install energy-efficient products	Virginia The incentive is available for dishwashers, clothes washers, air conditioners, ceiling fans, compact fluorescent light bulbs, dehumidifiers, programmable thermostats or refrigerators that meet or exceed federal Energy Star standards. For taxable years beginning in 2007, individuals may claim a deduction of 20%, up to \$500, on their state income tax return for sales tax paid to purchase certain energy-efficient products
Net metering	Incentives consumers to implement on-site renewable energy generation	Minnesota Each utility must compensate customers for customer net excess generation (NEG) at the average retail utility energy rate defined as the total annual class revenue from sales of electricity minus the annual revenue resulting from fixed charges, divided by the annual class kilowatt-hour sales
Energy standards for public buildings	Promotes the reduction of energy use in public buildings	Iowa In April 2005, Iowa governor issued an executive order directing state agencies to reduce electricity and natural gas use in buildings by an average of 15% by 2010, relative to their energy use in 2000

Source: Database of State Incentives for Renewables & Efficiency 2012 (www.dsireusa.org)

Appendix F: Adoption of Energy Policies by state

	RPS	Personal tax (Renew)	Personal Tax (Efficiency)	Public benefit fund	Building standards	Net meter	Corporate tax credit (Efficiency)	Corporate tax credit (Renewable)
Alabama					2006			
Alaska								
Arizona	2006	1994			1998	2008	2006	
Arkansas					2005	2001		
California	2002			1996	2005	1995		
Colorado	2004				2005	2005		
Connecticut	1998			1998	2006	1998		
Delaware	2005			1999	2004	1999		
Florida					2007	2008	2006	
Georgia		2008				2001	2008	2008
Hawaii	2004				2006	2004		
Idaho		2005				2008		
Illinois	2007			1997	2005	2007		
Indiana					2008	2004		
Iowa		2005			2005		2005	
Kansas								
Kentucky					2008	2005		2008
Louisiana		2007			2007	2003	2007	
Maine	2006			1997	2003	1998		
Maryland	2004	2000			1992	1997	2000	2001
Massachusetts	1997			1997	2007	2008		
Michigan	2008			2000	2008	2008		
Minnesota	2001				2001			
Mississippi								
Missouri	2008		2008		1993	2007	1997	
Montana	2005	2001		1999		1999	2001	2004
Nebraska								
Nevada	2005					1997		
New Hampshire	2007			2002	2005	1998		
New Jersey	1999			1999	2002	1999		
New Mexico	2006	2006		2005	2006	2008	2002	2007
New York	2004	1997		1996	2001	1998	2001	2000
North Carolina	2008				2007	2005		
North Dakota		2001				1991	2001	
Ohio				1999	2007	1999		
Oklahoma					2008		2002	
Oregon	2007	2007		1999	1991	1999		
Pennsylvania	2004			1996	2004	2004		
Rhode Island	2004	2006		1996	2005	2006	2006	
South Carolina		2006					2006	

South Dakota					
Tennessee					
Texas	1999			1995	
Utah		2001		2006	2002 2001
Vermont	2005	2008	1999		1998 2008
Virginia				2007	1999
Washington	2007			2005	1998
West Virginia					2006 2001
Wisconsin	1998		1999	2006	1992
Wyoming					2001

Appendix G: Highly Competitive Policies Results (Census and Census Subregions)

VARIABLES	RPS Census	RPS SubReg	Corp Eff Census	Corp Eff Subreg	Corp Renew Census	Corp Renew Subregion
Diffusion Variable	9.728***	14.32***	13.53***	9.624***	28.27	45.56**
	(2.344)	(3.577)	(4.657)	(2.976)	(22.00)	(22.66)
Solar Density	-5.749	-11.41	0.651	1.323	-0.864	0.555
	(4.472)	(7.163)	(1.501)	(1.820)	(5.396)	(4.741)
Wind Potential	0.197	0.106	0.306	0.187	0.625	0.994**
	(0.312)	(0.254)	(0.370)	(0.337)	(0.402)	(0.470)
Solar * GSPPC	157.4	326.1*	-7.583	-17.89	-1.883	-42.06
	(107.7)	(182.5)	(72.80)	(80.99)	(164.2)	(120.1)
WindPot * GSPPC	-1.554	2.551	-2.229	-3.044	-11.38	-10.78
	(6.483)	(5.620)	(4.808)	(4.672)	(13.50)	(12.30)
BiomassPC	-457.7**	-379.9	-256.9	-150.3	-490.5**	-998.5***
	(192.8)	(276.8)	(325.7)	(262.6)	(204.0)	(338.0)
HouseVote	13.93***	11.36**	-12.02	3.407	-11.29	-7.344
	(5.098)	(4.415)	(16.63)	(23.26)	(18.78)	(11.10)
CritIndex	1.934	-2.318	-1.857	-1.312	-5.136	-13.77
	(3.180)	(5.711)	(3.247)	(2.936)	(5.136)	(9.138)
EnergyProdPC	-0.000501*	-0.000891	-0.000197	-0.000217	0.000320	0.000596
	(0.000269)	(0.000620)	(0.000205)	(0.000267)	(0.000429)	(0.000516)
ElectricPrice	-0.233	-0.328**	-0.0692	-0.0186	-0.388	-0.565
	(0.166)	(0.167)	(0.289)	(0.378)	(0.476)	(0.496)
ConsumptionPC	-9.096	-9.684	-0.363	-2.301	-5.572	-11.09
	(6.124)	(7.385)	(4.071)	(3.426)	(16.27)	(14.05)
CO2Intensity	1.772	1.806	-0.0269	1.333	-1.818	-4.654**
	(1.848)	(1.486)	(0.742)	(1.393)	(1.809)	(2.222)
Liberalism	0.144***	0.136***	0.0732*	0.0385	0.0631	0.0959
	(0.0411)	(0.0365)	(0.0396)	(0.0384)	(0.0530)	(0.0608)
SierraPC	-331.6	-313.3	-187.3	-214.8	-659.7	-926.0**
	(243.8)	(306.7)	(325.5)	(444.2)	(650.5)	(466.8)
RevPC	-0.267	-0.0490	0.580***	0.535**	-0.0349	0.478
	(0.302)	(0.313)	(0.223)	(0.241)	(0.366)	(0.556)
GSPPC	-353.5	-1,006	-105.3	-80.64	-107.7	-200.4
	(441.7)	(685.5)	(298.4)	(353.3)	(676.8)	(452.0)
PopDens	0.00834	0.00848*	0.00189	0.00615	-0.00418	-0.00423
	(0.00608)	(0.00474)	(0.00463)	(0.00725)	(0.00896)	(0.00501)
LandSqKM	1.98e-05***	1.95e-	1.42e-06	5.73e-06	3.76e-06	1.15e-05
	(5.82e-06)	(7.08e-06)	(6.64e-06)	(7.79e-06)	(5.79e-06)	(9.00e-06)
Restruct	-0.0756	-0.579	0.609	0.677	-0.300	-0.845
	(1.146)	(1.195)	(0.604)	(0.592)	(1.083)	(0.730)
Time	-0.133	-0.443	0.0191	0.182	0.204	0.312*
	(0.152)	(0.275)	(0.129)	(0.154)	(0.298)	(0.171)
Constant	-2.118	23.67	-7.451	-15.35	5.985	3.573
	(21.31)	(29.39)	(6.721)	(12.35)	(25.86)	(16.92)
Observations	708	708	647	647	755	755
pR ²	0.588	0.648	0.274	0.347	0.330	0.490
Wald X ²	192.09	242.85	37.47	36.19	356.32	161.60

p-value: * < .1; ** < .05; *** < .01; Robust standard errors in parentheses, clustered by state

Appendix H: Low Competition Policies – Logistic Regression Results

VARIABLES	Pubben Census	Pubben Subregion	Bldg Stds Census	Bldg Stds Subregion	Netmeter Census	Netmeter Subregion
Diffusion Variable	7.564***	8.194***	4.176*	7.967***	10.70***	9.353***
	(2.180)	(2.358)	(2.235)	(1.871)	(3.469)	(2.927)
Solar Density	-0.346	1.923	3.654	3.832	-7.800*	-8.219*
	(4.716)	(3.536)	(2.518)	(2.787)	(4.125)	(4.420)
Wind Potential	1.084*	1.016	-0.439	-0.544	0.833**	0.662
	(0.594)	(0.771)	(0.434)	(0.420)	(0.395)	(0.453)
Solar * GSPPC	-44.96	-53.95	-107.8	-98.17	182.1*	207.3*
	(96.96)	(83.70)	(73.01)	(63.44)	(108.2)	(118.5)
WindPot * GSPPC	-47.28*	-37.64**	6.995	8.106	-26.05**	-21.24*
	(27.27)	(18.18)	(10.79)	(10.01)	(10.34)	(11.83)
BiomassPC	-346.9	-90.82	-87.37	-3.132	-468.8	-434.1
	(838.5)	(743.7)	(219.6)	(143.0)	(301.5)	(299.0)
HouseVote	5.192	9.333	8.005	10.69**	-10.49	-6.318
	(6.628)	(6.448)	(7.309)	(4.812)	(6.993)	(6.797)
CritIndex	6.482***	7.594**	0.495	-2.567	-3.500	-2.640
	(2.313)	(3.834)	(2.686)	(2.889)	(2.292)	(2.163)
EnergyProdPC	-0.000142	-0.000174	-0.00109	-0.000692	0.000194	0.000257
	(0.00101)	(0.000934)	(0.00130)	(0.00135)	(0.000152)	(0.000166)
ElectricPrice	0.148	0.259	-0.0320	-0.144	-0.124	-0.103
	(0.289)	(0.167)	(0.242)	(0.312)	(0.163)	(0.139)
ConsumptionPC	4.360	3.888	2.276	-1.406	5.894**	2.233
	(4.997)	(12.20)	(2.029)	(2.511)	(3.003)	(2.491)
CO2Intensity	-3.165	-4.007	0.743	1.011	-1.580**	-0.899
	(2.980)	(3.713)	(1.376)	(1.665)	(0.748)	(0.577)
Liberalism	0.103***	0.122***	-0.0126	-0.0109	0.0248	-0.000235
	(0.0370)	(0.0386)	(0.0285)	(0.0385)	(0.0238)	(0.0257)
SierraPC	-857.9	-890.6**	-51.99	-92.74	244.5***	207.0***
	(725.4)	(434.4)	(168.9)	(364.3)	(62.48)	(50.50)
RevPC	1.931*	2.140*	0.0865	0.112	-0.0962	-0.0724
	(1.031)	(1.143)	(0.216)	(0.267)	(0.202)	(0.170)
GSPPC	28.80	87.34	531.3*	538.0**	-586.1	-688.6
	(506.6)	(401.3)	(306.4)	(272.7)	(442.0)	(475.8)
PopDens	-0.000317	-0.00228	0.00465	0.00514	-0.0158**	-0.0115**
	(0.00977)	(0.00982)	(0.00578)	(0.00548)	(0.00664)	(0.00557)
LandSqKM	1.70e-05	1.36e-05	1.12e-	1.18e-	-4.15e-06	-4.85e-06
	(1.59e-05)	(1.22e-05)	(3.08e-06)	(4.06e-06)	(3.52e-06)	(3.21e-06)
Restruct	-0.211	-0.177	-0.876	-0.466	0.194	0.234
	(0.943)	(1.119)	(0.784)	(0.844)	(0.645)	(0.676)
Time	0.0263	-0.100	0.125	-0.103	-0.315*	-0.306
	(0.440)	(0.516)	(0.166)	(0.155)	(0.168)	(0.204)
Constant	-16.73	-30.13	-28.55**	-28.28**	28.12*	30.30*
	(19.22)	(19.69)	(12.12)	(13.56)	(16.22)	(17.38)
Observations	643	643	662	662	523	523
pR ²	0.562	0.624	0.355	0.462	0.339	0.394
Wald X ²	182.24	138.78	111.67	183.47	79.60	74.78

p-value: * < .1; ** < .05; *** < .01; Robust standard errors in parentheses, clustered by state

Appendix I: Low Competition Policies – Logistic Regression Results

VARIABLES	Pers Renew Census	Pers Renew Subregion	Pers Tax Eff Census	Pers Tax Eff Subregion
Diffusion Variable	24.75**	24.43***	19.05***	27.29***
	(10.07)	(6.416)	(7.039)	(6.843)
Solar Density	5.526	8.534	4.863	8.145
	(5.783)	(9.222)	(4.062)	(5.540)
Wind Potential	0.181	0.544	0.231	0.475
	(0.370)	(0.451)	(0.279)	(0.512)
Solar * GSPPC	-109.8	-233.8	-120.9*	-240.9***
	(115.3)	(187.0)	(71.78)	(92.70)
WindPot * GSPPC	-2.125	-11.52*	-0.694	-7.634
	(5.322)	(6.912)	(6.215)	(8.690)
BiomassPC	206.0	121.3	-570.0	-765.1
	(286.7)	(359.2)	(395.2)	(818.6)
HouseVote	-3.014	-15.44	10.42	6.627
	(14.68)	(22.93)	(17.97)	(27.10)
CritIndex	3.018	1.184	1.346	-4.914
	(3.454)	(4.620)	(5.890)	(6.130)
EnergyProdPC	-0.000825	-0.00319	0.000362	-0.00152
	(0.00251)	(0.00285)	(0.000488)	(0.00667)
ElectricPrice	-0.178	-0.208	-0.760	-1.119
	(0.267)	(0.341)	(0.905)	(1.239)
ConsumptionPC	5.417	11.99	-3.577	-4.416
	(5.606)	(7.613)	(17.10)	(21.11)
CO2Intensity	-1.964	-1.539	-3.903	-3.931
	(1.672)	(2.810)	(2.707)	(5.823)
Liberalism	0.0550	0.0722	0.0985	0.173**
	(0.0349)	(0.0455)	(0.0682)	(0.0772)
SierraPC	-437.9	-1.041	-971.7*	-1,023
	(452.3)	(68.42)	(554.0)	(1,416)
RevPC	0.715*	0.789*	-0.249	-0.333
	(0.434)	(0.402)	(0.361)	(0.278)
GSPPC	319.0	792.8	157.2	683.5
	(453.7)	(773.6)	(301.3)	(463.6)
PopDens	0.00197	0.00368	-0.000255	-0.00198
	(0.00540)	(0.00597)	(0.0101)	(0.0181)
LandSqKM	-2.18e-06	6.21e-06	4.90e-06	7.37e-06
	(6.72e-06)	(7.08e-06)	(7.56e-06)	(1.02e-05)
Restruct	0.474	0.666	-2.402**	-3.479***
	(0.771)	(0.705)	(1.024)	(1.146)
Time	-0.164	0.0459	0.575	0.426
	(0.230)	(0.175)	(0.514)	(0.780)
Constant	-30.65	-46.09	-17.76	-30.10
	(27.99)	(44.40)	(21.44)	(30.20)
Observations	690	690	744	744
pR ²	0.331	0.442	0.408	0.503
Wald X ²	86.14	67.66	142.98	392.32

p-value: * < .1; ** < .05; *** < .01; Robust standard errors in parentheses, clustered by state

Appendix K: Correlations Between Internal Determinant Variables (Year=2008)

	Solar Density	Wind potential	Biomass per capita	House Vote	Crit Index	Energy Prod per capita	Electric Price	Consumption per capita	CO2 Intensity	Liberalism	Sierra per capita	Revenue per capita	GSP per capita	Population Density	Land	Restructure
Solar Density	1															
Wind Potential	-0.02	1														
Biomass per capita	-0.12	0.78	1													
House Vote	-0.57	0.35	0.31	1												
Crit Index	-0.02	-0.23	-0.30	-0.14	1											
Energy Prod. Per capita	-0.00	0.29	-0.01	0.14	-0.11	1										
Electric Price	-0.06	-0.31	-0.31	-0.10	0.31	-0.12	1									
Consumption per capita	-0.24	0.52	0.34	0.07	-0.29	0.66	-0.26	1								
CO2 Intensity	-0.04	0.45	0.37	0.03	-0.32	0.60	-0.40	0.74	1							
Liberalism	-0.45	-0.09	-0.01	0.35	0.20	-0.29	0.49	-0.36	-0.29	1						
Sierra per capita	-0.12	-0.14	-0.27	0.35	0.19	-0.03	0.37	-0.35	-0.41	0.53	1					
Revenue per capita	-0.44	0.24	0.09	0.14	-0.05	0.46	0.25	0.63	0.44	0.11	-0.00	1				
GSP per capita	-0.26	0.21	-0.07	0.07	0.28	0.44	0.38	0.34	-0.05	0.18	0.26	0.48	1			
Pop. Density	-0.19	-0.30	-0.30	-0.10	0.42	-0.15	0.48	-0.38	-0.38	0.45	0.09	0.02	0.31	1		
Land	-0.18	0.35	0.00	-0.00	0.02	0.17	-0.04	0.52	0.17	-0.24	0.04	0.44	0.32	-0.34	1	
Restructure	-0.06	0.25	0.24	0.03	0.29	-0.05	-0.05	-0.02	-0.05	0.21	0.20	-0.10	0.14	0.06	0.00	1