Supplementary Information

Table A1. Descriptive Summary Statistics, All Models

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable  | Description | Mean | Std. Dev. | Min | Max |
| **Dependent Variables** |  |  |  |  |  |
| **~Dyadic Models** |  |  |  |  |  |
| RPS Adoption | Statei adopts an RPS in a given year when Statej already has one | 0.0678 | 0.251 | 0 | 1 |
| RPS Reinvention | Raw difference in stringency scores between Statei and Statej | -20.67 | 39.20 | -105.1 | 105.1 |
| RPS Amendment | Statei revises its RPS policy upward to greater stringency | 0.08 | 0.27 | 0 | 1 |
| **~Panel Data EHA Models** |  |  |  |  |  |
| RPS Adoption | Stateadopts an RPS in a given year | 0.221 | 0.415 | 0 | 1 |
| RPS Reinvention | Stringency score of State’s RPS | 9.25 | 23.13 | 0 | 105.1 |
| RPS Amendment | Statei revises its RPS policy upward to greater stringency | 0.017 | 0.129 | 0 | 1 |
| **External Influence Variables**  |  |  |  |  |
| **~Dyadic Models** |  |  |  |  |  |
| Geographic neighbors  | Statei and Statej share a border | 0.227 | 0.419 | 0 | 1 |
| Ideological distance | Raw ideological distance between governments of Statei and Statej | -8.15 | 32.35 | -84.65 | 82.00 |
| Geographic neighbors (RPS) | Statei and Statej share a border, when Statej has an RPS | 0.052 | 0.222 | 0 | 1 |
| Ideological distance (RPS) | Raw ideological distance between governments of Statei and Statej, when Statej has an RPS | -1.43 | 13.85 | -84.65 | 80.21 |
| **~Panel Data EHA Models** |  |  |  |  |  |
| Geographic peers | Percentage of neighboring states with RPS policies | 0.180 | 0.280 | 0 | 1 |
| Ideological distance | Weighted ideological distance between state and previous RPS adopters | -3.49 | 22.08 | -61.54 | 43.52 |
| **Internal Variables** |  |  |  |  |  |
| **~Dyadic Models** |  |  |  |  |  |
| Deregulation  | Statei operates in a deregulated or restructured electricity market | 0.442 | 0.497 | 0 | 1 |
| Electricity Price | Electricity price in Statei (cents/kWh) | 6.94 | 2.41 | 3.17 | 27.47 |
| GSP per capita | Gross Statei Product per capita, in $millions/person | 0.037 | 0.0081 | 0.021 | 0.072 |
| Population growth rate | Annual rate of increase in population of Statei | 0.011 | 0.011 | -0.062 | 0.10 |
| Renewable energy potential | Renewable energy potential (wind & solar) in Statei, million GWh/yr  | 295.3 | 267.6 | 5.7 | 1512.7 |
| CO2 per capita | Emissions per Statei resident per year, in MT | 28.85 | 22.38 | 10.27 | 132.07 |
| Government ideology  | Government liberalism in Statei (0-100 scale) | 52.93 | 21.55 | 4.05 | 90.99 |
| Previous net metering | Statei has a NM policy (0=no) | 0.448 | 0.497 | 0 | 1 |
| **~Panel Data EHA Models** |  |  |  |  |  |
| Deregulation  | State operates in a deregulated or restructured electricity market | 0.171 | 0.376 | 0 | 1 |
| Electricity Price | Electricity price in State(cents/kWh) | 6.94 | 2.41 | 3.17 | 27.47 |
| GSP per capita | Gross State Product per capita, in $millions/person | 0.033 | 0.0096 | 0.015 | 0.072 |
| Population growth rate | Annual rate of increase in population of State | 0.011 | 0.011 | -0.062 | 0.10 |
| Renewable energy potential | Renewable energy potential (wind & solar) in State, million GWh/yr  | 292.7 | 279.0 | 5.7 | 1512.7 |
| CO2 per capita | Emissions per State resident per year, in MT | 25.73 | 19.59 | 8.86 | 133.33 |
| Government ideology  | Government liberalism in State (0-100 scale) | 49.96 | 21.89 | 4.05 | 90.99 |
| Previous net metering | State has a NM policy (0=no) | 0.354 | 0.478 | 0 | 1 |
| Years with RPS | Number of years since State adopted an RPS | 1.1 | 3.1 | 0 | 26 |
| **Other Factors** |  |  |  |  |  |
| Percent Adopters | Percentage of states that have previously adopted an RPS | 37.49 | 20.13 | 4 | 70 |
| RPS stringency | RPS stringency in Statej  | 7.65 | 20.85 | 0 | 105.1 |
| Years since first adoption | Years since first state adopted modern RPS policy | 7.99 | 3.48 | 1 | 13 |

Note: all independent variables are lagged by one year, except for ‘Years since first adoption’