Codebook for

Policy Feedback, Energy Equity, and Climate Justice: Can Existing Policies Improve Solar Access for Low- and Moderate-Income Communities in the U.S.?

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Variable	Name of the Variable in the Dataset	Unit/ Scale of Measurement	Description/ Notes
Average annual electricity bill	Bill	USD per annum	The average price paid by households for residential electricity in the state for each year
Code for state names	Code	Names	-
Efficiency policy	Efficiency	0-6 scale	Scope and stringency of efficiency policies in each state for each year
Electricity sector portfolio standards	ElectricitySector	0-6	Scope and stringency of portfolio standards in each state for each year
Price of electricity	Electricity	Cents per kWh	The average price of residential electricity in each state for each year
Event occurrence- LMI incentive adoption	Event	0-1	Status of LMI incentive adoption
Federal spending on renewable energy	Spending	Million USD	Federal support received for renewable energy sources in each state for each year
Governor's party	Governor	1-3 scale	Code to convert partyid to numeric scale in the codefile
Legislative control of state legislature	LegislativeControl	1-3 scale	Code to convert partyid to numeric scale in the codefile
Natural Disasters	NaturalDisasters	Number of incidents	Number of federally declared billion-dollar natural disasters in the state in each year
Neighboring states efficiency policy	NeighboringStatesEfficiency	0-1 scale	Share of neighboring states with efficiency policies for each state in each year
Neighboring states electricity portfolio standards	NeighboringStatesElectricitySector	0-1 scale	Share of neighboring states with portfolio standards for each state in each year

Partisan Voting Index	PVI	Cook Partisan Voting Index	Measurement of partisan leaning of each state based on voting in the presidential election
Renewable energy interest groups	InterestGroups	Number	Number of interest groups that work on issues related to renewable energy in each state for each year
Share of population living below FPL	Poverty	Percentage	The share of the population living under the federal poverty level in each state for each year
Share of solar in electricity	Solar	Percentage	Calculated by dividing Solar (column L) by Total Energy (column M)
Solar potential	Sunshine	Days per year	The number of sunny days in a year in the state
State Name	State	Names	-
Time to LMI incentive adoption	TimetoLMI	Year(s)	The number of years taken by the state to adopt a statewide LMI solar incentive within the range of the dataset
Annual energy production in a state	TotalEnergy	Million British thermal units (MMBtu)	Energy produced in each state for each year
Year	Year	Between 2010 and 2019	-