Does this paper make theoretical contributions? No

Does this paper rely on one or more datasets? Yes

If yes, please complete the list below.

* A motivation is given for why the experiments are conducted on the selected datasets Yes, in the paper.
* All novel datasets introduced in this paper are included in a data appendix. (data is available on Zenodo: https://zenodo.org/records/13857131)
* All novel datasets introduced in this paper will be made publicly available upon publication of the paper with a license that allows free usage for research purposes. (There are no new datasets. For final input datasets: transformations of the datasets are explained in the paper and can be verified in the excel files. Further transformations are conducted in the R code (for example, per capita variables)
* All datasets drawn from the existing literature (potentially including authors’ own previously published work) are accompanied by appropriate citations. Yes
* All datasets drawn from the existing literature (potentially including authors’ own previously published work) are publicly available. Yes
* All datasets that are not publicly available are described in detail, with explanation why publicly available alternatives are not scientifically satisficing. NA

Does this paper include computational experiments? (yes)

If yes, please complete the list below.

* Any code required for pre-processing data is included in the appendix. Partial. Pre-processing data is split between excel files and R code. Excel files depend on pivot tables and power query. For the R code consult “[Final Code.R](https://github.com/SACruz92/EnergyTransition/blob/main/Final%20Code.R)”
* All source code required for conducting and analyzing the experiments is included in a code appendix. It is provided in the respective Github: https://github.com/SACruz92/EnergyTransition
* All source code required for conducting and analyzing the experiments will be made publicly available upon publication of the paper with a license that allows free usage for research purposes. Yes
* All source code implementing new methods have comments detailing the implementation, with references to the paper where each step comes from NA
* If an algorithm depends on randomness, then the method used for setting seeds is described in a way sufficient to allow replication of results. NA
* This paper specifies the computing infrastructure used for running experiments (hardware and software), including GPU/CPU models; amount of memory; operating system; names and versions of relevant software libraries and frameworks. Yes, it states the packages and software used
* This paper formally describes evaluation metrics used and explains the motivation for choosing these metrics. yes
* This paper states the number of algorithm runs used to compute each reported result. yes
* Analysis of experiments goes beyond single-dimensional summaries of performance (e.g., average; median) to include measures of variation, confidence, or other distributional information. yes
* The significance of any improvement or decrease in performance is judged using appropriate statistical tests (e.g., Wilcoxon signed-rank). yes
* This paper lists all final (hyper-)parameters used for each model/algorithm in the paper’s experiments. yes
* This paper states the number and range of values tried per (hyper-) parameter during development of the paper, along with the criterion used for selecting the final parameter setting. yes