



Reproducible Research Repository

The Role of Market Frictions in Demand for Prepaid Electricity

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This review verifies the reproducibility of the exhibits included in the paper “*The Role of Market Frictions in Demand for Prepaid Electricity*”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

Main findings

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Running `renv::init()` to initialize the R programming environment
 2. Changing the file paths and running the code.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 10 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package.
- **Reproducibility Summary:**
 - **Data:** Some data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.
 - **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
 - **Outputs:** All outputs are generated by code included in the reproducibility package.
 - **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The reviewers verified that publicly available data matches the data provided by the authors.
 - **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

*List of exhibits and reproducibility status***Results in the Main Section of the Paper**

- **Figure 1** Reproduced
- **Figure 2** Reproduced
- **Figure 3** Reproduced
- **Figure 4** Reproduced
- **Figure 5a** Reproduced
- **Figure 5b** Reproduced
- **Figure 5c** Reproduced

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining ones to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we operated under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well. The seed used to generate the random selection was 580403, the Stata version used was 18, and the exhibits selected were: Figures A1, A3, A5, A6, A9, A10, A12, A15 and Table A1, A2.

- **Figure A1** Reproduced
- **Figure A3** Reproduced
- **Figure A5** Reproduced
- **Figure A6** Reproduced
- **Figure A9** Reproduced
- **Figure A10** Reproduced
- **Figure A12** Reproduced
- **Figure A15** Reproduced
- **Table A1** Reproduced
- **Table A2** Reproduced

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
- Memory available: 15.7 GB
- Software version: R 4.4.0