



## *Decentralized Markets for Electricity in Low-Income Countries*

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This review verifies the reproducibility of the exhibits included in the paper “*Decentralized Markets for Electricity in Low-Income Countries*”.

### **Contents in this review:**

1. Main findings
2. List of exhibits and reproducibility status
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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Changing the file paths in the R script
  2. Running `renv::init()` to initialize the R programming environment
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes less than 1 hour to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package.
- Every exhibit has been reproduced accurately.
- **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 did not verify if publicly available data matches the data provided by the authors.
  - **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

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

- **Figure 1** Reproduced.
- **Table 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Table 2** Reproduced.

**Results in the Annex**

- **Figure A1** Reproduced.
- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A3** Reproduced.
- **Figure A2** Reproduced.
- **Figure A3** Reproduced.
- **Table A4** Reproduced.

*Reproduction Environment*

- Paper exhibits were reproduced in 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: Stata 18.0 MP