



Using Price Incentives to Bound Welfare from Pay as You Go Solar Electricity

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This review verifies the reproducibility of the exhibits included in the paper “*Using Price Incentives to Bound Welfare from Pay as You Go Solar Electricity*”.

Contents in this review:

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

- **Every exhibit of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the working directory.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 90 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the package.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, accessible (public but not included in the reproducibility package), and restricted data (available only from the authors).
 - Open data is included in the public reproducibility package.
 - Reviewers used forthcoming/accessible/restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **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.
- **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** Does not apply.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.

Results in the Annex

- **Figure A1** Does not apply.
- **Figure A2** Reproduced.
- **Figure A3** Does not apply.
- **Figure A4** Reproduced.
- **Figure A5** Reproduced.
- **Figure A6** Reproduced.
- **Figure A7** Reproduced.
- **Figure A8** Reproduced.
- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A3** Reproduced.
- **Table A4** Reproduced.
- **Table A5** Reproduced.
- **Table A6** Does not apply.
- **Table A7** Reproduced.
- **Table A8** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y+ 2.80 GHz (4 processors)
- Memory available: 32.0 GB
- Software version: R version 4.5.2