



Reproducibility Report: Project-Level Learning Lowers Conflict Cost Premium Of Energy Access

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This review verifies the reproducibility of the exhibits included in the paper “*Project-Level Learning Lowers Conflict Cost Premium Of Energy Access*”.

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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. Recovering the environment using the environment.yml
 2. Running the codes sequentially.
- The output demonstrates consistent stability across multiple runs. Executing the code 2 times consecutively yielded identical results.
- The code takes approximately 5 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: accessible data and restricted data forthcoming on the World Bank Microdata Library.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire restricted data can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Some data is not yet publicly available but is expected to be made available through the World Bank Microdata Library in the future.
- **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 specific versions defined by the authors in the requirements.txt file.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1a** Reproduced.
- **Figure 1b** Reproduced.
- **Figure 2a** Reproduced.
- **Figure 2b** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.

Reproduction Environment

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

- OS: MacOS
- Processor: Apple M4 Pro
- Memory available: 24 GB
- Software version: Python 3.11