



Is Place-Based Green Industrial Policy Effective? Evidence From the Inflation Reduction Act

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Ceren Huryol

reproducibility@worldbank.org

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This review verifies the reproducibility of the exhibits included in the paper “*Is Place-Based Green Industrial Policy Effective? Evidence From the Inflation Reduction Act*”.

Contents in this review:

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Main findings

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. changing the main directory and Stata path in line 317 in Main.R.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 9 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on 17th December.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open and limited-access data (available upon purchase).
 - Open data is included in the public reproducibility package.
 - Reviewers used limited-access 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 limited-access 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

- **Table 1** Reproduced.
- **Figure 1a** Reproduced.
- **Figure 1b** Reproduced.
- **Figure 1c** Reproduced.
- **Figure 1d** Reproduced.
- **Figure 1e** Reproduced.
- **Figure 1f** Reproduced.
- **Figure 2a** Reproduced.
- **Figure 2b** Reproduced.
- **Figure 2c** Reproduced.
- **Figure 2d** Reproduced.
- **Figure 2e** Reproduced.
- **Figure 2f** Reproduced.

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating 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 664270, the Stata version used was 18.5, and the exhibits selected were: 6, 11, 16, 26, 33, 35, 40, 41, 42, 45.

- **Table A2** Reproduced.
- **Figure A6 panel (b)** Reproduced.
- **Figure A7 panel (c)** Reproduced.

- **Figure A9 panel (a)** Reproduced.
- **Table A10** Reproduced.
- **Figure A11 panel (b)** Reproduced.
- **Table A13** Reproduced. Verified against *esa_politics_fig1.tex*.
- **Table A14** Reproduced. Verified against *esa_politics_fig2.tex*.
- **Figure A13 panel (a)** Reproduced. Verified against *esa_president_twfe_did.pdf*.
- **Figure A13 panel (d)** Reproduced. Verified against *esa_regulate_twfe_did_swing_states_year_state_FE.pdf*.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) Ultra 7 165U @ 2.60GHz
- Memory available: 31 GB
- Software version: R 4.5.2 and Stata 19 MP