



Assessing the Impact of Renewable versus Fossil Fuels Energy on Economic Growth: A Meta-Analysis of the Elasticity across Development Stages

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This review verifies the reproducibility of the exhibits included in the paper “*Assessing the Impact of Renewable versus Fossil Fuels Energy on Economic Growth: A Meta-Analysis of the Elasticity across Development Stages*”.

Contents in this review:

1. Main findings
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Main findings

- **Every exhibit of the paper and the appendix has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the working directory in line 16 of the do-file , and running it.
 2. Running "MainPython_Energy_WordCloud.ipynb."
 3. Figures 6, 7 and 8 are constructed in Microsoft Excel using using summary statistics produced by do-file "MainStata_EnergyMeta."
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1 minute to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on May 18, 2026.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: open.
 - Open data is 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.
- **Reproducibility Summary:**

- **Data:** All data sources are publicly available and included in the reproducibility package.
- **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** Reproduced. Produced using Python code documented in IPython Notebook MainPython_Energy_WordCloud
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.
- **Figure 6a** Reproduced.
- **Figure 6b** Reproduced.
- **Figure 7a** Reproduced.
- **Figure 7b** Reproduced.
- **Figure 8** Reproduced.
- **Figure 9** Reproduced.
- **Figure 10** Reproduced.
- **Figure 11** Does not apply The figure does not contain analytical output. The figure is originally from an external source. Please see the README for the full citation.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.

- **Table 8** Reproduced.

Results in the Annex

- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A3** Does not apply The table does not contain analytical output.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 8.15 GB
- Software version: Stata 19.5 MP