



## *The Timing versus Allocation Trade-off in Politically Constrained Climate Policies*

*First Submission: RR\_WLD\_2024\_225*

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This review verifies the reproducibility of the exhibits included in the paper “*The Timing versus Allocation Trade-off in Politically Constrained Climate Policies*”.

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

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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Replicating the programming environment using the file *pol\_econ.yml* provided by the authors
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 4 hours to run.
- We conducted our reproducibility analysis based on the published paper here.
- Every exhibit has been reproduced accurately.
- **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.
  - **Reproducibility verification:** Reviewers had access to the same materials in the public reproducibility package. The reviewers did not verify if publicly available data matches the data in the reproducibility package.
  - **Dependencies environment:** The reviewers reproduced an existing environment for dependencies using dependency files or an environment metadata file provided by the authors.

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

- **Table 1** Does not show analysis results
- **Table 2** Does not show analysis results
- **Figure 1** Reproduced
- **Figure 2** Reproduced
- **Table 3** Does not show analysis results
- **Figure 3** Reproduced
- **Figure 4** Reproduced
- **Figure 5** Reproduced
- **Figure 6** Reproduced
- **Figure 7** Reproduced
- **Table 4** Does not show analysis results
- **Figure 8** Reproduced
- **Table 5** Reproduced.
- **Table 6** 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: Python 3.11, Gitbash 2.47.0