

Final Report on “Model Developments for Development of Improved Emissions Scenarios: Developing Purchasing-Power Parity Models, Analyzing Uncertainty, and Developing Data Sets for Gridded Integrated Assessment Models”

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This collaborative project is sponsored by the Office of Science, the US Department of Energy, under grant numbers (DE-FG02-06ER64180). The duration of the project is from February 15, 2006 to February 14, 2008. The project was granted a no-cost extension from February 15, 2008 to February 14, 2009.

In the duration of this project, we finished the main tasks set up in the initial proposal. These tasks include: setting up the basic platform in GAMS language for the new RICE 2007 model; testing various model structure of RICE 2007; incorporating PPP data set in the new RICE model; developing gridded data set for IA modeling.

With the support from the grant, Nordhaus and Yang participated in various conferences and workshop presenting the research related to RICE modeling and policy issues in IA domains.

Deliverable products that are directly or indirectly from the support of this project are the following: two published books, one by Nordhaus, titled *A Question of Balance*, published by Yale University Press; another by Yang, titled *Strategic Bargaining and Cooperation in Greenhouse Gas Mitigation*, published by the MIT Press. Nordhaus also published several peer-reviewed papers related to the project tasks. Yang has two papers in the review process. A joint effort by two PIs on documenting the RICE 2007 is in planning.

On the education side, the funding from the project supported a Ph.D. student as Yang’s research assistant. Currently, this student is working on his dissertation that is partly based on the new RICE model.

In summary, this project is very fruitful. We thank again for the support from the Office of Science of DOE.