A trade view on climate change policies: a multi-region multi-sector approach
Bollen, J.C.

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
Preface

Almost eight years ago I started at the National Institute of Public Health and the Environment (RIVM) with the Netherlands Bureau for Economic Policy Analysis (CPB) to work on the economics of climate change. Many projects, papers and presentations were the result of a fruitful collaboration between the institutes. During the years of collaboration, I slowly got accustomed to the idea to bundle my contributions, which now resulted in this book. The setup of the book influenced the joint work with CPB and vice versa. A lot of people have contributed to bits and pieces of the research as presented in this book.

I would like to thank them all.

First, of course my promotor Jan-Willem Velthuijsen, who always had an open mind and steered me to the decisions to make the next step in the process of research and writing.

Second, at the RIVM, Fred Langeweg and Rob Maas, and later Joop Oude Lohuis and Bert Metz encouraged me to do the research, and provided me with the opportunities to do so.

Still most important for this book are the people at the CPB who well understood the dirty work of processing data and development of the extensive set of model versions, and the writing process. The analyses presented in this book are based on the so-called WorldScan model. Hans Timmer and Ben Geurts developed the first rudimentary versions of the model, and thus implicitly set the stage for my work. Probably they will still feel their version to be the best. Arjan Gielen was responsible for the development of the first energy version of WorldScan, and at that time I started to collaborate with CPB on applications of the model. As so often happens in science, the applications that Arjen and I designed also influenced the model development process. I contributed to the development of the model, and applied the model for the reports and presentations of my work. I had a lot of fun with Arjen during our late night sessions on how to proceed further with the model, and chapter 4 is the result of our successful collaboration. Then the GTAP-era started, which yielded a complete revision of the model. The revision of the energy version of the model was led by Ton Manders, and I felt sometimes uneasy at all the simplifications that he proposed. Still I learned to appreciate his "in der Beschränkung zeigt sich der Meister" attitude. Many of his ideas and comments have found their way in Chapters 2 and 3. And Chapter 7 is based on our collaborative contribution to the IPCC-work on the issue of stabilization scenarios. Also, throughout all the years Nico van Leeuwen helped me with compiling the GTAP-database for all the versions of the model. Without his help I would never have been able to run any model version. Arjan Lejour designed the R&D version of the model, which I then translated to the energy version of the model that is used for Chapter 6. Also he reviewed parts of
Chapter 2. But more important, he always patiently listened to all the technical questions I posed to him, and then explained me the WorldScan mechanisms in such a way that helped me to further sophisticate the model equations for my applications. Detlef van Vuuren critically reviewed Chapter 3, and set me on the right track for this chapter. Henri de Groot commented on more than half of the book. His comments were always right to the point; my writing has gained a lot from his contribution. Last but not least, Paul Tang commented on almost every chapter. His comments always were fundamental, and made me sometimes have to revise the texts in a substantial way. Often it was not until after the rewriting, that I could fully enjoy the quality of the improvements.

I am also honored that Wim Driehuis, Casper van Ewijk, Henk Jager, Cathrinus Jepma (all UVA, Amsterdam), Warwick McKibbin (ANU, Canberra, Australia), Harmen Verbruggen (VU, Amsterdam), and John Weyant (Stanford University, Stanford, USA) have been so willing to be part of my Ph.D. committee.

I enjoyed the process that led to this book. But I could never have come so far without all my friends. I want to thank them for their support during the research and having to be put up with my often so distracted attitude during many social occasions. Especially I would like to thank Bert, who convinced me of the importance of this long-term project for my life. In this sense he is one of the initiators. Lastly, I would like to thank Femke who endured all those weekends with me working behind the computer.

Johannes Bollen