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### **2. Warranty /Liability**

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### **3. Use of the FAIR demo model software**

The user, without written permission of the RIVM, or its legal representative(s), is not permitted to: distribute, license, or otherwise transfer FAIR to any other individual or institution; alter, modify, enhance or otherwise change FAIR; or use FAIR in conjunction with any other computer software, only for the purposes of converting the FAIR results for presentations.

The FAIR demo model may only be used for the purpose of education, research and policy analysis and for no other purposes including, but not limited to, commercial purposes, that is, further sales of FAIR or appliance in consulting activities.

All users agree to inform RIVM of any use of the model for policy applications in the Netherlands or for international policy applications and applications for international organisations. The user will inform RIVM of any intended international application of FAIR by formal letter (or e-mail) and unless he/she hears otherwise within a month, the application will be deemed approved.

### **4. Publications**

Written publications in peer reviewed (scientific) journals or reports for international policy applications and applications for international organisations by the user of non-public domain data, in either raw or processed form, or research results obtained from the FAIR software or data files require written (including e-mail) prior consent by RIVM based on written communications by letters of these results to RIVM. A copy of the publication should be sent to RIVM, addressed at the attention of Michel den Elzen, Post Office Box 1, 3720 BA Bilthoven, The Netherlands, or e-mail: michel.den.elzen@rivm.nl

If RIVM does not respond within 15 working days after confirming the reception of the publication, permission to publish data and/or research results can be considered given.

RIVM retains at all times the right to withhold permission for the user to publish data and/or research results obtained from the FAIR demo model if it considers its data or software to be incorrectly used, that could compromise the scientific integrity of the RIVM.

In case of a publication of such results referred to above, the user shall be responsible for:

1. including in the publication the proper references to the models used (Appendix 1);
2. including in the publication the statement: 'Source: FAIR 2.0 demo model (den Elzen and Lucas, 2003), own calculations.'

### **Support**

The RIVM is not obliged to offer technical support of the FAIR software.

### **Appendices**

This agreement contains an Appendix: Appendix 1: **Specifications of software and documentation**. This Appendix 1 is an integral part of the user agreement.

### **Alterations**

RIVM is free to change the conditions in the user agreement without notice to the users. New conditions will only apply to new users.

FAIR's developers

Contact person

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## Appendix 1

### Specifications of software, documentation and databases.

The licensed version of the FAIR model is 2.0. It consists of a series of initialisation databases necessary to run the model, input files for selected scenarios. It does not comprise the model source code in M. The FAIR model is documented in the following publications:

- Den Elzen, M.G.J. and Lucas, P., 2003. FAIR 2.0: a decision-support model to assess the environmental and economic consequences of future climate regimes. RIVM-report 550015001, RIVM, Bilthoven, the Netherlands.

Further, the RIVM and the FAIR's developers request that if FAIR is used as the basis for any research results, reports or publications, the sources of the relevant scientific model components be acknowledged in the usual way as indicated below. The most recent references are listed at the FAIR website: [www.rivm.nl/fair](http://www.rivm.nl/fair). The publications presently best describing the FAIR components are briefly described below here:

#### Climate model:

- Den Elzen, M.G.J., Schaeffer, M., and Eickhout, B.. Responsibility for past and future global warming: time horizon and non-linearities in the climate system. RIVM Report no. 728001022, National Institute of Public Health and the Environment, Bilthoven, the Netherlands.

#### Emissions allocation model:

##### 1. Multi-Stage and Per capita Convergence:

- Den Elzen, M.G.J., 2002. Exploring climate regimes for differentiation of future commitments to stabilise greenhouse gas concentrations. *Integrated Assessment* 3(4): 343-359.
- Berk, M.M., and Den Elzen, M.G.J., 2001. Options for differentiation of future commitments in climate policy: how to realise timely participation to meet stringent climate goals. *Climate Policy*, 1: 465-480

##### 2. Simplified Multi-stage:

- Den Elzen, M.G.J., Berk, M.M. and Lucas, P., Simplified Multi-Stage and Per Capita Convergence: an analysis of two climate regimes for differentiation of commitments, 2004. *RIVM report 728001027*, RIVM, Bilthoven, the Netherlands.
- Den Elzen, M.G.J., Lucas, P. and Van Vuuren, D.P., 2004. Abatement costs of post-Kyoto climate regimes. *Energy Policy*, forthcoming.

##### 3. Brazilian Proposal:

- Den Elzen, M.G.J., Schaeffer, M. and Lucas, P., 2004. Differentiation of future commitments based on Parties' contribution to climate change. *Climate Change: uncertainties in the 'Brazilian Proposal' in the context of a policy implementation*. *Climatic Change*, forthcoming.
- Den Elzen, M.G.J. and Berk, M., How can the Parties fairly and effectively establish future obligations under long-term objectives?, 2003. In: *Climate policy for the 21st century: meeting the long-term challenge of global warming*, ed. D. Michel Center for Transatlantic Relations, Washington, DC.

##### Climate attribution calculations:

- Den Elzen, M.G.J. and Schaeffer, M., 2002. Responsibility for past and future global warming: uncertainties in attributing anthropogenic climate change. *Climatic Change*, 54: 29-73.

##### 4. Emission Intensity targets approach:

- Den Elzen, M.G.J. and Berk, M., How can the Parties fairly and effectively establish future obligations under long-term objectives?, 2003. In: *Climate policy for the 21st century: meeting the long-term challenge of global warming*, ed. D. Michel Center for Transatlantic Relations, Washington, DC.

**Mitigation costs and emissions trade model:**

- Den Elzen, M.G.J. and Both, S., 2002. Modelling emissions trading and abatement costs in FAIR 1.1 - Case study: the Bonn Agreement and Marrakesh Accords. RIVM Report no. 728001021, National Institute of Public Health and the Environment, Bilthoven, the Netherlands
- Den Elzen, M.G.J., Lucas, P. and Van Vuuren, D.P., 2004. Abatement costs of post-Kyoto climate regimes. Energy Policy, forthcoming.