

Appendix

There is an extensive appendix in this report, in some parts mentioned in the text. This appendix is only available in German language and can be requested from the authors. In the following, a brief description of the content of each chapter in the Appendix is documented:

A 1 Analysis parameters of the studies examined (10 pages)

Appendix A 1 lists the parameters contained in the publications considered in this study. The parameters are categorized into: energy balance, greenhouse gases (CO₂, CH₄, and N₂O), further emissions (NO_x, SO_x, NMHC, CO, etc.), potential estimation and cost estimation. For the sake of clarity, “further emissions” are not listed individually. Rather, only the number of further emissions considered in individual studies is documented.

A 2 Energy and greenhouse gas balance of biofuels (93 pages)

In Appendix A 2.1 – A 2.3, each energy and greenhouse gas balance prepared by individual authors for a single biofuel from the same raw material is presented. The differences and their reasons are shown and spectrums are derived. Furthermore, the comparison of individual biofuels (e.g. bioethanol) from different energy crops is available. A complete documentation is found in Appendix A 2.4, which contains the results of energy and greenhouse gas balances that are not presented in the main report.

A 3 Further environmental impacts of biofuels (10 pages)

Appendix A 3 illustrates the advantages and disadvantages in further environmental impacts (acidification, eutrophication, photosmog, ozone depletion) of biofuels compared to their fossil fuel counterparts discussed in the analysed studies.

A 4 Costs of fossil fuels and biofuels (21 pages)

The cost differences between the results by individual authors on the various fuels – categorized according to the raw materials – are presented in Appendix A 4. Also, the reasons for these differences are shown and spectrums are derived.

A 5 Publications not further analysed in this study (8 pages)

Appendix A 5 contains the publications not analysed for the following reasons:

- a) No primary data were presented in the publication. The findings are based on a detailed study that itself is considered in this investigation.
- b) More recent publications of the same authors are available.
- c) The publication considers exclusively data from other authors, rather than primary data.
- d) The publication is no longer up-to-date (1995 and earlier).
- e) There are other reasons which are listed separately.

A 6 Complete References (arranged alphabetically according to authors) (13 pages)