

BioLex – solid biofuel properties on internet

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During the last 10-15 years a large number of laboratory analyses of biofuels and bioashes have been made in connection to research and development projects and in daily control routines in Denmark. The large experience contained in these analyses has never been collected, as the results are spread in various laboratories, research institutions and utilities.

Objectives

The aim of this project is to collect this data in a detailed database and process it in order to:

- ?? create a better planning tool with well-documented normal values and variation within different categories of biofuels and ashes
- ?? ensure access to a large set of data, which in many situations will make new analyses unnecessary
- ?? study connections across laboratories and origin of the analysed material, so that laboratory methods, geographical origin, growing methods, meteorological relations or other parameters can be assessed critically. It is expected that the project will show new coherence, as it is often the case, when large amounts of data is compared

Based on the contents of the database a survey of correlations of biofuel and bioash properties will be carried out in order to obtain new knowledge about the materials and to help prepare a basis for standardisation efforts. It is the aim to update the database continuously with new analyses.

Data available through internet

The database is accessible on the Internet. Compared to other existing databases, this database contains more detailed information in each record, offering the user possibility for a closer and better comparison of biofuels and bioashes.

The project has resulted in a new, detailed knowledge about fuels and residues, which will be useful to qualify and lighten the consultancy about their properties. Phase two of the project is to add more data, giving the target group (authorities, planners, researchers as well as fuel traders, heating- and power plants, consultants, laboratories and waste companies), a more accurate basis for fuel trade, plant operation, planning and efforts within standardisation of fuels.

A user survey has been carried out in the progress of establishing the database. Based on sample data a broad selection of future users has given valuable feedback, which will be used to tune the database user interface.