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## **SOLID RECOVERED FUELS**

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**Solid Recovered Fuels**

This Technical Report was approved by CEN on 18 July 2003. It has been drawn up by the Technical Committee CEN/TC 2.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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## CEN/TR 14745:2003 (E)

### Foreword

This document CEN/TR 14745:2003 has been prepared by Technical Committee CEN/SS NO2 "**Solid fuels**", the secretariat of which is held by **CMC**

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2004, and conflicting national standards shall be withdrawn at the latest by April 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom

This technical report considers the production of solid recovered fuels from selected, non-hazardous, mono- and mixed-wastes and has been prepared by members of the CEN Task Force 118 "*Solid Recovered Fuels*".

Solid recovered fuels can be derived from a wide range of waste streams and are processed into different physical forms for the (partial) substitution of primary fuels in various combustion technologies.

The estimated quantity of solid recovered fuels produced in the European Union in 2000 was 1.4 million tonnes (0.7 Mtoe). That figure is expected to rise to 13 million tonnes (6.5 Mtoe) in 2005 and to continue to grow as combustible waste that is not suitable for material recovery is diverted from landfill in accordance with the Council Directive on the landfill of waste.

This report aims to present sufficient information about the production, use and environmental considerations of solid recovered fuels to justify the establishment of a Technical Committee for solid recovered fuels by the CEN Technical Board, with the approval of the relevant services of the European Commission (EC).

The preparation of the report was supported financially by Contract NNE5-1999-00533 "*Waste to Recovered Fuel*" awarded through the ENERGIE Programme of the European Commission's Fifth Framework Programme for research.

Annex H of the report was prepared by the European Commission's Joint Research Centre at Ispra, which has participated in the CEN Task Force on behalf of DG Environment Unit A.2 and provides an additional survey of solid recovered fuels in CEN Member Countries, including data on fuel properties and composition, sampling techniques and analytical methods.

### Introduction

CEN Task Force 118 "*Solid Recovered Fuels*" was created by BT Resolution C64/2000 in April 2000. Its aims are to initiate the drafting of a CEN Report to describe solid recovered fuels and their use, and also to develop a Work Programme for drafting relevant Standards. The Work Programme will provide the basis for a CEN Technical Committee to work on Standards for solid recovered fuels.

CEN/TF118 was established as a consequence of previous CEN activity in the field of solid biofuels. During the pre-normative work undertaken by CEN Working Group 108 "*Solid Biofuels*" in 1999/2000 it was decided that the scope of a future Technical Committee should not include fuels comprising waste materials that would be subject to the forthcoming Council Directive for the incineration of waste. In due course, that limitation was

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