

Standards Standards

Number Title



PRCEN/ STAGE 32 STAGE 32 CEN/TS Comments

as an energy resource has yet to be fully exploited.

Source: http:// ebrdrenewables.com

27 European bio-standards so far published

Time to globalize the bio standards

In 1998 the first step towards a common European standard on solid biofuels was taken. SIS, Swedish Standards Institute, was asked by the European Commission (EC) for a definition on solid biofuels. The reason was that EC had started two new projects aiming to write standards on solid biofuels. SIS contacted CEN, the European Standards Organization, and together with EC they started a Technical Committee, CEN/TC 335 Solid Biofuels, for the production of 30 new standards on solid biofuels. Today 27 standards are published. Lars Sjöberg now directs the light into the next step - it is time to globalize the standards into ISO - standards.

335 Solid biofu-L els has been or-

- Working group 1 (WG 1) Terminology, definitions and descriptions, • WG 2 Fuel specifications and classes,
- WG 3 Sampling and sample preparation,
- WG 4 Physical and mechanical test methods and
- methods. Each working secretary. Sweden has 335 and WG 4, Germany leads WG 1. Finland WG 2 and the Netherlands is the head of WG The solid biofuels stan-3 and 5.

Time consuming process

The creation of a standard is very time con-

The process normally ferent European countries are invited to par- dards. ticipate. A project leader

he work of TC for comments within started during the au-

ganized in five working group is 75 – 80 percent agreed the draft is circulated to the Technical Committee (TC). The comments from the TC are handled by the working group at a meeting and a new draft is prepared.

When all are satisfied the draft is sent out on a Formal vote to the • WG 5 Chemical test CEN member bodies. If more than 70 % are group has a secretariat voting "yes", the draft is with a convenor and a approved and then published by CEN. This is the secretariat of TC the formal process of a trade in solid biofuels.

Mandate

dards are written on a mandate from the Commission. When the project started the Commission was very eager to bring the standards out on the market and therefore it was decided starts with a meeting to write Technical Specin 2004 and the second where experts from dif- ifications which are a part will start during "simple" form of stan-

This means that the is nominated to each next step is to upgrade at http://www.ie-leipzig. work item and he is re- the Technical Specifi- <u>de/BioNorm/Standardi-</u> sponsible for the draft- cations to "real" stan- <u>sation.htm.</u> ing of the standard. The dards, i.e. European draft is then circulated Norms. This work has

tumn 2006 and will go When the working on until 2010.

Will stimulate the market growth

The main reason for

writing these standards is that EU wants to increase the use of solid biofuels, e.g. pellets and chips, and thereby decrease the emissions An important task now of carbon dioxide. In 2010 the contribution from renewable energy must be at least 12 percent of the total energy consumed. European standards facilitate the

The research project BioNorm

Parallel to the standardization work the Commission has a research project called BioNorm. The results from this project are incorporated in the European Standards. The first part of BioNorm was finalized the spring 2007. More Outside Europe there is information on BioN- a great interest in the orm you are able to find European standards.

Market acceptance and views

is to get the standards out on the market. As they are going to be upgraded within three years there are possibilities for the users of the standards to leave comments and make the standards even better. There are different channels to spread the knowledge of the new standards. One is writing articles in papers, e.g. Bioenergy International. Another one is by making presentations at conferences like World Biomass Conference and World Bioenergy.

World wide interest China, Canada, Brazil etc are asking when

there will be ISO - standards on solid biofuels. At the World

Bioenergy conference in Sweden last year delegates from China

asked if they could buy the standards. And of course it is possible to buy them from e.g. the Swedish Standards Institute SIS. But in the long run common global standards must be a bet-

In Sweden SIS is investigating the possibilities to start an ISO Technical Committee on solid biofuels.

ter solution.

The future on solid biofuels looks very good. The use of it will increase during the next vears and the need of international standards will be high.

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TYOMBER		TS	51MGL 32	omaz 32	CLIWIO	
WORK PROGRAMME FOR FIELD OF WG 1 TERMINOLOGY, DEFINITIONS AND DESCRIPTION.						
335 001	Solid Biofuels - Terminology, definitions and descriptions	14588	1-Nov	2-Aug	3-May	Published 2003- 12-17
Work Programme for field of WG 2 Fuel specifications, classes and quality assurance.						
335 002	Solid Biofuels - Fuel specifications and classes	14961	2-Jun	4-Mar	4-Dec	Published 2005- 04-11
335 003	Solid Biofuels - Fuel quality assurance	15234	4-Mar	4-Oct	5-Jul	Published 2006- 03-15
335 033	Solid Biofuels - Guide for a Quality Assurance System	15569	6-Jan	Stage 32 06-01-11- 02-28		
Work Programme for field of WG 3 Sampling and sample reduction.						
335 004	Solid Biofuels - Sampling - Part 1: Methods of sampling	14778-1	3-Jun	4-Jun	5-Jan	Published 2005-11
335 005	Solid Biofuels - Sampling - Part 2: Methods for sampling particulate material transported in lorries	14778-2	3-Jun	4-Jun	5-Jan	Published 2005-11
335 006	Solid Biofuels - Sampling - Methods for preparing sampling plans and sampling certificates	14779	3-Jun	4-Jun	5-Jan	Published 2005-11
335 007	Solid Biofuels - Methods for sample preparation	14780	3-Jun	4-Jun	5-Jan	Published 2005-11
WORK PROGRAMME FOR FIELD OF WG 4 PHYSICAL AND MECHANICAL TEST METHODS.						
335 008	Solid Biofuels - Method for the determination of calorific value	14918	2-Dec	3-Aug	4-Sep	Published 2005-05
335 009	Solid Biofuels - Methods for the determination of bulk density	15103	3-May	4-Jul	5-Apr	Published 05-11-30
335 010	Solid Biofuels - Methods for the determination of moisture content - Oven dry method - Part 1: Total moisture - Reference method	14774-1	2-Jan	2-Oct	4-Jul	Published 2004- 09-01
335 011	Solid Biofuels - Methods for the determination of moisture content – Oven dry method – Part 2: Total moisture – Simplified method	14774-2	2-Jan	2-Oct	4-Jul	Published 2004- 09-01
335 012	Solid Biofuels - Methods for the determination of moisture content - Oven dry method – Part 3: Moisture in general analysis sample	14774-3	2-Jan	2-Oct	4-Jul	Published 2004- 09-01
335 013	Solid Biofuels - Method for the determination of the content of volatile matter	15148	4-Jun	4-Dec	5-Aug	Published 2005- 11-03
335 014	Solid Biofuels - Method for the determination of ash content	14775	2-Jan	2-Oct	4-Jul	Published 2004- 09-01
335 015	Solid Biofuels - Methods for the determination of ash melting behaviour	15370-1	4-Oct	5-Jul	6-Apr	Published 2006- 09-27
335 016	Solid Biofuels - Methods for the determination of particle size distribution. Part 1: Oscillating screen method using sieve apertures of 3,15 mm and above	15149-1	3-Jun	4-Jul	5-Mar	Published 06-01
335 017	Solid Biofuels - Methods for the determination of particle size distribution. Part 2: Vibrating screen method using sieve apertures of 3,15 mm and below	15149-2	3-Jun	4-Jul	5-Mar	Published 06-01
335 018	Solid Biofuels - Methods for the determination of particle size distribution. Part 3: Rotary screen method	15149-3	3-Jun	4-Jul	5-Mar	Published 06-01
335 019	Solid Biofuels - Methods for the determination of impurities					No activity. More research is needed.
335 020	Solid Biofuels - Methods for the determination of particle density	15150	4-Feb	4-Nov	5-Aug	Published 05-11
335 032	Solid biofuels - Method for the determination of particle size distribution of disintegrated particles		6-Mar			Stage 32 2006-03- 0804-21
335 022	Solid Biofuels - Methods for the determination of mechanical durability of pellets and briquettes - Part 1: Pellets	15210-1	4-Feb	4-Nov	5-Aug	Published 05-12
335 023	Solid Biofuels - Methods for the determination of mechanical durability of pellets and briquettes - Part 2: Briquettes	15210-2	4-Feb	4-Nov	5-Aug	Published 05-12
335 034	Solid Biofuels - Methods for the determination of bridging properties		4-Sep	5-Mar	5-Dec	Stage 32 15 Dec 04 - 1 Feb 05
335 035	Solid Biofuels – Analyses of moisture content, ash content and volatile matter content of the general analysis sample by instrumental procedures					
Work Programme for field of WG 5 Chemical test methods.						

15th European **Biomass Con**ference & Exhi

From Research to Market **Deployment**

__rom May 7 - 11 2007, the 15th held at the Interna ter ICC in Berlin, Ge 2007. It is chaired b sion DG TREN, secto try, and Chair of th

- n biomass techno
- Oral and visu

- An internation arket deployment

Published 2006-04

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Solid Biofuels - Determination of total content of sulphur and chlorine

Solid Biofuels - Methods for determination of the water soluble content

Solid Biofuels - Determination of total content of carbon, hydrogen and 15104

15290

15297

4-Dec

4-Dec

5-May

5-Aug

5-Aug

6-Feb

nitrogen - Instrumental method

Solid Biofuels - Determination of major elements

Solid Biofuels - Determination of minor elements

Solid Biofuels - Calculation of analyses to different bases

335 028