



SolidStandards



Enhancing the implementation of quality and sustainability standards and certification schemes for solid biofuels (EIE/11/218)



D4.5d
Workshop report
19 March 2014
Assens, Denmark



SolidStandards-project

The SolidStandards project addresses ongoing and recent developments related to solid biofuel quality and sustainability issues, in particular the development of related standards and certification systems. In the SolidStandards project, solid biofuel industry players will be informed and trained in the field of standards and certification and their feedback will be collected and provided to the related standardization committees and policy makers.

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About this document

This document is part of work package 4.6 of the SolidStandards project. It is the summary report of the national workshop on sharing the experience on standards implementation. This document was prepared in March 2014 by:

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Intelligent Energy Europe

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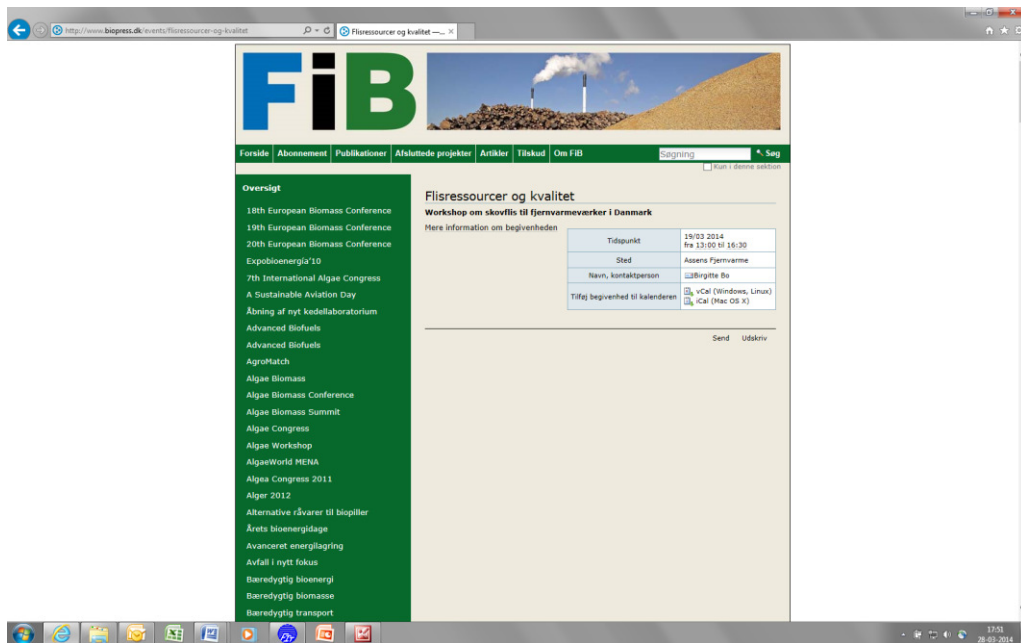
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1. Event summary

The WP 4 workshop took place 19th of March 2014 in Assens, Denmark and comprised four presentations on quality issues, resource issues and standard implementation as well as a visit to the CHP plant of Assens Fjernvarme, the case study district heating company. The aim of combining standardisation and quality issues with resource information that is currently heavily debated in Denmark was to attract as many stake holders as possible.

The workshop invitation was sent to more than 550 stake holders and the workshop was announced in the national bioenergy research magazine (FIB) as well as on the website of FORCE Technology.



An unexpectedly large number of stake holders (42 persons) registered for the workshop. Thus, the event had to be relocated from the premises of Assens Fjernvarme to the conference center, Arena Assens, the old, recently renovated sugar mill.



Due to the timing of the event, it was possible to present the results of the project. The final brochure of SolidStandards was disseminated to the participants. Also, the wood chip booklet from Austria was disseminated.

At the end of the workshop, 9 participants were in favour of implementing EN standards in their own processes.

2. Participants

Finally, 42 stake holders including speakers participated. The participants covered forest operators, fuel manufacturers, logistic companies, traders, plant owners/end users and researchers etc. from all over Denmark - from the very north of Jutland (Hjørring) to the very East (Bornholm).

A list of participants is provided as an annex to this report. The list was signed by most participants.

3. Programme

3.1. Agenda

The following agenda was presented in the invitation:

- 13.00 - 13.15 Welcome, Marc Hintze - Assens Fjernvarme
- 13.15 - 13.30 Introduction to the SolidStandards project, Morten Tony Hansen - FORCE Technology
- 13.30 - 14.00 How is wood chip quality handled at Assens Fjernvarme, Marc Hintze - Assens Fjernvarme
- 14.00 - 14.20 Case study on implementation of quality standards, Morten Tony Hansen - FORCE Technology
- 14.20 - 14.40 Coffee break
- 14.40 - 15.10 Wood chip resources in Danmark now and ind the future, Ernst Secher Eriksen - HedeDanmark
- 15.10 - 15.30 Quetions and further debate
- 15.45 Visit to Assens Fjernvarme CHP plant

In practice, since the event took place at another site than anticipated, it became efficient to change a bit in order of the programme: Morten Tony Hansen asked the participants a warm welcome and introduced the project and its results.

The original programme (Danish) can be seen in the annex.



3.2. Situation in Denmark

Solid biomass is used in heat and CHP generation in many plants in Denmark from small to large scale. Currently, plant owners at large are planning to convert plants from fossil fuels to solid biomass. Pellets and straw account for the main share while wood chips are used at many heating plants and some CHP plants.

It is the impression that during the time of the SolidStandards project, stake holders have become increasingly aware that solid biomass gains importance and is increasingly internationally traded and thus the demand for standards along the supply chains. Especially the need for sustainability criteria have been accentuated by Danish stake holders. But also standards aimed at assisting daily safe operation of plants are gaining increased importance.





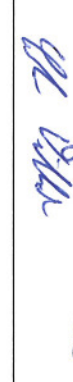







4. Feedback from participants

As mentioned above, nine participants actively showed their interest towards implementing CEN standards or parts of the standards for solid biofuels in their respective businesses. They raised their hand when the question was posed. No further analysis of the origin of these stake holders or to what extent they would use standards were carried out.




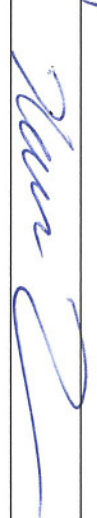
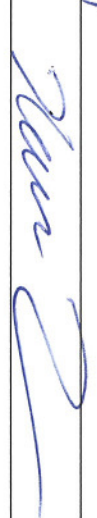



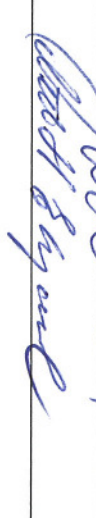
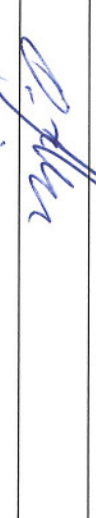







A further correspondence with stake holders on the same subject will be carried out at a later stage.

Annex I - Participants list and original programme

Appendix 2. List of participants

No.	Name	Organisation	Type of organisation*	Signature
1	Alex Hansen	Hjordkær Fjernvarme A.m.b.a.	U	
2	Allan Abildskov	Verdo	U	
3	Benny Corneliusen	Verdo	U	
4	Brian Falkenberg	DSHwood A/S	T	
5	Carsten Villadsen	AB Skovservice	P	
6	Dan Nissen	Sønderborg Fjernvarme	U	
7	Erik Bundsbæk	Skjern fjernvarmecentral	U	
8	Erik Dalby	Miljøministeriet, Naturstyrelsen	P/O (authority)	
9	Ernst Secher Eriksen	Hede Danmark	P/T	
10	Finn Christensen	Stenstrup Fjernvarme	U	
11	Henrik Mehlsen	E.ON Danmark A/S	U	
12	Jan Christensen	Dansk Biotransport GmbH	(T)	
13	Jan Mayland	FMT Trading E-co ₂	T	
14	Jens Schear Mikkelsen	Sønderborg Fjernvarme	U	
15	Jesper Stokholm Larsen	Hjørring Varmeforsyning	U	

*(P) producer, (T)supplier/trader, (U) end-user, (S/C) standardisation or certification organisation, (O)other, specify (e.g. training organisation, R&D, analysis laboratory). Note: same organisation can have different roles (e.g. pellet producer and end-user).

16	John Myrup	Weiss A/S		<i>O (boiler)</i>	
17	Jørgen Pedersen	Skovdyrkerne Fyn		<i>P/T</i>	
18	Jørgen Sørensen	Sdr. Omme Varmeværk Amba		<i>U</i>	
19	Kate Wieck-Hansen	Dansk Fjernvarme		<i>O (industry org)</i>	
20	Klaus Kristensen	Skovdyrkerne Fyn		<i>P/T</i>	
21	Lars Bloch	Andritz Feed & Biofuel A/S		<i>O (eq. supply)</i>	
22	Marc Hintze	Assens Fjernvarme		<i>U</i>	
23	Martin Radoor	Lohals Varmeforsyning		<i>U</i>	
24	Michael Christensen	CM Biomass Partners A/S		<i>T</i>	
25	Michael Ringkøbing	Lem Varmeværk		<i>U</i>	
26	Morten Tony Hansen	FORCE Technology		<i>O (R&D etc)</i>	
27	Niels-Henrik Elnegaard	Lohals Varmeforsyning		<i>U</i>	
28	Nina Holmboe	HOEOR A/S		<i>U</i>	
29	Ole John	WEBSTECH		<i>O (tech. supply)</i>	
30	Ole Nielsen	Forsyning Bornholm A/S		<i>U</i>	
31	Ole Olesen	Genfa I/S		<i>P</i>	
32	Per Diget	NIRAS		<i>O (consult)</i>	

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33	Per Hilbert	Skovdyrkerne Sekretariatet		O (industry org)	Per Hilbert
34	Per Ravn	Ravn.cc		T	Per Ravn
35	Per Sørensen	Hjørring Varmeforsyning		U	Per Sørensen
36	Per Thomsen	Hjørring Varmeforsyning		U	Per Thomsen
37	Peter Chrois Møller	Miljøministeriet, Naturstyrelsen		O (workshop)	Peter Chrois Møller
38	Simon Skov	Københavns Universitet		O (research)	Simon Skov
39	Søren Nielsen	Forsyning Bornholm A/S		U	Søren Nielsen
40	Sten Andersen	Webstech Aps		O (tech support)	Sten Andersen
41	Svend Manø	Græsted Fjernvarme		U	Svend Manø
42	Thomas Langholz Valentin	Skovdyrkerne Syd		P	Thomas Langholz Valentin
43	Torben Møller	TM Trading		T	Torben Møller
44	Per Sørensen	Assens Fjernvarme		U	Per Sørensen

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