

EUROPEAN COMMISSION JOINT RESEARCH CENTRE Institute for Prospective Technological Studies (Seville) Sustainable Production and Consumption Unit

## Pilot studies on sectoral reference documents on best environmental management practice – the Retail Trade sector

# Minutes of the EMAS stakeholder workshop for the Retail Trade sector held at JRC/IPTS on 18 and 19 November 2010 in ES-Seville

### Participants: See Annex 1.

### Introduction

The Community Eco-Management and Audit Scheme (hereafter EMAS) was originally established in 1993 by Regulation (EC) No 1836/93. This voluntary scheme was originally restricted to companies from industrial sectors. EMAS was revised in 2001 by Regulation (EC) No 761/2001 of the European Parliament and of the Council of 19 March 2001 allowing participation by organisations from all economic sectors, which is currently in force. Now, a second revision of EMAS has been undertaken, called EMAS III. This new regulation foresees the development of sectoral reference documents on best environmental management practice (Article 46). The goal of the current pilot studies is to bring stakeholders together and to collect views and opinions on how to create the reference documents. These documents should be functional and helpful for the organisations concerned.

#### **Opening of the workshop and Introduction to EMAS Sectoral Reference Documents**

The chairman, Harald Schoenberger, opened the session and welcomed the assistants. After a brief explanation of the meeting procedure, including obtaining permission to audio-record proceeding, san introduction was given.

## Presentation.: Sectoral reference document on best environmental management practice for the retail trade sector. (See Annex 2)

The EMAS III regulation framework, under which the document is being developed, was presented. Article 46 states that the European Commission will elaborate sectoral reference documents in which best environmental management practices, indicators and, where appropriate, benchmarks of excellence will be developed. The Retail Trade sector was identified as a relevant sector for the pilot studies on the EMAS reference document. The scope of the documents will be technical, in order to describe what companies can do in a given sector. The structure of the document and the description of the techniques were decided in the kickoff meeting of the working group (25<sup>th</sup> June 2009). Benchmarks of Excellence and Indicators were developed from the process level and were derived from the best performers and should be achievable by all companies. Quantitative data should support the proposed benchmarks and the document should back them up.

<u>Discussion</u>. There were some questions about how to interpret the benchmarks and how they were derived. Doubts were clarified. Specially, it was stressed that they are widely applicable and reflect the 20-30% of best performers. Economics should also be considered in the description and in the benchmarking process.

## Overview of the information exchange to develop draft document

#### Presentation: Information exchange process. (Annex 3)

A short presentation (3 slides) was given. The absence of information exchange from EMAS organisations, verifiers and accreditation bodies was remarked upon. The main information exchange was performed with retailers and other relevant stakeholders, as techniques providers, NGOs and universities and research institutes through their publications. The collaboration level of retailers varied from press releases to "nothing is confidential" cooperation and very detailed technical specifications. The feedback was positive from retailers, associations, NGOs and DG ENV, while some criticism came from one accreditation body and two member states. Some gaps have been already identified in the current document: legal aspects, waste, focus on SMEs.

### **Discussion**

The group is concerned about the complexity of the document, as it is difficult to read in full. The structure should be improved to enable fast access to relevant information. Differentiation of sales concepts should be included in the description and well differentiated for benchmarks of excellence. Conclusion: the document layout will be structured in order to make it more user-friendly.

## Presentation of comments on Chapter 1. (see Annex 4)

Comments from working group members regarding chapter 1 (sector overview) were presented anonymously in a presentation made by JLGM. It was emphasised that only approximately 20 retailers are EMAS registered, and these retailers do not provide evidence of best practice.

It was noted that retailers have important environmental public relations objectives that motivate best practice disclosure. It was clarified that retailer organisations and stores do not need to comply with the benchmarks in the reference document to become EMAS certified. The document is intended as a source of support (framework) for continuous improvement for the entire sector, not a checklist for EMAS verifiers. However, EMAS verifiers might expect retailers to report on relevant proposed indicators. There was agreement on this, and positive feedback about document contents.

There was a comment regarding the last paragraph of p.25 in document: return of used products to the retailer is mentioned, but is not universally regarded as best practice by the working group. There is different legislation on take back across different countries. This issue will be tackled in the waste section, and it was agreed to remove the phrase "to the retailer" in the aforementioned sentence.

Various legislation applies to retail environmental performance, but is always evolving. The document need not be exhaustive in its coverage of this, but should provide an overview of key legislation so it's clear where voluntary best practice measures 'begin'.

### **Discussion on chapter 2.1. Energy performance.**

<u>Presentation</u>. JLGM presented an overview of energy performance in retail stores, focussing on indicators and benchmarks across nine techniques.

Techniques 1 to 3: Retrofitting building envelope, design premises for HVAC, and use of integrated concept for buildings

It was noted that most retail buildings are not owned by retailers, and that in some cases individual retailers are minor tenants within the overall building envelope. Store ownership is mentioned in the applicability section of the technique, but the focus on building performance is relevant because it is an important aspect of energy use (also across other sectors). EP offered to check a new clause inserted into Carrefour rental contracts in case it is relevant to building energy performance. It was suggested that building energy rating systems could be used to inform retail rental decisions, and that facility investors could be addressed by the reference document.

There was some discussion about whether energy demand indicators could differentiate between electricity and heat, and whether the benchmark energy use should be normalised against the air supply rate to enable identification of excess air input rate. Retailers have direct control over techniques within the building, but not necessarily the building envelope. However, it is difficult to isolate electricity used for heating from other uses (e.g. lighting), and primary energy <u>demand</u> is the most relevant performance measure for building performance. The influence of air exchange rate for building energy demand will be explicitly referred to in the text. It was clarified that this technique is also relevant for cooling energy demand.

It was noted that low energy standards differ across countries (e.g. Passivhaus, Minergie). Benchmarks in the document are based on the Swiss Minergie standard, but the document should not promote particular standards. The title of technique 3 will be changed to refer only to "integrated concepts".

Different sales formats may be associated with different energy use for Heating Ventilation and Air Conditioning (HVAC). For example, an electronics retailer with products switched on for display will require significant cooling.

Cost per MWh energy use avoided would be a useful indicator of the business case, but is highly dependent on individual cases. It will be mentioned in the text for the technique.

The reference to 15% energy for ventilation for Carrefour in Fig. 2.5 is incorrect – should be for laboratories. It was proposed that the baseline in Fig. 2.12 will vary during closing hours, and should be lower.

There is general agreement on the proposed benchmarks with a clearer definition of applicability, but these may be modified to reflect different sales concepts. This will be discussed through further contact with the working group.

#### Technique 4. Integration of refrigeration and HVAC

There was agreement on the indicators and benchmarks for this technique

#### Technique 5. Monitoring of stores

The main issues for discussion were the time require for full implementation of energy monitoring technologies across all stores, the number of processes that should be monitored, and whether distribution centres should also be included in this technique.

It was clarified that monitoring should be at store level for specific processes. Colruyt require energy monitoring hardware in all new equipment, but it will take time for this to become fully diffused across all stores. There is some discussion over the benchmark of excellence for 100% stores and all processes to be monitored. 100% monitoring is already implemented by some retailers, and is a valid target benchmark.

The number of relevant processes for monitoring depends on the store type and format. JLGM presents a background slide to elaborate on seven key energy consuming processes in stores. It may not be necessary to monitor lighting at a store level. Ultimately, the document does need to specify which processes are relevant for which store formats: the benchmark is that all relevant processes are monitored.

Distribution centres are important for energy use and will be referred to in the applicability section.

Training of staff is essential for monitoring, but this may not be so important at a store level if centralised monitoring becomes more widespread (where data from all stores processed at retailer headquarters). Colruyt are installing a centralised monitoring system that will be completed in a few years, but across the sector some barriers remain for fully centralised energy monitoring systems, in particular system and code incompatibilities across stores. It will be important for retailers to ensure that all new stores have compatible monitoring systems.

It was emphasised that whilst monitoring is essential for energy management, it is not <u>in itself</u> best practice: active benchmarking is required.

## Technique 6. Efficient refrigeration

It was agreed that closed cabinets are best practice for low temperature (minus cooling), but there was debate about whether closed cabinets are best practice for medium temperature (plus cooling). Many retailers are still experimenting with the latter, and it was suggested that energy savings will not be significant in busy stores when doors are opened frequently by customers. There are also concerns over the impact on sales, although it was noted that in the longer term customers may associated closed cabinets with improved food quality (as is the case for low temperature cooling).

Colruyt have a cooling zone with flaps to reduce cool air loss through the entrance during the day, and a curtain at night. This is regarded as best practice from an energy perspective (e.g. for cash and carry or discount stores), but is not regarded as a commercially viable option for non-discount sales concepts. MV will provide data on energy use for cooling zone.

It was stated that marketing managers dislike the phrase "covered", and would prefer glassdoors a! Change name to "glass doors" or similar. PB suggests lower benchmark. UB agrees. MV: Can provide additional information on cooling zone (e.g. energy use). States that 100% is a relevant benchmark of excellence as a target.

It was agreed to amend benchmark to refer to use of cooling zone where appropriate, and 100% covering where this would lead to a calculated energy reduction of greater than 10%.

It was agreed that use of natural refrigerants, and energy consumption less than 3000 kWh/myr are valid benchmarks. MV and EP would like to check these figures.

### Technique 7. Efficient lighting

It is proposed that the benchmark could be reduced from 18 W/m2 installed lighting capacity. 8-12 W/m2 ground lighting (from ceiling) is typical for good new supermarkets in Germany, but this excludes spot lighting, and 10 W/m2 is possible for DIY stores.

Lighting capacity depends on sales format. Some small fashion stores use up to 400 W/m2, and new stores fitted with 100% LED lighting still require 40-50 W/m2. Migros has negotiated the lighting energy use of specialist clothes stores within their buildings to 30 W/m2.

The benchmark of excellence for grocery stores was reduced to 12 W/m2, as a challenging target, and a tentative 30 W/m2 was proposed for small specialist stores. IPTS will look into potential for further differentiation of the benchmark according to store format, and will liaise with the working group on this. IPTS will also request the recent Eurocommerce publication on energy consumption.

Use of daylight was removed as an indicator of best practice, to reflect the problem of heat gains in warmer climates.

#### Technique 8: Secondary measures

There is a trend for retailers to outsource distribution and logistics to third party providers, but the energy section of the document deals with direct aspects of retailer performance. Therefore the benchmark of excellence was amended to require energy monitoring in 100% of distribution centres <u>owned or exclusively in service to the retailer</u>. Definition of boundaries of responsibility will be investigated further.

It is important that monitoring is used to drive improvement, and this requires assignment of responsibility to a dedicated person/s within the retailer. This was reflected in a new indicator to have a management system in place to drive continuous improvement.

There was some discussion about whether retail headquarters should be included in this technique, to lead by example.

#### Technique 9. Alternative energy sources

There was agreement that purchase of 'green' electricity is not a relevant indicator of environmental performance, but investment in new alternative energy generation is a relevant indicator. Colruyt is pursuing a strategy of becoming a net contributor of electricity to the national grid. On this basis, a benchmark of a zero energy store was agreed, although this depends on the geographical location.

The percentage of energy demand generated by alternative sources, and the percentage alternative energy generation in excess of consumption are inserted as relevant indicators.

JLGM emphasises that this technique represents best practice only where it is implemented to provide residual energy demand <u>after implementation of other measures</u>.

## **Discussion on chapter 2.2. Supply chain.**

Presentation. The approach of chapter 2.2 of the document was presented. Main points are:

- Integrate supply chain environmental performance improvement as a business objective
- Assess product supply chains and prioritise improvement actions
- Identify most effective control options (independent certification, supplier contracts)
- Drive widespread improvement by specifying minimum product standards
- Drive improvement by encouraging green consumption of exemplary eco products A systematic procedure for core product improvement was shown.

#### Technique 1. Integrate supply chain sustainability into the retail business

The definition of supply chain should be refined to "product supply chains", to differentiate it from transport and logistics aspects discussed in the next section. The document is focused on main impacts, so product improvement is covered in this chapter. Some confidentiality issues arise in the identification and assessment of core products. Some participants requested that the document be modified to identify a list of core products that should be improved. However, this will vary according to retailer type, and the objective of the document is to outline how retailers decide which product groups to improve. The chapter is intended to explain how retailers can improve their supply chains, without proposing a list of core products to be assessed. Many studies and different LCA approaches already exist.

No substantial modification on indicators and benchmarks was made, but the responsibility of a high level business unit to drive improvement was emphasised.

## Technique 2. Assess core product supply chains to identify priority products, processes and options for improvement

The assessment of products needs much time and is incompatible with the assessment period of new suppliers for some retailers. It was noted that LCA can be easily manipulated, although increasing experience in the field should allow manipulation to be identified more easily. Retailers may need help in the identification of hotspots. Literature review is recommended to easily identify them. Many studies are performed by retailer clusters or associations, so the importance of common approaches is also high. The role of suppliers is also essential and to be addressed in the indicators.

There was discussion over whether retailers should select priority product groups for improvement based on initial screening according to sales volume (i.e. core product groups), or initial screening according to environmental impact. The former approach may miss low volume but high environmental impact product groups. It was proposed to use sales value as a

definition of core product groups, which may reduce this problem (high impact products are often more expensive).

Conclusions:

- to include a new indicator: *percentage of suppliers which provide verifiable environmental performance data per product group*
- to include a reference to individual or joint approaches in the benchmark: implementation of systematic assessment (*independently or through consortia*) of core product supply chains

### Technique 3. Identify chains of custody and control points for priority supply chains

It was pointed the need to be critical with labels, even if they are independent. The use of criteria coming from labels can be useful. The document should have an objective position. It was emphasised that ISO 14020 type I labels are the most comprehensive and reliable. The technique intends to describe the direction to take, as problems will be addressed with experience.

No changes were made to the Indicators and Benchmarks. Some points of the discussion were relevant for subsequent techniques.

Before the indicators and benchmarks section, a table with label examples was shown. A classification was proposed in terms of basic/improved/exemplary standards, which may be based on third parties certification or retailer declarations.

#### Discussion on labels (table on slide 23)

It was agreed to elaborate on the explanation of the classification of labels. As well, some important labels will be included, such as Rainforest Alliance and GOTS. PEFC should not be considered exemplary.

Some example criteria from labels should be given when enough information is available. It is important to address multicriteria labels and differentiate them from monocriteria labels. However, some labels that fall outside ISO Type I definition (e.g. FSC, MSC) may be regarded as exemplary where they target the most relevant environmental hotpsots.

The final table of labels will still be a compendium of examples more than a compendium of all existing labels.

#### <u>Technique 4. Require core products to be independently certified to minimum environmental</u> <u>standards</u>

The discussion was focused on the application of independent certification to core products, not for all products. Independent labels should be audited. For retailers, the availability of certified products can be a problem. For example, not all fish species are available with FSC certification.

For this technique, the relation with suppliers can be really important. Some participants pointed the need of addressing the responsibility of suppliers, for example with a certified EMS (EMAS, ISO 14001). No change on this will be included in this technique which is focused on product certification, but will be reflected in technique 5 on supplier improvement.

Indicators will not be changed. The second benchmark for "new" standards will be removed (unclear definition of new standard). Best retailers achieve 100% certification for core product groups. It was emphasised that this technique is assessed on a product group basis, and was agreed to include the benchmark as 100% certification for "at least two product groups".

The definition of "product groups" will be refined in the document.

### Technique 5: Define and enforce minimum environmental standards for core product groups

Some confusion of T4 and T5 was detected. T5 has to do with retail intervention to achieve better performance. The products addressed in T4 and T5 can not be the same. A special concern of retailers is to know the most effective way to achieve this. Recommendations on that are given in the detailed technique description in the reference document.

Conclusions on indicators and benchmarks are the same as for tech. 4.

# Technique 6: Define Require core products to be independently certified to exemplary environmental standards

For this technique, the discussion on benchmarks was really important. The sales share of official ecolabels should be checked by IPTS, especially for Nordic countries, and EC targets for the EU Flower should be considered. As well, 10% organic certification of food products was seen as ambitious but possible, whilst the organic cotton target was regarded as too high - the availability for this product would be really limited if retailers go for this standard. Although this is an important concern, the benchmark will be kept as a reference for excellence, to incentivize development of organic farming. Products coming from farms in transition should be considered as a good practice (in the technique description) but should not be included in the benchmark figure.

# Technique 7. Work with suppliers to define and implement exemplary standards for core product groups

Same indicators and benchmarks as for technique 6. Some additional classifications (e.g. A+++ for energy products) may be considered as exemplary in Table 2.29 the technique description.

#### Technique 8. Strategically fund and participate in research to drive supply chain innovation

There was a general agreement on indicators and benchmarks for this section. A special mention to joint initiatives or consortia should be included in the text. As well, consultancy work can be considered best practice if it drives innovation and development.

## Technique 9. Promote front-runner ecological products through comprehensive own-brand eco ranges

Conclusions from techniques 6 and 7 are applicable to this section. Some criticism is expected from retailers not working with own brand products.

#### Technique 10. Promote front-runner products through selective labelling

Some competitiveness problems are expected through the identification of best performers by retailers. As well, most of the labels in this technique address monocriteria aspects. This

technique should be removed as best practice, as multicriteria labels should be encouraged (e.g. ecolabeled products should be seen as frontrunner products).

It was concluded to remove this technique.

### **Discussion on chapter 2.3. Transports and Logistics**

#### Technique 1. Monitor report and benchmark transport and logistics performance

It was agreed to remove product sourcing distances as an indicator as it could be perceived as contrary to free trade. There are some doubts about the ease of use of some indicators, such as  $kgCO_2/m^3$  delivered, owing to different expressions within the sector (e.g.  $CO_2$  per pallet delivered). Transport and logistics should be included in the supply chain policy. Here, the scope of the document can not extend to the whole chain, and the focus is on transport between first tier suppliers and distribution centers or stores.

#### Technique 2. Integrate transport considerations into sourcing and packaging

The density of packaged products should be benchmarked, although it varies considerably across product groups. The consideration of density is included as benchmark: "Systematic implementation of density improvement of packaged products"

### Technique 3. Shift transport modes

For some retailers, the benchmark "> 50 % overland transport by water/rail" is difficult to achieve as it may not be under direct control of the retailer, for example because of infrastructure limitations. However, some retailers are already achieving the proposed benchmarks, so the final benchmark will be reworded to " > 50 % overland transport by water/rail (where infrastructure allows it) between the first tier supplier to the distribution center".

#### Technique 4. Optimize the distribution network

The percentage of product supply handled by specialised companies should be considered as an indicator of this technique as dedicated transport and logistics companies are often more efficient than retailers and very relevant for SMEs, so "% of delivered products managed by a third party specialist logistics provider" is included as an indicator.

## Technique 5. Route planning, telematics and driver training

Indicators and benchmarks were agreed. The concept of continuous training was included in the proposed benchmark, which now reads "100 % drivers continuously trained in efficient driving"

## Technique 6. Vehicle design and modification

The benchmark of less than 30 l per 100 km for 44 tonne diesel trucks can vary according to the type (density) of products. Some figures can be provided from the participants. As well, night deliverance can be included as a good practice, although in some municipalities is forbidden (to be reflected in the applicability section). The emissions of  $CO_2$  should be accounted in the environmental management system.

The benchmark for trucks compliance with EURO 4 or 5 should be changed to only EURO 5.

## **Discussion on chapter 2.4. Waste Management**

Presentation. HS presented an overview of waste management techniques.

### Technique 1. Return systems for PET and PE bottles and for used products

There was discussion over whether this aspect is the responsibility of municipalities rather than retailers. It is proposed that retailers should at least provide facilities, although it was noted that store space can be expensive. In addition, stores have hygiene considerations that may conflict with accepting certain waste materials. In the Netherlands, municipalities pay retailers to install collection systems for WEEE material. The WEEE forum is addressing some of these issues.

Legislation is a major driver of this technique, but differs across member states. For example, under the Green Dot initiative in Germany producers have financial responsibility for waste arising from their packaging. In Sweden there is a compulsory deposit system for drink and beverage packaging except those that has contained milk (due to hygiene reasons) or those that are concentrated and not ready to drink.

#### IPTS will develop this technique further.

#### Technique 2. Fermentation of food waste

Retailers want to control waste management and municipalities want organic waste to feed their biogas plants. There are strong economic incentives for organic waste collection now in many countries.

It was proposed to include the proportion of food waste in relation to sales as an important indicator and incentive to reduce food waste generation. This indicator may ultimately go into a new waste management (reduction) section.

It is proposed to use the value, rather than the weight, of waste. This may reflect upstream impacts of production better and is well known in Sweden.

PB will provide some Swedish waste data that could be used to derive benchmarks. IPTS will develop this technique further.

#### **Discussion on chapter 2.5. Paper consumption**

This technique will be further developed and sent for consultation.

#### **Discussion on chapter 2.6. Rainwater collection.**

The extension of the discussion on the other chapters didn't allow discussing the contents of this technique. This has to be developed with the Water Framework Directive in mind. Presentation is annexed as Annex 5.

#### **Discussion on chapter 3. Emerging techniques**

The extension of the discussion on the other chapters didn't allow discussing the contents of this chapter. Presentation is annexed as Annex 6. The content should be modified regarding to

zero energy buildings, as it can be considered a best practice since retailers are implementing this kind of buildings. The text to be included in the text is attached to the e-mail sent to the working group.

### Discussion on the potential improvement of the information exchange process

The potential improvement of the information sharing between the members of the working group for the development of sectoral reference documents was not discussed during the meeting. Participants are encouraged to send any comment, suggestion or idea to improve the information exchange. Questions to the participants are shown in the presentation (Annex 7). After circulating draft minutes, two full answers were obtained. See them below:

Questions	Answers
Which are the easiest ways to exchange info?	1. Via mail first, with a definite deadline to get everybody's comments in time.
	2. By email and then to discuss on it via working group
Which format do you prefer to provide info? (e.g. do you prefer to have a first draft of a technique to complete or to correct?)	1. Yes, a first draft, and preferably as word documents, so we could comment in the text.
	2. yes usually is easier for us
Do you consider site visits to be of high value?	<ol> <li>IF You mean physically visits, they could be useful, but probably just as inspiration and thus it has to be combined with plenty of time for discussions. The many chapters, and the different content of them, makes it difficult to visit one single company, perhaps besides Migro or Coop in Switzerland. Anyhow it would involve many different specialists in the visited company, which would be very timeconsuming for both the hosts and for the WG, so I stick to that the main interest of visites should be inspiration.</li> <li>yes!! notably to see the diversity of our activity but as well to stick with our business</li> </ol>
Should there be a platform to share info (also	<ul><li>reality and constraints.</li><li>1. If the members will get information when</li></ul>
for comments)? – accessible only for WG members.	something new is uploaded, and specific question on the new document, I do believe these platforms could be useful.
	2. yes
Why did you provide info (e.g. to be mentioned as best performer or)?	1. So far I have not seen any information that could not be shared, as the most is already reported publicly in Sustainabilty reports or

	similar. However, specific sales figures could be very sensitive among many retailers.		
	2 to avoid regulation or else which "reinvent" what we already do		
	- to share our experience, best practices but also our burdens, constraintsdue to our activities		
	- to obtain the best results thanks to the number of participants and the quality of outcome		
Would you provide more info upon written agreement on confidentiality?	<ol> <li>See above.</li> <li>Yes</li> </ol>		

## List of annexes

Annex 1. List of Participants

Annex 2. Sectoral reference document on best environmental management practice for the retail trade sector (presentation)

Annex 3. Info exchange process

Annex 4. General comments received before the workshop

Annex 5. Conclusions on indicators and benchmarks

Annex 6. Emerging techniques presentation

Annex 7. Potential improvement of the information exchange process

Annex 8. Agenda of the Workshop



EUROPEAN COMMISSION JOINT RESEARCH CENTRE Institute for Prospective Technological Studies (Seville) Sustainable Production and Consumption Unit

## **Annex 1: list of participants**

First Name	Last Name	Organisation	City	Country
Georg	Dr. VOGL	VNU - German Assoc. for Env. Mgmt. Professionals	Bad Soden	Germany
Emilie	Prouzet	Carrefour Group	Brussels	Belgium
Matthias	Friebel	GWÖ, Gesellschaft für WirtschaftsÖkologie	Bad Soden	Germany
Simone	Mancini	European Retail Round Table	Brussels	Belgium
Mieke	Vercaeren	Colruytgroup	Halle	Belgium
Olaf	Dechow	Otto (GmbH & Co KG)	Hamburg	Germany
Paula	Gomes	European Commission / DG ENV	Brussels	Belgium
Gilles	Vincent	European Commission / DG ENV	Brussels	Belgium
Fernando	Ventura	JMR, SA	Lisboa	Portugal
Per	Baummann	Swedish Food Retailers Federation	Stockholm	Sweden
Urs	Berger	Joint Research Centre	Zürich	Switzerland
Matthias	Speicher	eec energy efficiency consultants Gmbh	Böblingen	Germany
Alexandre	Capelli	LVMH	Boulogne	France
Harald	Schoenberger	European Commission / JRC IPTS	Seville	Spain
David	Styles	European Commission / JRC IPTS	Seville	Spain
José Luis	Gálvez	European Commission / JRC IPTS	Seville	Spain
Peter	Eder	European Commission / JRC IPTS	Seville	Spain
Alicia	Boyano	European Commission / JRC IPTS	Seville	Spain

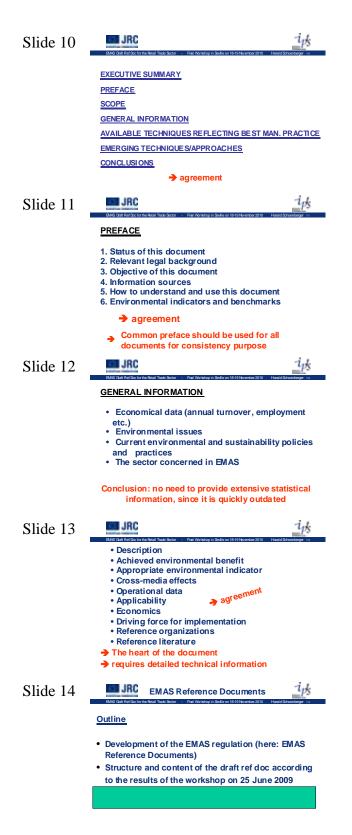


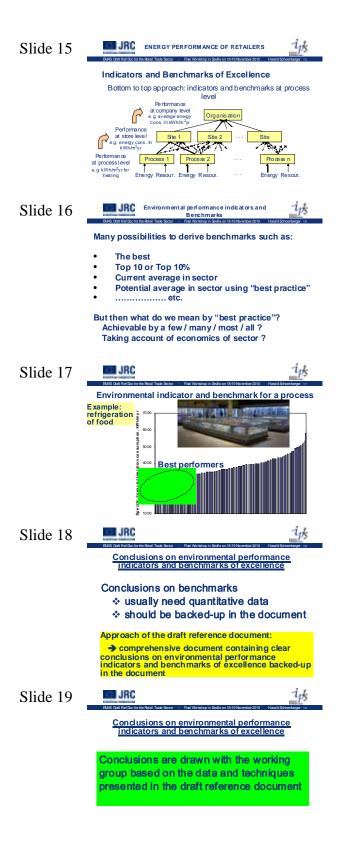
Annex 2. Sectoral reference document on best environmental management practice for the retail trade sector (presentation)

Slide 1		
	Joint Research Centre (JRC)	
	Sectoral reference document on best	
	environmental management practice for the	
	retail trade sector	
	Dr. Harald Schoenberger	
	IPTS - Institute for Prospective Techn ological Studies in Seville Sustainable Production and Consumption Unit	
	http://ipts.jrc.ec.europa.eu/	
Slide 2	EMAS Reference Documents	
	Outline	
	Structure and content of the draft ref doc according	
	to the results of the workshop on 25 June 2009	
	Environmental performance indicators and	
	benchmarks	
Slide 3	JRC The new EMAS Regulation	_
	The REGULATION (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009	
	on the voluntary participation by organizations	
	in a Community eco-management and audit	
	scheme (EMAS) went into force in January 2010	
Slide 4	EVEN Date Rate Tasks Search - Find Workshop in Solidion (1994) Neurosci 2010 - Head Schwartarger 4	
	Article 46(1)	
	Development of reference documents and guides	
	<ol> <li>The Commission shall, in consultation with Member States and other stakeholders, develop sectoral reference documents that shall include:</li> </ol>	
	a) best environmental management practice	
	b) environmental performance indicators for specific sectors	
	<ul> <li>c) where appropriate, benchmarks of excellence and rating systems identifying performance levels.</li> </ul>	
	The Commission may also develop reference documents for cross-sectoral use.	

Slide 5	The new Article 46     We know the factor for
	Article 46(3) List of sectors The Commission shall establish, by the end of 2010 a working plan setting out an indicative list of sectors, which will be considered priorities for the adoption of sectoral and cross-sectoral reference documents
Slide 6	UNG DAR Refer. Land State State - Frei Warkscop in State on 1811 November 2010 - Hoard Schorecorger +
	Article 46(3) Already identified priority sectors • Retail trade (12/2010)
	Public Administration (7/2012)
	• <u>Construction (12/2011)</u>
	• <u>Tourism (12/2011)</u>
Slide 7	EMAS Reference Documents     Web 2018 Reference Documents     Web 2018 Reference Documents
	Outline
	Development of the EMAS regulation (here: EMAS Reference Documents)     Environmental performance indicators and benchmarks
Slide 8	
	"Definition" of EMAS Reference Documents EMAS regulation: Recital 19 Reference documents including best environmental practice and environmental performance indicators for specific sectors should be developed through information exchange and collaboration between Member States. Those documents should help organisations better focus on the most important environmental aspects in a given sector  Conclusion: EMAS Sectoral Reference Documents shall be very technical documents describing in detail what can be done to improve the environmental performance following the IPPC BREF approach
Slide 9	JRC
	Note build be determined back servery and the

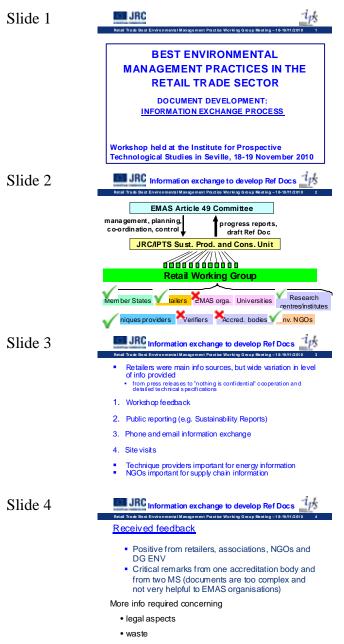
sectoral reference documents?







#### Annex 3. Info exchange process



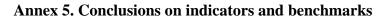
possibly SMEs (?)

Slide 1	Retail Trade Best Proc Sces Reference Document. Final Mercing, Seville, 18-19 Nov 2010	ips
_	SECORAL APPLICATION OF EMAS: RETAIL TR	ADE
	COMMENTS	
		EMAS
Slide 2	Retail Trade Best Protices Reference DocumentFinal Mercling. Seville, 15-19 Nov 2010	ips
	<ol> <li>General comments on the scope of the document</li> <li>Specific comments regarding chapter 2: (ENERGY)</li> <li>Specific comments regarding chapter 2: (SUPPLY CHAIN)</li> <li>Specific comments regarding chapter 2: (LOGISTICS)</li> <li>Specific comments regarding other chapter 2:</li> </ol>	2. 3.
Slide 3	JRC	ips
	GENERAL COMMENTS	
Slide 4	GENERAL COMMENTS Retail Trade Best Practices Reference Document. Final Merking. Seville, 18-19 Nov 2010	ips
	we consider the document globally very good, would like to congratulate you and your tean your great efforts. This document will be very important not only to the EMAS community b to the sector as a whole	n for /
Slide 5	JRC GENERAL COMMENTS	ips
	the complexity of these documents will not encourage companies of the retail sector part in EMAS. The present document is muu long and complicated for all users. Many big players like IKEA are mentioned in these dra document, why should they then go for EMA they are all ready seen as best practice exar the EC?'	<b>to take</b> ch too global ft S if

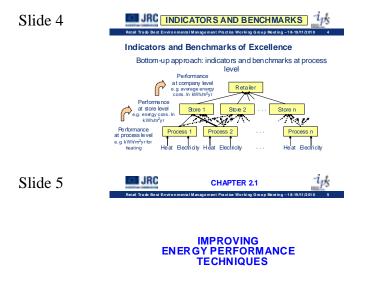
Annex 4. General comments received before the workshop



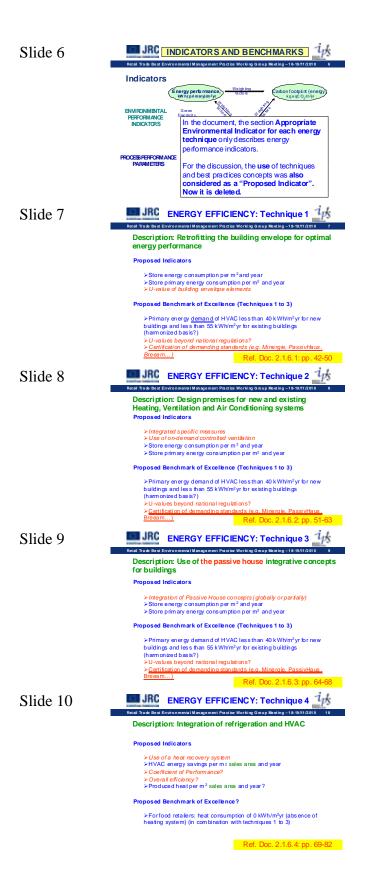
Slide 11	21 21 21 21 21 21 21 21 21 21	
Slide 12	The Track Red Protoco Roberto Comment Field Notation Source 2010 12 The Track Red Protoco Roberto Comment Field Notation Source 2010 The Track Red Protoco Roberto Comment Field Notation 2010 Source 2010 The Comment Source 2010 (off hunce)- only useful for the experts; sometimes it would be useful to know the different steps to take, a kind of framework (like in T&L)	
Slide 13	20 20 20 20 20 20 20 20 20 20	
Slide 14	2 I I I I I I I I I I I I I I I I I I I	

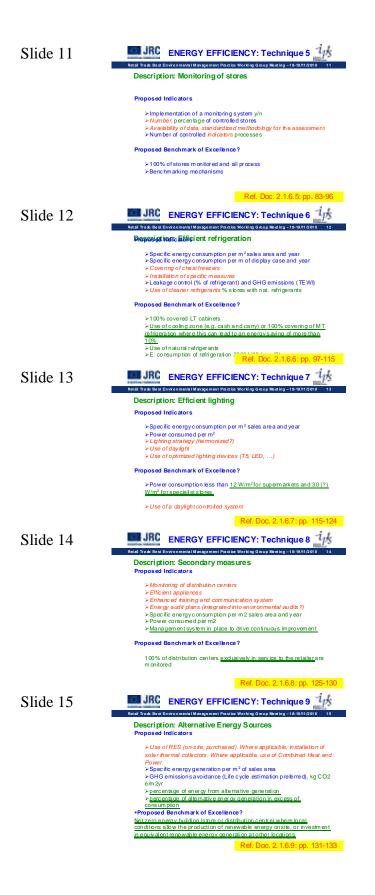


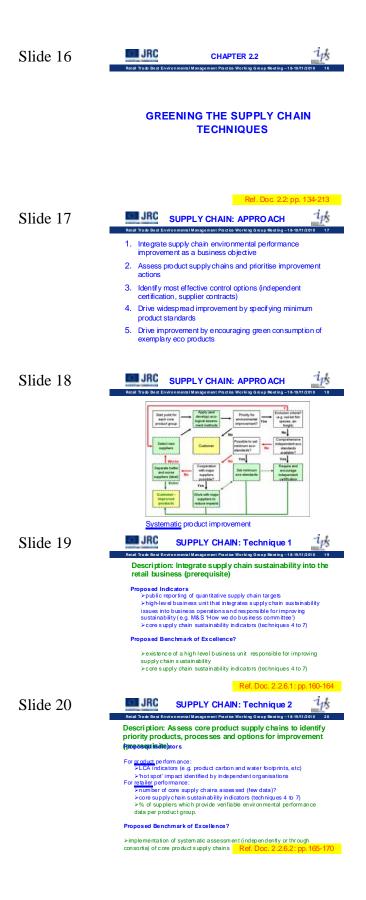


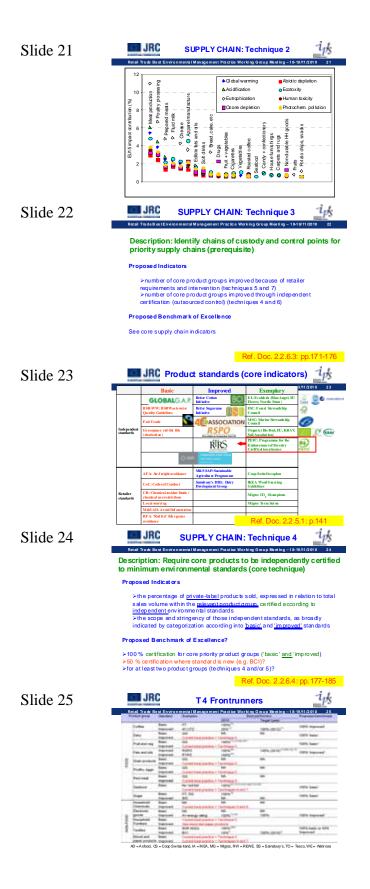


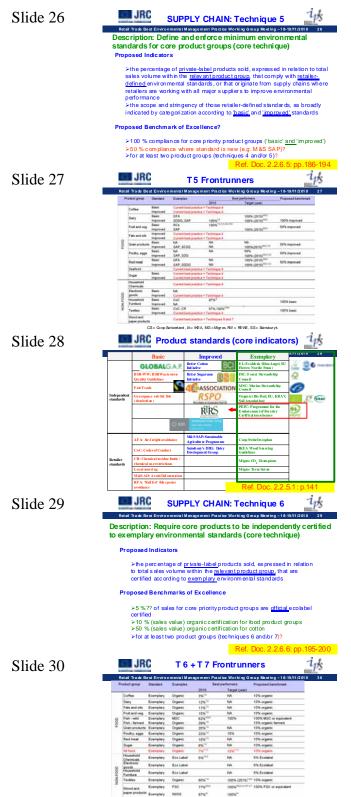
Ref. Doc. 2.1: pp. 31-133



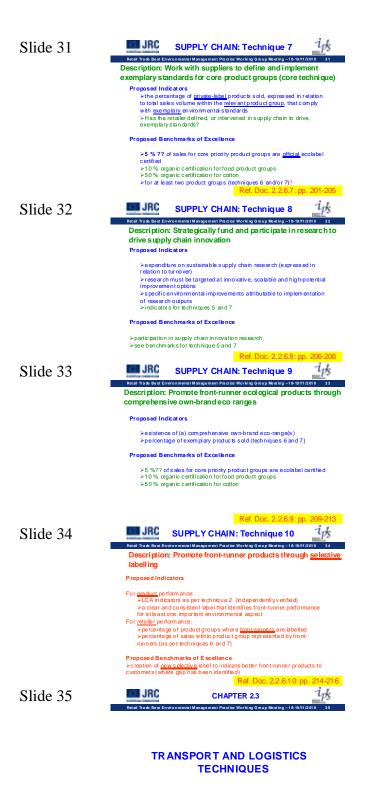








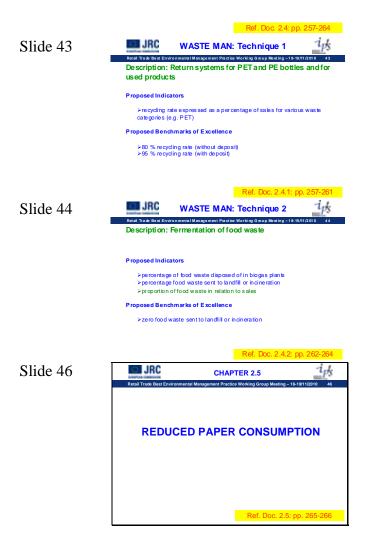
CS= Coop Switzer land, IA = IKEA, IWSS = IKEA Wood Scuncing Stand and, HFS= Koop enta iva Förb unde t Swed en (Coop Swede n), KR = King faster, OT = Otto

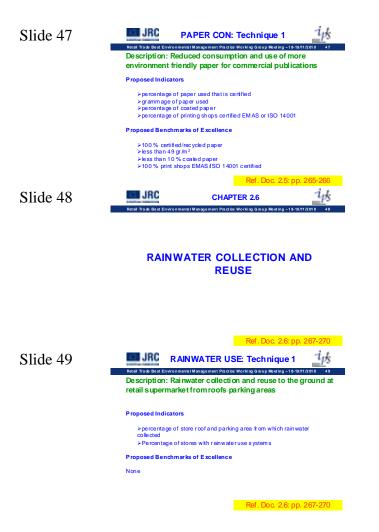


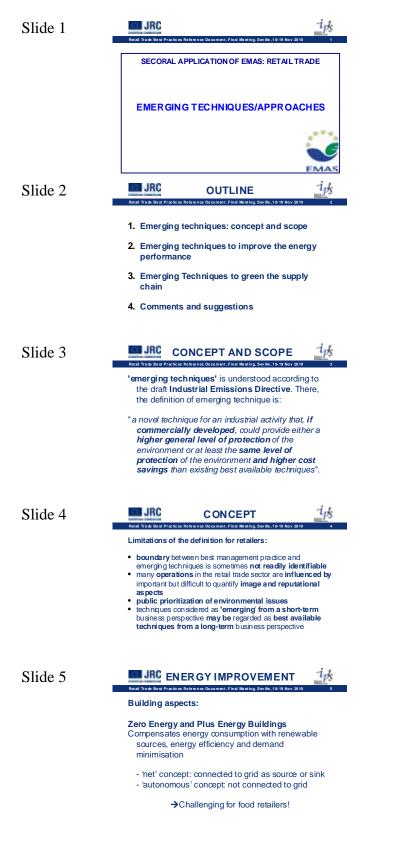
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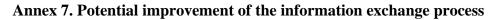


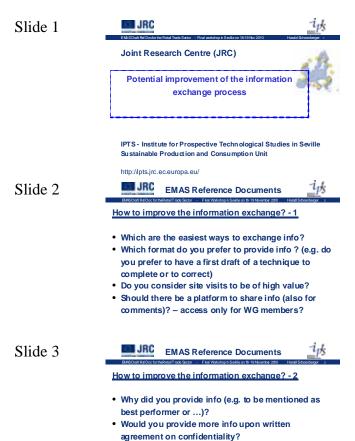




#### Annex 6. Emerging techniques presentation

Slide 6			GYIMP				\$
	Retail Trade Best Practices Reference Document. Final Meeting. Seville, 18-19 Nov 2010 6 Building aspects:					•	
	Trigeneration Effective utilization of CHP						
	+ Celeanary Thermally driven refrigeration process (absortion) with excess heat					'n	
	Already implemented for large food processing plants     At concept level for supermarkets.						
Slide 7	Retail Track Bost P	EN ER	GYIMP			NT 1	\$
	Refrigerati	on					
	Beyond the compressi						
	Process		Benefit	Exam		Dev. Phase	
	Absortion/adsorp te chnology	re co	e ssune changes, ver of waste heat en cycle, direct	Air cond it (c am m e	ncial)	R &D/Demo	_
	Air compression o	y cle	contact	Large p Small fri		R&D for stones	_
	Therm calcoust	Pa	essure chaingles,	Ben and Jen (protot)	ry free ze r	R&D/Pilot	_
						,	
Slide 8	Retail Trade Best P					J	\$
			dsthatreta sproductg			uire complia	ince
	Standard	Products		Benefit	and on	Dev. Phase	
	Better Suga ica ne Initiative Aqu aculture	Sugar	C omprehensive standard base new environmental performand benchmarks for sugar cane production		nance	Standard awaitin EU recognition Some indicators	g
	Stewardship Council	Farmed fish	New indicators performance c	of aquaculture	е	d evelope d, stand under developme	
	Alliance for Water Stewardship	Various (e.g. flowers)	Newguideline measurewate the context of demand and a	r use perforr cumulative l	mance in	Early deve lopme stages	nt
Slide 9	JRC				N	-i,	k
Silde J	Retail Trade Best P	ractices Refer	SUPPLY	inal Meeting, Se	rv ille , 1 8-19		9
	Supplier da basic envi					ers to obtair suppliers	1
		Example			Dev. Phase		
	Sedex supplier being extended				Unclea		
	evaluate envir	onmentalp		fsuppliers	volunta	suppliers are rily providing mental informati	on
	US Sustain abil supplierbe		g system to Ca		Early d	evelopmentstag	es
Slide 10	JRC		SUPPLY			-i <sub>p</sub>	ŀ
	Retail Trade Best P Encouraging					Nov 2010	10
						ups(i.e. existin	
	labelling	)? 					ы
	gro ups		-			with particular	
	<ul> <li>Change consumption patterns (e.g. less meat)</li> <li>Retailers can play a role (e.g. identification of low and high</li> </ul>						
	impact groups), but wider education and measures required  Concept behind PCF, but requires more complete environ mental						
	scope a	nd simple	communicat	tion			





## Annex 8. Agenda of the Workshop

### WORKSHOP ON THE EMAS REFERENCE DOCUMENT FOR THE RETAIL TRADE SECTOR SEVILLA, 18-19 NOVEMBER 2010 <u>DRAFT AGENDA</u>

## **18 NOVEMBER 2010: 15.00 – 18.30**

1.	Opening and welcome by chairperson	1500 - 1520
2.	Purpose and goals of the workshop	1520 - 1530
3.	Introduction to the EMAS regulation – presentation followed by discussion	1530 - 1545
4.	Overview of the information exchange to develop draft document – presentation followed by discussion	1545 – 1615
5.	Chapter 1 (general information) of the draft document – presentation followed by discussion	1615-1700
	Break	1700-1715
6.	Chapter 2 (techniques) of the draft document – presentation followed by discussion	1715-1830

## 19 November 2010: 9.00 – 17.30

7.	Chapter 2 (techniques) of the draft document – presentation followed by discussion	0930 - 1100
	Break	1100 - 1120
8.	Chapter 2 (techniques) of the draft document – presentation followed by discussion	1120 - 1310
9.	Lunch	1310 - 1430
10.	Chapter 2 (techniques) of the draft document – presentation followed by discussion	1430 - 1500
11.	Break	1500 - 1515
12.	Chapter 3 (emerging techniques) of the draft document – presentation followed by discussion	1515 - 1545
13.	<b>Discussion on the potential improvement</b> of the information exchange process – presentation followed by discussion	1545 - 1645
14.	Break	1645 - 1700
15.	Summary of the conclusions	1700 - 1730
16.	Close of workshop	1730