ISCC Technical Committee Meeting
South East Asia
Jakarta, August 12, 2015

ISCC Update

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ISCC is applied on a global scale in 100 countries by more than 3,300 companies.
About 80 organisations and individuals are united in the association which is steering the entire ISCC voluntary certification operation.
88% of all certificates are issued in the ISCC EU system. The DE system is losing market relevance, ISCC PLUS is gaining importance.

* Shares of valid certificates as of 07 August 2015
**Certificates exclusively or partly dealing with waste&residues
Development of ISCC certificates issued since 2010 (cumulative)

Number of ISCC certificates issued

<table>
<thead>
<tr>
<th>August 2010</th>
<th>August 2011</th>
<th>August 2012</th>
<th>August 2013</th>
<th>August 2014</th>
<th>August 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>564</td>
<td>1723</td>
<td>3751</td>
<td>6621</td>
<td>9402</td>
</tr>
</tbody>
</table>

Numbers as of 07 August 2015
Development of ISCC PLUS certificates issued since 2012 (cumulative)

Number of ISCC PLUS certificates issued

August 2012: 12
August 2013: 34
August 2014: 85
August 2015: 197

Numbers as of 07 August 2015
Most of the system users are located the EU. South East Asia is second most important region for ISCC
ISCC in ID: 235 certificates valid. Palm is dominating feedstock. For ISCC PLUS food and feed are most relevant markets.

<table>
<thead>
<tr>
<th>Type of operation</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Office</td>
<td>23</td>
</tr>
<tr>
<td>First Gathering Point</td>
<td>85</td>
</tr>
<tr>
<td>Collecting Point</td>
<td>9</td>
</tr>
<tr>
<td>Oil Mill</td>
<td>131</td>
</tr>
<tr>
<td>Refinery</td>
<td>34</td>
</tr>
<tr>
<td>Biodiesel Plant</td>
<td>7</td>
</tr>
<tr>
<td>Trader</td>
<td>19</td>
</tr>
<tr>
<td>Storage</td>
<td>44</td>
</tr>
</tbody>
</table>

*Numbers as of 7 August 2015. Each certificate may be issued for more than one product and type of operation.
**Palm includes all materials based on palm, e.g. FFB, CPO Pome, Palm Sludge Oil, PFAD etc.
ISCC in MY: 162 certificates valid. Palm is dominating feedstock. For ISCC PLUS food and feed are most relevant markets.

<table>
<thead>
<tr>
<th>Type of operation</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Office</td>
<td>7</td>
</tr>
<tr>
<td>First Gathering Point</td>
<td>86</td>
</tr>
<tr>
<td>Collecting Point</td>
<td>14</td>
</tr>
<tr>
<td>Oil Mill</td>
<td>95</td>
</tr>
<tr>
<td>Refinery</td>
<td>22</td>
</tr>
<tr>
<td>Biodiesel Plant</td>
<td>21</td>
</tr>
<tr>
<td>Trader</td>
<td>16</td>
</tr>
<tr>
<td>Storage</td>
<td>16</td>
</tr>
</tbody>
</table>

*Numbers as of 7 August 2015. Each certificate may be issued for more than one product and type of operation.

**Palm includes all materials based on palm, e.g. FFB, CPO Pome, Palm Sludge Oil, PFAD etc.
The FQD implements a decarbonization strategy for transport. Importance of individual GHG calculations will rise further


**Decarbonization strategy for the transport sector**

- **European Union:**
  - FQD requires a 6% GHG reduction per unit of energy from fuel supplied*
  
  ➜ The importance of the individual GHG performance of biofuels will increase tremendously and will impact prices
  
  ➜ Individual calculations and audits of individual calculations will increase
  
  ➜ Fraud potential

* Obtained through the use of biofuels, alternative fuels and reductions in flaring and venting at production sites (additional 4% by CCS, electric vehicles and CDM possible).
The FQD was implemented in Germany January 2015. The energetic quota was replaced by a GHG reduction quota

<table>
<thead>
<tr>
<th>Year</th>
<th>Energetic biofuels quota</th>
<th>GHG reduction quota</th>
<th>Min. GHG saving requirement based on RED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>5,25%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>2010 - 2014</td>
<td>6,25%</td>
<td>n/a</td>
<td>35%</td>
</tr>
<tr>
<td>2015</td>
<td>n/a</td>
<td>3,5% (initially 3%)</td>
<td>35%</td>
</tr>
<tr>
<td>2017</td>
<td>n/a</td>
<td>4% (initially 4.5%)</td>
<td>50%</td>
</tr>
<tr>
<td>2018</td>
<td>n/a</td>
<td></td>
<td>60% for installations in which production started from 2017 onwards</td>
</tr>
<tr>
<td>2020</td>
<td>n/a</td>
<td>6% (initially 7%)</td>
<td>50% (60% for new plants)</td>
</tr>
</tbody>
</table>

- Germany is the largest biofuel market in the EU
- Germany is the first country that moved to a mandatory GHG reduction quota. This is seen as a technology neutral instrument to promote biofuels
- Biofuels are currently the only option to fulfill the target
- Minimum GHG savings according to RED must still be achieved
On April 28, 2015, European Parliament voted to endorse a compromise with the Council on ILUC

Main points:

- Limiting food/feed crop based biofuels to 7%
- Sub target for advanced biofuels
- MS need to report ILUC GHG emissions
- No ILUC factors for accounting (yet). Possibly after 2017 when science is “updated”
- Multiple counting: advanced biofuels, renewable liquid and gaseous transport fuels of non-biological origin (2x), Electric road vehicles with renewable electricity (5x) and Trains (2.5x)
- Low indirect land use change risk biofuels
- The 10% RE target for 2020 still in place
With ISCC PLUS sustainable material can be delivered to other markets e.g. chemical industry, pulp and paper and timber products
More and more companies use renewable feedstocks and need to prove sustainability of the feedstock

“We are delighted to be playing a key role in helping Elopak come closer to its vision of creating the industry’s most renewable cartons.”

Rob Balk, Segment leader extrusion coating, Sabic

“All raw materials used for our yogurt cups were processed according to the requirements of the ISCC PLUS certificate. These cups are a first step to develop more packing materials based on renewable raw materials...”

Marion Fürst, DANONE GmbH

“Elopak is pleased to introduce the bio-based carton together with FrieslandCampina to the Dutch market. We hope that this introduction will lead to an increase in demand for ISCC PLUS certified bio-based cartons”

Bert Lohuis, Market Area Director Elopak

“This is a key milestone in Elopak’s effort to reduce environmental footprint of our products. We have a vision to deliver products with zero net impact on the environment, and this is an important step towards that goal”

Kristian Hall, Director Environment, Elopak

“Renewable raw materials shall be used and processed as sustainable as possible. Agricultural land and water resources are limited. This is the reason why BASF is an active member of ISCC... and supports producers in their sustainability efforts.”

Christine Stiehl, BASF

“This technology has the potential to revolutionize both the plastics and packaging industry across Europe and around the world”

Marc Vester, Business Leader, Sabic

“The expansion of the green products line (for TetraPak®) reinforces our commitment to adding value through sustainable development for the value chain”

Carlos Fadigas, President, Braskem

Source: foodbev.com, freislandcampina.com, sabic.com, foodproductiondaily.com, tetrapak.com
...the cartons are the Greenest Pure-Pak® ever, produced by Elopak who replaced all non-renewable materials with renewable alternatives.
ISCC PLUS certified oilseeds are taking off

Cologne, 11 August 2015

Sustainable Edible Oils

In order to enhance the sustainability of their softseeded supply chain, several ADM Oilseeds production facilities in Europe have been ISCC PLUS-certified. This enables them to supply the food industry with certified sustainable edible oils from crops including rapeseed and sunflower seeds.

"ISCC remains one of Europe’s most respected sustainability schemes, which makes ISCC PLUS the perfect infrastructure to ensure sustainability throughout the supply chain," from the farm to the consumer, explains Albrecht Eisinger, ADM, Sustainability Manager Europe. "ISCC’s existing structure and experience are clear advantages of the ISCC PLUS standards for food and feed oils compared to other programs, and therefore easily complements with sustainability requirements of major food oils customers."

Through the ADM Sustainable Oilseeds Program, which is based on ISCC PLUS principles, participating rapeseed and sunflower growers in Poland, Slovakia, Hungary and the Czech Republic are developing environmental management systems and implementing sustainable agricultural practices that address soil fertility, water protection, energy efficiency and biodiversity protection. Farms are subject to audits to help ensure compliance.

As part of the program, ADM has also provided financial support to the Polish Society for Bird Protection, which strives to protect rare birds in the grasslands of the Upper Narew Valley in northeast Poland.

Furthermore, ADM’s Ukrainian sunflower origination and crushing plant in Illishivka, near Odessa, has recently received ISCC PLUS certification and is now able to offer a sustainable supply chain for refined sunflower oil. The certification covers the ISCC PLUS Add-ons 202-01 Environmental Management and Biodiversity and 202-02 Water Management.

One of the important goals of the ISCC PLUS program is also the harmonization of farm level requirements. In this respect ISCC is cooperating with the Sustainable Agriculture Initiative (SAI) - a platform of leading food producers, of which ISCC is third party supporter.

Sustainable Soybeans

ADM continues to actively participate in sustainable soybean certification programs in South America and was the first company in South America to achieve ISCC certification for soybeans by working with growers in both Brazil and Paraguay to successfully complete exacting third-party audits. ADM has also contributed to the transition of the Dutch feed industry to sustainable soymeal in 2015 by selling ISCC PLUS-certified soymeal to that market in 2015. As a result of this sustainable market transition, it is now possible to market both sustainable biodiesel and soymeal made from ISCC PLUS soybeans.

ISCC PLUS in short

ISCC PLUS is ISCC’s certification scheme for all types of agricultural and alternative feedstocks and their derived products in the feed, food, bioplastic and chemical markets. With ISCC PLUS high requirements on sustainable production of feedstocks and traceability through the supply chain can be verified. On production level this includes the protection of biodiversity, preservation of carbon sinks and the compliance with good agricultural practice and human and social rights. In the further supply chain traceability (e.g. mass balance approach) is one of the focal points of certification. System users can additionally customize their certification by getting certified against so-called “add-ons”, such as Environmental Management and Biodiversity, Classified Chemicals, Non-GMO or Greenhouse Gas (GHG) Requirements.

The number of ISCC PLUS certificates is further taking up pace. Since June 2014 certificates have more than doubled to almost 200. Half of the companies using ISCC PLUS indicate to use their certificates for food and feed market, ISCC PLUS supports and works with numerous initiatives to enable and promote sustainable food, feed and bioeconomy supply chains, such as the Consumer Goods Forum, Declaration of Abu Dhabi, Green Deal, IDH, INCO and SI4. ISCC PLUS is also accepted by Unilever under the Unilever SGS. Learn more at www.iscc-system.org

ISCC PLUS is also in line with the Sustainable Soy Sourcing Guidelines published by The European Feed Manufacturers Federation (FEFAC) and also participates in a web-based system by the International Trade Center (ITC) which will allow standards owners and users to compare their criteria with the FEFAC guidelines and to assess whether they meet the requirements. Kevin Brassington, President Oilseeds Europe, ADM and President of FEDIOL: “In the consultation round of key stakeholders, FEDIOL has given its support to the FEFAC approach. It offers a solution to building up stable mainstream volumes of sustainable soybeans and soybean products for the EU supply chain, while at the same time keeping an outlook for constant improvement.”

About ADM

For more than a century, the people of Archer Daniels Midland Company (NYSE: ADM) have transformed crops into products that satisfy the vital needs of more than 200 countries. Today, we’re one of the world’s largest agricultural processors and food ingredient providers, with more than 33,000 employees serving customers in more than 140 countries. With a global value chain that includes more than 380 crop procurement locations, 300 ingredient manufacturing facilities, 40 innovation centers and the world’s premier crop transportation network, we connect the harvest to the home, making products for food, animal feed, chemical and energy uses. Learn more at www.adm.com

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ISCC supports companies and initiatives to ensure sustainable and deforestation free food, feed and biochemical supply chains

- **Unilever**: ISCC PLUS (with Add-ons Environmental Management and Biodiversity and Classified Chemicals) fully recognized. ISCC PLUS is considered fully equivalent to the Unilever Sustainable Agriculture Code

- **Sustainable Agriculture Initiative**: ISCC supports the Sustainable Agriculture Initiative, SAI.

- **Consumer Goods Forum**: ISCC is one of the recommended standards to prove the compliance with the criteria set by the Consumer Goods Forum (currently for soy)

- **IDH**: ISCC cooperates with the sustainable trade initiative (IDH)

- **Forum Sustainable Palm Oil**: ISCC PLUS is one of the recognized standards in the German forum

- **INRO**: ISCC is recognized by the German Initiative for sustainable supply of raw materials for the industrial use of biomass (INRO)

- **Green Deal**: ISCC is a partner of Green Deal – the Dutch initiative to set up sustainability criteria for biobased polymer products

- **Declaration of Abu Dhabi**: ISCC is one of the first signatories of the Abu Dhabi declaration initiated by GlobalGAP, International Trade Center and SAI
ISCC was involved in the development of GRAS as a one stop solution to offer relevant information for sustainability certification.