Experiences with ISCC Sustainability and CI Certification of Producers in North America

Dr Jan Henke, ISCC System GmbH
ISCC is one of the leading sustainability certification systems and is applied on a global scale
ISCC is being used by companies in more than 100 countries

- System users in 100+ countries
- 13,500+ certificates
- 3,000+ system users
- 33 certification bodies
- 670+ ISCC trained auditors
- Training Program (57 Trainings so far for auditors and system users)
- Several tools and procedures to facilitate audits (combined-audits)
- Approved methodology to calculate and verify GHG emissions
- Stakeholder dialogue: 87 ISCC Association members
- Strong regional stakeholder dialogue: 5 Technical Committees
- Use of innovative methods to verify land use change
- Integrity Program: 3 auditors

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ISCC’s stakeholder involvement and activities in North America

**ISCC stakeholder involvement**
- Eight organizations as members in the ISCC Association
- Dr Steffen Mueller, Principal Economist at the University of Illinois at Chicago, is an ISCC Association Board Member
- Annual stakeholder meetings in the US since 2012

**ISCC trainings** (Basic Training, GHG Training, Waste and Residues)

**Participation in conferences and meetings**
- Sustainable Food Summit, Industry Forum of the Provision Coalition, Innovation Takes Root, Canadian Roundtable for Sustainable Crops, Walmart, Sustainability Consortium, and others
- Dialogue with CARB, NGOs (e.g. NRDC, TNC), etc.

**ISCC certification**
- 380+ ISCC certificates have been issued for companies in the US and Canada since 2010
ISCC is a multi-stakeholder initiative. It is governed by an association with almost 90 members. New members are welcome.
ISCC has opened a regional branch (ISCC North America) in the USA

**ISCC regional branch for North America**

- Last year ISCC has established ISCC North America LLC in San Francisco (CA)
- Importance of North American market in the future development of ISCC
- Contact point for rising number of clients in North America

**Contact:**
ISCC North America LLC
Waterfront Plaza, 1st floor
San Francisco (CA), 94111
ISCC certified companies in the USA and Canada. More than 380 ISCC certificates have been issued in the two countries so far.
Supply chain elements and materials covered by ISCC certification

| Biomass: | Corn, canola, soybean, sugar cane | Canola, soybean |
| Supply chain elements certified: | Country elevators (First Gathering Points), ethanol plants, ETBE plants, sugar mills, traders, storage | Country elevators (First Gathering Points), oil mills, biodiesel plants, traders, storage |
| Waste/residue materials: | UCO, organic municipal solid waste | UCO, organic municipal solid waste |
| Supply chain elements certified: | Collecting points, biodiesel, biogas, biomethane plants, traders, storage | Collecting points, biogas, biomethane plants, traders, storage |
ISCC is the leading certification system for waste and residues

Certificates covering waste/residues other than UCO 23%

Certificates covering waste/residues 39%

Certificates for non-waste biomass 61%

77% of ISCC certificates covering waste/residues are handling UCO

* Certificates may cover both waste/residue material and non-waste material
ISCC is participating as official delegate in the International Civil Aviation Organization (ICAO) on developing certification for bio-jetfuels.

Agreement on carbon neutral growth of aviation from 2020 onwards.
Depending on the type of feedstocks, ISCC requirements for feedstock origin and supply chain differ

<table>
<thead>
<tr>
<th>Agricultural feedstocks</th>
<th>Agricultural crop residues</th>
<th>Forestry feedstocks</th>
<th>Wastes/ processing residues</th>
<th>Renewable non-bio feedstocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybeans, sunflowers, rapeseed/canola, palm, sugar cane, sugar beet, grain</td>
<td>Straw, bagasse, nut shells, husks, cobs</td>
<td>Wood, wood chips, pellets</td>
<td>Used cooking oil, animal fat, landfill gas, municipal solid waste, tall oil</td>
<td>Power-to-x concepts, CO₂</td>
</tr>
</tbody>
</table>
ISCC stands for sustainable agriculture and forestry as well as for traceable supply chains and GHG calculation.

Protection of biodiversity
Preservation of carbon sinks
Good agricultural practices
Human and social rights
GHG emissions*

Traceability
Chain of Custody
GHG emissions*

*For ISCC PLUS GHG emissions requirements are voluntary
The ISCC requirements for agriculture and forestry cover environmental, social and economic issues

<table>
<thead>
<tr>
<th>PRINCIPLE 1</th>
<th>PRINCIPLE 2</th>
<th>PRINCIPLE 3</th>
</tr>
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<tbody>
<tr>
<td><strong>Zero deforestation</strong></td>
<td><strong>Good agricultural practice</strong></td>
<td><strong>Safe working conditions</strong></td>
</tr>
<tr>
<td>Protection of primary forests, high carbon stock areas, peat- and wetlands, protected areas and highly biodiverse areas</td>
<td>Agricultural and forestry production shall protect soil, water and air and ensure a sustainable use of land</td>
<td>Ensure workers health and safety during work. Improve competence and knowledge via training</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRINCIPLE 4</th>
<th>PRINCIPLE 5</th>
<th>PRINCIPLE 6</th>
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<tbody>
<tr>
<td><strong>Social conditions</strong></td>
<td><strong>Compliance with laws</strong></td>
<td><strong>Good management practices</strong></td>
</tr>
<tr>
<td>Ensure good labor conditions and limit impacts to surrounding communities</td>
<td>Comply with all regional and national laws and international treaties</td>
<td>Recording system and compliance of subcontractors</td>
</tr>
</tbody>
</table>
Principle 1: Biodiverse and carbon rich areas are protected under ISCC. Land use change after January 2008 is not allowed.
Site-specific ISCC certificates are issued by independent certification bodies upon successful audit. Traceability is guaranteed.

Each certified entity can source sustainable material from any other certified entity to build up certified supply chains.

* Voluntary individual certification possible
** Low Carbon Fuel Standard Reporting Party
Certification audits under ISCC – Example US corn ethanol producer

Certification requirements for country elevators:
- Verification of supply base (self-declarations, plausibility check of amount of supplied corn)
- Risk assessment of production areas (farms)
- Sample audits of farms
- Calculation of GHG emissions for corn
- Traceability and mass balance
- Management system

Certification requirements for processing and trader/storage
- Management system
- Traceability and mass balance: Verification of incoming/outgoing materials, plausibility checks (no “double-accounting”), correct handling and forwarding of information on incoming/outgoing sustainability declarations

Additional requirements for processing units:
- Determination of GHG emissions for internal production processes
- Verification of conversion factors and periodic production plans
Many thanks for your attention!