



## ICAO SEMINAR ON ALTERNATIVE FUELS 2017 ICAO Headquarters, Montréal 8-9 February 2017





# **Practical Certification** Experiences Matthew Rudolf, SCS Global Stamped: Certification and Sustainability of Aviation Alternative Fuels





## What is a Certification Body (CB)?

- Independent verifiers for standards
- Auditors placed around the world trained to audit to different standards.
- CBs are accredited to offer certain standards.
  - Internal control systems ensure audit quality
  - External accreditation/oversight ensures integrity across CBs









## **Audit Preparation**

- Companies may take from 2 months to 2 years to prepare for an audit, often longer for agricultural producers than industrial.
- Identify the "Certification Scope"
- Identify the scheme and standard version
- Internal Audit Preparation
  - Conduct internal reviews against the criteria
  - Prepare documentation for auditors (checklists available)
  - Internal trainings to educate staff on the standards





#### **Audit Process**

- 1. Document Review Conducted prior to audit
- 2. Audit Plan Sent What auditor will check and sites to visit.
- 3. Site Visit Sample of farms ( $\sqrt{}$ ) and all industrial facilities.
- 4. Findings delivered to client at audit conclusion no surprises!
- 5. Report sent to CB for technical review, then delivered to client
- 6. Major non-conformities (NCs) closed, plan for closing minors
- 7. Certification approved after all major NCs are closed

Typical timeframe from audit start to finish is 1.5 - 6 months. Be prepared! Sometimes closing NCs can drag on for a long time.











#### **General Characteristics**

|      | Feedstocks  | Primary Driver(s)                        | Auditing and Risk Approach   | Scope & Structure   |
|------|---|--|--|---|
| RSB  | Multifeedstock, Focus on new and novel technologies | - Aviation sector<br>- Int'l Development | Classified low/med/high Main audits 2/3/5 years (annual surveillance) Low & Med = Sq root High = Sq root x 2 | <ul> <li>Major NC</li> <li>Non-conformity</li> <li>Progress Reqs.</li> </ul> Sustainability applies to agriculture & processing |
| ISCC | Multi-feedstock                                     | - Renewable Energy<br>Directive (EU RED) | List of factors, auditor decides Annual Audits Regular / Medium / High Factors: x1.0 / x1.5 / x2.0           | <ul><li>Major Musts</li><li>Minor Musts</li><li>Farm sustainability requirements, GHG</li></ul>                                 |
| RSPO | Palm  | - Edible food markets                    | Not a risk-based approach<br>Annual surveillance audits,<br>certificates valid for 5 years                   | <ul> <li>Major Indicators<br/>closed to certify</li> <li>CPO Mill and<br/>Plantations in Scope</li> </ul>                       |





## Common Certification Challenges

- Rushing due to immediate customer demand
  - Leave time! Ensure all criteria are carefully considered, and documentation is available.
- 2. Data collection from farmers / 3<sup>rd</sup> parties outside your control
  - Use standardized checklists and provide support to data collection efforts.
- 3. Traceability of Commodities
  - Mass Balance helps a lot! Full traceability of commodities is a challenge.
- 4. Ignoring parts of the standard that seem less important
  - Auditors check everything to rigid checklists. Minor issues can be missed.
     Consider a pre-assessment to identify potential areas that need attention!











# If you had the chance to make 3 policy requests to States to facilitate the development and deployment of alternative fuels, what would they be?

- 1. Provide long-term, price floor guarantees for alternative fuel incentive programs to stimulate investment.
- Analyze low-value biomass available in your region, and plan accordingly for reasonable growth. Incorporate sustainability into the plan.
- 3. Prioritize high priority transport means that cannot be easily electrified (e.g. shipping, aviation, etc...)









## Thank you!

Matthew Rudolf
Manager, Biofuels and Bio-Products
SCS Global Services

mrudolf@scsglobalservices.com

+1.919.533.4886 direct

