



The Roundtable on Sustainable Biofuels

3rd Party Verified Sustainability Certification

Peter Ryus

August 1, 2012

Sustainability

- The most popular definition of sustainability can be traced to a 1987 UN conference. It defined sustainable developments as those that "meet present needs without compromising the ability of future generations to meet their needs"(WECD, 1987)
- "Sustainable means using methods, systems and materials that won't deplete resources or harm natural cycles" (Rosenbaum, 1993).
- Sustainability "identifies a concept and attitude in development that looks at a site's natural land, water, and energy resources as integral aspects of the development". (Vieira,1993)

Limitations of a Closed System

- The planet as a closed system
 - Resources that are finite
 - Infinite and Renewable
 - Population stress
 - Land use and displacement
- Sustainability is not just about GHG and climate change alone
 - Quality of life and in some cases survival
 - Allocation, usage and accountability

Who's Impacted?

All industries, nations, and creatures large and small

- Agriculture and marine resources – food production
- Extractive Industries and Energy Production
- Manufacturing – production of goods and services
- Waste and Water management
- Air Quality
- Ecosystems - The world's wild and not so wild spaces
- Human consumption and lifestyle choices

Biofuel Development – the Drivers

Global North

- Climate Change – Reduce GHG emissions
- Secure energy supply (less reliance on unstable energy sources)
- Economic development and job creation

Global South

- Market opportunity and source of foreign exchange
- Job growth and promise of economic development

The Challenges – Unintended Consequences

Some concerns that have been expressed about biomass/biofuels

- **Food security** – displacement of **land** that would otherwise be used for **food production**
- **Deforestation**
- **GHG balance**: net positive or net negative?
Carbon payback
- **Water** use
- **Pollution** of air, water and soil
- **Social** welfare issues, **land rights** issues, **worker's rights**



© Roundtable on Sustainable Biofuels



© Sébastien Haye/Terre des Hommes Suisse

Biofuel Production

Direct impacts

Within the control of the operator

- Food security: direct local impacts, « food vs. fuel »
- Lifecycle GHG emissions
- Direct Land use change
 - Deforestation, biodiversity loss
- Conservation & biodiversity
- Pollution



Indirect impacts

Global, market-driven, outside the boundary of operator control

- Indirect land use change
 - Deforestation, biodiversity loss
- Impacts on commodity markets, food/feed prices and food security

Regulatory Environment

- Regulation, Mandates and Carrots
 - EU Renewable Energy Directive (RED) 2009
 - First market wide sustainability standards
 - Voluntary scheme approval
 - 3rd party verification and certification
 - Certification required for quota credit (Defacto Market Access barrier)
- Quotas and Incentives
 - US RFS and RFS2 (2005, 2007)
 - Pathways and Volume Blending requirements
 - LCA GHG thresholds
 - Tax credits & incentives, RIN eligibility and Trading System

Why Certification is important

Is it a ticket for market entry?

Or, does voluntary certification serve a higher purpose?

- Regulation can only be part of the answer
- Voluntary certification schemes play an important role
- Certification which uses 3rd party verification ensures not only credibility but also accountability

More than a ticket

- Certification contributes to strong business practices
 - You can't manage what you don't measure
 - Effective management systems and a strong understanding of your business practices enables businesses to effectively measure performance.
 - Measuring and monitoring the sources and deployment of business resources leads to more efficiency
 - Awareness of social and environmental impacts leads to stronger and healthier communities

A healthier environment, strong communities and secure supply chains lead to stronger businesses.



About the RSB

- Founded in 2007 as a multi-stakeholder initiative to develop sustainability criteria for bioenergy – Based in Lausanne, Switzerland hosted by the Swiss Federal Institute of Technology (EPFL)
- Over 120 organizations in 30 countries including members of the public, private and non-profit sectors.
- Objective to examine sustainability issues facing biofuels, and promote best practices to mitigate negative impacts, and incent positive ones.
- Resulted in the 12 Principles and Criteria that form the core of the Standard.
- The RSB Standard was among the first recognized voluntary certification schemes under European Energy Directive (RED)



The RSB Services Foundation

Mission:

To provide a framework and organization to facilitate the global adoption of the RSB standard including the certification process and oversight of licensing and use of the trademark.

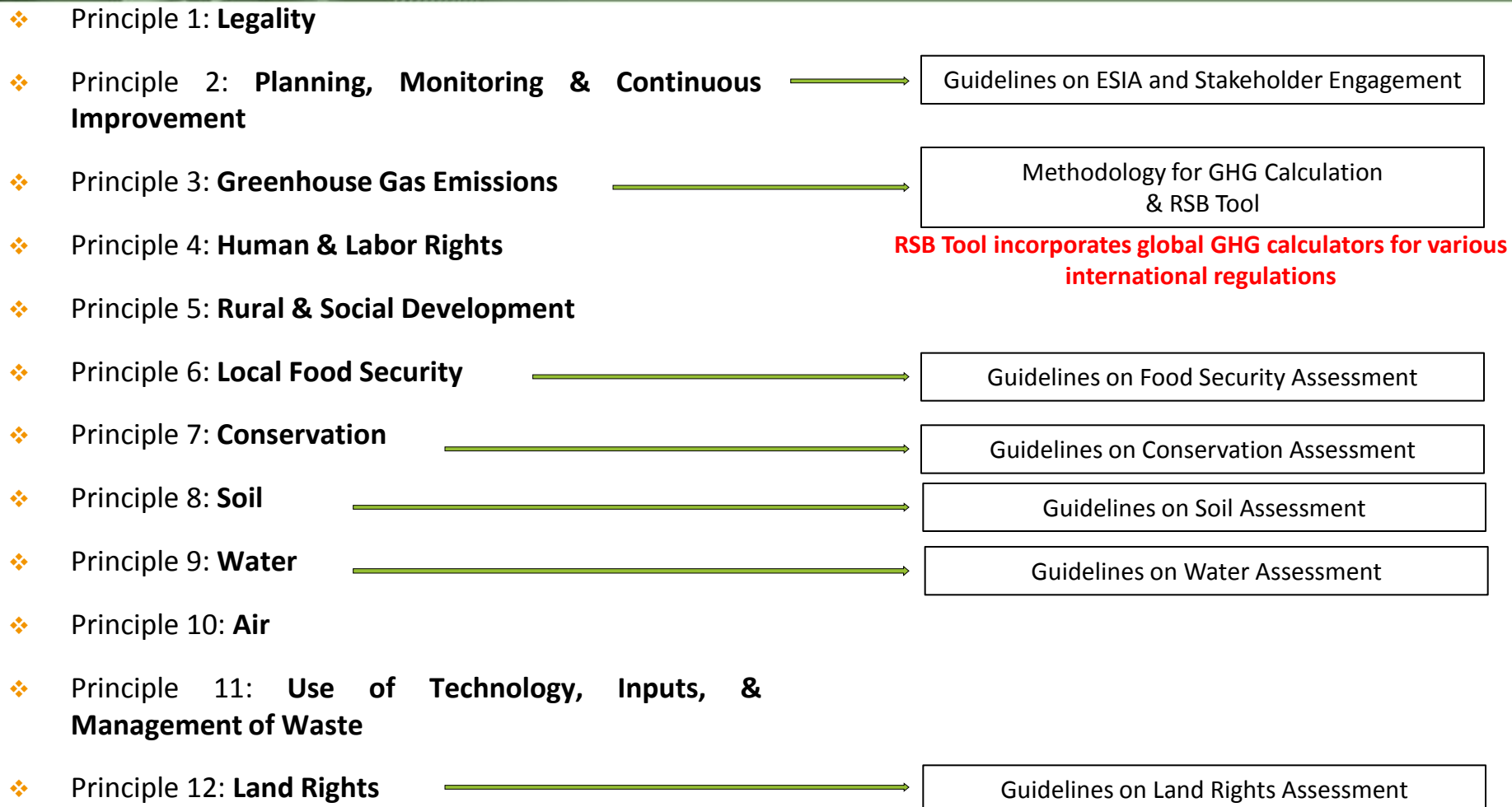
- Non-profit 501(C)3 formed October 2011
- Launched in January 2012
- Location: McLean, VA
- Staff based in the USA, Europe and Asia

The Core Principles

- Three-legged stool of sustainability – people, planet, performance
- Twelve “Principles”
- Social and environmental accountability
- Economic viability for the operator
- Tools to better understand and run their business.

People	Planet	Performance
Socially responsible business practices	Climate change mitigation	Improved efficiency and productivity
Fair wages, safe working conditions	Water & soil conservation	Good practices for long term viability
Land rights, local food security	Responsible waste management	Continuous improvement

RSB P&C's and Supporting Practical Tools



Ensuring Sustainability

The RSB System:

1. Screen for impacts – engage stakeholders & experts
 2. Mitigate / Improve
 3. Continuous improvement
 4. Traceability and chain of custody tracking
 - Product segregation
 - Mass balance Accounting
 - Identity preserved
 5. Tools and support
- Addresses **Direct Impacts** within the boundary & control of the operator

Active Certifications

- Upcoming US Certifications
 - Three UCO biodiesel plants, a R-Diesel/biojet plant, a cellulosic ethanol plant, a canola-based biodiesel plant and a fuel distributor.
- North and South America
 - Rolling out a Canadian canola adaptation in July 2012
 - Two Jatropha plantations in Latin America
 - Sugarcane ethanol plant in South America
- First Certification issued in January 2012 to a wheat residue ethanol plant in AU.
- Why are they doing it?
 - PR opportunity with environmental community
 - California grant gave credit for it
 - Market Access
 - Strong relationships with aviation biofuels stakeholders and US military



Value of RSB Certification

- Demonstrates sustainability issues are proactively addressed.
- Suggestive of a **positive corporate culture**.
- Inoculation against regulatory risk.
- Endorsement from environmental groups **mitigates reputational risks**, and **improves shareholder credibility**.
- Strong support from the **aviation sector** and **US military**





Contact Information

RSB Services Foundation - US

Suite 600, 1420 Spring Hill Road
McLean VA 22102

Email: info@rsbservices.org

www.rsbservices.org / www.rsb.org