ONLINE WEBINAR - 7/12 at 10:30 AM

Certification schemes for energy crops and good practices from the field

BIKE

ENI –Biofuels certification in Kenya

RINA

Certificate
according to the
Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-IT206-1381

RINA Services S.p.A.
Via Corsica, 12 16128 Genova ITALY
certifies that

ENI KENYA B.V.

KINA KATHOKA, WOTE, MAKUENI 90193 Nairobi KENYA

complies with the requirements of the certification system
ISCC-EU
(International Sustainability and Carbon Certification)
and the requirements of the RED II.

This certificate is valid from 30.06.2022 to 29.06.2023

The site of the system user is certified as:
Trader with storage
Oil Mill

Laura Severino
Climate Neutrality & Chain of Custody
Sustainability Strategic Centre, Head

Genova, 30.06.2022
Place and date of issue

Stamp, Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document
Version / Date: 2 / 05.07.2022

RINA

Certificate
according to the
Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-IT206-1382

RINA Services S.p.A.
Via Corsica, 12 16128 Genova ITALY
certifies that

Servizi Agricoli Forestali Africa Ltd

Marula, Naivasha, PO Box: 508 1, 508-20117 Naiuru District, 508-20117 Naiuru KENYA

complies with the requirements of the certification system
ISCC-EU
(International Sustainability and Carbon Certification)
and the requirements of the RED II.

This certificate is valid from 30.06.2022 to 29.06.2023

The site of the system user is certified as:
First Gathering Point

Laura Severino
Sustainability Compliance & New
Scheme Development Coordination, Head

Genova, 30.06.2022
Place and date of issue

Stamp, Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document
Version / Date: 1 (no adjustments) / 30.06.2022

RINA

Certificate
according to the
Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-IT206-1379

RINA Services S.p.A.
Via Corsica, 12 16128 Genova ITALY
certifies that

TOSHEKA TEXTILES LIMITED

Road to Natu - 90300 Wote 90300 Nairobi KENYA

complies with the requirements of the certification system
ISCC-EU
(International Sustainability and Carbon Certification)
and the requirements of the RED II.

This certificate is valid from 30.06.2022 to 29.06.2023

The site of the system user is certified as:
First gathering point

Laura Severino
Sustainability Compliance & New
Scheme Development Coordination, Head

Genova, 30.06.2022
Place and date of issue

Stamp, Signature of issuing party

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RINA

Certificate
according to the
Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-IT206-1380

RINA Services S.p.A.
Via Corsica, 12 16128 Genova ITALY
certifies that

Zayn Agro Indutries Limited

Nzambani Road, Kitui, 90200 Nairobi KENYA

complies with the requirements of the certification system
ISCC-EU
(International Sustainability and Carbon Certification)
and the requirements of the RED II.

This certificate is valid from 30.06.2022 to 29.06.2023

The site of the system user is certified as:
First Gathering Point
Oil Mill

Laura Severino
Climate Neutrality & Chain of Custody
Sustainability Strategic Centre, Head

Genova, 30.06.2022
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Castor and Croton

- Worlds first certificates for Castor and Croton value chains under ISCC EU

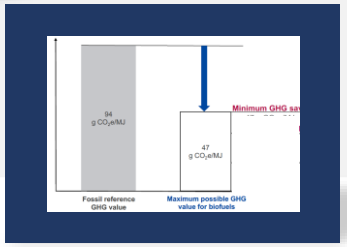
Cotton

- First ISCC certificate for Cotton in Africa
- Cotton Lint also certified under ISCC PLUS

Food Waste

- Waste product from nuts processing
- New feedstock for ENI

GHG Saving

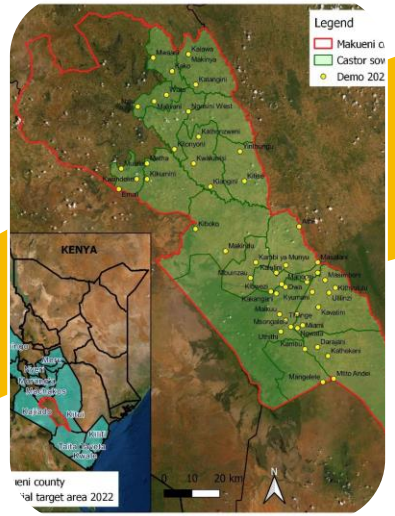


- >60% GHG minimum saving for each value chain
- Compatible with all Eni bio-refineries

Agri-feedstock project in Kenya

Context:
Kenya project

Location: multiple Counties, starting from Makueni



- Arid and semi-arid zone
- Annual rainfall between 800 and 500 mm
- Frequent droughts
- Government Priority areas

Crop: Castor

- Drought-resistant
- Additional source of income for farmers

Agrihub

- Aggregation and processing
- Provision of services and inputs

Testing Low ILUC-risk certification

ISCC Low ILUC-risk Pilot Audits

BIKE

Why Low ILUC?

WHEN: June 2022
WHERE: Makueni and Baringo wards
OBJECTIVE: test Low ILUC risk audit procedures for cultivation of castor in Arid and Semiarid regions
WHAT: 3 scenarios of additionality

ADDITTIONALITY: YIELD INCREASE

intercropping Castor with food crops

-Castor planted on terraces (elevation curves): no land for food cultivation
-wind and water erosion may also be reduced improving SOC content

ADDITIONALLITY: DEGRADED LAND

Castor monocropping

-Cultivation on arid land with low food production potential
-Low soil organic content: <1%
-high to very high erosion risk

INTEGRATED CARBON FARMING MODEL

Castor crop with organic soil conditioner

-Biochar: soil carbon accumulation

-improvement of soil fertility to increase yields

Key Findings and suggestions

	Points of Attention	Way forward
Yield increase	• PROVING ADDITIONALITY OF BIOMASS PRODUCTION	• Digital farm management and traceability tools • Data from local authorities on crop yield slope
Degraded land	• SOIL SAMPLING	• Remote sensing • Data from local authorities • Soil samples only as validation for remote sensing
Biochar application	• SOIL SAMPLING • CARBON ACCUMULATION	• Existing models (e.g. from literature) • Remote sensing • Soil samples limited for validation

ENI Approach to certification

Institutional sources and referenced databases

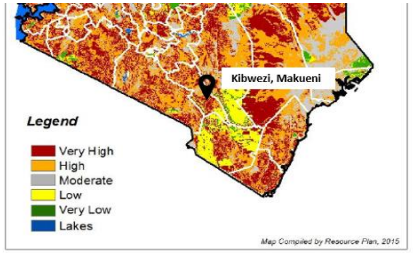
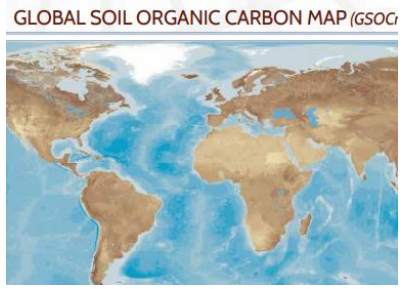


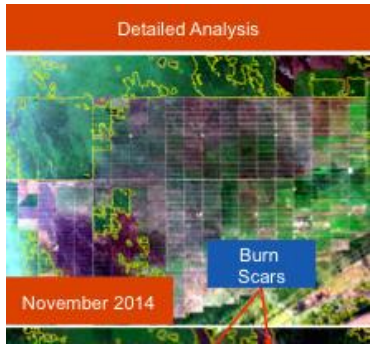
Figure 4.6 Severity of erosion risk in Kenya based on RS/GIS mapping

Kenyan ministry of Environment and Natural Resources Specific counties classified as highly degraded area

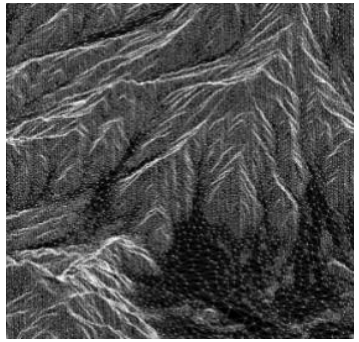


FAO – Global Soil Organic Carbon Map SOC levels estimated <1% by overlapping field shape file with GSOC MAP

Remote sensing



GRAS risk Management tool Land Cover, Land Use change, carbon stock and biodiversity tool to assess RED II requirements



Multispectral cameras and drones Soil organic Content and erosion levels can be accurately assessed remotely

Digital Traceability

Reduced Paperwork and data loss

Automated reporting and forwarding of sustainability characteristics

Ensured traceability and chain of custody From origin to final user