



Mejoras en el sistema de certificación BIOMASUD para biocombustibles mediterráneos

28 Septiembre 2017

REVISIÓN DE LOS CRITERIOS DE SOSTENIBILIDAD SISTEMA BIOMASUD

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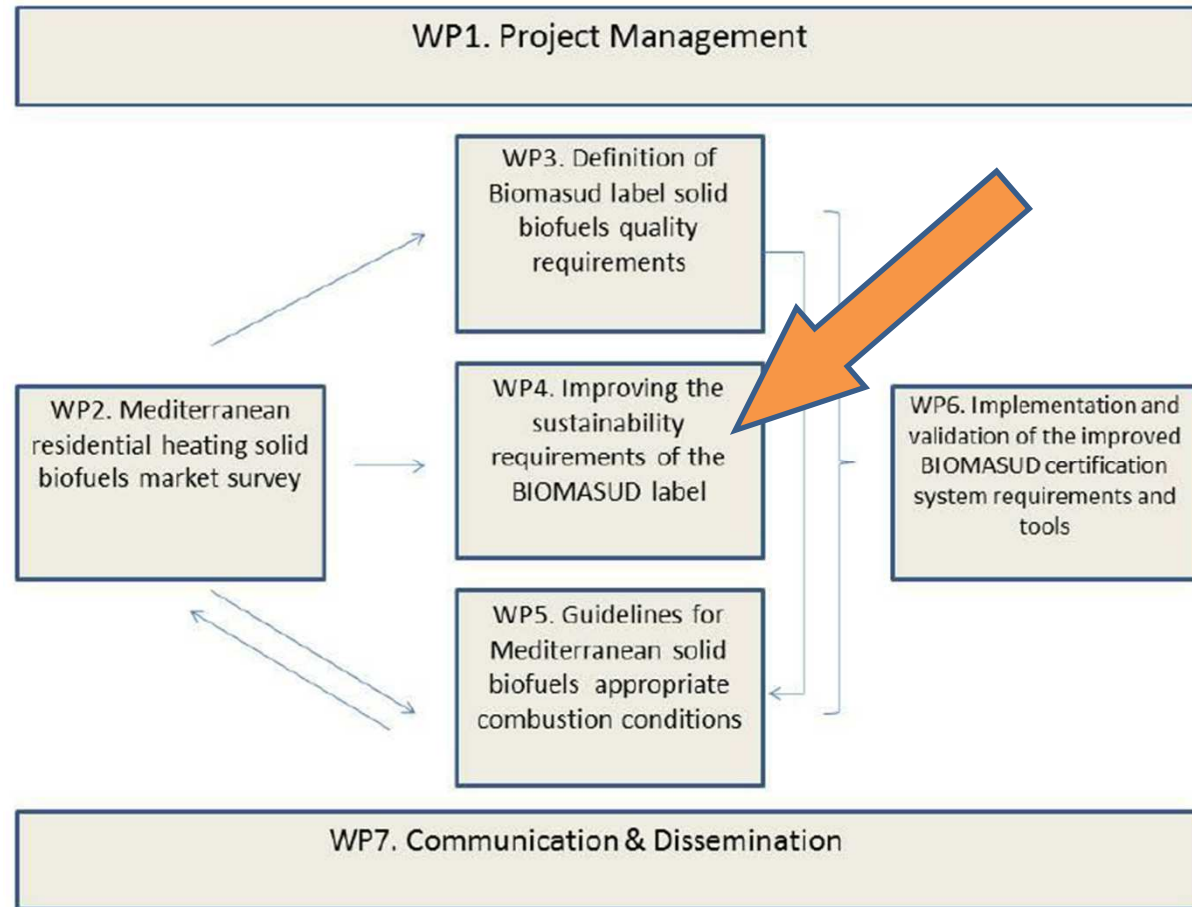


This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No. 691763



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WP 4: REVISIÓN CRITERIOS DE SOSTENIBILIDAD



WP 4: DESCRIPCIÓN WP4 y TASK

Task 4.1

- **Estudio de otros Sistemas y sus criterios de Sostenibilidad:**
 - World Bioenergy Association (WBA) scheme or
 - Sustainable Biomass Partnership (SBP)
 - Otros sistemas privados o Públicos (UK, Holanda), etc.
- **Revisar el Borrador de Directiva** relativo a los requerimientos de sostenibilidad para Biofuels Solidos y estudiar la idoneidad de incorporar algunos o todos ellos.
- Evaluación de los criterios de sostenibilidad contemplados en el Sistema de certificación BIOMASUD. **GEI y Balance de Energía.**
- **Definición de nuevos criterios de sostenibilidad**, aplicables al conjunto de biomasas del **área mediterránea** con potencial **uso a nivel doméstico.**

WP 4: DESCRIPCIÓN WP4 y TASK

Task 4.2

- Revisión de la metodología de Cálculo:

1. Reducción de GEI. >70%
2. Demanda de Energía. Energía utilizada < 40% energía contenida

Task 4.3

- Desarrollo de la Plataforma **BIOMASUD** para cálculo online de G.E.I. y D.E.

WP 4: DESCRIPCIÓN WP4 y TASK

PLAN DE TRABAJO

WP 4	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18
TASK 4.1 Review of Sustainability Criteria	█	█	█	█	█	█	█	█	▒	▒	▒	▒	▒	▒	▒	▒	▒	▒
TASK 4.2 GHG and Energy balance calculation methodology			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
TASK 4.3 Development of BIOMASUD platform													█	█	█	█	█	█



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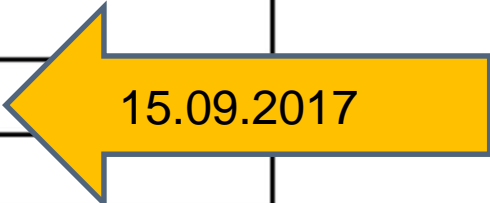
TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

- **PASOS:**

- **Revisión** de criterios de sostenibilidad de otros sistemas y mecanismos de control públicos.
- Creación de un **Grupo de Expertos**.
- Primer borrador acordado por los socios. **Criterios de sostenibilidad (WD 1)**
- Revisión WD1 de Criterios de Sostenibilidad por el **Grupo de Expertos**.
- **Focus Group** por país, para realizar la consulta a stakeholders
- **Análisis** de propuestas Grupo de Expertos y Focus Group.
- Publicación **INFORME FINAL** - Criterios de Sostenibilidad

TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

Grant Agreement N°	691763	Acronym	BIOMASUD PLUS
Full Title	Developing the sustainable market of residential Mediterranean solid		
Work Package (WP)	Work Package 4		
Authors	Marta Salvador (PEFC); Arantza P. Oleaga (PEFC)		
Document Type	Deliverable 4.1 – FINAL REPORT		
Document Title	Review of the Sustainability Criteria		
	CO	Confidential, for members of the Consortium (including the Commission Services) only	
	PU	Public	X
	PP	Restricted to other programme participants (including the Commission Services)	
	RE	Restricted to a group specified by the Consortium (including the Commission Services)	



TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

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TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

2.2 Creación del Grupo of Expertos

Nominado por (Socio)

AIEL - ITALY

AVEBIOM-PEFC-SPAIN

AVEBIOM-PEFC-SPAIN

CBE - PORTUGAL

CERTH - GREECE

GIS - SLOVENIA

GIS - SLOVENIA

TUBITAK - TURKEY

TUBITAK - TURKEY

ZEZ- CROATIA

ZEZ- CROATIA

Miembros Grupo Expertos

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TASK 4.1: REVIEW OF THE SUSTAINABILITY CRITERIA

FOCUS GROUPS – Reuniones de revisión de la propuesta de Criterios de Sostenibilidad

TIMELINE 2017

- ✓ **Spain** – 8th of February
- ✓ **Croatia** – 9th of February
- ✓ **Turkey** – 27th of February
- ✓ **Slovenia** – 1st of March
- ✓ **Portugal** – 21st of March
- ✓ **Italy** – 25th of March
- ✓ **Greece** – 7th of April



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TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

2.3 Desarrollo Criterios Sostenibilidad

Los principales factores identificados son:

- **Materia prima:** variedad de materias primas y su origen
- **Uso:** Domestico. Pequeñas instalaciones
- **Tipo de productores:** Pequeñas y medianas empresas
- **Alcance geográfico:** Mediterráneo
- **Alcance Geo-politico:** EU y no-EU



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TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

2.3.1 Definición de Categorías de Biomasa

Nº	Biomass Categories	Definition	i.e. Materials
1	Woody biomass from forest and other wooded land management.	Roundwood, Tops, branches, stumps or root systems, trees and primary felling residues sourced directly from forest or other wooded land.	Wood, bark, shrubs
2	Woody biomass from Urban or Agricultural areas	Roundwood, Tops, branches and trees produced during the course of managing urban areas or agricultural areas. (Trees outside the forest - TOF)	Wood (urban round wood, olive tree prunings, vineyard prunings.), bark
3	Non Wood agricultural residues	Residues directly from agricultural areas. Short rotation crops are excluded, with the exception of the residues hereof.	Green plants, stalks, straws.
4	Secondary and tertiary agro-forestry materials	Waste flows and residues from agri-food and wood industry (secondary residual waste) and tertiary residual waste such as post-consumer wood waste.	Pine nut and almond shells, pine cones, Corncobs, olive stones, pich pits.

Source: Authors

TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

2.3.2 Selección Principios de Sostenibilidad

b) Selección de Principios de Sostenibilidad

- Principio 1: Gases Efecto Invernadero (GEI o GHG)
- Principio 2: Balance de Energía



- Principio 3: Prevención de prácticas de tala ilegal - EUTR
- Principio 4: Gestión Sostenible



- Principio 5: Carbono
- Principio 6: Uso del suelo– Low ILUC risk

TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

Table 3 Sustainability Principles that apply to the defined Biomass Categories

BIOMASUD PLUS Biomass Categories	SUSTAINABILITY PRINCIPLES					
	GHG Principle	ENERGY DEMAND Principle	LEGAL LOGIN Principle	SUSTAINABLE MANAGEMENT Principle	CARBON STOCK Principle	LAND USE Principle (Low ILUC risk)
Woody biomass from forest management and other wooded land	Yes	Yes	Yes	Yes (SFM)	Yes (SFM)**	Yes (SFM)**
Woody biomass from Urban or Agricultural areas	Yes	Yes	No*	Yes (soil quality)	Pilot experiences	Pilot experiences
Non Wood agricultural residues	Yes	Yes	n/a	Yes (soil quality)	n/a	n/a
Secondary and tertiary agro-forestry residues	Yes	Yes	n/a	n/a	n/a	n/a
	TASK 4.2 Review		TASK 4.1			
<p>Source: Authors</p> <p>*EUTR refers to timber. Due to immature implementation of this Regulation in the case of timber coming from urban forest and agricultural land, in the scope of the BIOMASUD Scheme is considered that this EUTR Criterion only refers to timber coming from Forest. In a future development of the scheme could be necessary to revise this approach</p> <p>**No specific Criteria developed for forest and other wooded land since this principles are already covered and developed by FOREST EUROPE Sustainable Criteria and Indicators, which are included in SFM certification schemes</p>						

TASK 4.1: REVISIÓN DE CRITERIOS DE SOSTENIBILIDAD

SUMMARY OF PRINCIPLES AND APPLICABLE CRITERIA

PRINCIPLES	Criteria	INDICATORS	CATEGORIES			
			C1	C2	C3	C4
			Woody biomass from forest and other wooded land management	Woody biomass from Urban or Agricultural areas.	Non Wood agricultural residues.	Secondary and tertiary agro-forestry materials.
LEGAL LOGIN Principle	C3.3. Guarantee legal practices for woody biomass from urban or agricultural areas.	I3.3.1 A harvest permit, an urban forest area maintenance permit or similar order issued for local authorities is in force. Woody biomass management plan in agricultural areas.	n/a	YES	n/a	n/a
SFM Principle	C4.1 Sustainable Forest Management (SFM)	I4.1.1 A recognized PEFC, FSC or equivalent Forest Management certificate is in force	Yes	n/a	n/a	n/a
CARBON STOCK Principle	C5.1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution to Global Carbon Cycles.	I5.1.1: Forest area. Area of forest and other wooded land, classified by forest type I5.1.2: Forest carbon. Carbon stock and carbon stock changes in forest biomass, forest soils and in harvested wood products.	Yes (SFM)	n/a	n/a	n/a

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SUMMARY OF PRINCIPLES AND APPLICABLE CRITERIA

PRINCIPLES	Criteria	INDICATORS	CATEGORIES			
			C1	C2	C3	C4
			Woody biomass from forest and other wooded land management	Woody biomass from Urban or Agricultural areas.	Non Wood agricultural residues.	Secondary and tertiary agro-forestry materials.
CARBON STOCK Principle	C5.2: Production of biomass does not destroy carbon sinks such as peatlands or wetlands	<p>15.2.1: Land sourcing biomass was not classified as peatland on 1 January 2008, unless it can be demonstrated that the production and harvesting of the biomass does not result in water depletion of a formerly undrained soil.</p> <p>15.2.2: Land sourcing biomass was not classified as wetland on 1 January 2008, unless it can be demonstrated that the production and harvesting of the biomass does not result in water depletion of a formerly undrained soil.</p>	YES (SFM)	YES	n/a	n/a
LAND USE Principle	C6.1: Conversion of forests to other types of land use, including conversion of primary forests to forest plantations, shall not occur.	Indicator 6.1.1: On average less than half the volume of the annual roundwood harvest from forests is processed as biomass for energy generation. This indicator is only applicable to category 1.	YES (SFM)	PILOT EXPERIENCES	n/a	n/a

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SUMMARY OF PRINCIPLES AND APPLICABLE CRITERIA

PRINCIPLES	Criteria	INDICATORS	CATEGORIES			
			C1	C2	C3	C4
			Woody biomass from forest and other wooded land management	Woody biomass from Urban or Agricultural areas.	Non Wood agricultural residues.	Secondary and tertiary agro-forestry materials.
LAND USE Principle	C6.2: Biomass sourced from new bioenergy plantation systems that were planted after 1 January 2008 must have a demonstrably low ILUC risk.	<p>I6.1.1: Low ILUC risks has been calculated using the LIIB methodology and requirements (LIIB = Low Indirect Impact Biofuels) or an equivalent method and a valid certificate is in force.</p> <p>I6.1.2: A low ILUC risk monitoring plan is in force with a target timeline of at least 6 years. The plan shall be evaluated every 2 years in order to assess if low ILUC risk objectives are met.</p>	Yes (SFM)	PILOT EXPERIENCES	n/a	n/a
LAND USE Principle	C6.3 The conversion of abandoned agricultural and treeless land into forest land is taken into consideration, whenever it can add economic, ecological, social and/or cultural value.	<p>I6.3.1: A low ILUC risk monitoring plan is in force with a target timeline of at least 6 years, including the economic assessment of the addition of more than 3-year-non-used lands as a tool to reduce carbon risk.</p>	PILOT EXPERIENCES	PILOT EXPERIENCES	n/a	n/a



Gracias por tu atención

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