

HORIZON
2020

Innovative Large-Scale Production of Affordable Clean Burning Solid Biofuel and Water in Southern Africa: transforming bush encroachment from a problem into a secure and sustainable energy source

Resultados

Información del proyecto

SteamBioAfrica

Identificador del acuerdo de subvención:
101036401

[Sitio web del proyecto](#)

DOI

[10.3030/101036401](https://doi.org/10.3030/101036401)

Proyecto cerrado

Fecha de la firma de la CE

6 Septiembre 2021

Fecha de inicio

1 Septiembre 2021

Fecha de finalización

31 Agosto 2024

Financiado con arreglo a

SOCIETAL CHALLENGES - Secure, clean and efficient energy

Coste total

€ 11 725 328,75

Aportación de la UE

€ 9 937 771,26

Coordinado por

AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS



Spain

CORDIS proporciona enlaces a los documentos públicos y las publicaciones de los proyectos de los programas marco HORIZONTE.

Los enlaces a los documentos y las publicaciones de los proyectos del Séptimo Programa Marco, así como los enlaces a algunos tipos de resultados específicos, como conjuntos de datos y «software», se obtienen dinámicamente de [OpenAIRE](#) .

Resultado final

Demonstrators, pilots, prototypes (1)

[Demonstration of Integrated SHS Plant Operation](#)

Operate integrated SHS plant at CCF. Process a minimum of two different biomass materials from each of Namibia, South Africa, and Botswana. Each material processed for at least 96 hours. Aim: Produce over 500 tonnes of solid biofuel

Documents, reports (3)

[Consumer feedback report covering household consumers and industrial consumers](#)

Undertake stakeholder workshops. Workshops to provide an understanding of potential market barriers and potential opportunities for use of solid biofuel from the SHS process in the domestic consumer markets. Aim: To produce strategies that can be deployed post project in commercial sales.

[Final Communications Report](#)

To ensure effective communication of the project to both targeted audiences and to the wider public. To ensure recognition of EU Horizon 2020 funding support for this project is clearly displayed. Aim: To provide a record of targeted communication activities undertaken during the project.

[Baseline report and analysis on local market and consumer profiles](#)

To carry out baseline surveys with consumer groups in Botswana Namibia and South Africa The surveys will collect social and economic information regarding biofuel use Aim To provide a baseline analysis of energy consumption To create an understanding of consumer sectors and preferences

Websites, patent fillings, videos etc. (1)

[Project Web Site](#)

To design and set up a project specific web site Clearly identify on web site the EU support received and the identities of all partners To host and actively manage the web site for the duration of the project and for a minimum of three years post project Aim To enable high visibility of the project and help create new contacts

Publicaciones

Conference proceedings (2)

[Relating bush encroachment density of savanna soils in the Kalahari district in Botswana to soil organic matter stocks and quality](#) 

Autores: José María García de Castro Barragán, Nnyaladzi Batisani, Flora Pule-Meulenberg, Lawrence Akanyang, José María de la Rosa Arranz, M. Rocio Reinoso Limones, and Heike Knicker

Publicado en: Abstract Book of EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, 2024

Editor: EGU

DOI: 10.5194/egusphere-egu24-588

[Controlled bush harvesting as a means for restoring soil of encroached savannahs in Southern Africa](#) 

Autores: García de Castro Barragán, J. M., Shipingana, D., de la Rosa, J. M., Brewer, B., Marker, L. L., Parry, H., and Knicker, H.:

Publicado en: Abstract Book EGU General Assembly 2023, Austria, 23-28 Apr 2023, 2023, Página(s) Abstract EGU23-285

Editor: EGU

DOI: 10.5194/egusphere-egu23-285

Conjuntos de datos

Conjuntos de datos vía OpenAIRE (5)



[Dataset generated in WP8](#) 

Autores: Blanco-Velázquez, Francisco José

Publicado en: SteamBioAfrica

[Strategic logistic model for Steam Bio Africa](#)

Autores: Westlund, Karin; Engberg Sundström, Lovisa

Publicado en: SteamBioAfrica

[Mapping the potential habitat suitability, and opportunities of bush encroacher species in Southern Africa: a case study of the SteamBioAfrica project.](#)

Autores: Bravo García, Javier; Blanco Velazquez, Francisco José; Camarillo Naranjo, Juan Manuel; González Peñaloza, Félix Ángel; Anaya Romero, María

Publicado en: SteamBioAfrica

[Dataset generated in WP8](#)

Autores: Blanco-Velázquez, Francisco José

Publicado en: SteamBioAfrica

[Mapping the potential habitat suitability, and opportunities of bush encroacher species in Southern Africa: a case study of the SteamBioAfrica project.](#)

Autores: Bravo García, Javier; Blanco Velazquez, Francisco José; Camarillo Naranjo, Juan Manuel; González Peñaloza, Félix Ángel; Anaya Romero, María

Publicado en: SteamBioAfrica

Software

Software a través de OpenAIRE (2)



[Geospatial tool SBA V1.0.0](#)

Autores: Blanco-Velázquez, Francisco José

Editor: SteamBioAfrica

DOI: 10.5281/zenodo.13616986; oai:zenodo.org:13616986

[Geospatial tool SBA V1.0.0](#)

Autores: Blanco-Velázquez, Francisco José

Editor: SteamBioAfrica

DOI: 10.5281/zenodo.13616986; 10.5281/zenodo.13616985

Otros productos de investigación

[Strategic logistic model for Steam Bio Africa](#) 

Autores: Westlund, Karin; Engberg Sundström, Lovisa

Publicado en: SteamBioAfrica

[Controlled bush harvesting as a means for restoring soil of encroached savannahs in Southern Africa](#)



Autores: García de Castro Barragán, José María; Shipingana, David; de la Rosa, José M.; Brewer, Bruce; Marker, Laurie L.; Parry, Huw; Knicker, Heike

[Relating bush encroachment density of savanna soils in the Kalahari district in Botswana to soil organic matter stocks and quality.](#) 

Autores: García de Castro Barragán, José María; Batisani, Nnyaladzi; Pule-Meulenberg, Flora; Akanyang, Lawrence; de la Rosa Arranz, José María; Reinoso Limones, M. Rocio; Knicker, Heike

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Permalink: <https://cordis.europa.eu/project/id/101036401/results/es>

European Union, 2025