

Retort for the production of barbecue charcoal and biochar from local waste wood



Olis coal

Barbecue charcoal often reaches consumers via long transportation routes and from dubious sources. Locally produced charcoal from scrap sawmill or landscape wood would be much more ecological. A small retort with a capacity of 1m³ of wood and complete exclusion of oxygen can be used to convert local wood into high-quality charcoal. For this purpose, wood cuttings from a local sawmill or poor quality hardwood are manually fed into the retort and converted into coal of the highest quality over 4 - 8 hours. This can generate additional income on a forestry operation or a part-time farm and also reduce the burden on the environment. The waste heat can be used via a heat exchanger to heat living space or for drying processes, e.g. in the timber industry.

In 2018, Oliver Reinhard, a young forest science student, discovered that most barbecue charcoal bought in Switzerland comes from faraway countries such as Poland or Namibia.

The sources are often obscure and the quality inferior, meaning that a lot of smoke and harmful exhaust gases are produced during combustion.

Oliver has solved the problem by producing his own charcoal from waste from a neighboring sawmill and using a retort with complete exclusion of oxygen.

This locally produced barbecue charcoal sells well to sustainability-conscious customers and barbecue professionals.

DETALHES

ORIGEM DA MADEIRA

Industria

TIPO DE MADEIRA

Madeira reciclada ou residuos

TIPO DE MADEIRA EM CAUSA

Residual and waste wood

IMPACTE NO AMBIENTE E BIODIVERSIDADE

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

IMPACTE NAS RECEITAS

higher margin

POTENCIAL DE EXPLORAÇÃO

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HUB

Centro-Oeste do Hub

IMPACTE ECONOMICO

Added value for the local wood value chain

CONHECIMENTOS ESPECIFICOS NECESSÁRIOS

POTENCIAL DE MOBILIZAÇÃO

> 20'000 m³ for Switzerland

SUSTENTABILIDADE POTENCIAL - VALOR

Muito positivo

FACILIDADE DE IMPLEMENTAÇÃO

Retort must be purchased. Coal production is simple.

FACILIDADE DE IMPLEMENTAÇÃO

Médio

PRE-REQUISITOS CHAVE

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TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

Workshop 2: criação de ideia de negócio (T2.2)

IMPACTE NO EMPREGO

Generates local employment

CUSTOS DE IMPLEMENTAÇÃO (EURO - EUR)

30000

none

MAIS DETALHES

DESAFIO ABORDADO

6. Fomentar a bioeconomia baseada na floresta através do uso circular e de produtos de valor acrescentado

PALAVRAS-CHAVE

Charcoal upcycling retort

PAÍS DE ORIGEM

Suíça

DOMÍNIO

Produtos, mercados e comércio
Indústrias do sector florestal, bioeconomia circular

SOLUÇÃO DIGITAL

Não

ESCALA DE APLICAÇÃO

Regional/ sub-nacional

TIPO DE SOLUÇÃO

Produtos biodegradáveis e reutilizáveis

INOVAÇÃO

Sim

ANO DE INÍCIO E FIM

2023 - 2025

DADOS DE CONTACTO

PROPRIETÁRIO OU AUTOR

Olis Kohle

Oliver Reinhard

hoi@olis-kohle.ch

<https://oliskohle.ch/de/home>

REPÓRTER

BFH-HAFL

Thür

peter.thuer@bfh.ch

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

<https://oliskohle.ch/en/home>

WEBSITE DO PROJETO

<https://oliskohle.ch/en/pages/ueber-uns>

REFERÊNCIA AO PROJETO

Barbecue charcoal and biochar

RECURSOS

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LOGOTIPO DA BOA PRÁTICA



LOGOTIPO DA ORGANIZAÇÃO PRINCIPAL

PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

3 Jan 2024



Link to Rosewood 4.0



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

