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.

DETALII

SURSA DE LEMN

Industrie

TIPUL DE LEMN

Lemn reciclat sau reziduu din lemn

TIPUL DE LEMN îN CAUZă

Residual and waste wood

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

EFECT ASUPRA VENITURILOR

higher margin

POTENțIAL DE EXPLOATARE

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HUB

Hub central-vestic

IMPACT ECONOMIC

Added value for the local wood value chain

CUNOșTINțE SPECIFICE NECESARE

POTENțIALUL DE MOBILIZARE

> 20'000 m³ for Switzerland

POTENțIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

FACILITATEA DE IMPLEMENTARE

Retort must be purchased. Coal production is simple.

FACILITATEA DE IMPLEMENTARE - EVALUARE

Mediu

CONDIțII CHEIE PREALABILE

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TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

Atelier 2: crearea de idei de afaceri (T2.2)

EFECT ASUPRA LOCURILOR DE MUNCă

Generates local employment

COSTURI PENTRU IMPLEMENTARE (EURO - €)

30000

none

MAI MULTE DETALII

PROVOCARE ABORDATă

6. Creșterea bioeconomiei forestiere prin utilizarea circulară și produse cu valoare adăugată

DOMAIN

Produse, piețe, comerț

Industrii forestiere, economie bio / circulară

TIP DE SOLUȚIE

Produse circulare, pe bază de bio

CUVINTE CHEIE

Charcoal upcycling retort

SOLUȚIE DIGITALă

Nu

INOVAȚIE

Da

ȚARA DE ORIGINE

Elveţia

SCARA DE APLICARE

Regional/ sub-național

ANUL DE îNCEPUT șI DE SFâRșIT

2023 - 2025

DATE DE CONTACT

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REFERENCES AND RESOURCES

PAGINă WEB

https://oliskohle.ch/en/home

WEBSITE PROJECT

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

REFERINță PROIECT

Barbecue charcoal and biochar

RESURSE

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DESPRE EXEMPLUL DE BUNă PRACTICă

A PRINCIPALEI ORGANIZAțII



PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

3 Ian 2024





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

