

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.

DETALJI

PODRIJETLO DRVA

Industrija

VRSTA DRVA

Reciklirano ili otpadno drvo

ODGOVARAJUĆA VRSTA DRVA

Residual and waste wood

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

UČINAK NA PRIHOD

higher margin

POTENCIJAL ISKORISTIVOSTI

--

SREDIŠTE

Centralno-zapadno čvorište

GOSPODARSKI UČINAK

Added value for the local wood value chain

POTREBNA POSEBNA ZNANJA

POTENCIJAL ZA POVEĆANJE UPORABE DRVA

> 20'000 m³ for Switzerland

POTENCIJAL ODRŽIVOSTI - VRIJEDNOST

Vrlo pozitivno

JEDNOSTAVNOST PROVEDBE

Retort must be purchased. Coal production is simple.

JEDNOSTAVNOST PROVEDBE - EVALUACIJA

Srednji

KLJUČNI PREDUVJETI

--

VRSTA DOGAĐAJA NA KOJEM JE PRIKAZAN OVAJ BPI

Radionica 2: stvaranje poslovne ideje (T2.2)

UČINAK NA ZAPOŠLJIVOST

Generates local employment

TROŠKOVI PROVEDBE (EURO - €)

30000

none

VIŠE DETALJA

IZAZOV

6. Rast bioekonomije temeljene na šumi kroz kaskadnu uporabu i proizvode dodane vrijednosti

KLJUČNE RIJEČI

Charcoal upcycling retort

ZEMLJA PODRIJETLA

Švicarska

DOMENA

Proizvodi, tržišta, razmjena
Industrije utemeljene na šumama, bio / kružna ekonomija

DIGITALNO RJEŠENJE

Ne

PODRUČJE PRIMJENE

Regionalno / podnacionalno

VRSTA RJEŠENJA

Kružno, bio-bazirani proizvodi

INOVACIJA

Da

POČETAK I KRAJ GODINE

2023 - 2025

KONTAKT PODATCI

VLASNIK ILI AUTOR

Olis Kohle

Oliver Reinhard

hoi@olis-kohle.ch

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

IZVJESTITELJ

BFH-HAFL

Thür

peter.thuer@bfh.ch

REFERENCES AND RESOURCES

GLAVNA WEB STRANICA

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

WEB STRANICA PROJEKTA

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

REFERENCA PROJEKTA

Barbecue charcoal and biochar

IZVORI

--

LOGO PRIMJERA DOBRE PRAKSE

LOGO GLAVNE ORGANIZACIJE



PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

3 sij 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

