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

DOMENA

Proizvodi, tržišta, razmjena

Industrije utemeljene na šumama, bio / kružna ekonomija

VRSTA RJEŠENJA

Kružno, bio-bazirani proizvodi

KLJUČNE RIJEČI

Charcoal upcycling retort

DIGITALNO RJEŠENJE

Ne

INOVACIJA

Da

ZEMLJA PODRIJETLA

Švicarska

PODRUČJE PRIMJENE

Regionalno / podnacionalno

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