

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.

PODROBNOSTI

IZVOR LESA

Industrija

TIP LESA

Recikliran in odpadni les

VRSTA OBRAVNAVANEGA LESA

Residual and waste wood

VPLIV NA OKOLJE IN BIODIVERZITETO

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

VPLIV NA PRIHODKE

higher margin

POTENCIAL IZKORIŠČANJA

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VOZLIŠČE

Srednje-zahodno vozlišče

GOSPODARSKI VPLIV

Added value for the local wood value chain

POTREBNO SPECIFIČNO ZNANJE

POTENCIAL ZA MOBILIZACIJO

> 20'000 m³ for Switzerland

TRAJNOST - VREDNOST

Zelo pozitivno

ENOSTAVNOST IZVEDBE

Retort must be purchased. Coal production is simple.

ENOSTAVNOST IZVEDBE - OCENJEVANJE

Srednja

KLJUČNI PREDPOGOJI

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VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

Delavnica 2: ustvarjanje poslovnih idej (T2.2)

VPLIV NA DELOVNA MESTA

Generates local employment

STROŠKI IZVEDBE (EURO - €)

30000

none

VEČ PODROBNOSTI

IZZIV

6. Napredek krožnega bio-gospodarstva na podlagi
dodane vrednosti gozdnih proizvodov

KLJUČNE BESEDE

Charcoal upcycling retort

IZVORNA DRŽAVA

Švica

DOMENA

Izdelki, trg, prodaja

Gozdno-lesna industrija, krožno gospodarstvo

DIGITALNE REŠITVE

No

OBSEG UPORABE

Regionalni

TIP REŠITVE

Bio-osnovani izdelki

INOVACIJA

Da

ZAČETNO IN KONČNO LETO

2023 - 2025

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

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REFERENCES AND RESOURCES

SPLETNA STRAN

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

SPLETNA STRAN PROJEKTA

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

REFERENCA PROJEKTA

Barbecue charcoal and biochar

VIRI

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

DATUM OBJAVE

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

