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.

DETALJER

OPPRINNELSE FOR TRE

Industri

TYPE TRE

Returtre eller avfallstre

TYPE TRE INVOLVERT

Residual and waste wood

PåVIRKNING På MILJø OG BIOLOGISK MANGFOLD

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

INNTEKTSEFFEKT

higher margin

UTNYTTELSESPOTENSIAL

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HUB

Central-West Hub

ØKONOMISK PåVIRKNING

Added value for the local wood value chain

SPESIFIKKE KUNNSKAPSBEHOV

MOBILISERINGSPOTENSIAL

> 20'000 m^3 for Switzerland

BæREKRAFTPOTENSIAL - VERDI

Veldig positivt

ENKEL IMPLEMENTERING

Retort must be purchased. Coal production is simple.

ENKEL IMPLEMENTERING - EVALUERING

Medium

VIKTIGE FORUTSETNINGER

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TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

Workshop 2: Opprettelse av forretningsideer (T2.2)

EFFEKT På ARBEIDSPLASSER

Generates local employment

KOSTNADER MED IMPLEMENTERING (EURO - €)

30000

none

MER INFORMASJON

UTFORDRING ADRESSERT

6. Øke den skogbaserte bioøkonomien gjennom sirkulær bruk og merverdi produkter

NøKKELORD

Charcoal upcycling retort

OPPRINELSESLAND

Sveits

DOMENE

Produkter, marked, handel

Skogindustri, bio/sirkulær økonomi

DIGITAL LøSNING

Nei

POTENSIALE

Regional/deler av landet

TYPE LøSNING

Sirkulære, biobaserte produkter

INNOVASJON

Ja

START OG SLUTT åR

2023 - 2025

KONTAKT INFORMASJON

EIER ELLER FORFATTER

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RAPPORTøR

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REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)

https://oliskohle.ch/en/home

PROSJEKTETS HJEMMESIDE

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

REFERANSE TIL PROSJEKT

Barbecue charcoal and biochar

RESSURSER

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LOGO FOR BESTE PRAKSIS

LOGO FOR HOVEDORGANISASJON



PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood 4.0

INNLEGGSDATO

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY