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

PôVOD DREVA

Priemysel

DRUH DREVA

Recyklované alebo odpadové drevo

UVAžOVANý DRUH DREVA

Residual and waste wood

VPLYV NA žIVOTNé PROSTREDIE A BIODIVERZITU

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

DOPAD NA PRíJMY

higher margin

POTENCIáL VYUžITIA

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ROZBOčOVAč

Stredozápadný uzol

EKONOMICKý VPLYV

Added value for the local wood value chain

POTREBA šPECIFICKýCH ZNALOSTí

MOBILZAčNý POTENCIáL

> 20'000 m³ for Switzerland

POTENCIáL UDRžATEľNOSTI - HODNOTA

Veľmi pozitívne

UľAHčENIE IMPLMENTáCIE

Retort must be purchased. Coal production is simple.

UľAHčENIE IMPLMENTáCIE - HODNOTENIE

Stredná

KľúčOVé PREPOKLADY

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TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANý

Workshop 2: tvorba podnikateľských nápadov (T2.2)

DOPAD NA ZAMESTNANOSť

Generates local employment

NáKLADY NA IMPLEMENTáCIU (EURO - €)

30000

none

VIAC INFORMáCIí

RIEšENá VýZVA

6. Rozvoj lesného biohospodárstva prostredníctvom obehového využívania a produktov s pridanou hodnotou

DOMAIN

Produkty, trhy, obchod

Na lese založené priemyselné odvetvia, bio/obehová ekonomika

TYP RIEšENIA

Obehové, bioprodukty

KľúčOVé SLOVá

Charcoal upcycling retort

DIGITALNE RIEšENIE

Nie

INOVáCIE

Áno

KRAJINA PôVODU

Švajčiarsko

ROZSAH APLIKáCIE

Regionálny/

ZAČIATOK A KONIEC ROKA

2023 - 2025

KONTAKTNé úDAJE

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REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

https://oliskohle.ch/en/home

PROJEKTOVá WEBSTRáNKA

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

REFERENCIA PROJEKTU

Barbecue charcoal and biochar

ZDROJE

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LOGO NAJLPEŠEJ PRAXE



LOGO HLAVNEJ ORGANIZáCIE

PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood 4.0

DáTUM ODOSLANIA

3 jan 2024

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY