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

VEDENS URSPRUNG
Industri

TRäTYP
Returträ eller träavfall

TYP AV TRä
Residual and waste wood

PåVERKAN På MILJö & BIOLOGISK MåNGFALD
Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

EKONOMISK EFFEKT
higher margin

KOMMERSIELL POTENTIAL
--

NAV
Centrala och västra navet

EKONOMISK PåVERKAN
Added value for the local wood value chain

SPECIFIKA KUNSKAPSBEHOV

MOBILISERINGSPOTENTIAL
> 20'000 m³ for Switzerland

HåLLBARHETS POTENTIAL - VäRDE
Mycket positiv

ENKEL IMPLEMENTERING
Retort must be purchased. Coal production is simple.

ENKEL IMPLEMENTERING - UTVäRDERING
Mellan

NYCKEL FöRUTSäTTNINGAR
--

TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS
Workshop 2: skapande av affärsidéer (T2.2)

EFFEKT ANTAL ANSTäLLDA
Generates local employment

KOSTNADER FöR IMPLEMENTERING (EURO - €)
30000

none

MER INFORMATION

UTMANING SOM ADRESSERAS

6. Odla den skogsbaserade bioekonomin genom cirkulär användning och mervärdesprodukter

DOMäN

Produkter, marknad, handel

Skogindustri, bio/cirkulär ekonomi

TYPE AV LöSNING

Cirkulära, biobaserade produkter

NYCKELORD

Charcoal upcycling retort

DIGITAL LöSNING

Nej

INNOVASION

Ja

UPPHOVSLAND

Schweiz

POTENTIAL

Regional/landsdel

START OCH SLUTåR

2023 - 2025

KONTAKT INFORMASION

ÄGARE ELLER FöRFATTARE

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RAPPORTöR

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

https://oliskohle.ch/en/home

PROJEKTETS HEMSIDA

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

PROJEKTREFERENS

Barbecue charcoal and biochar

RESURSER

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LOGO FöR BEST PRACTICE

LOGO, HUVUDORGANISATION

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FöR INLäGG

3 jan 2024

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY