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.

DETAILS

HERKUNFT DES HOLZES
Industrie

ART DES HOLZES
Recyceltes oder Abfallholz

ART DES BETROFFENEN HOLZES
Residual and waste wood

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITäT
Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

EINKOMMENSEFFEKT
higher margin

VERWERTUNGSPOTENZIAL
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NABE
Drehscheibe Mitte-West

WIRTSCHAFTLICHE AUSWIRKUNGEN
Added value for the local wood value chain

SPEZIFISCHES WISSEN ERFORDERLICH

MOBILISIERUNGSPOTENZIAL
> 20'000 m³ for Switzerland

POTENZIAL FüR NACHHALTIGKEIT - WERT
Sehr positiv

LEICHTE IMPLEMENTIERUNG
Retort must be purchased. Coal production is simple.

LEICHTE IMPLEMENTIERUNG - BEWERTUNG
Mittel

WICHTIGE VORAUSSETZUNGEN
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ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE
Workshop 2: Entwicklung von Geschäftsideen (T2.2)

ARBEITSPLATZEFFEKT
Generates local employment

KOSTEN DER IMPLEMENTIERUNG (EURO - €)
30000

none

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

6. Ausbau der forstbasierten Bioökonomie durch zirkuläre Nutzung und Produkte mit Mehrwert

SCHLüSSELWöRTER

Charcoal upcycling retort

HERKUNFTSLAND

Schweiz

DOMäNE

Produkte, Märkte, Handel

Forstbasierte Industrien, Bio-/ Kreislaufwirtschaft

DIGITALE LöSUNG

Nein

UMFANG DER ANWENDUNG

Regional/sub-national

ART DER LöSUNG

Kreislaufwirtschaft, biobasierte Produkte

INNOVATION

Ja

ANFANGS- UND ENDJAHR

2023 - 2025

KONTAKTDATEN

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

https://oliskohle.ch/en/home

PROJEKT-WEBSITE

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

PROJEKT-REFERENZ

Barbecue charcoal and biochar

RESSOURCEN

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LOGO DER BEST PRACTICE



LOGO DER HAUPTORGANISATION

PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY