

## 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 1m<sup>3</sup> 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

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### 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

### MOBILIZAČNÝ POTENCIÁL

> 20'000 m<sup>3</sup> 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

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### RIEŠENÁ VÝZVA

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

### Kľúčové SLOVÁ

Charcoal upcycling retort

### KRAJINA PôVODU

Švajčiarsko

### DOMAIN

Produkty, trhy, obchod

Na lese založené priemyselné odvetvia, bio/obehová ekonomika

### DIGITALNE RIEŠENIE

Nie

### ROZSAH APLIKÁCIE

Regionálny/

### TYP RIEŠENIA

Obehové, bioprodukty

### INOVÁCIE

Áno

### ZAČIATOK A KONIEC ROKA

2023 - 2025

## KONTAKTNÉ ÚDAJE

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### VLASTNÍK ALEBO AUTOR

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### REPORTÉR

BFH-HAFL

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## REFERENCES AND RESOURCES

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### 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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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

