# 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

### IZVOR LESA
Industrija

### TIP LESA
Recikliran in odpadni les

### VRSTA OBRAVNAVANEGA LESA
Residual and waste wood

### VPLIV NA OKOLJE IN BIODIVERZITETO
Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

### VPLIV NA PRIHODKE
higher margin

### POTENCIAL IZKORIŠČANJA
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### VOZLIŠČE
Srednje-zahodno vozlišče

### GOSPODARSKI VPLIV
Added value for the local wood value chain

### POTREBNO SPECIFIČNO ZNANJE

### POTENCIAL ZA MOBILIZACIJO
> 20'000 m³ for Switzerland

### TRAJNOST - VREDNOST
Zelo pozitivno

### ENOSTAVNOST IZVEDBE
Retort must be purchased. Coal production is simple.

### ENOSTAVNOST IZVEDBE - OCENJEVANJE
Srednja

### KLJUČNI PREDPOGOJI
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### VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI
Delavnica 2: ustvarjanje poslovnih idej (T2.2)

### VPLIV NA DELOVNA MESTA
Generates local employment

### STROŠKI IZVEDBE (EURO - €)
30000

none

## VEč PODROBNOSTI

IZZIV

6. Napredek krožnega bio-gospodarstva na podlagi dodane vrednosti gozdnih proizvodov

DOMENA

Izdelki, trg, prodaja

Gozdno-lesna industrija, krožno gospodarstvo

TIP REŠITVE

Bio-osnovani izdelki

KLJUČNE BESEDE

Charcoal upcycling retort

DIGITALNE REŠITVE

No

INOVACIJA

Da

IZVORNA DRŽAVA

Švica

OBSEG UPORABE

Regionalni

ZAČETNO IN KONČNO LETO

2023 - 2025

## KONTAKTN PODATKI


LASTNIK OZ. AVTOR

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## REFERENCES AND RESOURCES

SPLETNA STRAN

https://oliskohle.ch/en/home

SPLETNA STRAN PROJEKTA

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

REFERENCA PROJEKTA

Barbecue charcoal and biochar

VIRI

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## LOGOTIP DOBRE PRAKSE




## LOGOTIP GLAVNE ORGANIZACIJE

### PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

### DATUM OBJAVE

3 Jan 2024






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### A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

