

# 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.

## DETALII

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### SURSA DE LEMN

Industrie

### TIPUL DE LEMN

Lemn reciclat sau reziduu din lemn

### TIPUL DE LEMN ÎN CAUZĂ

Residual and waste wood

### IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII

Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

### EFFECT ASUPRA VENITURILOR

higher margin

### POTENȚIAL DE EXPLOATARE

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### HUB

Hub central-vestic

### IMPACT ECONOMIC

Added value for the local wood value chain

### CUNOȘTINȚE SPECIFICE NECESARE

### POTENȚIALUL DE MOBILIZARE

> 20'000 m³ for Switzerland

### POTENȚIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

### FACILITATEA DE IMPLEMENTARE

Retort must be purchased. Coal production is simple.

### FACILITATEA DE IMPLEMENTARE - EVALUARE

Mediu

### CONDIȚII CHEIE PRELABILE

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### TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

Atelier 2: crearea de idei de afaceri (T2.2)

### EFFECT ASUPRA LOCURILOR DE MUNCĂ

Generates local employment

### COSTURI PENTRU IMPLEMENTARE (EURO - €)

30000

none

## MAI MULTE DETALII

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### PROVOCARE ABORDATĂ

6. Creșterea bioeconomiei forestiere prin utilizarea circulară și produse cu valoare adăugată

### CUVINTE CHEIE

Charcoal upcycling retort

### ȚARA DE ORIGINE

Elveția

### DOMAIN

Produse, piețe, comerț  
Industrii forestiere, economie bio / circulară

### SOLUȚIE DIGITALĂ

Nu

### SCARA DE APLICARE

Regional/ sub-național

### TIP DE SOLUȚIE

Produse circulare, pe bază de bio

### INOVAȚIE

Da

### ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT

2023 - 2025

## DATE DE CONTACT

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### PROPRIETAR SAU AUTOR

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### REPORTER

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## REFERENCES AND RESOURCES

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### PAGINĂ WEB

<https://oliskohle.ch/en/home>

### WEBSITE PROJECT

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

### REFERINȚĂ PROIECT

Barbecue charcoal and biochar

### RESURSE

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PROIECTUL ÎN CADRUL CĂRUI A FOST CREATă ACEASTă FIȘă INFORMATIVă

Rosewood 4.0

DATA POSTĂRII

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

