# 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

### ORIGIN OF WOOD
Industry

### TYPE OF WOOD
Recycled or waste wood

### KIND OF WOOD CONCERNED
Residual and waste wood

### IMPACT ON ENVIRONMENT & BIODIVERSITY
Reduces overexploitation in forests abroad.

Reduces transportation.

Avoids harmful exhaust gases.

### INCOME EFFECT
higher margin

### EXPLOITATION POTENTIAL
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### HUB
Central-West Hub

### ECONOMIC IMPACT
Added value for the local wood value chain

### SPECIFIC KNOWLEDGE NEEDED

### MOBILIZATION POTENTIAL
> 20'000 m³ for Switzerland

### SUSTAINABILITY POTENTIAL - VALUE
Very Positive

### EASE OF IMPLEMENTATION
Retort must be purchased. Coal production is simple.

### EASE OF IMPLEMENTATION - EVALUATION
Medium

### KEY PREREQUISITES
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### TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED
Workshop 2: business idea creation (T2.2)

### JOB EFFECT
Generates local employment

### COSTS OF IMPLEMENTATION ( EURO - € )
30000

none

## MORE DETAILS

CHALLENGE ADDRESSED

6.- Grow the forest-based bioeconomy through circular use and value-added products

KEYWORDS

Charcoal upcycling retort

COUNTRY OF ORIGIN

Switzerland

DOMAIN

Products, markets, trade

Forest-based bio/circular economy

DIGITAL SOLUTION

No

SCALE OF APPLICATION

Regional/sub-national

TYPE OF SOLUTION

Circular, bio-based products

INNOVATION

Yes

START AND END YEAR

2023 - 2025

## CONTACT DATA


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## REFERENCES AND RESOURCES

MAIN WEBSITE

https://oliskohle.ch/en/home

PROJECT WEBSITE

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

PROJECT REFERENCE

Barbecue charcoal and biochar

RESOURCES

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## LOGO OF BEST PRACTICE


## LOGO OF MAIN ORGANIZATION

### PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

### POST DATE

3 Jan 2024

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