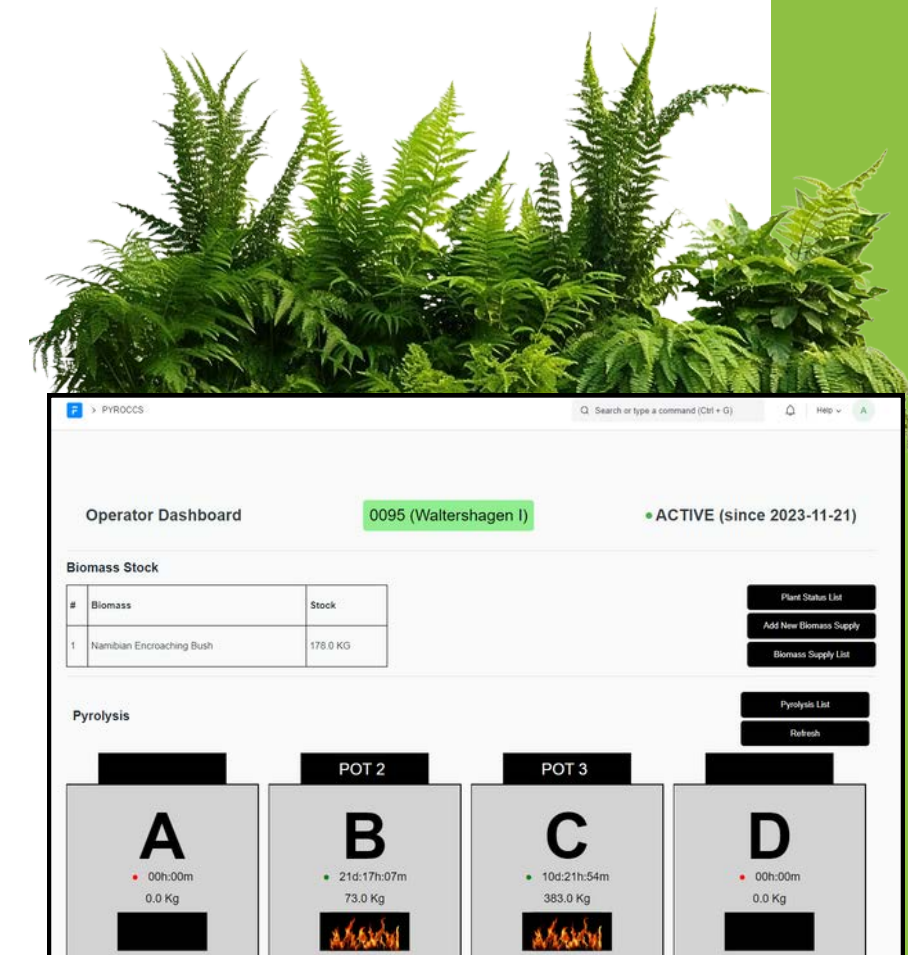


# PyroCCS

# SARVA CARBON

## CDR dMRV+

The state-of-the-art Standard Agnostic dMRV+ designed to support you operate successful, efficient and profitable Biochar Carbon Removal projects.



# BCR Future

*“When choosing which carbon credits to purchase, buyers prioritize quality, which they define as permanence of CO2 removal as well as MRV.”*

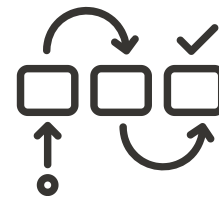
“The Time for Carbon Removal Has Come”  
September 2023, Report by **BCG** BOSTON  
CONSULTING  
GROUP



# The + in dMRV+



Sarva Carbon is an accredited **digital Monitoring, Reporting and Validation** tracking system for carbon credit generation in industrial high-tech biochar projects.



Sarva Carbon is also a **Workflow Management Software** that helps plant owners to operate and monitor and run the actual plant operations.

*“Sarva Carbon helps you maximise the value of your carbon removal certificates, while at the same time optimising efficiency and performance of your plant. We help you create more carbon credits at less costs.”*



**Timo Herbrand, CEO, PyroCCS**

# dMRV

Full Transparency & Traceability with Audit Trails

Full Compliance with Carbon Standard Guidelines

Collecting >100 data points in every Biomass to Biochar to Carbon Sink Cycle



> PYROCCS > Carbon Sink Locations > DIFFSINK-00003

Search or type a command (Ctrl + G)



Help

A

## Dirk Kaiser Soil Erosion Project



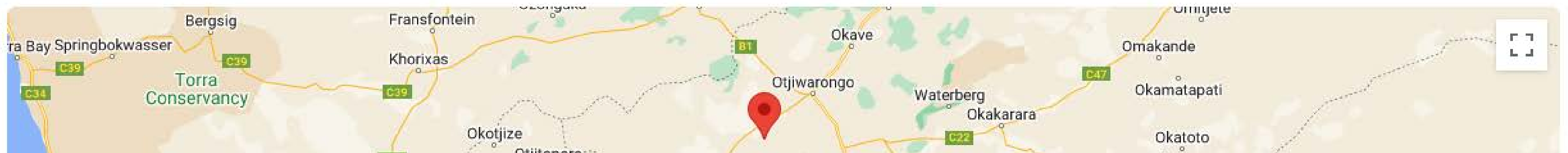
Save

-20.6493345,16.4417942

Approximate Google Maps Location Name

9C2R+7P Erundu, Namibia

Search a location

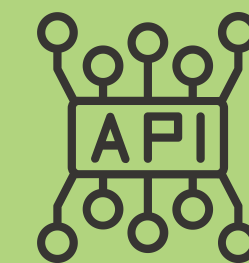


# dMRV

# Accreditations



Sarva Carbon is Carbon Standard agnostic. The system has been officially accredited by Carbon Standards International (CSI) and their EBC/WBC guidelines. It also works with Puro and other Standards which do not have a separate endorsement process (yet). The system is designed to ensure swift and efficient exchange and audits with the Standards.



Directly connected to the Carbon Credit Registry via APIs.

# Workflow Management

Exclusively available for Owners of PyroCCS Pyrolysis Equipment & Machinery

Customisable to the Requirements of your Plant Operations

Simplification and Visualisation of Complex Processes and Workflows



> PYROCCS > Pyrolysis Process > PYRO-0005-24-00497

🔍 Search or type a command (Ctrl + G)



Help ▾

A

Batch Details

Phase 1 - Biomass Loading & Start

**Phase 2 - Temperatures & Weight Out**

Phase 3 - End & Biochar Unloading

Biochar Sample

<input type="checkbox"/>	1	DURING-THERMO	100	°C	13-01-2024 14:52:11	<input type="checkbox"/>	<a href="#">Edit</a>
<input type="checkbox"/>	2	DURING-GUN	88	°C	13-01-2024 14:52:13	<input type="checkbox"/>	<a href="#">Edit</a>
<input type="checkbox"/>	3	DURING-THERMO	160	°C	13-01-2024 15:34:20	<input type="checkbox"/>	<a href="#">Edit</a>
<input type="checkbox"/>	4	DURING-GUN	144	°C	13-01-2024 15:34:23	<input type="checkbox"/>	<a href="#">Edit</a>
<input type="checkbox"/>	5	DURING-THERMO	150	°C	13-01-2024 16:00:56	<input type="checkbox"/>	<a href="#">Edit</a>
<input type="checkbox"/>	6	DURING-GUN	147	°C	13-01-2024 16:01:24	<input type="checkbox"/>	<a href="#">Edit</a>



# Visual Operator Dashboards

**Add Fuel**

POT 4

A

● 00h:00m

0.0 Kg Biomass Filled

POT 4

B

● 00h:04m

577.7 Kg Biomass Filled

POT 9

C

● 00h:03m

627.0 Kg Biomass Filled

POT 15

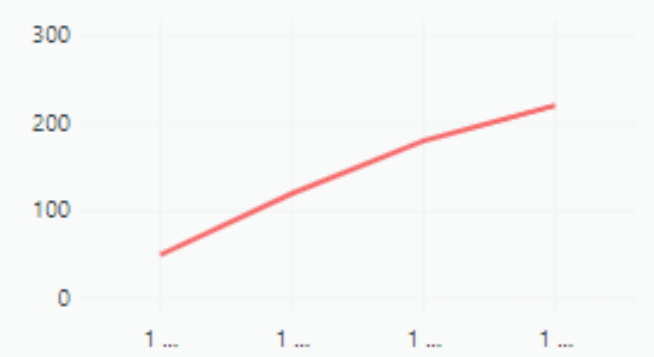
D

● 00h:03m

674.5 Kg Biomass Filled

Add Pyrolysis
Open Pyrolysis
Open Pyrolysis
Open Pyrolysis

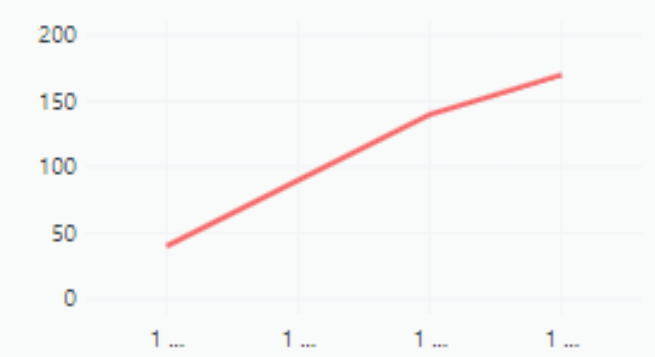
### Pyrolysis Temperature



PYRO-0095-24-00250

00h:02m:24s mins since last temperature measurement

### Pyrolysis Temperature



PYRO-0095-24-00251

00h:01m:14s mins since last temperature measurement

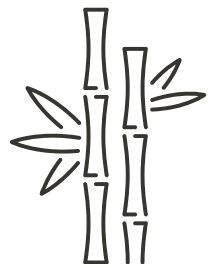
### Pyrolysis Temperature



PYRO-0095-24-00252

00h:01m:45s mins since last temperature measurement

# Sarva Carbon Modules



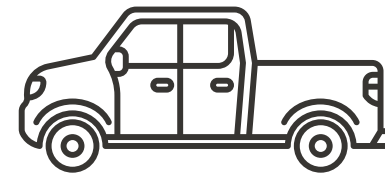
## Biomass Supply

Track where your biomass is coming from.



## Pyrolysis Process

Track how your biomass goes through pyrolysis.



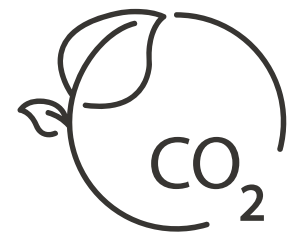
## Biochar Delivery

Track the delivery of your ready biochar.



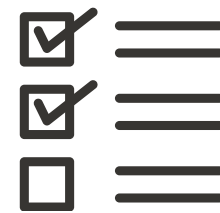
## Carbon Sequestration

Track how and where your carbon sinks are.



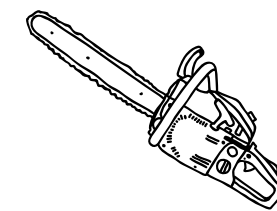
## Emissions Module\*

Track and record all your created emissions.



## Carbon Credit Validation\*

Calculate and submit your carbon credits.



## Plant Master & Equipment Masters

Track all your equipment usage.

This is just the start. We have more. And even more is currently in development to make your life easier and your operations more profitable.

*\*Only available for certified C-Sink Managers/Carbon Sink Administrators*



# Function Showcase

Customers scan a QR code to confirm receipt of biochar and mark the delivery as sequestered, entering sink matrix and GPS location of sequestration.

Customers also digitally sign off on the declaration that the ownership over the carbon sink/carbon credits is transferred to the seller of the biochar.

## PyroNam

### Delivery Note

**DEL-0095-24-00247**

**Delivery Date:** 2024-01-18 20:40:15

**Delivery Vehicle:** OTJ/66703 (Flo)

**Sender**

Pyrogenic Carbon Capture & Storage Namibia (Pty) Ltd.

None

**Receiver:**

Sven Schelhorn Company

Otjiwarongo 123

Otjiwarongo

1234

Namibia

**Material Details:**

Biochar Type: Invasive Acacia Species Biochar (WBC-Premium)

**Biochar Parameters:**

Moisture Level: 20 %

C-Organic: 80 %

H/C Ratio: 0.2

PLEASE SCAN THIS QR-CODE TO CONFIRM SEQUESTRATION/RECEIPT



# All about Data



**Data Analysis**

The feasibility and profitability of Biochar Carbon Removal projects highly depends on the operational excellence of plant, machinery and people.



**Remote Monitoring**

Sarva Carbons data tools allow plant owners to keep full control of their operations, even when they are not on site.



**Standardised and Customised Reports**

With the gained insights, management teams can quickly improve operational efficiency and performance step-by-step.



# Impact Stories

Carbon Credit prices highly depend on the co-benefits that you generate. Take your Carbon Credit buyers on an interactive journey and showcase how your projects benefits environment and communities.

- Customizable public webpages pages.
- Various access levels and frontends (e.g. Carbon Credit buyers or the general public).
- Provide photos, videos and statistics for download through a media bank.
- Show live stats from your plant.
- Showcase the SDGs that your are contributing to.

**SUSTAINABLE DEVELOPMENT GOALS**

# System Structure



Cloud Based Web App Setup



User Friendly & Simple to Use



Resource Friendly System



Access via Laptop, Tablet or Mobile



Run Multiple Operations in One System

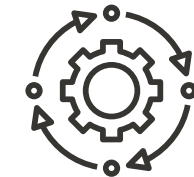


Ideal for Plants in Remote Areas

# Data Security



Server Instance in Country of Preference



Regular Security Updates & Patches



You own your data, export to Excel



User Management with permission levels

All of this comes with great aftersales support & access to the Sarva Carbon Training Academy.

# Pricing

We charge flat

8%

of all Carbon Credits successfully entered into the Carbon Registry through Sarva Carbon.



*“We strongly belief in close partnership with our customers to make their Biochar Carbon Removal projects worthwhile. Our pricing model reflects our way of thinking. We only earn fees when our customer’s operations are running successfully.”*

**Timo Herbrand, CEO, PyroCCS**

# Artisanal Biochar Projects

Our system also has a dedicated module for projects working according to Artisan/Low-Tech Biochar guidelines. Talk to us for more information!



*“Our aspiration is to keep Sarva Carbon world’s most comprehensive, secure and trusted dMRV+ solution. We are working on several groundbreaking new modules and technologies that will never make our customers doubt that they have decided for the right solution.”*

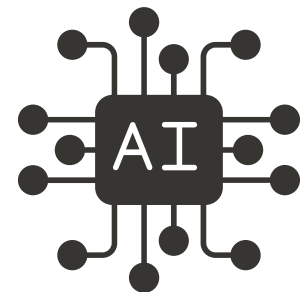


**Flo Oberhofer, PyroCCS**



**(Free\*) Open Source  
ERP Embedded**

Q4/2024



**AI-Enabled Operation  
Optimisation**

Q1/2025



**Biochar Shop  
System**

Q2/2024



**Soil Health/Farmer  
Impact Tracking**

Q3/2024

\*Customisation  
Chargeable

# Looking Ahead



**Interested?**

[www.pyroccs.com](http://www.pyroccs.com)

[info@pyroccs.com](mailto:info@pyroccs.com)