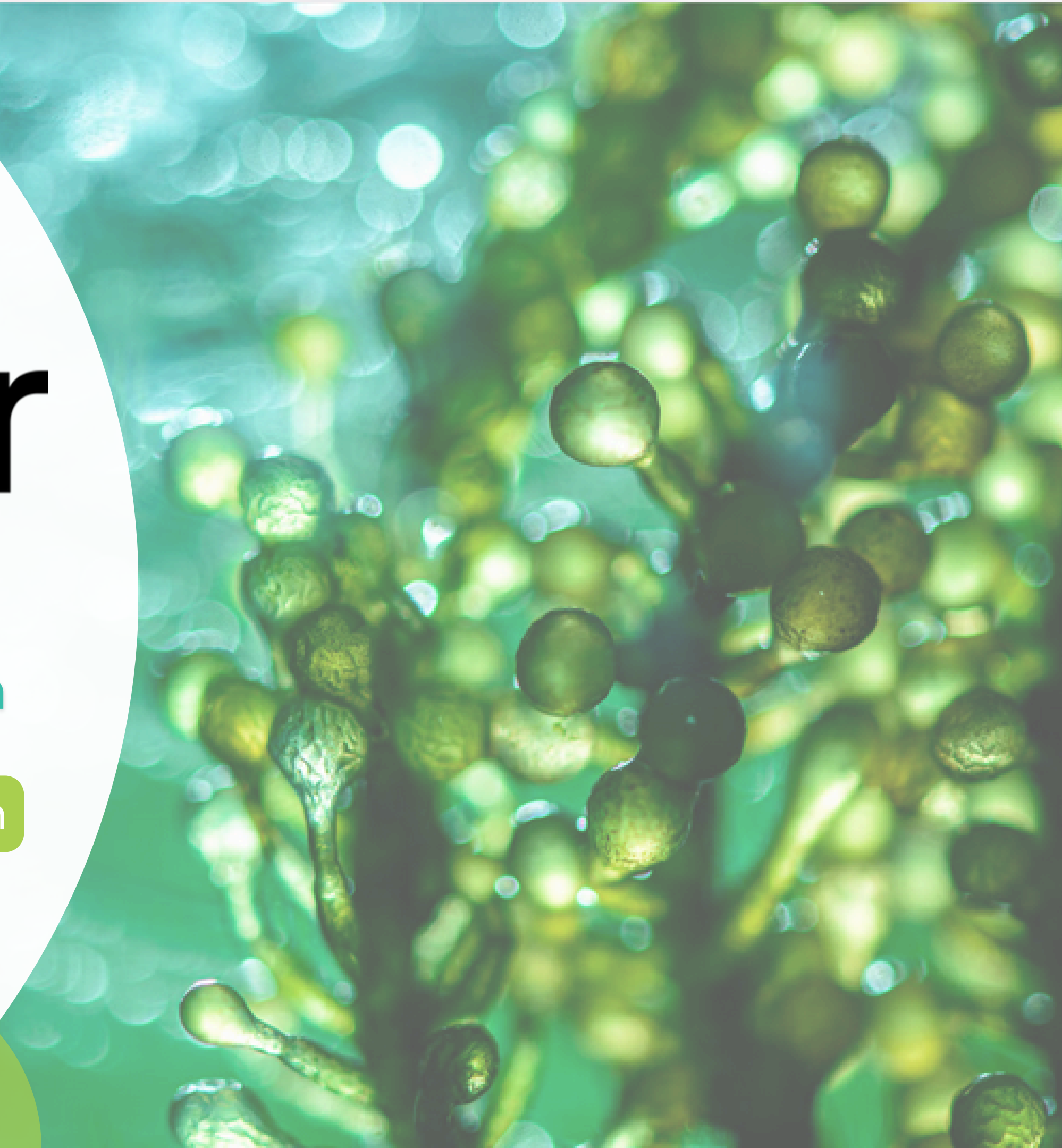




Carbon Negative
Microalgae Air Purification

Carbon and Climate Startup Ecosystem

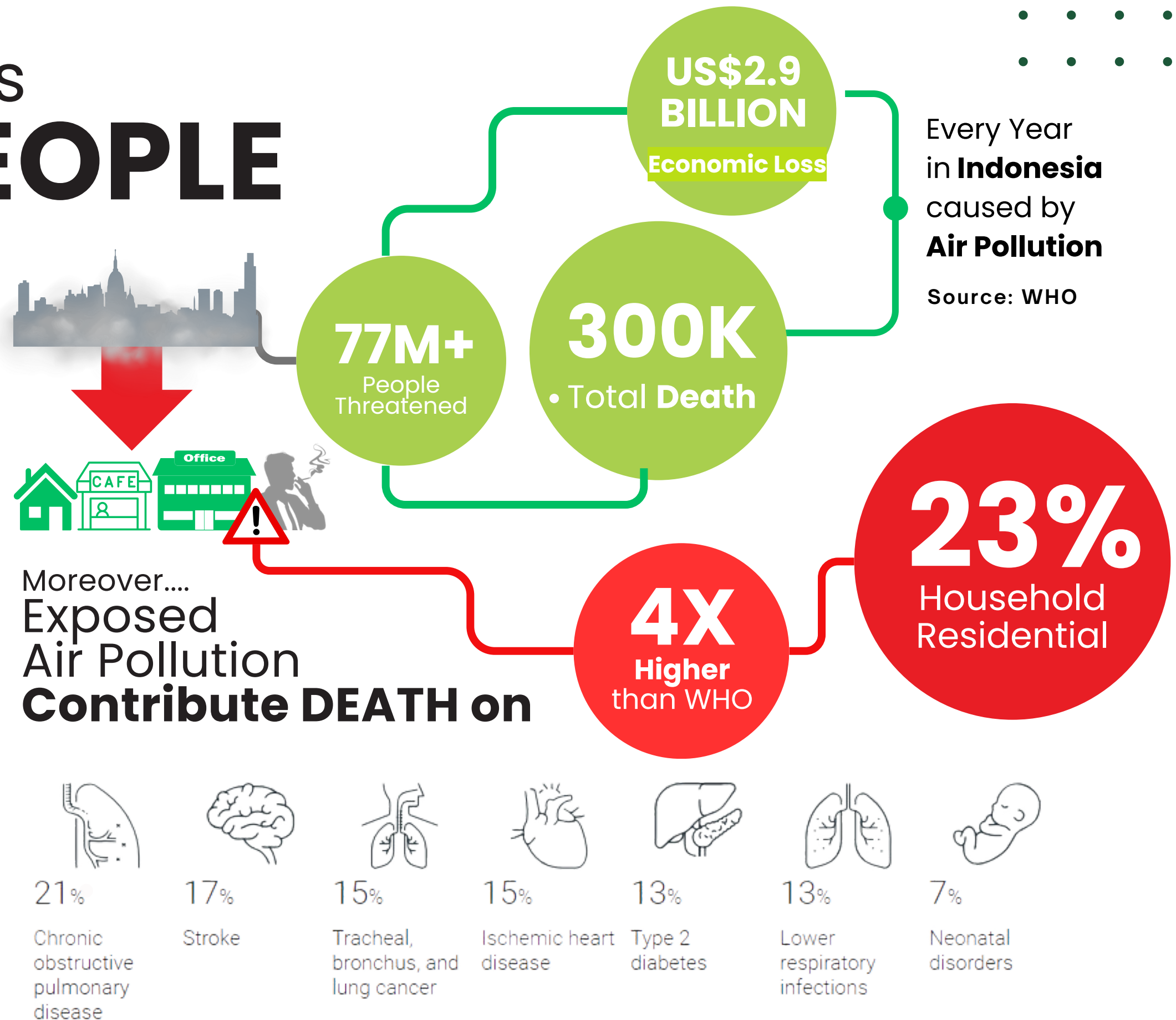


Indonesia Air Pollution's IMPACT ON PEOPLE



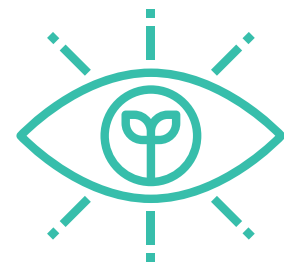
“5-year-old **Zidan** fights acute asthma worsened by air pollution. His struggle to breathe leaves **his face pale and blue**, underscoring the critical **need for cleaner air**.”

*Source: Dutch Welle Indonesia



AITHER

COMMITMENT FOR
FUTURE GOALS



Vision

To be the world's number 1 climate tech startup with products and services that are solutive through a collaborative, adaptive, and innovative spirit based on green technology for the world's green economy.

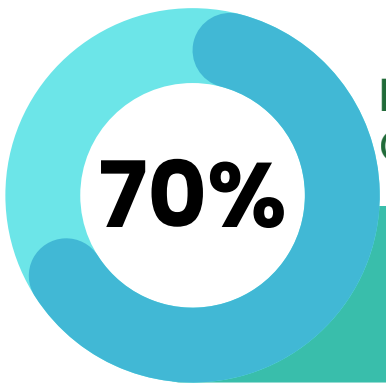
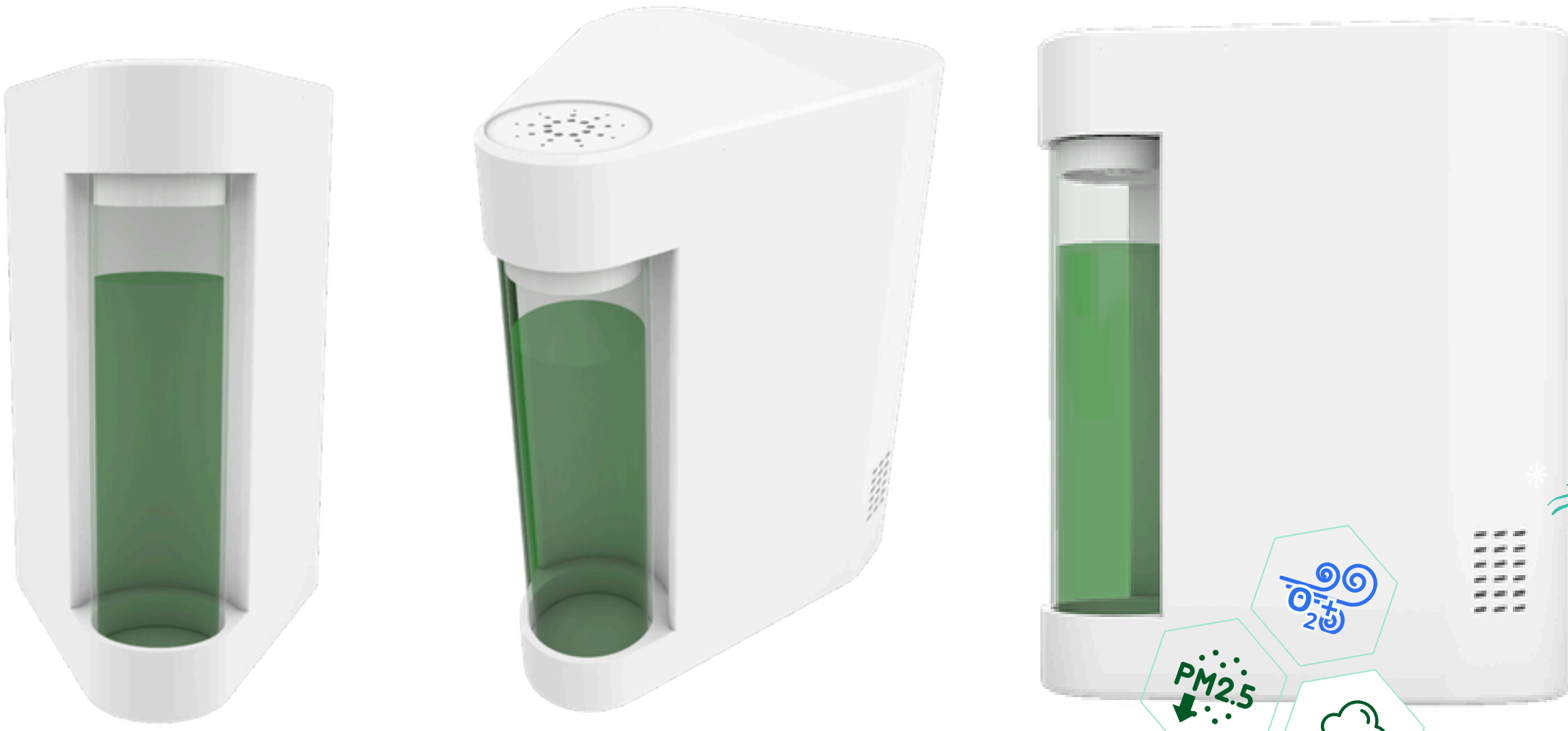


Mission

- Development of Green Product based on ESG Concept for sustainable sector through 3G Spirit (Green Economy, Green Infrastructure, Green Emission).
- Focusing on being adaptive and collaborative to market dynamics and working in an Agile Customer Oriented manner with all stakeholders.
- Collaboration to create innovative products and services and/or social empowerment based on green economy

To Solve Air Pollution

HOW DO WE CONTRIBUTE?



Main Features:
Oxygen Generator dan Pollution Reducer

High Potential **Reducing Carbon**
in the Ambient Air

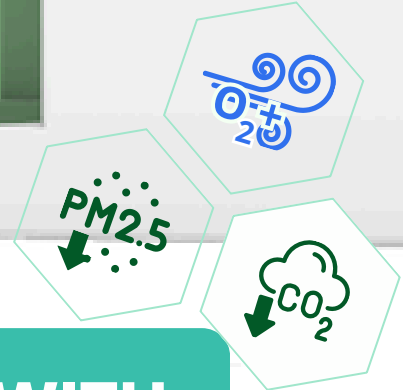


2x Increase Tree
Growth Rate



17% Increase
Oxygen Rate

- 1** Low Energy consumption
- 2** Small, but cleans perfectly
- 3** Saves spaces with minimalist design



BIOTECHNOLOGICAL AIR PURIFIER WITH

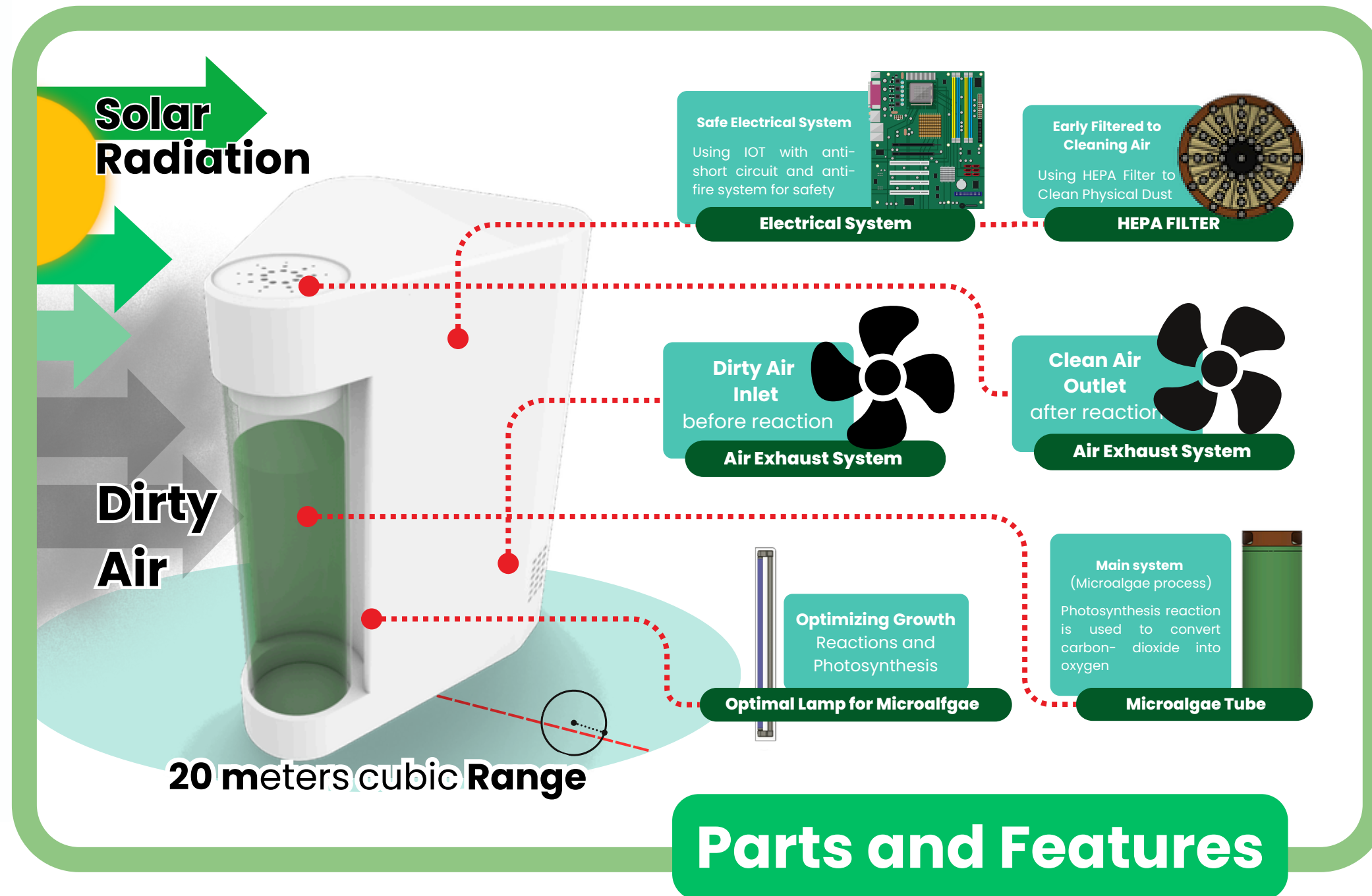
EMISSION CONVERTER

Setara dengan pohon berusia 11 tahun!

SPECIFICATION	
Dimension	H : 34 cm L: 28 cm W: 14 cm
Microalgae Capacity	1 litre
Electrical Needed	20 watt / 220V
Coverage Area	15 m ²

HOW DOES IT WORK?

Let's take a Look!

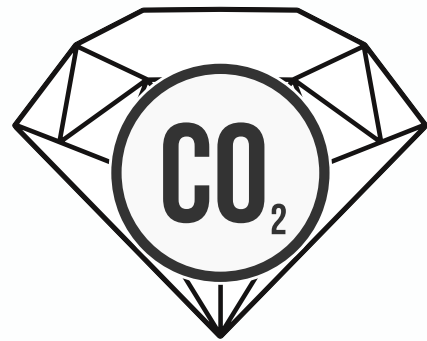


Systematic

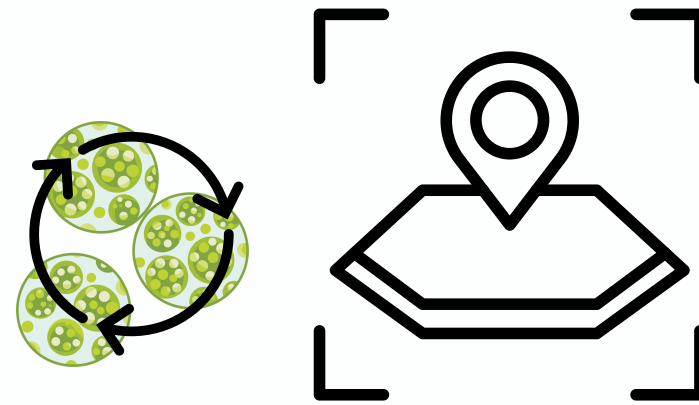
- 1 Dirty air is absorbed** using a fan through inlet pipe.
- 2 Dirty air is filtered** with a dust filter and a hepa filter.
- 3 The filtered air is flowed** into the microalgae tube.
- 4 Carbon gas in the air will be captured by microalgae.**
- 5 Clean fresh air is discharged** through the outlet.

CLIMATE ECOSYSTEM SOLUTION

IMPACTED ON SOCIETY AND ENVIRONMENT



**High Sensing Quality
Carbon Removal**



Low Land Usage



Carbo As A Service



Kantor Pusat PLN Indonesia

Caffetaria terasa lebih segar. Asap tidak lagi nembus ke ruang AC



Pohon Kopi

udara sangat terasa lebih segar setelah menggunakan aither. Asapnya berkurang, mata tidak perih, dan bau tidak menyengat.



13+ Million People

Direct and Indirect Beneficiaries



20 Places

Aither Purifier Installed



200 Ton CO2e

Carbon Offsetting



20 Partnership

Across organization



265 Follower

Organic Follower Social Media



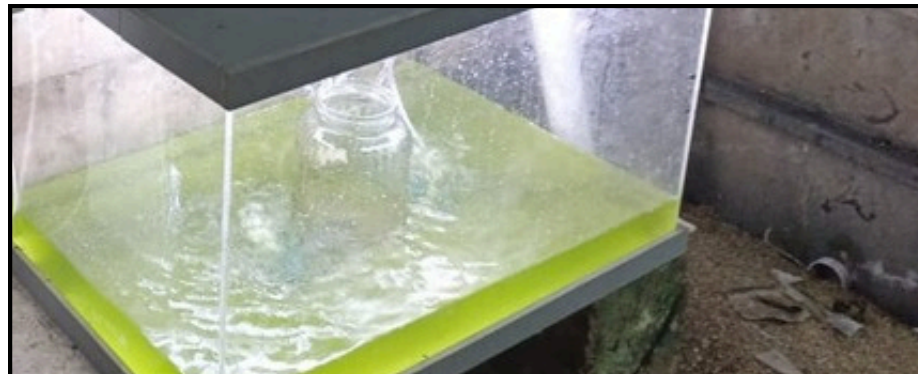
Rp.300 Million +

Annual Revenue in 2025

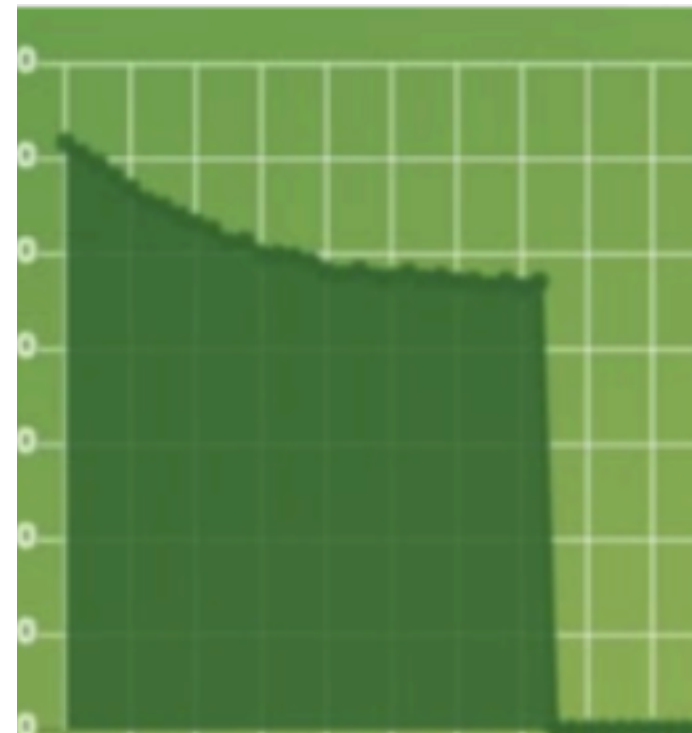
TRL 6 : TESTED IN REAL ENVIRONMENT

PILOTING MICROALGA CDR PROJECT

CDR Performance through Direct Air Capture. After the device is activated, a decrease in CO₂ levels is recorded and updated on the CO₂ traction website.



ON-SITE DEVICE TESTING

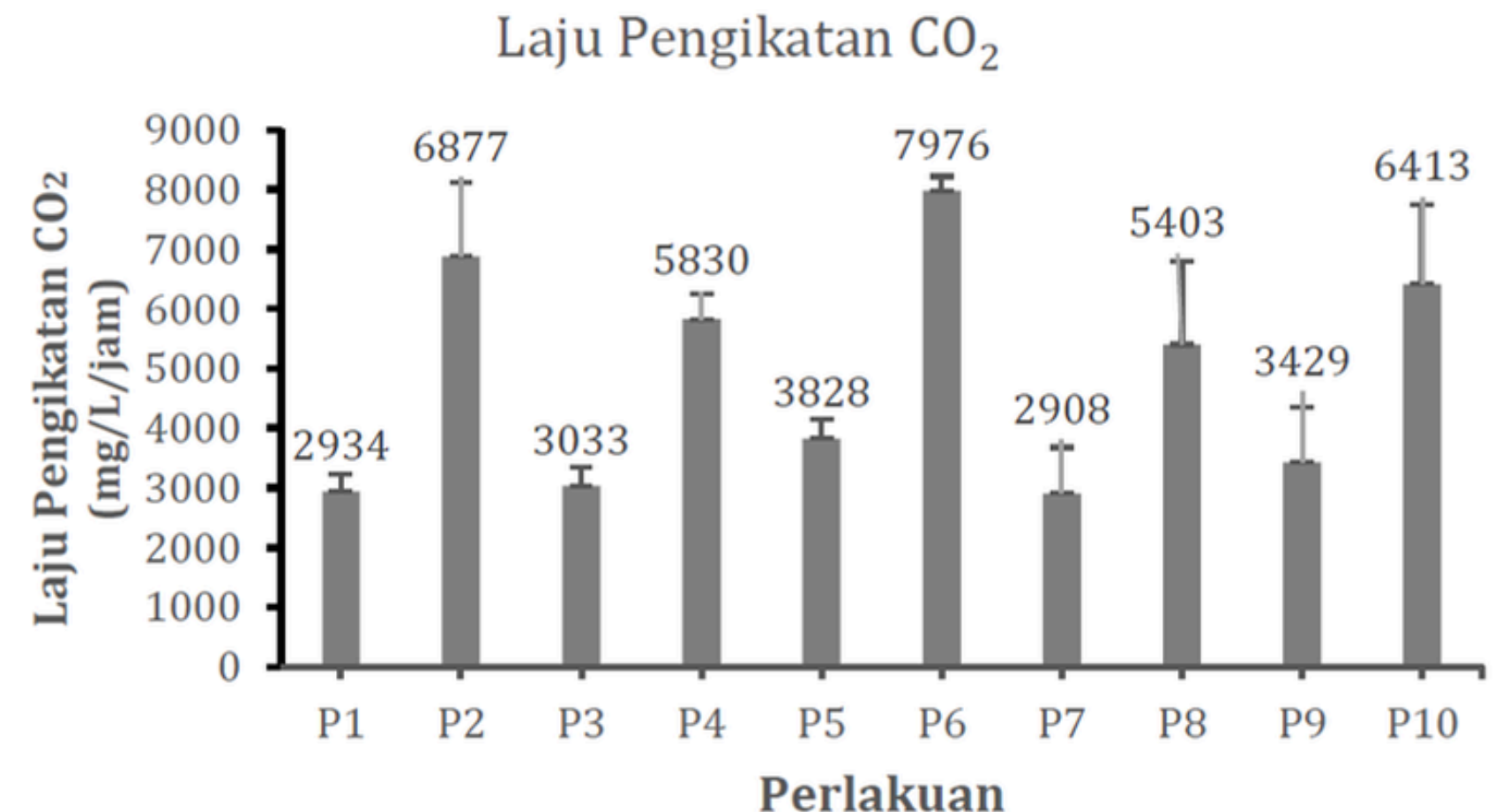


TESTING DATA

Best Performance:
A decrease from 1124 ppm to 686 ppm within 45 minutes

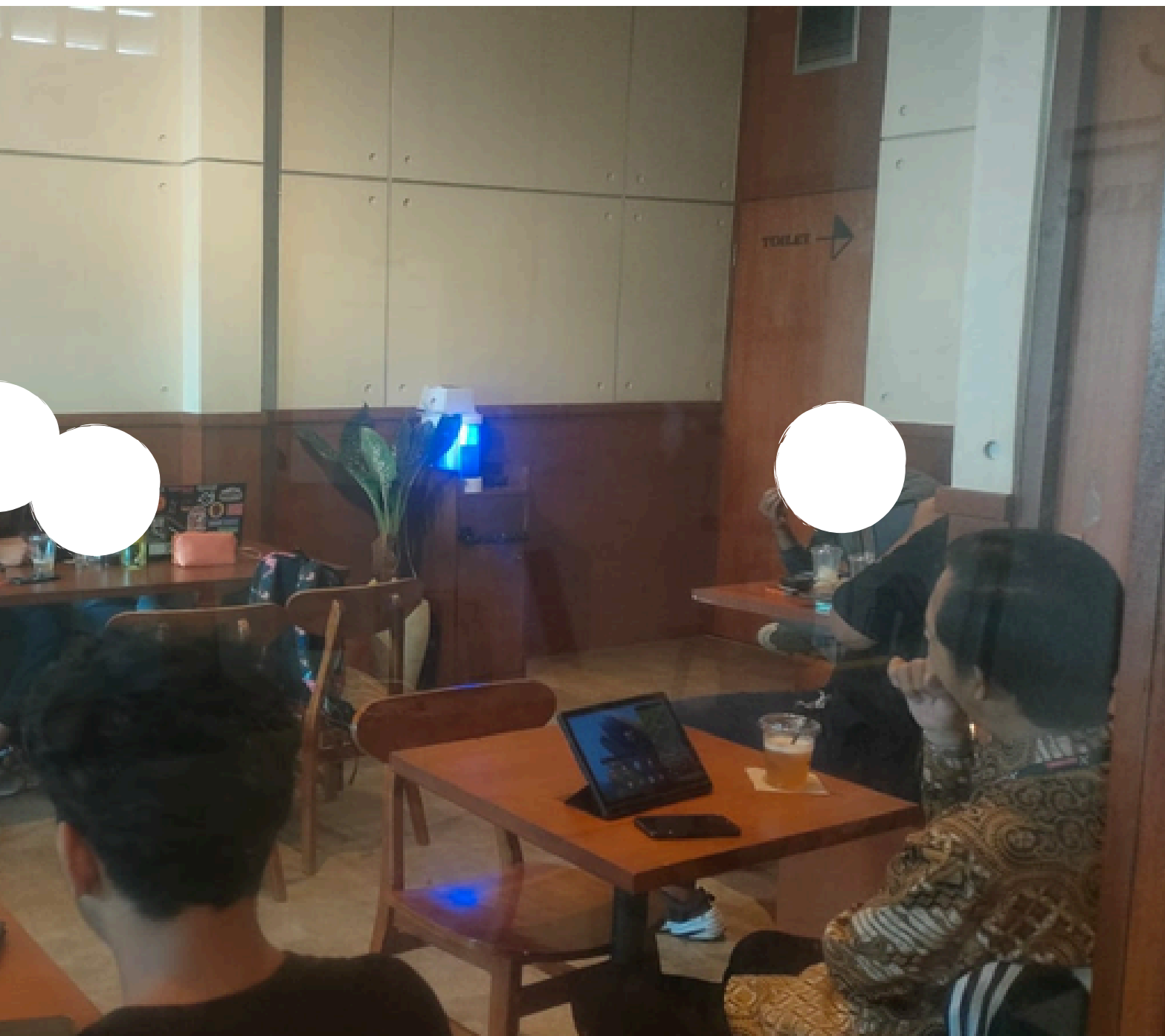
SCIENTIFIC RESEARCH IN LABORATORY BASED

This research was conducted to test the capability of our microalgae in carbon capture and storage (CCS) technology.

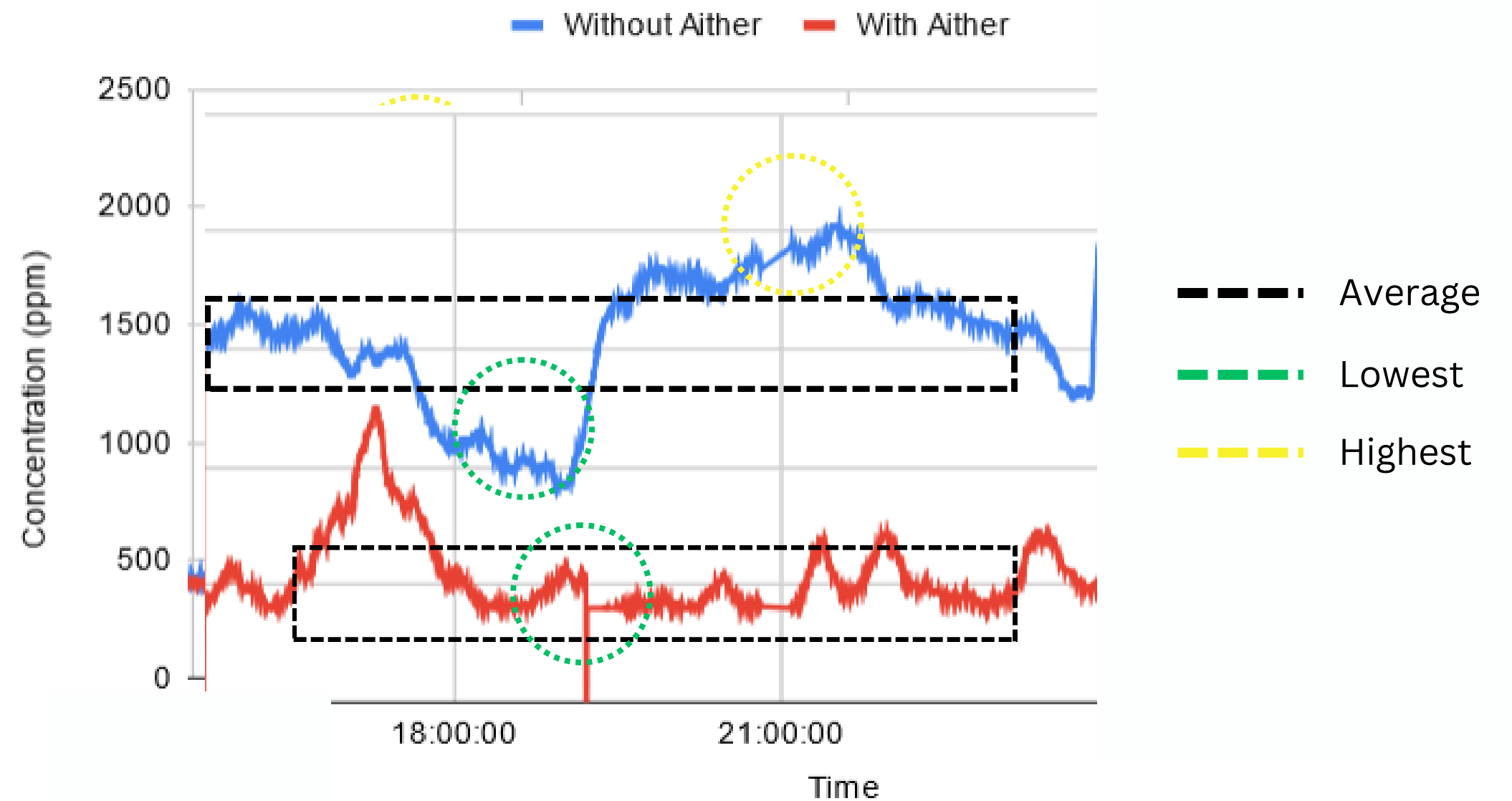


The carbon absorption rate of microalgae, reaching nearly 8 grams per liter per hour, is showing promising potential to become a carbon capture solution.

PILOT TESTING PROOFING CARBON ABILITY

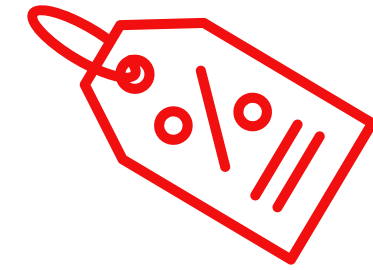


Carbon Dioxide Concentration in Two Condition



Aither initiative to support SDG no. 13 – Climate Action

PRODUCT LINE UP OF AITHER CLIMATE ECOSYSTEM SOLUTION



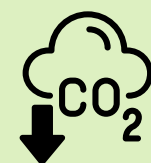
Aither CDR Product

Zero and Negative carbon Removal

Enhance Ambient Air Quality



1-200 Ton CO2 Removing



Carbon
Removal

Algae Sequestration

Increase soil and crops health
using microalgae



+20% Productivity



Crops Growth
and Soil Health

Carbon Service

Meningkatkan ESG Impact dan
dampak keberlanjutan



Available Service

- ✓ Event rendah karbon
- ✓ Inovasi pengurangan karbon
- ✓ Report dan Analysis

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PROGRAM**



CESGS
Center for Environmental, Social, &
Governance Studies.



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KOPERNIK
SERVING THE LAST MILE



**LPDP
FEST**

COM&UP
GLOBAL STARTUP
FESTIVAL 2023





***Biotechnology-Based
Modern Air Purifier***

microalga.project@gmail.com
+62 877 8493 2237

Science Technopark ITS 2nd Floor
Surabaya

**# Clean Air For
Everyone**



FARREL KAMALUDIN

CEO

Engineering Physics

- Indonesian Youth SDGs Ambassador 2025
- A Chosen Innovator by Ministry of Youth and Sport Republic of Indonesia 2022
- Ex-Panasonic RnD Team



DINI ERMAVITALINI, S.SI., M.SI

Advisor

Biology Lecturer

- Microalgae Expertise with International Journal Publication



ALI IRSYAD

Advisor

SDGs Expert

- Chairman IJAD Group & Holding
- Managing Director of CESGS Airlangga University



RIVA RIZKIANA R

Project and Partnership

Engineering Physics

- Funded in +7 National and International Research Projects
- Successfully led USD 30K Project and impact to million people



SLAVIA SERGY

Business Assistant

Business Management

- Successfully Lead IDR 100 million Rupiah Business Revenue
- Recognized in multiple National Business Competition

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