

The World's First Soil-Nourishing Algae Bags

Algae-based Bioplastic



Organic Elements &
Minerals



60% Less
Water Usage

%87

Less CO₂



No Microplastics



Biodegradable



100% Compliance
with Industry





SUMMARY

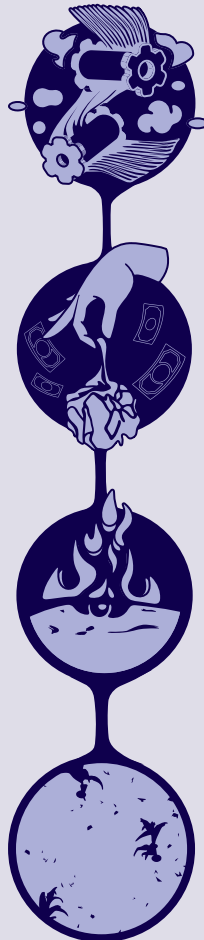
Palgae offers **algae based** alternatives to **single-use** packaging products, that are **100% biodegradable**, **requires zero fresh water** and **zero arable land**; **reducing carbon emissions** through the most powerful **carbon capturing technology**.

Why We Are Doing This?

Every year, **142 million tonnes** of plastic packaging is produced. Its lifecycle yields **1.8 Gigatonnes of carbon emissions**, equal to **4 billion flights from Istanbul to the United Kingdom**. Despite green initiatives, only 9% of plastic is recycled effectively; the rest is sent to landfills, incinerated, or leaked into the environment.

Every day, the equivalent of **2,000 garbage trucks of plastic** is dumped into our waterways. Plastics break down into **microplastics**, accumulating across marine and land ecosystems, endangering wildlife, **entering our food, air and water**.

Recent studies show this exposure confronts us with serious health issues, from hormone disruption to brain damage. Even **recycling fails**: recycled plastic can leach up to **75 billion particles** into **water**, magnifying the problem.



142 millions
Tons of Plastic
Packaging -
every year.








Plastic pollutes
the air—and we
pay **TWICE**
to clean it.

91% plastic is **NOT**
recycled — the rest
is burned through
incineration.

Microplastics in our
drink water, food
and bodies.

From Ocean Waste To Earth Value

COMPETITIVE LANDSCAPE

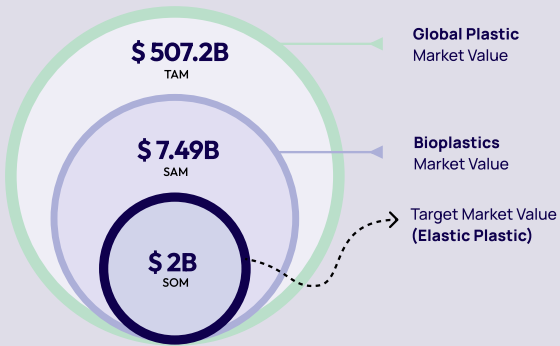
							
Fresh Water Usage	✗	✓	✓	✓	✗	✓	✓
Biodegradable	✓	✓	✗	✗	✓	✓	✓
Upcycling	✓	✗	✗	✗	✗	✗	✗
Fertilizing	✓	✗	✗	✗	✗	✗	✗
Plug & Play	✓	✗	✗	✗	✓	✓	✓

MARKET SHARE

REVENUE STREAM

We're offering **materials** and **biomass** to our customers. In 2026, our revenue will rise significantly as we plan to sell over **2 tons of bioplastic** to five customers. We also provide **algae** and **material consultancy** to firms.

2025	2026	2027
1 TON	2 TONS	10 TONS
\$2.465	\$24.780	\$228.980



PARTNERS & CUSTOMERS

Production




Distributor




Algae Source




Test & Certification




LCA




PoC






GO TO MARKET STRATEGY

B2B

A 60-ton supply contract will be delivered in modules of 5 tons per month.
We supply industrial-grade biopolymer solutions tailored for rigid, flexible, and 3D printing applications, covering the full spectrum of bioplastic needs.

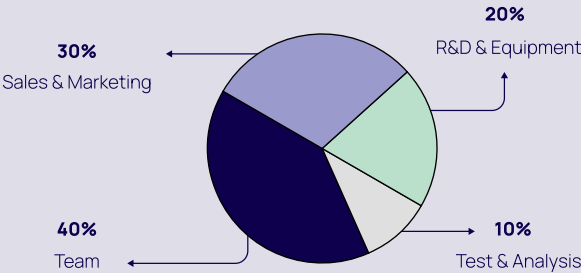
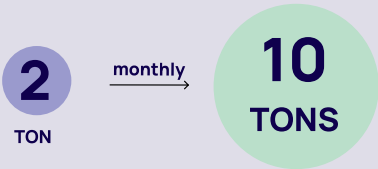
B2C

Sustainability-focused marketplaces such as EcoEnclose by offering finished products —textile polybags, mailer bags, and flexible packaging—designed for immediate adoption by conscious brands

Partnership

We secure the market through strategic partnerships spanning carbon credit generation, co-development of advanced materials, and the creation of algae-based solutions for cosmetics, food ingredients, and sustainable pigments.

FUNDING 500K \$



2024

- Started as a Student Project
- Produced 10 kg of material for



- Calculated CO2 foot print
- Spent \$6,000 for R&D

2024-2025

- +10 Customer Interviews
- Incorporated
- **First Laboratory**
- Trademark Registration Certificate
- 1 Patent Application
- Signed contract with Production partner



2026

- **First 100 kg order**
- **2 tons** monthly capacity
- **3 LOI's**
- TRL-6 (Customer ready solutions)
- **Pre-seed round**
- London Branch

2027

- Pre-certification tests
- **5 regular** customers
- **Carbon Credit Certificate**
- 2 Patent Filed Expectation
- New Algae product development (**cosmetic**)
- Seed Round - **\$7M Valuation**

TEAM



Eylül Er
CEO & Founder



Mohammed Elamir
Chief Material Officer



Arif Enes Karaca
Chief Bioplastic Officer



Ali Güzel
Art Direction

ADVISORS



Victor A. Robledo
Business Advisor



Duarte M. Rodrigues
Investor Advisor



Münir Taşdemir
Technology Advisor



Derya Çağlar
Business Advisor

Adress

Nişantaşı Üniversitesi NeoTech Kampüs
Maslak, 1453 Cd No:77 D:232, 34398
Sarıyer/İstanbul

Eylül ER
Founder & CEO
Türkiye
palgae.earth

