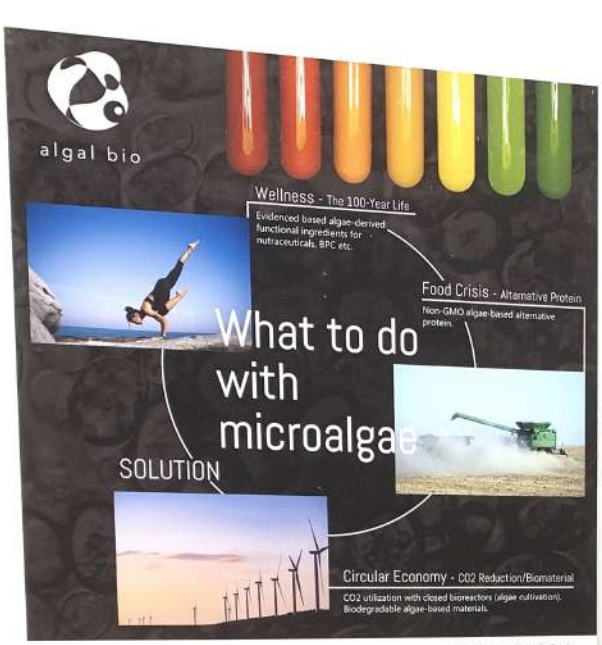
algal bio
Wellness - The 100-Year Life
Evidenced based algae-derived functional ingredients for nutraceuticals, BPC etc.
Food Crisis - Alternative Protein
Non-GMO algae-based alternative protein.
What to do with microalgae
SOLUTION
Circular Economy - CO2 Reduction/Biomaterial
CO2 utilization with closed bioreactors (algae cultivation). Biodegradable algae-based materials.
TECHNOLOGY
1kL Closed Photobioreactor
Advanced culture & breeding technology
Cultivating Algae's Potential, for a Better Future.
Algal Bio Co., Ltd
info@algalbio.co.jp


algal bio
Development of Technologies for Carbon Recycling and Development of Technologies for CO2 Utilization at the R&D and Demonstration Base/
(Research & Development of CO2 Fixation by Microalgae and High-Value Ingredients Production)
content
NEDO
<Summary> To develop microalgae breeding technologies and mass cultivation system to produce high-value ingredients (EPA, fucoxanthin,etc.) and bioplastics derived from microalgae biomass utilizing CO2 emission.
<Project Period> 2022/4 ～ 2025/3
<Contractors> Algal Bio Co., Ltd. and The Kansai Electric Power Co., Inc.
CO2 from industries
Microalgae cultivation
Natural resource-independent chemicals
EPA
Fucoxanthin
Alternatives to petroleum-derived plastics
Bioplastics
Contents
The aim of this study is to achieve industrialization of carbon recycling technology through the following R&Ds:
R&D 1: To breed microalgae strain with improved CO2 fixation using random mutagenesis and genome editing.
R&D 2: To develop high-density microalgae mass cultivation system.
R&D 3: To develop bioplastics derived from algal biomass.
R&D 4: To construct an integrated production system from microalgae to high-value ingredients production.


In age of the 100-year life,
Algae could be indispensable to our health.
Moneru
Algal Bio Co., Ltd
SHARP
HD