



SPIRULINA

ENHANCING QUALITY OF LIFE



EnerGaia ~

Our Mission

We have over 5 years of experience operating our innovative Spirulina production system on rooftops in Bangkok, and seek to amplify our impact by spreading our technology around the world. Our company's mission is to provide a clean, healthy and sustainable food source. We are heavily focused on sustainable farming and the reduction of harmful greenhouse gases.

The Challenge

Traditional food production sectors will not be able to sustainably meet the food consumption needs of our multiplying global population without innovation. The population at the base of the pyramid will be the first to lose access to critical food resources. Developing alternative food sources as well as new approaches for sustainable production are critical to meeting these growing demands.

Impact Opportunity

By partnering with NGOs, donor groups and aid agencies, EnerGaia is introducing a new contract farming model tailored particularly for women entrepreneurs in rural areas of developing countries. EnerGaia has the potential to work with both farmers in Bangladesh and store owners in Port-au-Prince to dramatically improve diets to combat micronutrient malnutrition. As a social enterprise, EnerGaia has the opportunity to enhance local livelihoods and improve the global food supply chain.

A SUPERFOOD

1 tablespoon (10g) of Spirulina contains the equivalent to:



Protein in a 6 oz. steak
Iron in 4 oz. steak

Magnesium in 1/2 banana



Zinc in 1.25 cups of spinach

AWARDS & RECOGNITION



Our Innovation

EnerGaia's closed system presents numerous advantages over open ponds including:



- scalable design
- feasible to use fresh water or seawater
- can be installed on rooftops or other unused spaces



- able to utilize CO₂ emissions from industrial sites
- better quality control and precise monitoring
- limited evaporation loss and substantially less water usage



- higher growth rates (3x - 4x open ponds)
- limited contamination risk
- better tasting spirulina with a longer shelf-life



DIFFERENT BUSINESS MODELS

We can work with farmers, commercial producers and aid agencies

- micro financing for rural farmers
- revenue sharing with commercial producers
- operate farms to deliver outcomes for development aid agencies

MATERIAL IMPACT FOR RURAL FARMERS

10 tanks on 10 m² of space
x 7.3 kg spirulina powder per tank per year
x \$15.00 per kilo price
= **\$1,095** incremental annual revenue (\$3/day)

ABOUT SPIRULINA

Spirulina is a 3.5 billion year old blue-green algae that grows rapidly through photosynthesis. This single celled organism grows in highly alkaline water and only occurs naturally in a few places on earth.

Spirulina's need for a high pH environment means that it can be cultivated free from harmful contaminate algae and bacteria that thrive in lower pH.

QUICK NUTRITIONAL FACTS

- 60% protein content containing all 8 amino acids
- 6-10 grams provides a full day supply of micronutrients
- Helps boost immune system
- Very easy to digest, making it ideal for older populations or hospital patients with compromised digestive systems
- Spirulina contains a powerful range of potent antioxidants making it one of the most effective antioxidant sources
- Unlike other potent sources of nutrients and protein, Spirulina is low in calories and cholesterol

NUTRITIOUS FOOD PRODUCTS

Skyline Spirulina is taste neutral and is sold in fresh, frozen, and dry powder forms, any of which can be added directly to recipes or used as a healthy ingredient in mainstream food products.



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