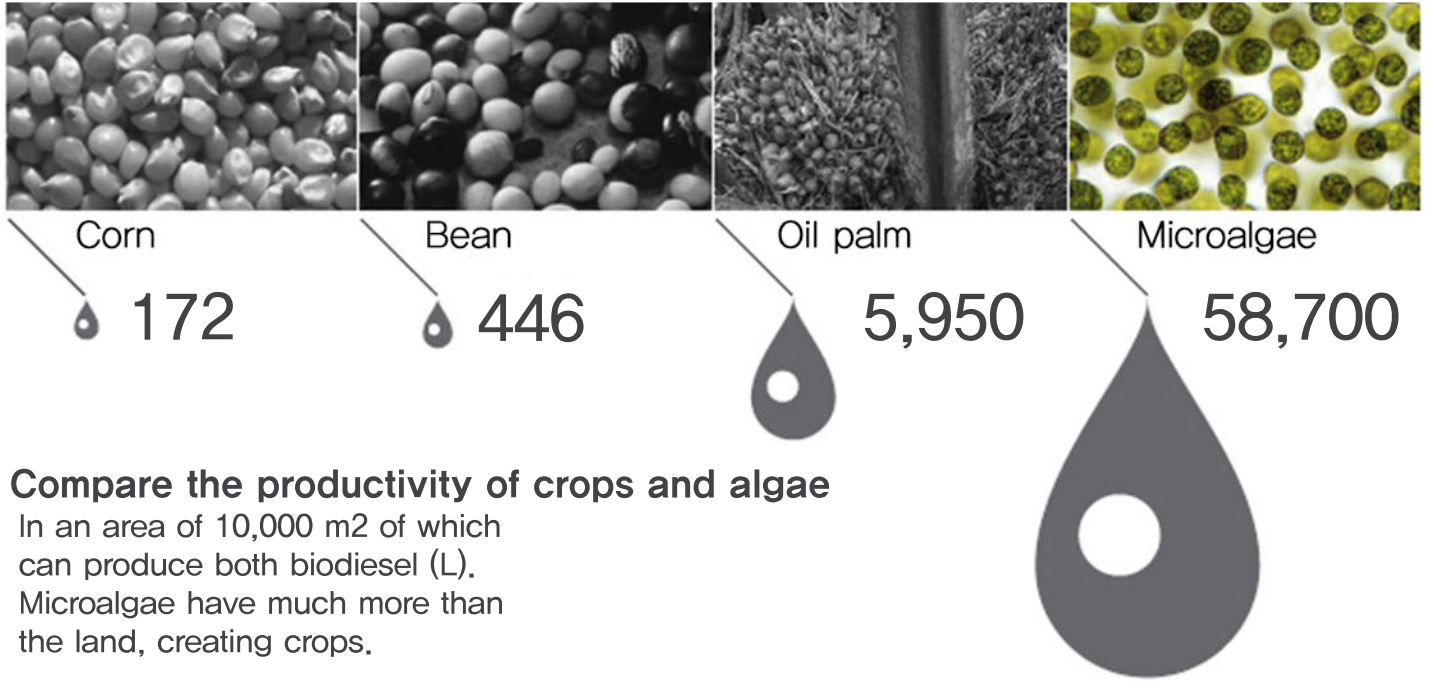


Energy Plan

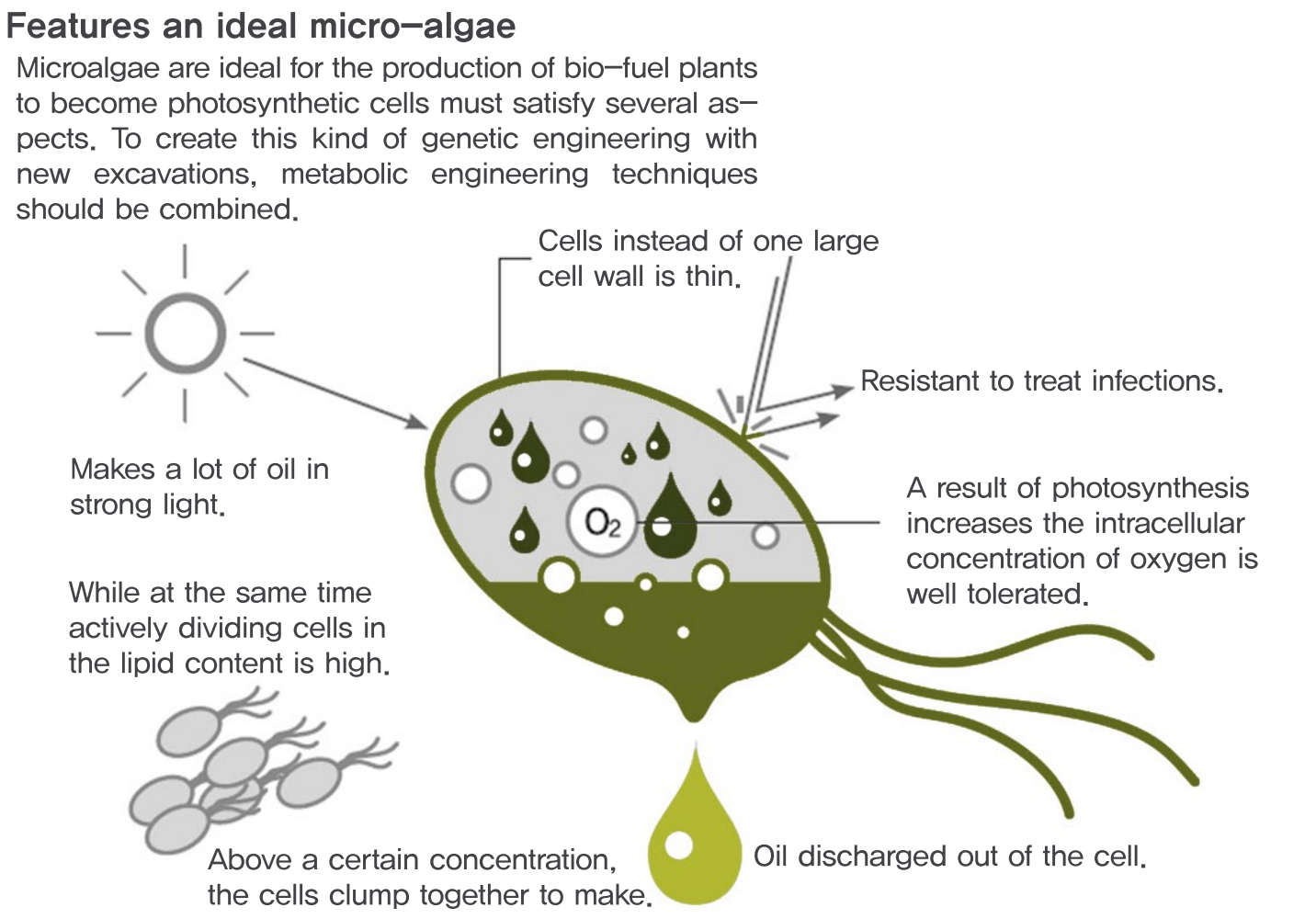
Elevation of the building , which has two enclosures , the outer part of the response to algal. Microal-
gae grow in the glass panels filled with water so that producing the biomass and heat. Aglae, make up
the biomass by photosynthesis. The heat generated at this time is transmitted to the building via a heat
transducer. Biomass energy obtained through photosynthesis is also used in the building, and the remain-
ing energy can be used elsewhere or stored in the butler.

Bubbles in the glass panel is increased, which means that the constant activity of algae is performed in
elevational view. And these activities are changed in the color of the elevation. That is, microalgae not only
transmits their own energy to building but also makes aesthetic appearance of the building better. Also
photosynthesis of the algae serves us blocking the sunlight.
Will be used, in the course of photosynthesis birds, sunlight, is one that is to be used the process of creat-
ing the biomass is performed immediately, thereby at the same time as the sunlight, produce energy.
The sunlight is used to help biomass make more fast because it is used in process of photosynthesis of
the algae. Therefore it blocks the sunlight and makes the energy.

Why Alae Biodiesel Energy



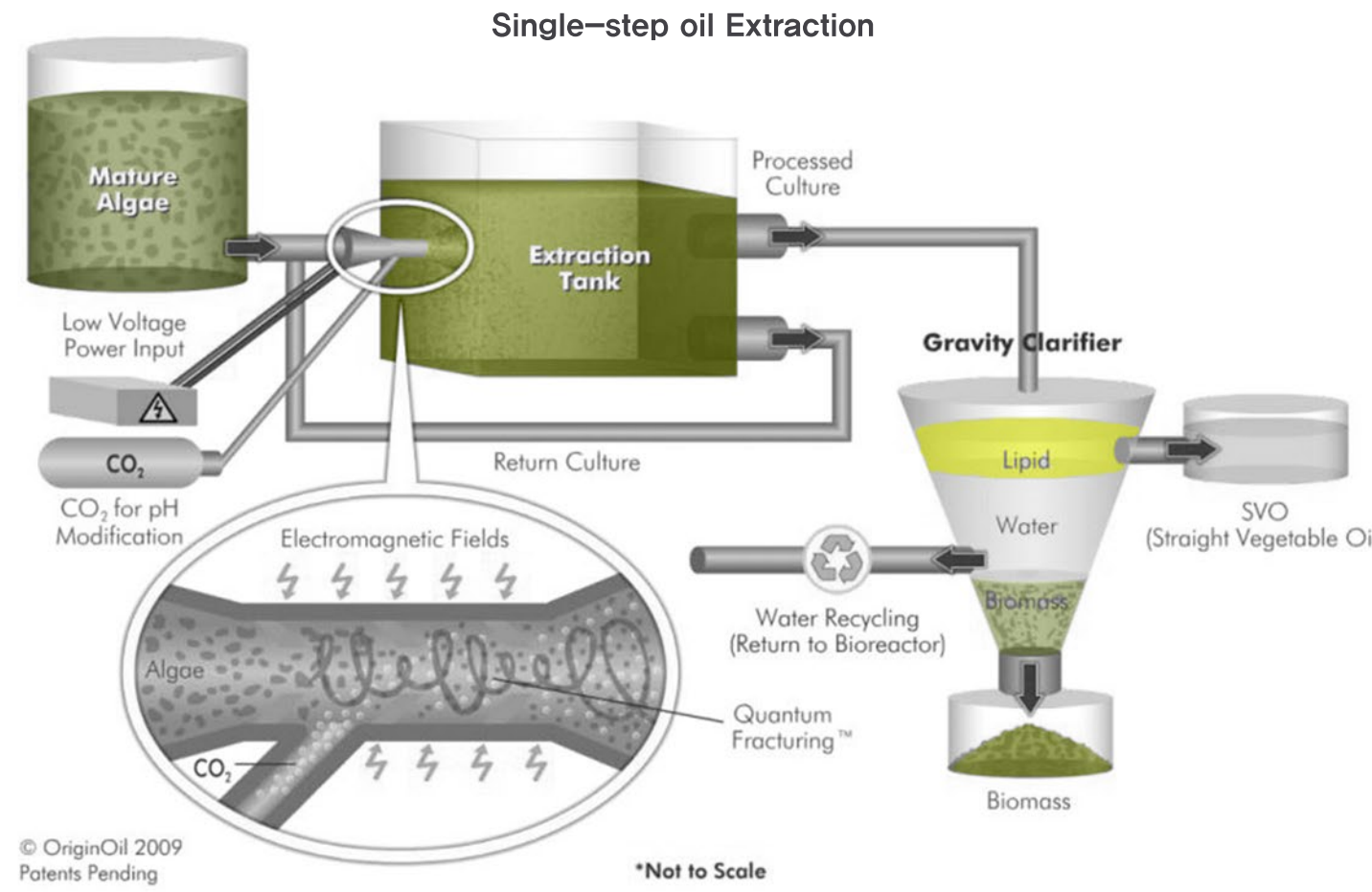
How Alae Biodiesel Works



System Component

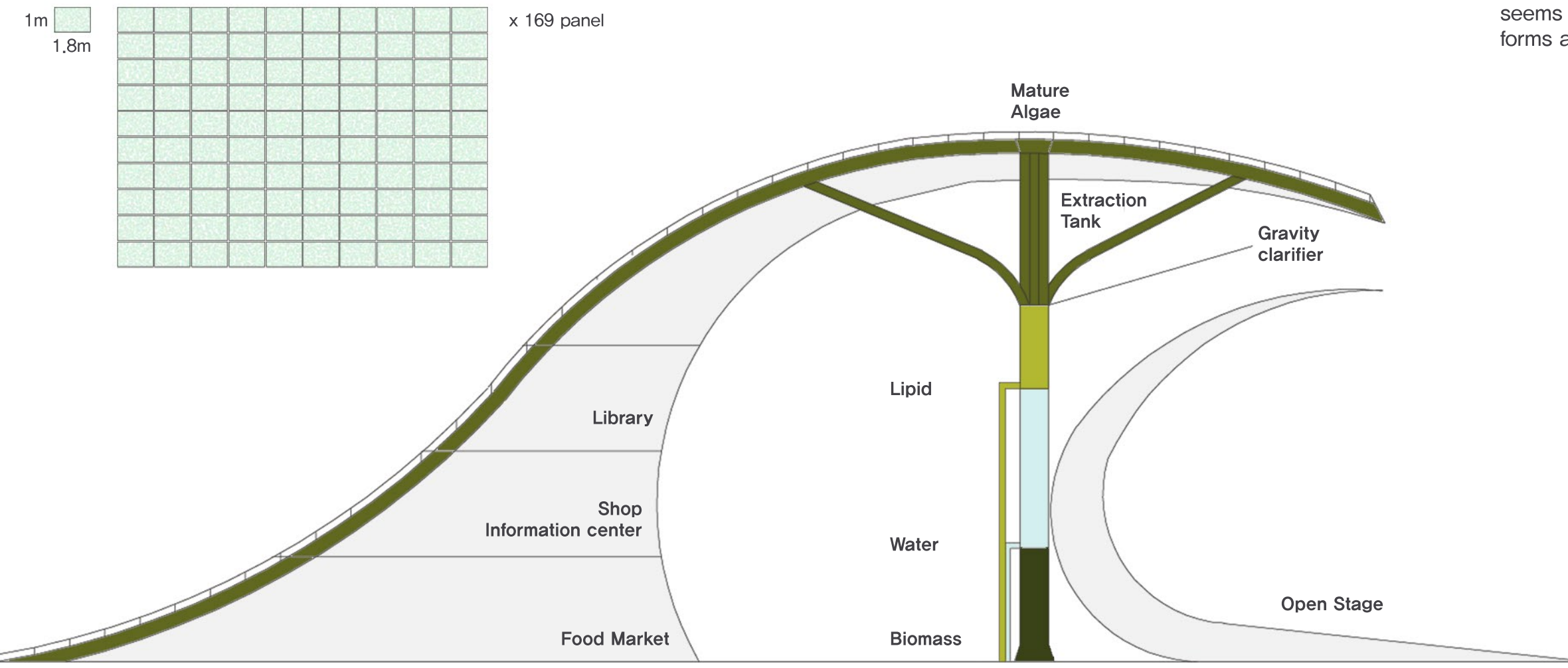
Low Cost Oil Extraction

Origin has a cell wall to break the oil Process for carrying out the Department of elec-
trical equipment coupled with pH modification. And extract the oil from inside the cell.
Algae oil come up to the top for the skimming and the purification. Meanwhile, down
the remaining biomass is another by-product of the process to the floor.



Energy Concept

Matured in the roof panel microalgae extracted through the extraction
tank. And it divided into Lipid, Water, Biomass by gravity clarifier.



Structural Details

It is a structural column and the function of the gravity clarifier.
Due to the microalgae, the roof seems to be green leaves. So it
forms a tree-like image.

