



Oikosol Design Guidelines

20th November 2014

The following document intends to describe guidelines and good design practices for designing Oikosol technology (1), as well as the instructions (2) describing its construction. These guidelines are intended as a recommendation rather than a limitation, and this document might undergo changes in the future to accommodate for new ideas.

Three Main Objectives

Oikosol technology and its instructions have three main objectives:

- Accessibility (to as many people on Earth as possible);
- Ease of assembly and ease of use;
- Durability.

1) Technology Guidelines

- a) Design for the world: simple materials, easy to get or create from raw local materials;
- b) Aesthetics are important inasmuch as they don't restrict guideline a);
- c) The end goal of each technology is to *produce* as much of the desired outcome (power, clean water, food, treated waste and transport potential) as possible;
- d) The technology should be as durable as possible. We reject planned obsolescence;
- e) The technology should be easily transportable whenever possible and whenever this does not conflict with guideline c);
- f) The technology components should enable the use of other open-source components as much as possible, as well as the possibility to 3D print most of the components.

2) Instruction Guidelines

- a) Create the instructions in an accessible format, such as a free word processor compatible with most common word processors;
- b) Include clear designs of the final assembled technology and all the steps in between;
- c) Replace written instructions with figures and steps that don't require language. Whenever this cannot be performed, use the English language;
- d) If you are editing an existing instruction, don't forget to record the most relevant changes you have made from the previous version;
- e) Future proposed template changes to the Soleco v.1 instruction template should have in mind our three main objectives at all time.