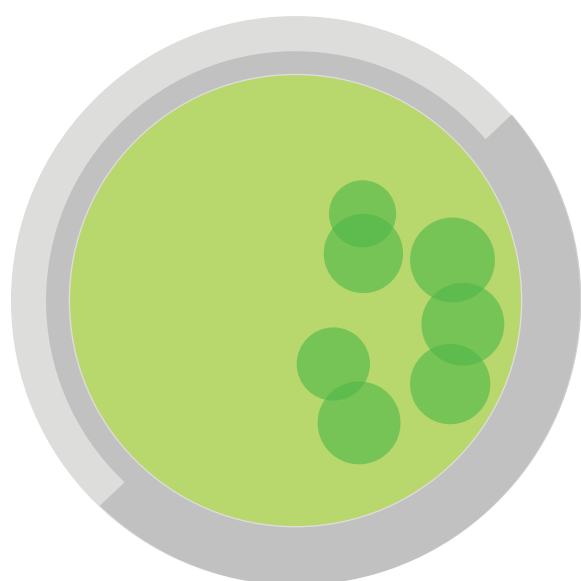
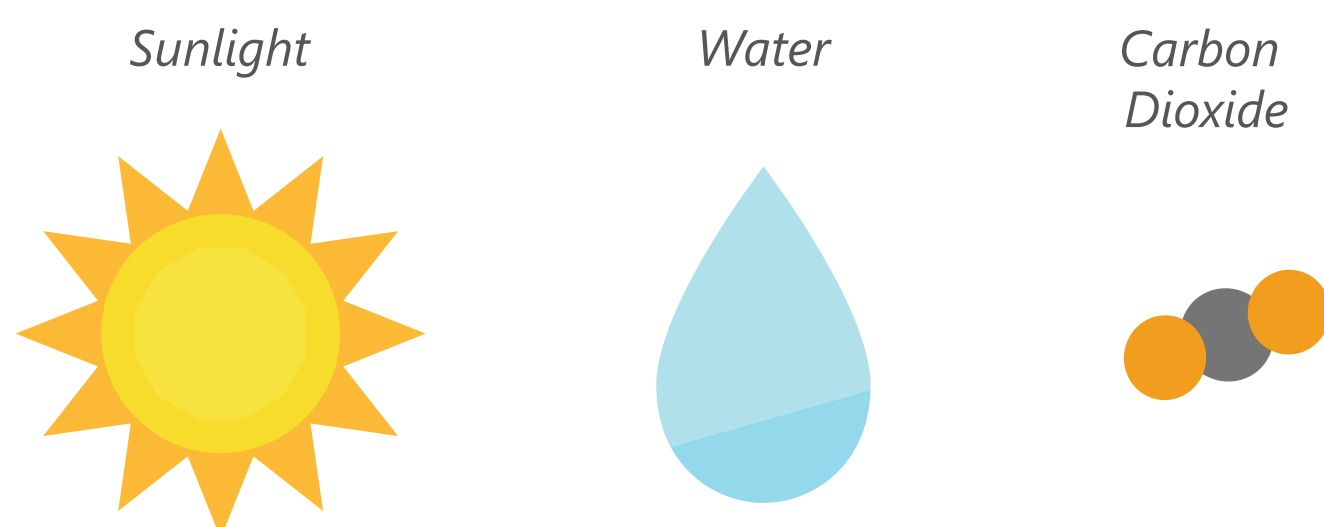


1



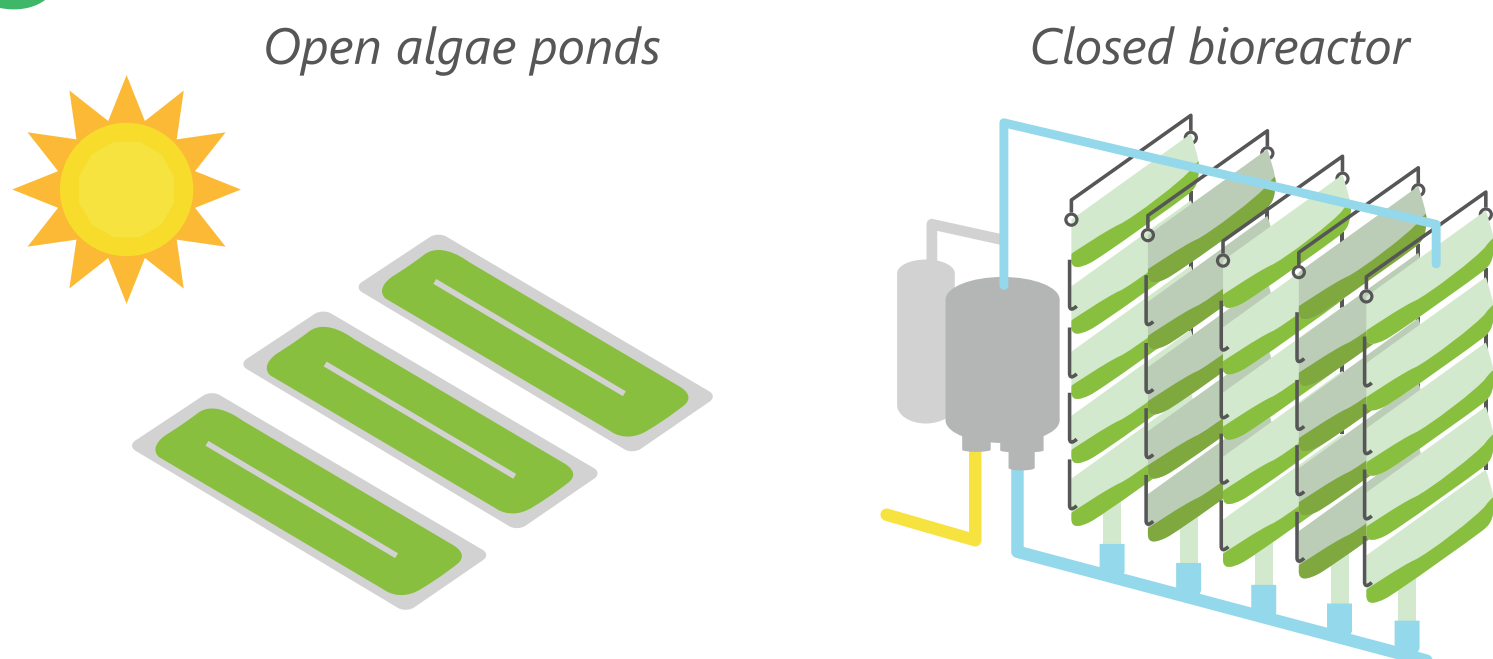
Organisms called algae produce oil that can be upgraded to make fuel. Different species of algae will contain different levels of oil.

2



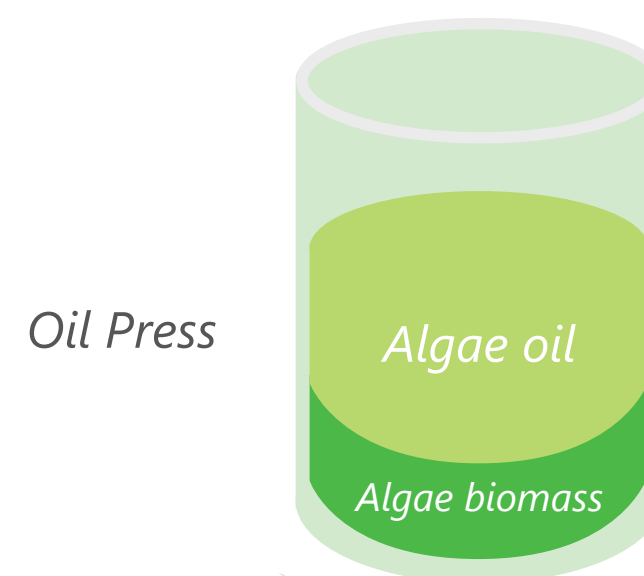
Algae multiply quickly and easily through a process called photosynthesis, meaning that they can produce their own food using only water, carbon dioxide, and sunlight.

3



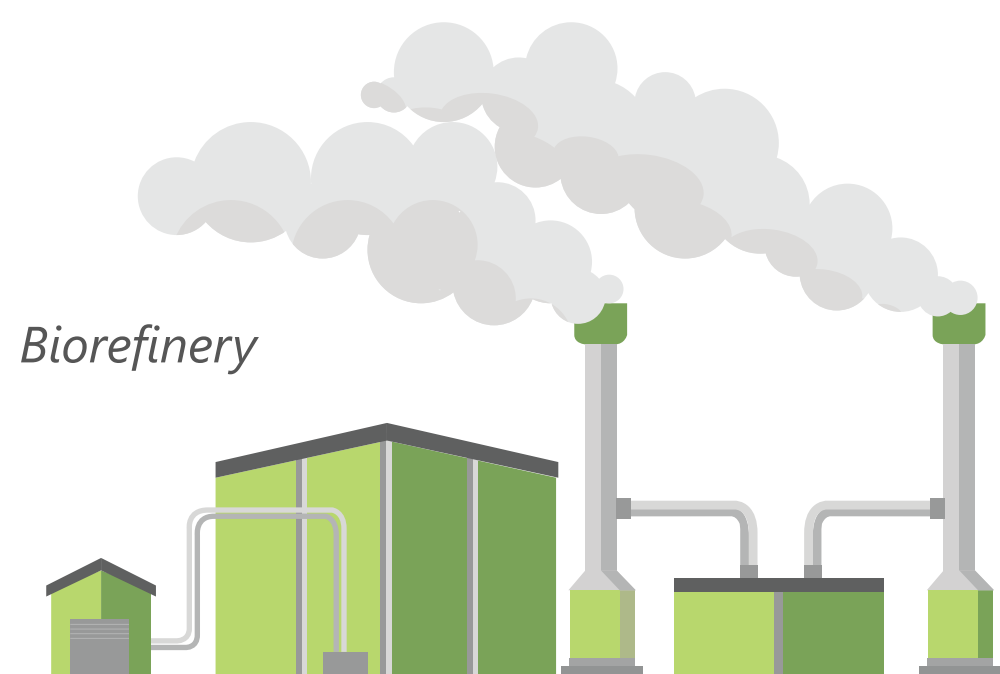
When large batches of algae are produced for industry, they are either grown in open-pond systems or closed bioreactors.

4



The algae are harvested and oil is extracted from their cell walls. This can involve, for example, an oil press that squeezes out the lipids from the algae.

5



After the oil is extracted, it is refined into biodiesel using a process called transesterification. It is heated, blended with methanol, cooled, and washed to remove impurities (see transesterification fact sheet).

6



After it is dried, the algal biodiesel is ready for use as transportation fuel.