Algae: The Future of Biofuels

Algae Quick Facts

- Algae are the fastest growing photosynthetic organism known to exist, yet are not truly plants.
- Algae contain oil which can be used to produce biofuels.
- Algae produce more than 71% of the Earth's oxygen.
- Algae help remove Carbon Dioxide from the air.
- Algae are a large and diverse group of simple organisms.
- Algae are found in nearly every life supporting region of the planet.
- Many types of algae are used as food.

Different types of Algae

- Cyanobacteria (blue-green algae)
- Rhodophyta (red algae)
- Chlorophyta (green algae)
- Heteromontophyta (brown algae)

Algae Based Biodiesel Production Process

1. Algae Cultivation
   - Light, CO₂, Nutrients, Water,
   - Oxygen

2. Algae Harvest
   - Algae Slurry

3. Oil Extraction
   - Extraction Agent
   - Algae Oil

4. Biofuel Production
   - 80% No. 2 Diesel
   - Energy