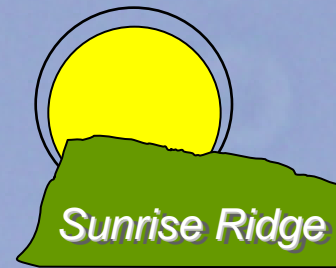


Case Study: Algae Biofuels



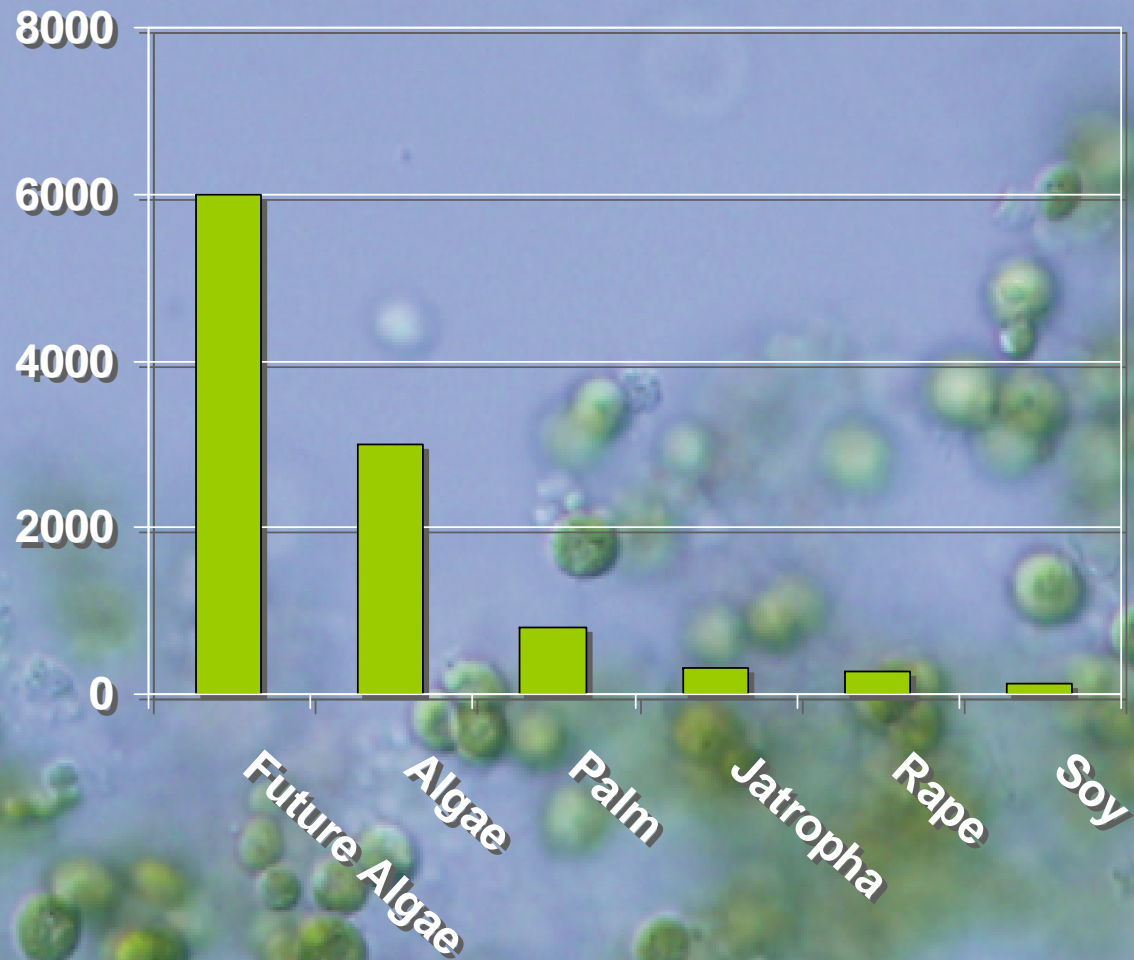
**Australian American Chamber of Commerce
Energy Conference – Houston, Texas
29 January 2009**

Why We Like Algae Fuels



- It makes diesel – high btu content
- Potentially compatible with existing fuel infrastructure
- Potentially scalable
- Doesn't compete with food
- Does not require arable land

Oil Yield, Gal / Acre / Year



Further Potential Benefits

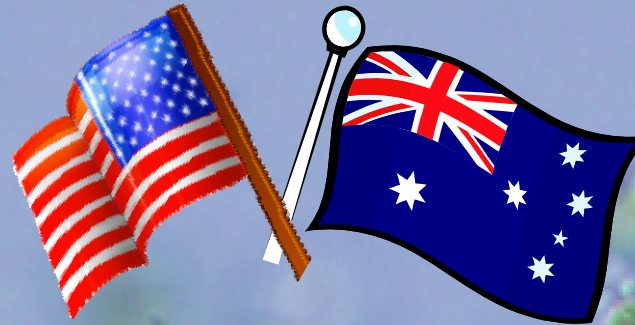


**Secure, Domestic
Oil**

**Recycles Carbon
Dioxide**

**Improves Water
Use & Availability**

**Helps Rural
Economy**



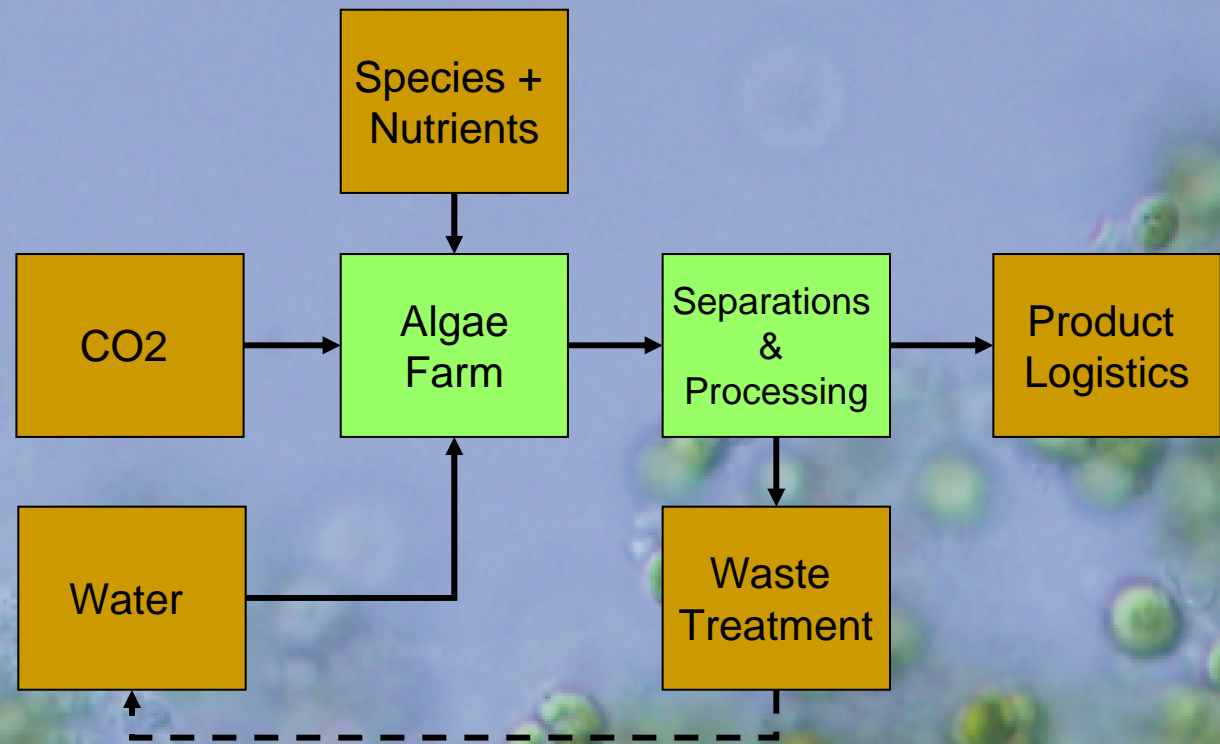
**Reduces Ocean
Dead Zones**

**Lowers Food &
Feed Costs**

Our Approach



- “Green Oilfield” Business Model
- Low Cost
- Extensive Collaboration
- Specialized Technology
- Site with “Free” Feedstocks



Commercialization Challenges



Techno-economics

- ▣ Cost
- ▣ Scale
- ▣ Growing
- ▣ Harvesting
- ▣ Conversion

Obtaining Inputs

- ▣ Land, water, CO₂

Obtaining Permits

Penetrating Markets

- ▣ Feed
- ▣ Fuel



Money
Time
Skill
Fortune

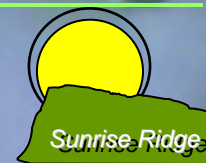
Private industry

- ▣ Start-ups
- ▣ Oil co's
- ▣ Ag co's

Government

- ▣ DOE
- ▣ CSIRO

Killer App: “Gas to Liquids”



More information



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