



Algae feedstock for SAF

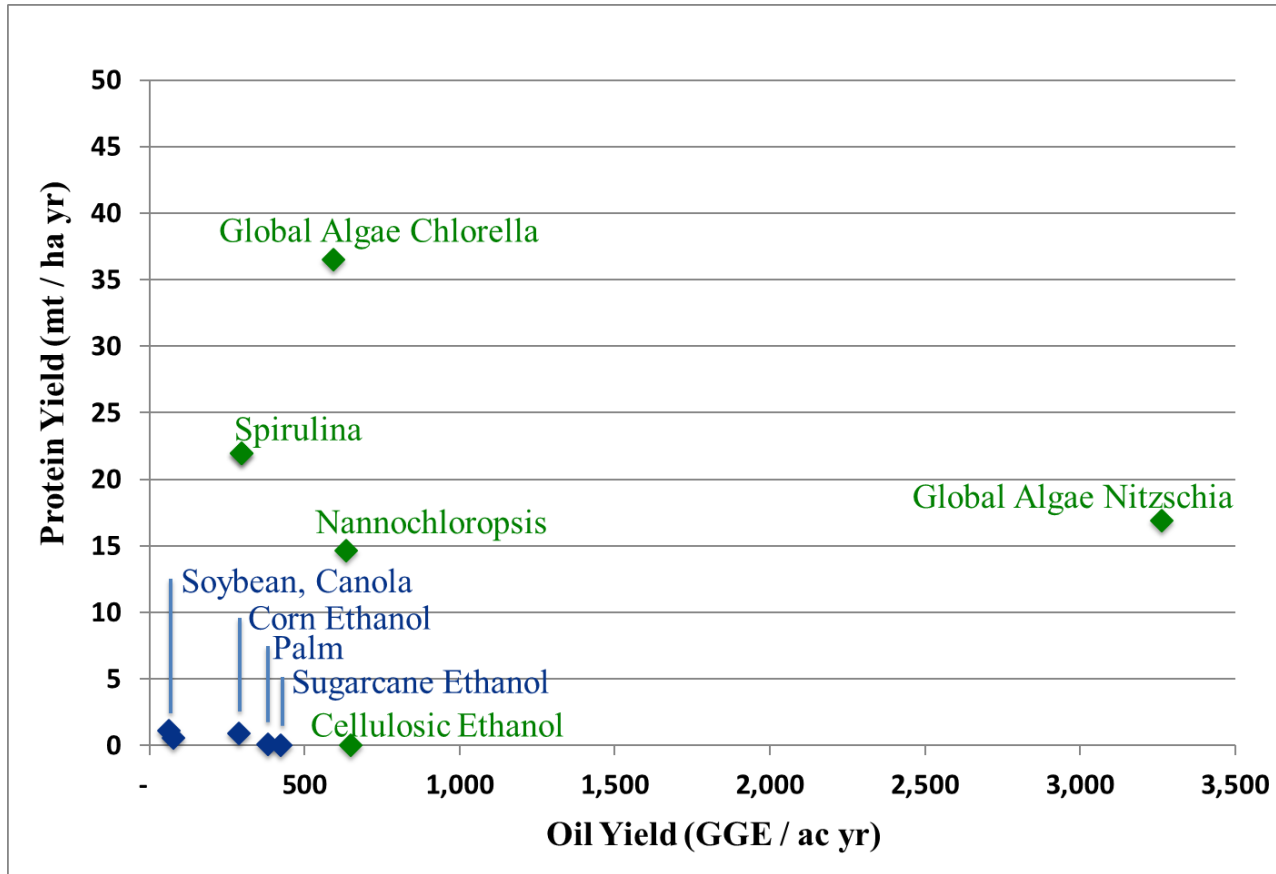
Global Algae Innovations

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Algae Benefits for SAF



Unprecedented Productivity

- More food
concurrently produce 20 times more food
- More water
saves 100 to 500 gallons of water/GGE
- More land
30 times more oil and protein
- Lower GHG
90% GHG reduction for SAF

Essential component of all IPCC pathways

Protein and oil productivity addresses root cause of deforestation

XPRIZE Carbon Removal – one of 15 technologies most likely to achieve gigaton scale

Fundamental Issues Overcome!

Many Opportunities to Lower Production Cost

Global Algae R&D Farm



Global Algae Technology Suite

Contamination: No culture crashes

Raceway design: Scalable to 200-acre raceway

Cultivation: high productivity, lipid, and protein

CO₂ supply: direct air capture or point source

Harvesting: 1/100th energy, full water recycle

Extraction & drying: 1/10th energy

Cost: Reduced from \$30/GGE to \$3 - \$5/GGE

Many R&D Opportunities

Most important now

- Biomass separations and co-products
- Long-term data at engineering scale

Lots of new data will drive innovations

- 3rd generation sequencing
- Spectroscopic algae composition
- On-line media and algae composition

Key metrics

1. TEA driven - \$/mt
2. Outdoor
3. Year-round data
4. Large enough raceways for representative data
5. Product spectrum - quality and valuation

Scale-up of algae farming for SAF

View from end of 3.2-acre Raceway

Key requirements to obtain financing for commercial-scale

- Key performance parameter validation at intermediate scale
- Representative products to customers for off-take agreements
- Year-round operation

Global Algae's path to commercial-scale SAF in 2026-2027

- Breaking ground this month on new algae farm in California
 - DOE awards for cultivation and harvesting, option for 12.5-acre largest raceway
 - DOE award for scaling up novel drying and extraction
 - Use farm to generate data and products to enable commercial-scale financing
- State-of-the-art algae farm for engineering-scale algae feedstock trials