

# International Low Carbon Fuel Symposium

Lawrence Berkeley  
National Lab



**Rick Zalesky**

**Vice President, Biofuels and Hydrogen Business**

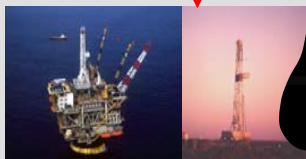
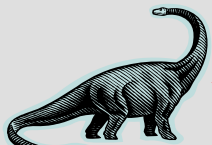
**May 18, 2007**

# Conventional and Green Crude Process



## Conventional Crude

Bury, Wait 50  
Million Years



Explore, Drill, Produce Conventional Crude\*  
(Local Infrastructure)

\*Stable, Flowable, Energy Dense Liquid

Pre-Treat at  
Refinery Site as  
Needed



Sunshine + Water + CO<sub>2</sub> +  
Nutrients + Plant Life



## Green Crude

Harvest and  
Gather  
(Locally)



Produce Green Crude\*  
(Local Infrastructure)

\*Stable, Flowable, Energy Dense Liquid

Pre-Treat at  
Refinery Site as  
Needed



Transport Over Long Distances  
(Pipeline, Tanker, Barge, or Rail)



Refine into Consistent, High-  
Quality Liquid Fuel Products  
(Gasoline, Diesel, etc.)



Distribute Regionally Through  
Established Infrastructure  
(Pipeline, Tanker, Barge, or Rail)



Market Via Established  
Network of Service Stations

