



# Canola Biodiesel and Beyond

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# Imperium Renewable Inc.

## Biodiesel Production:

- Gray's Harbor (IGH), largest single-line biodiesel production plant in the world (continuous flow process) at 100 million gallons per year (MMGY)
- Seattle Biodiesel, testing and research facility (batch process) capable of 5 MMGY
- Building to 400 MMGY production
- Deepwater port access
- Multifeedstock capability
- ASTM & EN spec

## Finance:

- Equity + debt financed
- Funding from Venture Capital community

## Research:

- Next-generation feedstocks: algae & jatropha
- Catalytic & process technologies
- Jetfuel





## Imperium Grays Harbor

- 100 MGY with expansion capacity of 300MGY
- Deep Water Access
- Multi Feedstock
- Non-Detectable Water & Glycerin Levels
- Unit Train Access
- On Site Tank Farm 18 MG with expansion to 24 MG permitted.



# Marine



**Waterway transportation is achieved at port terminals 1 and 2. Imperium has constructed over 5,000 feet of piping from the tank farm to the terminals to enable the delivery of vegetable oil and biodiesel from/to tankers and barges.**

# RAIL



Imperium has added nearly a mile of new track and performed extensive upgrades to the Port's existing rail infrastructure. The rail consists of four parallel track capable of accommodating a 90-car unit train.

**JUN 6 2007**

# Materials Storage

(18 million gallon tank capacity)



## **SUSTAINABILITY: Imperium Renewables**

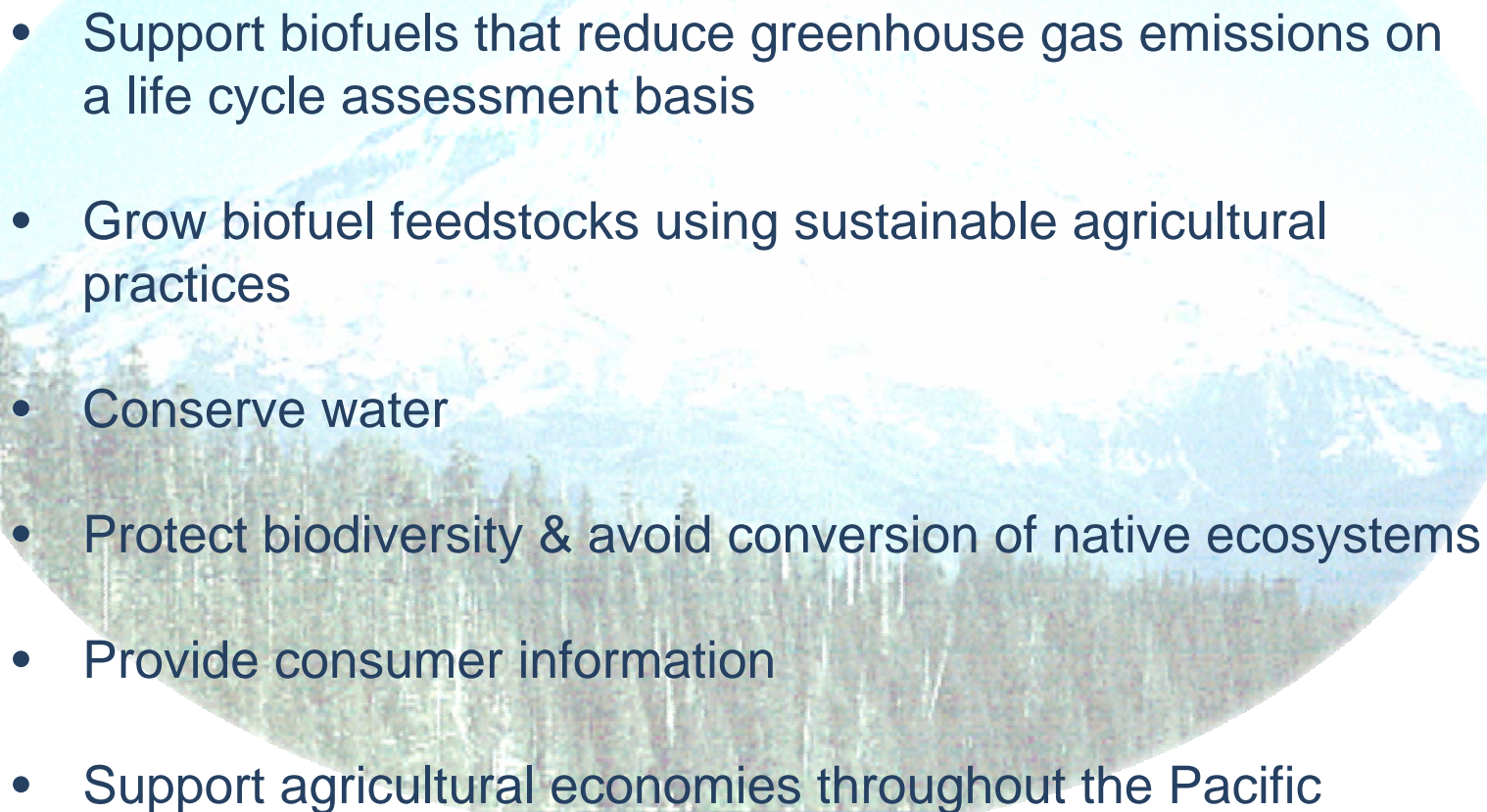
- Biodiesel is part of a multi-pronged approach toward reducing greenhouse gas emissions and promoting energy independence
  - Biodiesel yields 3.2 units of energy for every unit of input
  - Reduces CO<sub>2</sub> emissions by 78%
- Dedication to using the most efficient vegetable oil crops available
- Membership in the Roundtable on Sustainable Palm Oil – *IRI was the first biodiesel company to join* – and the Roundtable on Sustainable Biofuels
- Investment in Research & Development to lead the promotion of new non-edible oilseed and algae development in biofuels industry

***Read about our efforts and policies:***

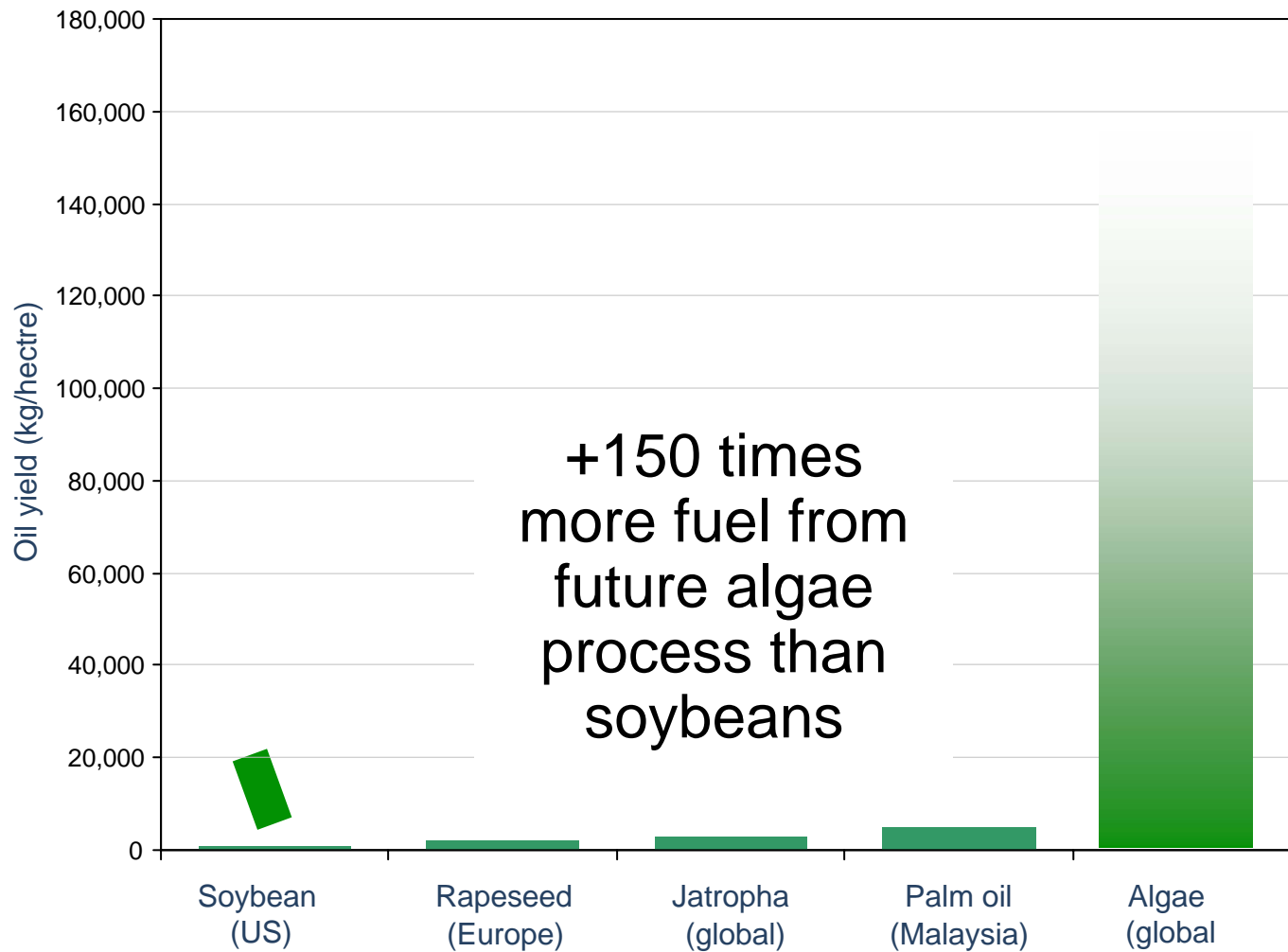
**[www.imperiumrenewables.com/who.we.are.html](http://www.imperiumrenewables.com/who.we.are.html)**

**SUSTAINABILITY:**

**Pacific Northwest Biofuels  
study by OEC**

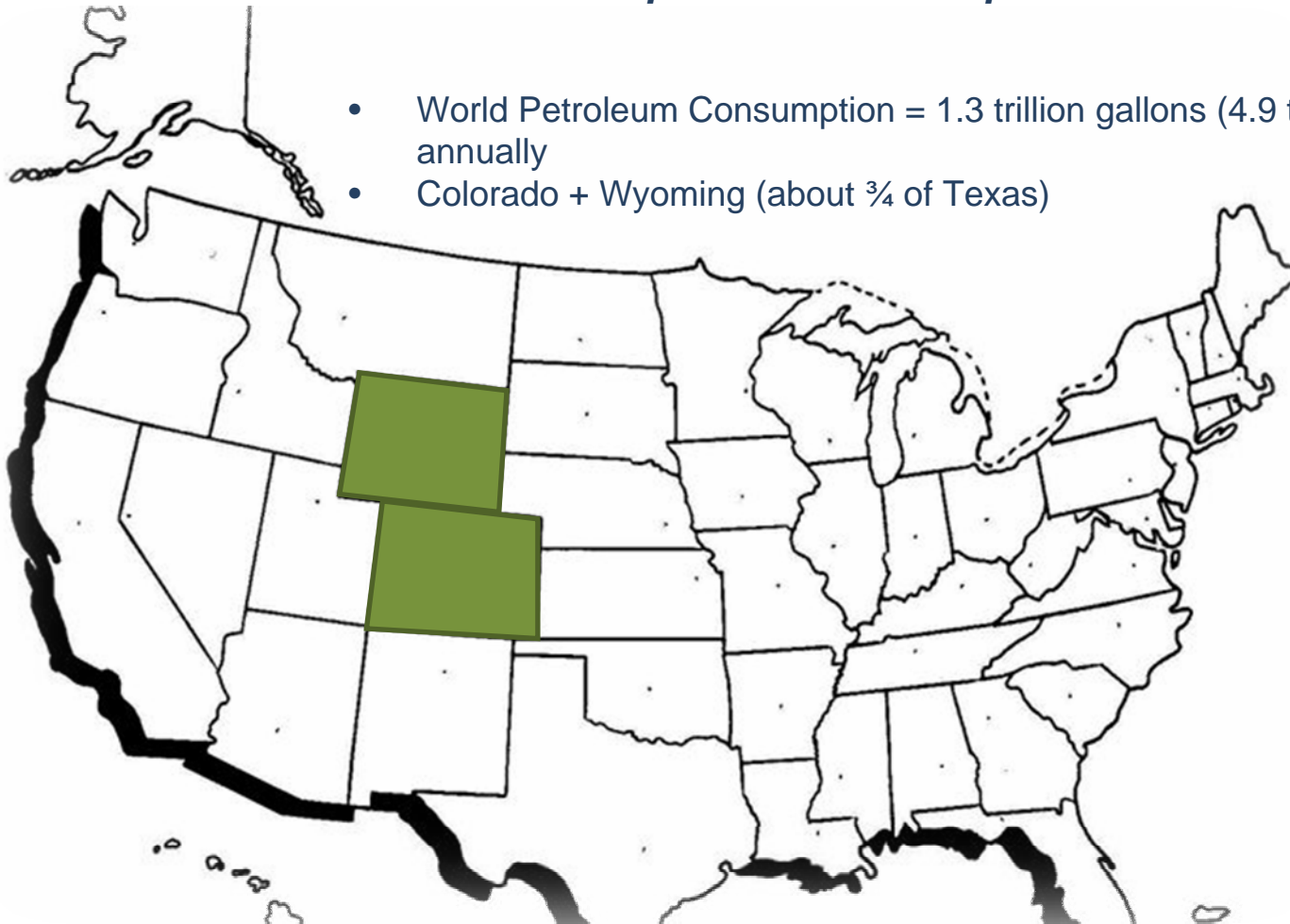
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- Support biofuels that reduce greenhouse gas emissions on a life cycle assessment basis
  - Grow biofuel feedstocks using sustainable agricultural practices
  - Conserve water
  - Protect biodiversity & avoid conversion of native ecosystems
  - Provide consumer information
  - Support agricultural economies throughout the Pacific Northwest

## Oil Yields for World Crops



***Yielding 10K gallons per acre, 130 million acres (52.6 million hectares) of land dedicated to producing biofuels from algae are needed to replace the world's petroleum consumption.***

- World Petroleum Consumption = 1.3 trillion gallons (4.9 trillion liters) annually
- Colorado + Wyoming (about  $\frac{3}{4}$  of Texas)



## Websites

1. Imperium Renewables: [www.imperiumrenewables.com](http://www.imperiumrenewables.com)
2. Roundtable on Sustainable Biofuels (RSB):  
[www.bioenergywiki.net/index.php/Roundtable\\_on\\_Sustainable\\_Biofuels](http://www.bioenergywiki.net/index.php/Roundtable_on_Sustainable_Biofuels)
3. BioenergyWiki: [www.bioenergywiki.net](http://www.bioenergywiki.net)

Thank you!

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