



An Innovation towards Energy Independence

NRG's Economically-Viable Renewable Energy Solutions: ESTERHOL™






The Fossil Fuel Challenges

- Demand increases fast, so does the price
- Dependency on foreign imports, posing strategic constraints for our country
- It pollutes the environment
- It's not renewable; it can't last forever

Our Management Team

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- ◆ Chairman, Bradley Snower, has served as a senior executive for privately owned companies and has 20 years of experience building and leading high growth companies. Bradley Snower earned his MS in Physics and has been working on alternative fuels for over 25 years.
 - ◆ Chief Executive Officer Glen Snower has worked in the Commodity business and was a member of the Chicago Mercantile Exchange, specializing in hedge funds and option spreads.

Our Management Team

- ◆ President Jeff Hardin has successfully led a start up company to funding by a NYSE listed financial services company; earned his MBA in Finance and a BS in Chemistry and Biology.
- ◆ VP R&D Bruce Rosen, earned his PhD in Chemistry and has developed numerous patents for UOP and British Petroleum (BP) as a chemist. Dr. Rosen is now V.P., Fuel Development for NRG.
- ◆ VP Christopher Hansen, JD, has over 10 years experience in corporate counsel with leading Chicago law firms; has successfully owned motor oil and heavy oil production facilities specializing in private label production for both domestic and international companies.





US Government Encourages the Development of Alternative Fuels

- A bill passed in August 2005 stipulated that US should produce 750 million gallons of bio-fuel by 2012, 25 times that of 2004.
- Qualifier bio-fuel producers can receive up to \$1 per gallon tax rebate from the federal government.



The Promise of Esterhol

- It is renewable energy
- It can reduce the dependency on foreign imported fossil fuel
- It promotes local agriculture.
- It reduces pollution.
- It improves fuel lubricity, thus prolong engines' lifespan



The ESTERHOL™ Advantages

- Can be derived 100% from vegetable sources; 100% renewable.
- The only bio-fuel to qualify for diesel standard ASTM 975.
- Very low pollution.
- Comparable gel-point to petro-diesel, can be used in low temperature environment.
- It improves fuel lubricity, thus prolong engines' lifespan.
- Burning characteristics comparable to diesel.
- Is readily mixable with petro-diesel at any ratio.
- Produced through a proprietary process, no need for heating, thus a much cleaner process with higher net energy produced.
- At current market condition, it costs less to produce than other bio-diesel.

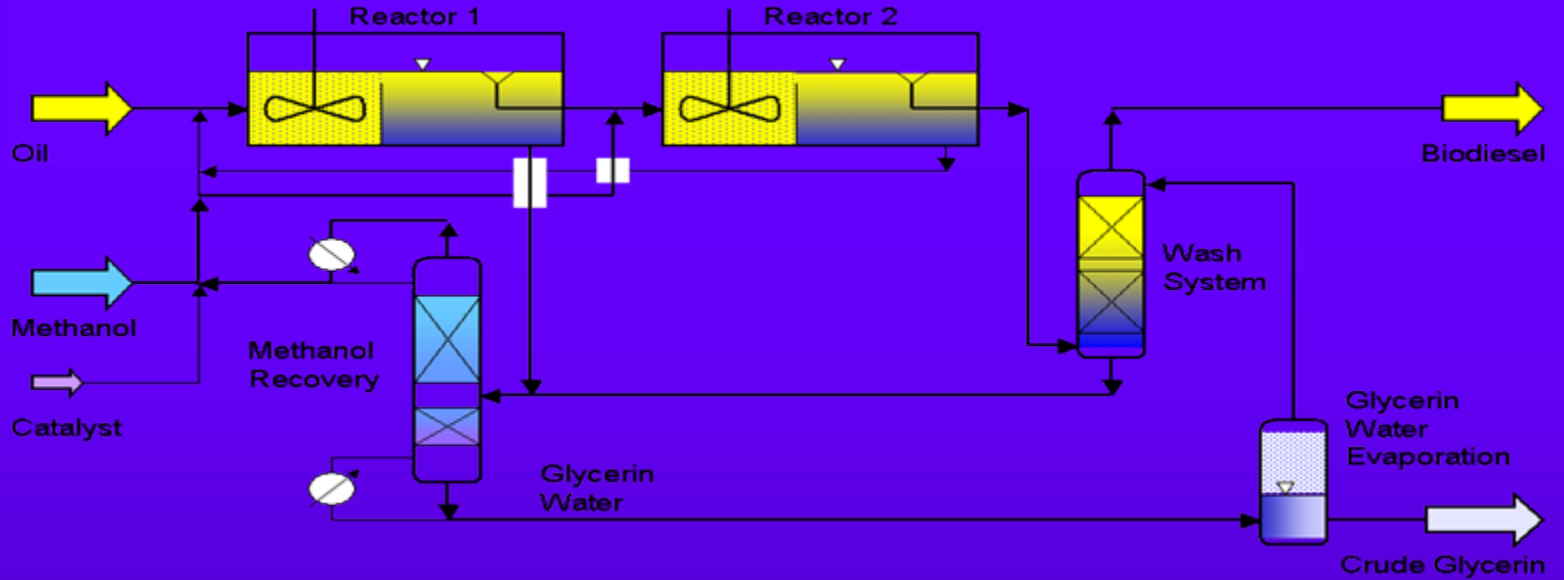
The chart compares ESTERHOL with bio-diesel and bio-diesel blends currently available on the market. The figures in the chart below are based on diesel fuel at a + 0 level of Emission Types. The figures below are from the EPA in reference to bio-diesel and diesel.

| Emission Type | <u>ESTERHOL</u> | * <u>Bio-diesel TM</u> | * <u>Bio-diesel 20%</u> |
|---|------------------------|-------------------------------|--------------------------------|
| <u>Regulated</u> | | | |
| Total unburned hydrocarbons | - 90% | - 67% | - 20% |
| Carbon Monoxide | - 78% | - 48% | - 12% |
| Particulate Matter | - 81% | - 47% | - 12% |
| NOx (Nitrogen emission) | NA | +10% | + 2% |
| <u>Non-Regulated</u> | | | |
| Sulfates | -98% | - 80% | - 20% |
| PAH (Polycyclic Aromatic Hydrocarbons) | -100% | -100% | - 20% |
| nPAH (nitrated PAH's) | - 90% | - 90% | - 50% |
| Ozone | - 80% | - 50% | - 10% |

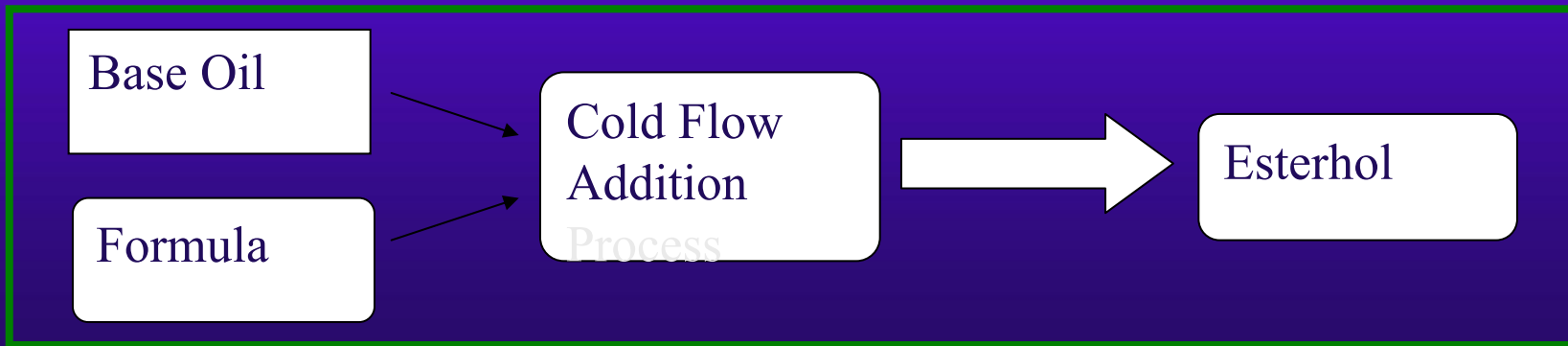
*** Average range estimation * EPA Published Results**



Simplified Biodiesel Process



NRG Esterhol Production Process





NRG's Success Story

- EPA Approval of ESTERHOL™ D5 in June 2006.
- EPA Approval of ESTERHOL™ DL5 in September 2006.
- NRG has developed and had approved from the EPA 2 proprietary formulas of its Esterhol biofuel, the only biofuel to meet the ASTM D975 standards.

News Conference on April 20



- ◆ Brad Snower
Posing with
Mayor
McDermott & US
Congressman
Visclosky
- ◆ In the
background is the
test vehicle – a
city garbage truck

News Conference on April 20



- ◆ It appeared on CBS, PBS, and FOX news that night



Thank You NREL