ETHANOL INDUSTRY UPDATE

Renewable Fuels Association

November, 2007



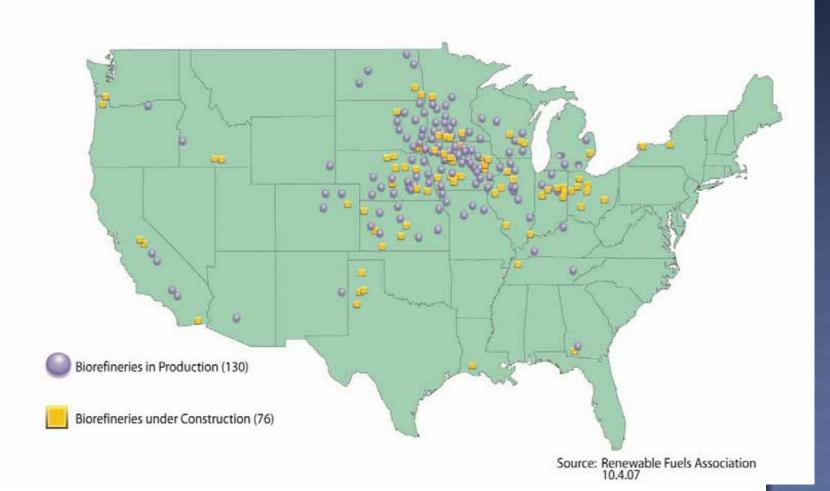
TODAY'S TRANSPORTATION FUELS

- Gasoline 140 billion gallons
- Ethanol- 7.02 billion gallons
 - E10- 50% of nation's gasoline
- E85 ~50 million gallons
 - 1300 fuel stations offer E85
 - 170,000 fuel stations in US
- Diesel 45 billion gallons
- Biodiesel-~500 million gallons

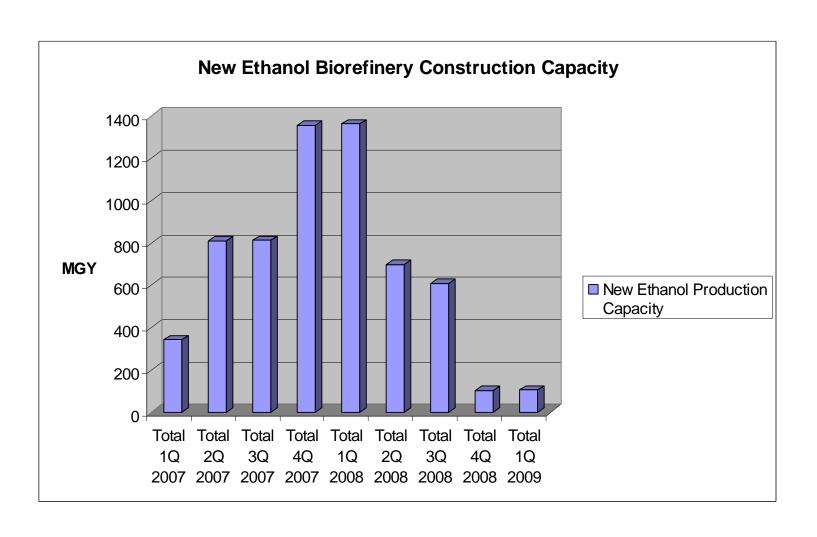
ETHANOL SUPPLY

- 2006 Production of 5.3 billion gallons/ yr
 - Actual 2006 production 4.9 billion
- November 2007, Production 7.02 billion gallons/ yr
 - 131 Plants in 21 States
- 72 plants still under construction
 - Additional 6.4 billion gallons/ yr
- Estimating 13.4 billion gallons/ yr 2009

U.S. Ethanol Biorefinery Locations



ETHANOL PRODUCTION INCREASE



MARKET CONDITIONS

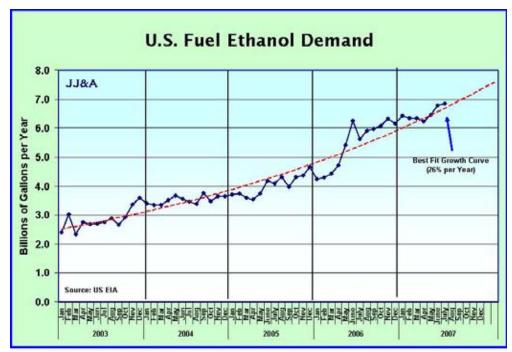
- Price of Crude Oil is higher than ever in history.
- Gasoline price had dipped and is rebounding.
- Price of Corn is higher than expected with the largest crop in history.
- Ethanol price had dipped and rebounding.
- There is NO Glut!

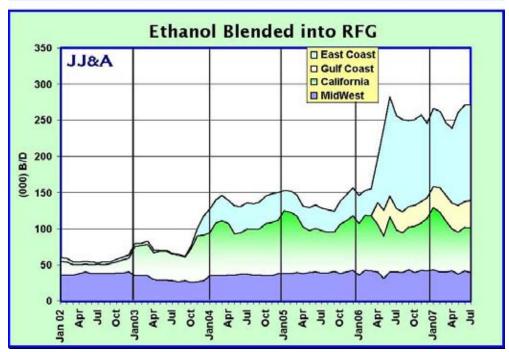
ETHANOL DEMAND

- 2005- 3.75 billion gallons per year
- 2006- 5.42 billion gallons per year
- 2007- 6.47 billion gallons per year

Demand increasing at ~20%/ year

JJ&A Oxygenate Data, August 2007

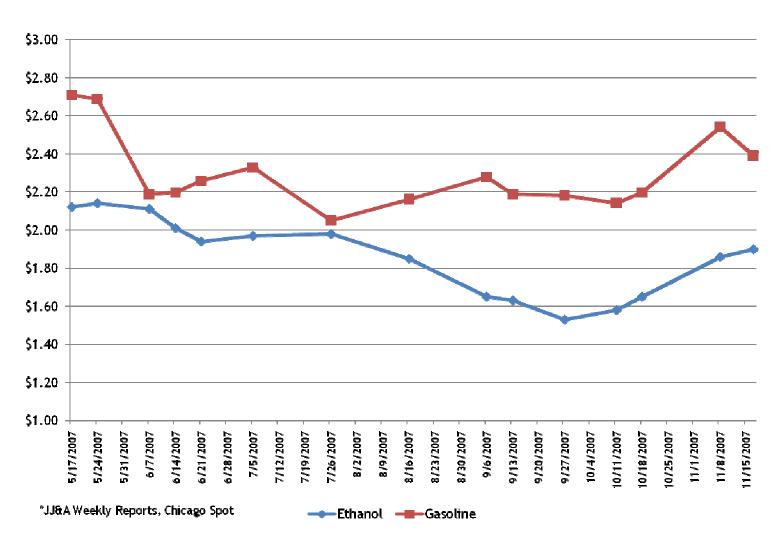




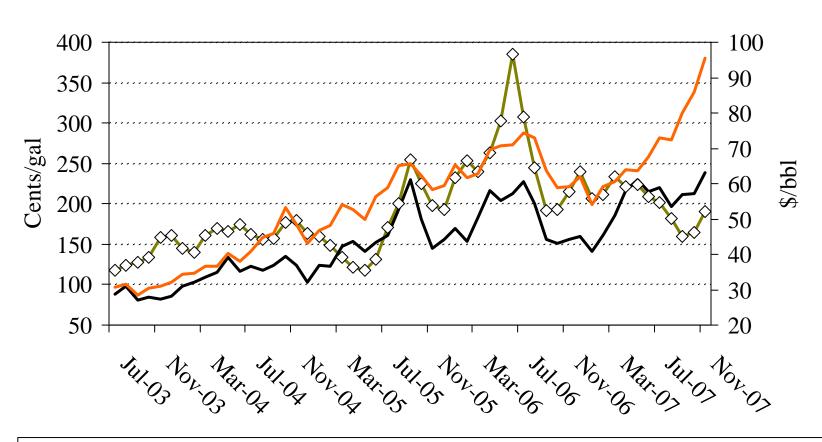
UNITED STATES GASOLINE DEMAND

Gasoline Stream	July 2006	July 2007
Conventional	4,996	4,746
Conventional w/ Ethanol	1,409	1,702
RFG w/ Ethanol	3,096	3,123
RFG no Ethanol	74	53
Totals	9,585	9,624
•JJ&A EIA Oxygenates- Gasoline Data for July 2007		

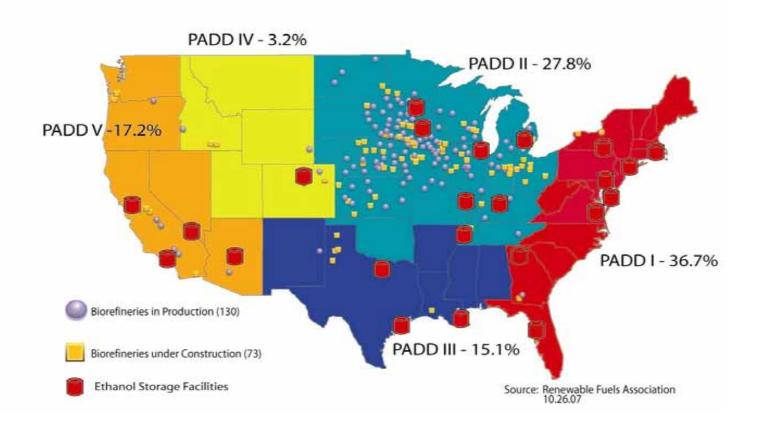
GASOLINE ETHANOL PRICING



Monthly Average Spot Market Prices



Gasoline Consumption



EXPANDING ETHANOL MARKET

- Components needed for expansion:
 - Favorable fuel regulations
 - Supply
 - Infrastructure
 - Positive economics

MIDWEST REGS: A CLOSER LOOK

- Ohio, Illinois, Indiana, Kentucky, South Dakota, Wisconsin- no regulatory issues
- Minnesota, Missouri (2008)-10% state mandate, no issues
- lowa, North Dakota, Nebraska- possible volatility issues
- Only 75% of lowa gasoline is blended with 10%
- Only 62% of Nebraska gasoline is blended with 10%, up from only 42% blending two years ago

FOCUS ON SOUTHEAST STATES

Proposed regulation

- Tennessee- September 2007
- Georgia- December 2007
- South Carolina- October 2007
- North Carolina- 2Qtr 2008

Under consideration

Florida

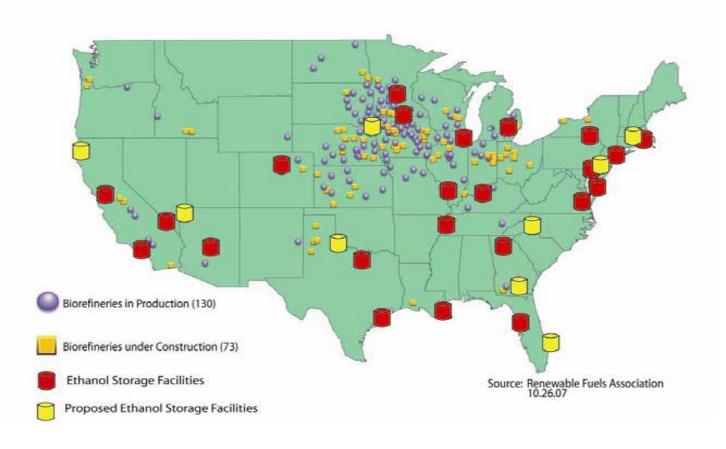
OTHER EFFORTS

- Southwest
 - Arizona
 - Nevada
- Northeast
 - New York
 - Pennsylvania
 - Maryland
- West
 - California moving to 10% blends
 - Oregon passed 10% mandate

INFRASTRUCTURE BUILD

- Transportation
 - Expanded Truck access
 - Expanded Rail access
 - Expanded Barge access
- Terminals
 - 1352 terminals in US Petroleum and Chemicals
- Ethanol is clean non toxic product, easy storage commodity

Major Ethanol Storage Terminals



Sewaren, New Jersey Ethanol Terminal



Sewaren, New Jersey Ethanol Terminal



Ethanol Terminal Development

- Motiva
- Kinder Morgan
- US Development
- Magellan
- Exxon-Mobil
- Marathon
- Sunoco
- Numerous Smaller Terminals

WHAT IT TAKES TO KEEP PRODUCT MOVING..

- Transportation is 3rd Highest Cost at a Plant
 - Behind Raw Material and Energy
- Typical Ethanol Plant capacity:
 - 100 Million Gal. / Year
 - Logistics needs per year
 - 3448 railcars of Fuel Ethanol10 tank cars per day
 - 9867 railcars of Corn60% by Rail, 17 railcars per day
 - 3048 railcars of DDGs9 hopper cars per day

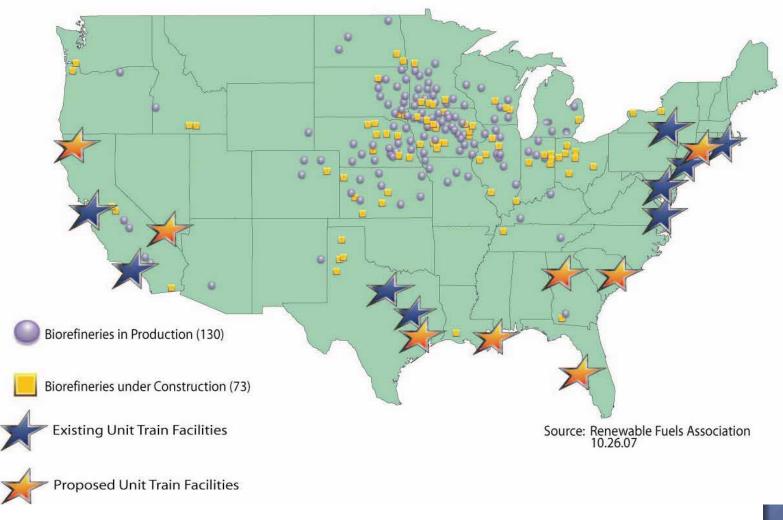
RFA 22

THE VIRTUAL PIPELINE

- Ethanol in Unit Trains
 - "Ethanol Express"
 - Based on coal unit train success
- Shipment volumes ~3 million gallons
 - Similar to traditional pipeline movements
- Single trains consisting of 65, 75, 95 ethanol cars
 - Unit Train building sites expanding
- Origination in Midwest- Destination all coasts

RFA 23

Unit Train Landing Locations



RFA 24

Building a Unit Train

- 4 mile track loop to hold up to 100 railcars
- Multiple Major Railroad Access:
 - All Class I Railroads: UP, BNSF, NS, CSX, CN
- Ethanol Plants with train build capability:

Heron Lake Aurora

Ashton Albion

Charles City Fort Dodge

Columbus

Energy Bill Driving Cellulose

- Senate Energy Bill increases RFS to 36 BGY by 2022, w/ 15 BGY from Corn, 21 BGY from Cellulose
- House Offer increases RFS to ~ 20 BGY by 2015, w/ further growth determined by EPA
- CAFÉ & Conservation Measures Included
- Leadership wants bill on the floor in December.
- Chances of Passage?

RFA AND MINNESOTA E20

- Research work complete- final reports being written
- Pilot Study- not a waiver effort
 - What would a waiver effort entail?
- Designed with input from Auto and Oil
- Presently 3 Major Components
 - Materials Compatibility
 - Fleet Demonstration
 - Emissions Testing

SUMMARY

- Ethanol Demand Expanding Rapidly.
- Supply able to sustain larger, more consistent market.
- Ethanol Supply/Demand Balanced, price is recovering.
- State Regulatory Environment Improving.
- Infrastructure build both terminals and rail - progressing.
- Energy Legislation promises to stimulate similar expansion in cellulosic ethanol.

