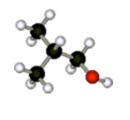




WORLD SCALE OIL, GAS, AND RENEWABLE ENERGY COMPANY



BIOBUTANOL

Butamax` Advanced Biofuels...c



WORLD LEADER IN
BIOTECHNOLOGY RESEARCH &
DEVELOPMENT AND PROCESS
ENGINEERING







CORN



WHEAT



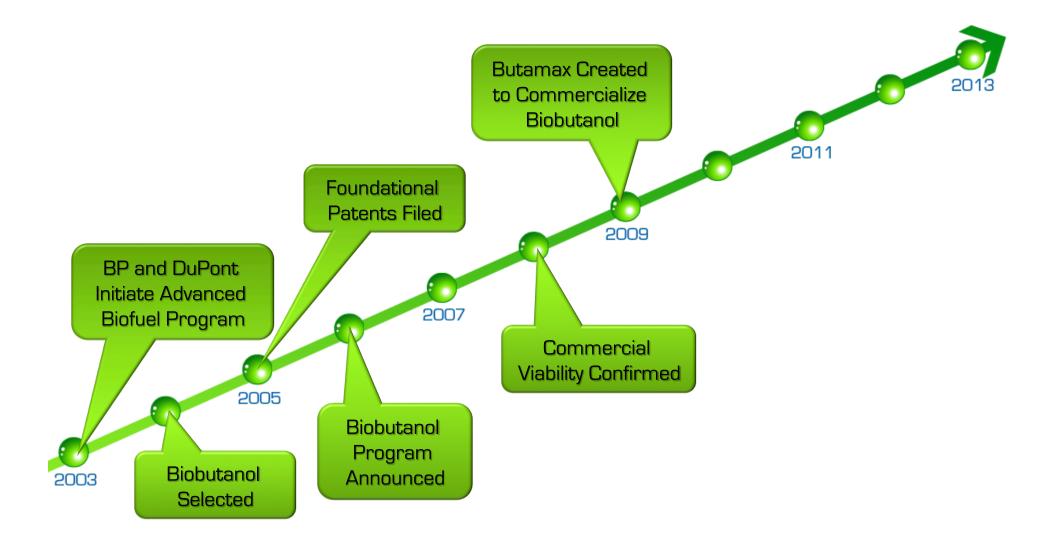
CELLULOSE

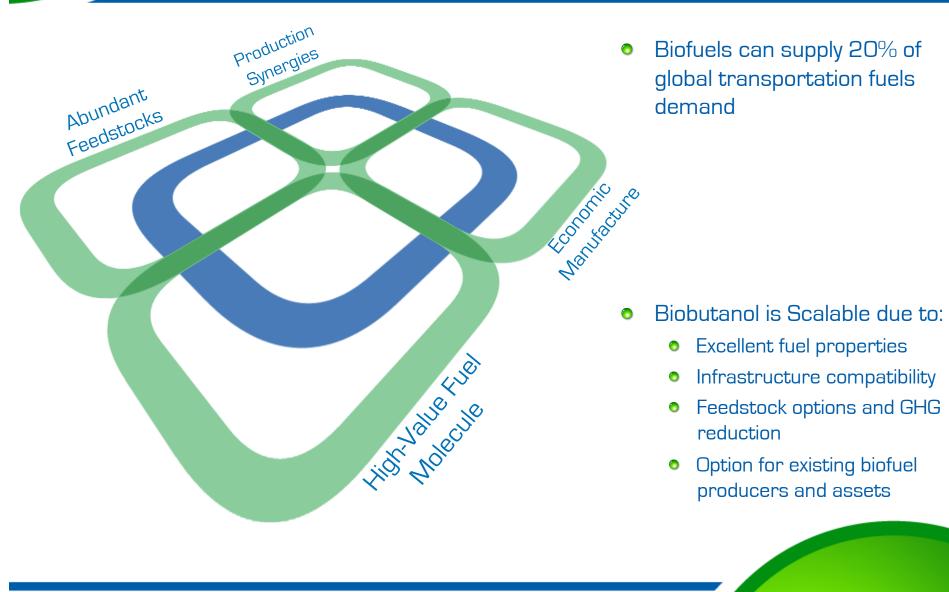


MACROALGAE



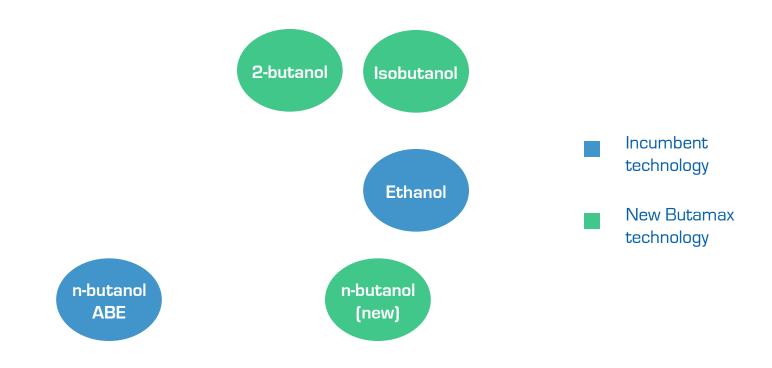
INDUSTRY DISCOVERY

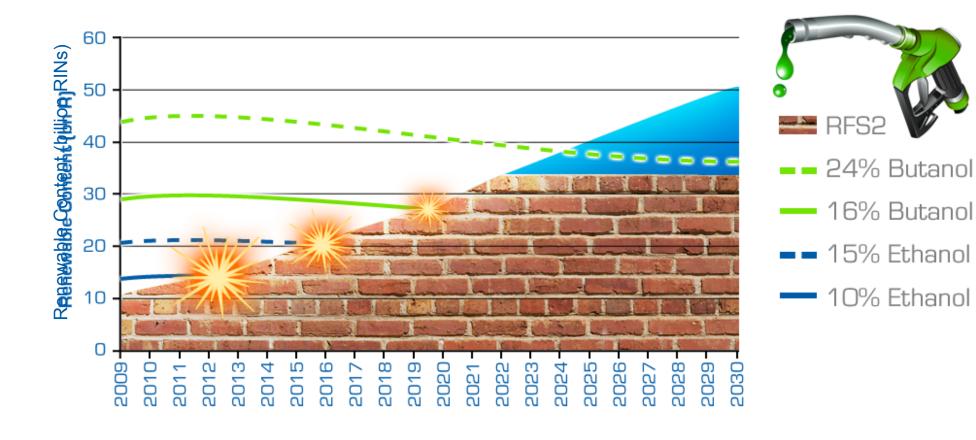




Considerations for Selecting a Biofuel

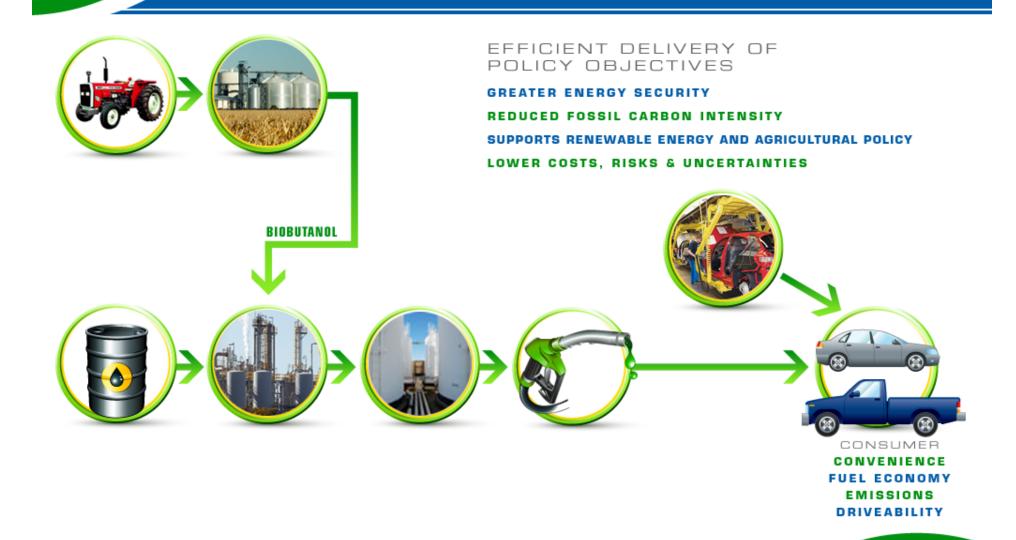
Why BioButanol?





Together We Can Fuel a Step Change in the Biofuels Industry

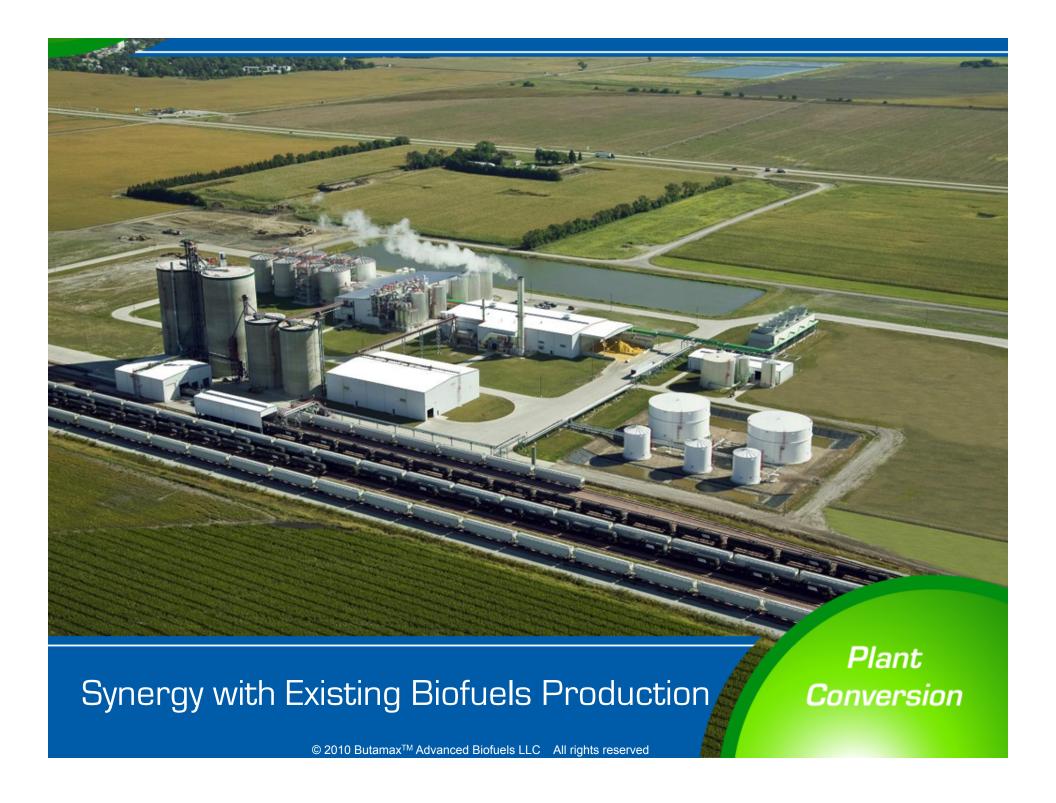
Redefining Growth



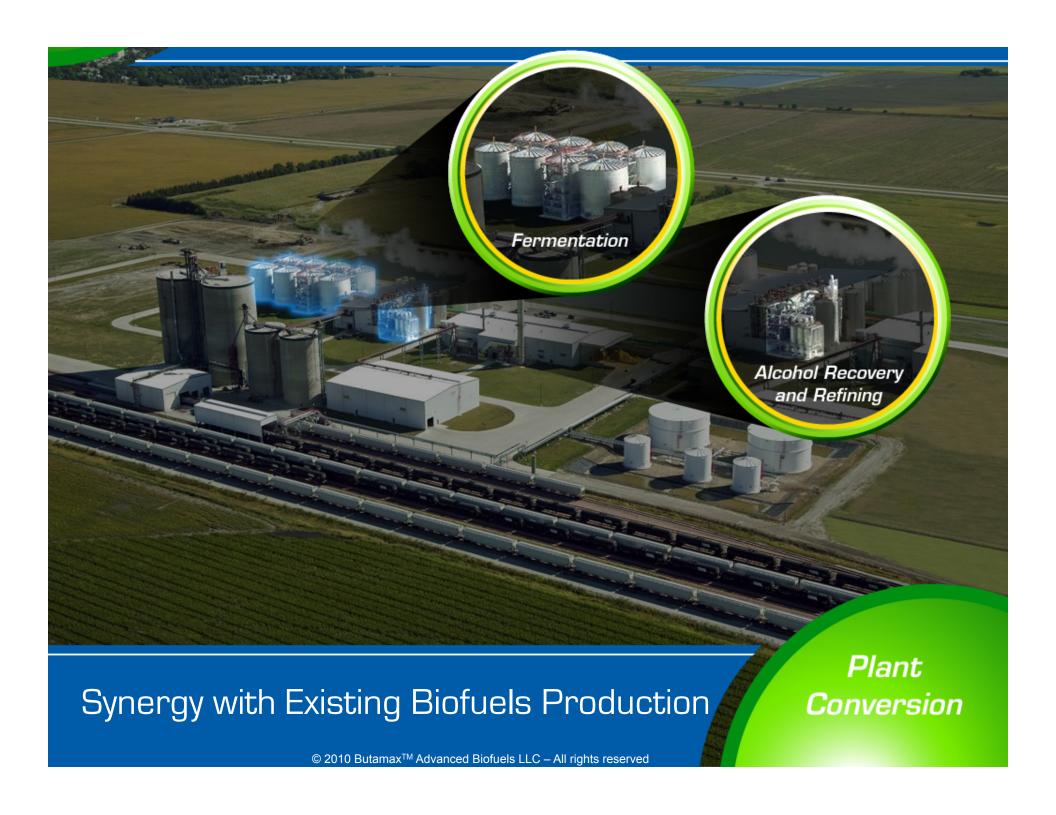
BioButanol Adds Value
Throughout the Supply Chain

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How BioButanol Fits







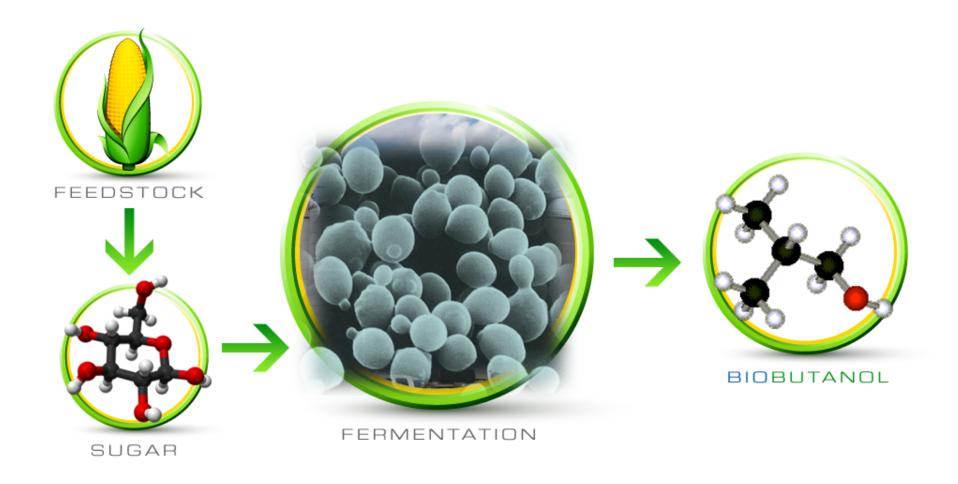


Biobutanol Offers Improved Cash Flow for Biofuels Production

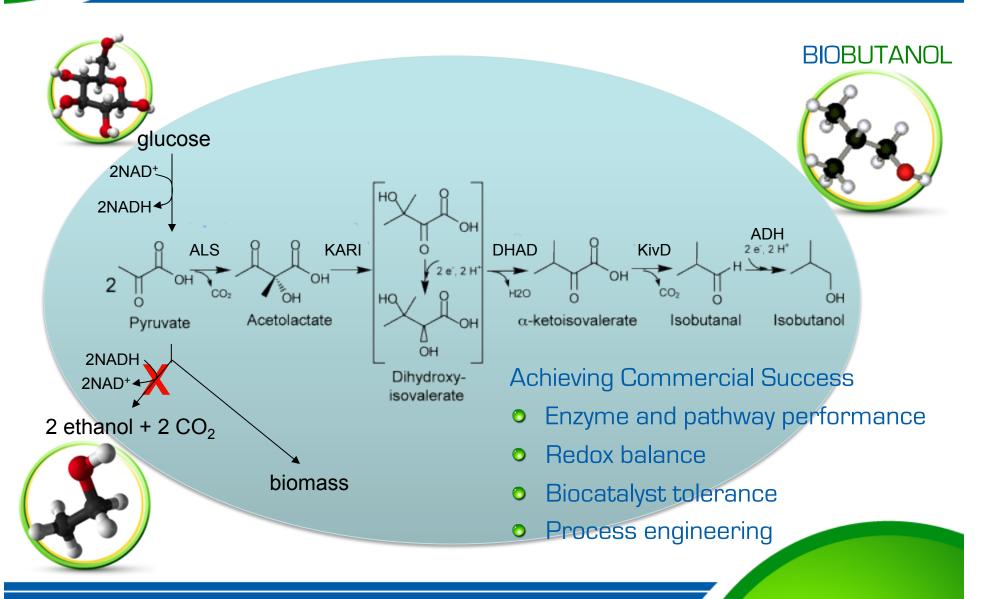
Benefits for Producers



# Economic Manufacture from Fermentable Sugars via Yeast



## Economic Manufacture from Fermentable Sugars via Yeast



#### *De Novo* Pathway for Economic Production and GHG Performance

#### Significant R&D Progress and On Track To Commercial Target





- BP Hull UK Research Technology Center
- Fully integrated piloting facility
- Nominal 40,000 GPY scale
- \$US 50 million total investment
- 30 person technology & operations team
- Operational 3Q2010



## Technology Demonstration Plant to Mitigate Technology Risks

- Parallel fuels technology program since 2005.
- Enabling adoption by fuel producers & retailers, automotive OEMs, regulatory agencies, and consumers
- Biobutanol fleet testing and extensive fuel performance testing in Chicago, IL and Bochum, Germany
- 135 cars including all 1995 2009 model years tested to date with 1.5 million miles driven
- Retail trial completed in the UK (2008 2009)
  - Blend supplied to ten retail sites as EN228 compliant gasoline
  - Approximately 250,000 vehicle fills and 80 million miles driven
  - Extensive favorable laboratory, engine, and vehicle demonstrations confirmed in real world
  - Biobutanol can be handled as a "normal" fungible fuel component and introduced without special procedures

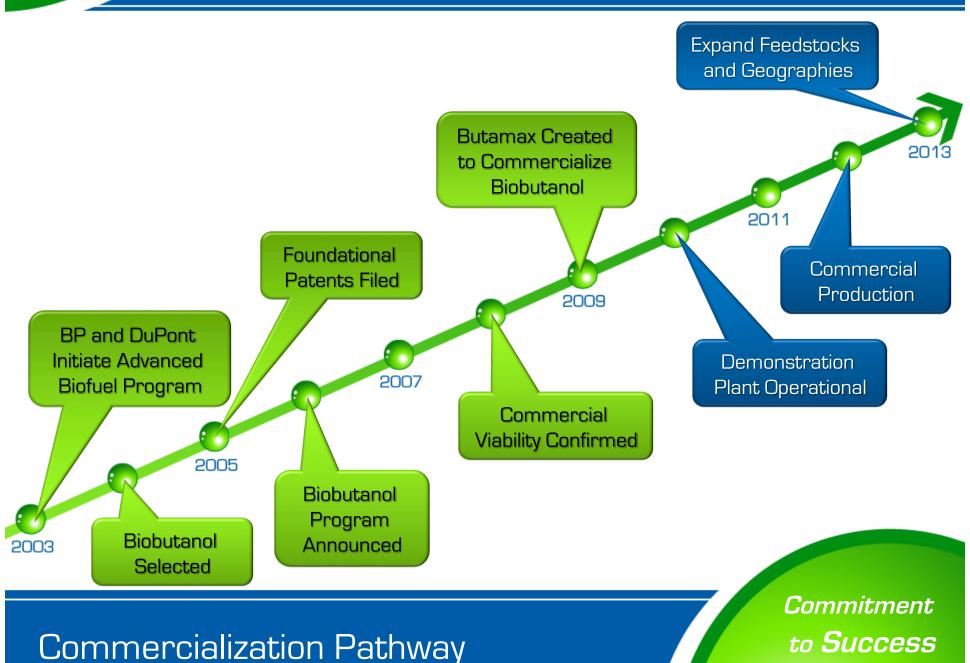






Fuels Technical & Marketing Program is Critical to Commercialization Success

Fuel Blend Validation



Commercialization Pathway

#### Biobutanol Can Enable Renewable Fuels Industry Growth By:



- Offering a combination of excellent fuel properties and attractive production economics applicable to a range of important feedstocks
- Overcoming current vehicle and infrastructure constraints to allow much higher renewable content in gasoline
- Offering existing and future ethanol producers the opportunity to transition to a higher value product while leveraging investments
- Creating value for stakeholders throughout the entire supply chain and offering an effective route to high levels of renewable content in gasoline
- Continued Butamax™ progress on its development and commercialization path that includes:
  - Start up of the Hull UK Technology Demonstration Plant in 3Q2010
  - Full scale commercial production in 2012/2013

#### Conclusions