Advances in the Commercial Production of Biobased Products

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October 11, 2012
We displace petroleum by making the same chemicals from renewable feedstocks with no green price premium & reduced environmental impact.

Not all chemicals are created equal™
Renewable Chemicals Platform
Addressable Markets >$40 Billion

- Sugars / Biomass
  - Glucose
  - Sucrose
  - Ligno-cellulosic
  - Glycerol

- Proprietary Technology and Processes

- Succinic Acid
  - $7.5B market

- Butanediol

- Current Succinic Acid Applications

- Replacements for Adipic & Phthalic anhydride

- Lactic Acid
  - $15B+ market

- PLA

- Acrylic Acid

- Muconic Acid & Derivatives
  - $22B market

- Adipic
- HMDA
- Caprolactam
- HDO
- CHDM

D(-) Lactic Commercialized, Bio-Succinic Acid at Commercial-Scale
Our Differentiators Enable Sustainable Growth

• Proven technology platform
  ✓ In house experts in yeast, bacteria and organic acids
  ✓ Fully integrated from lab to commercial production
  ✓ Demonstrated cost competitiveness without subsidies

• Fully funded first plant, sold out and oversubscribed
• Commercialized product
• Bankable business capable of securing project finance
• Top-tier strategic relationships

• Accelerates pace of portfolio commercialization (Bio-Acrylic Acid) • Enhances financial flexibility • Drives significant value
Repeated Successes Scaling from Lab to Manufacturing

Repeated scale-up success of platform technology

D(-) Lactic acid: already scaled up to commercial scale

- Lab scale
- Pilot scale
- 200,000L Commercial 2008

Productivity at different scales

Commercial yield targets have been maintained or improved throughout scale-up*

6x scale-up
500x scale-up

Productivity (g/L/h)

- 7L Myriant Labs
- 40L Myriant Labs
- 20,000L Myriant Demo

Successful scale-up driven by core competencies and integrated approach to Microbiology, Process Development, Chemical Engineering, and Commercial Scale-Up & Plant Operations

* Example shown for succinic acid scale-up.
Leuna Plant Supports Early Commercialization

**Demonstration & special production plant**

- In construction: Mechanical completion and start up Q4 2012
- Capacity: 3.0 M lbs - expandable to 6.0 M lbs
- Facility will become a demo facility for future products
- Designed to produce high purity succinic acid

**Project schedule:**

- Engineering
- Construction
- October 2012
Commercializing Bio-Succinic Acid

Project Highlights
- 30M lb/year commercial plant
- Commercial start-up in Q1’13
- Plant capacity is sold-out and over-subscribed

Strategic Finance
- $50M DOE Cost Sharing Award
- $25M USDA B&I Loan Guarantee
- $10M Lake Providence Port & DOTD

Economic Development
- 50 Direct Jobs
- 300+ Construction Jobs
- 250+ Indirect Jobs

Expansion Planning Currently Underway for 2nd U.S. Plant
Diversified Product Pipeline Creates Sustainable Value for Investors

Muconic Acid Derivatives
Adipic Acid, HMDA, Caprolactam, HDO, CHDA/CHDM, PTA
>$22B Market

Acrylic Acid
$14.5B Market

Cellulosic D(-) & L(+) Lactic Acid

Succinic Acid
$7.5B Market

Myriant will be a reliable, long-term supplier of high-value chemical intermediates

Note: Lactic Acid markets are forecasted to grow to multiple billions of dollars
* License with Purac
2012 and Beyond: Top Partners and Customers

Accelerate Commercialization

- BDO process guarantees
- Immediate access to 1.8B lb. market
- Exclusive integrated process

- MOU for 220MM lbs. succinic acid plant
- 80% of capacity captive for BDO production

- Five year supply contract
- Bio-succinic acid for bio-polymer

- Selected Myriant as supplier of succinic acid for PBS production

- Global alliance
- Process guarantees/ EPC wrap

- Invested $80 MM into Myriant
- Project to build plant in SEA and commercialize technology

- Exclusive marketing partner for Japan, Greater China, and Korea

BIO Pacific Rim, October 11, 2012
Thank you!