



GreatPoint Energy

September 4, 2008



GreatPoint Company Overview

Commercializing Hydro-Methanation technology to produce pipeline quality natural gas from low cost coal, petroleum coke and biomass

- Much cleaner alternative to combustion
 - Converting the dirtiest of all commercial fuels into the cleanest
 - Virtually zero CO₂ emissions through integrated capture and sequestration
- Competitively priced, domestic natural gas supply
 - Manufacturing bluegas™ is less expensive than incremental drilled and imported natural gas
 - Enormous value arbitrage between feedstock cost and natural gas price
 - Virtually unlimited domestic and global fuel reserves available providing long-term security of supply and zero resource risk
- Positioned for rapid and scalable commercialization
 - Strategy is to build, own and operate gas production facilities
 - Partnering with major energy companies in U.S., Canada, China and India



- Backed by leading strategic & financial investors
 - \$140M raised to date, including one of the largest clean tech venture deals ever completed



- Experienced management team
- Strong IP position in HydroMethanation™
 - ~50 patents pending for overall integrated process (for a range of feedstocks) and critical operating units, including catalyst addition, utilization & recovery
- Successful operation and technology validation at pilot plant
- Site selected and design underway for first commercial project

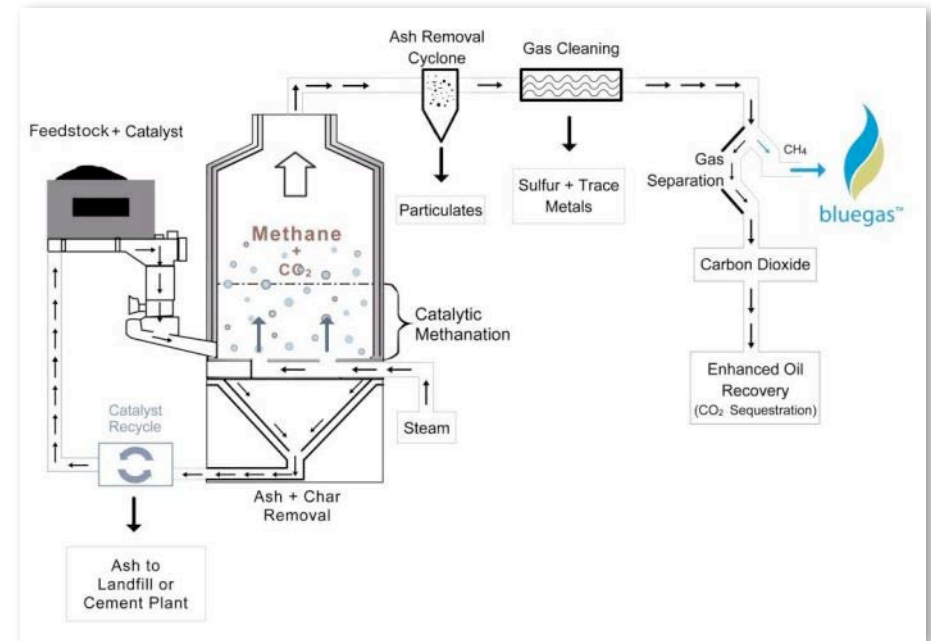
- GreatPoint Energy Process

- Feedstock mixes with steam in the presence of the Hydro-Methanation catalyst and reacts to form methane
- Ash, sulfur, nitrogen, and trace metals are all safely removed using industry standard gas clean-up processes
- All CO₂ is captured for sequestration as part of the integrated process

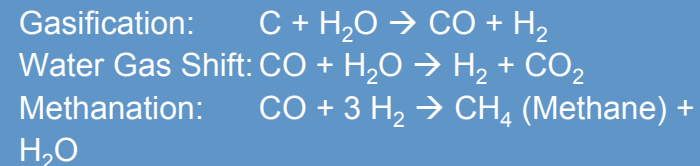
- Key Advantages vs. Conventional Gasification

- Produces pipeline-grade natural gas rather than low-quality syngas
 - 50% the CO₂ of syngas
- Thermally balanced and highest possible efficiency
- Lower temperature (600 – 700°C), milder operating conditions, and higher reliability
- Lower capital intensity

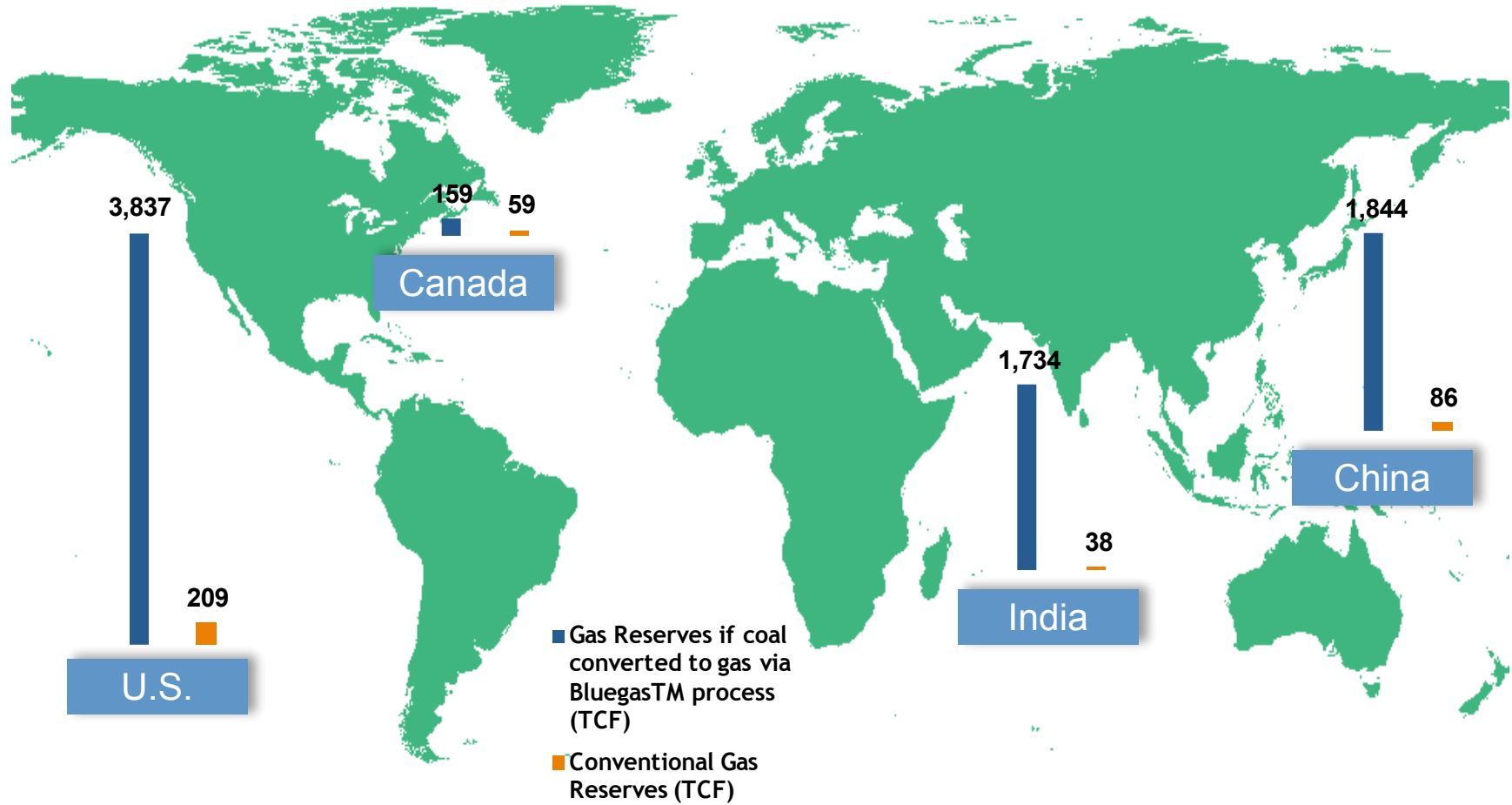
HydroMethanation™ Process



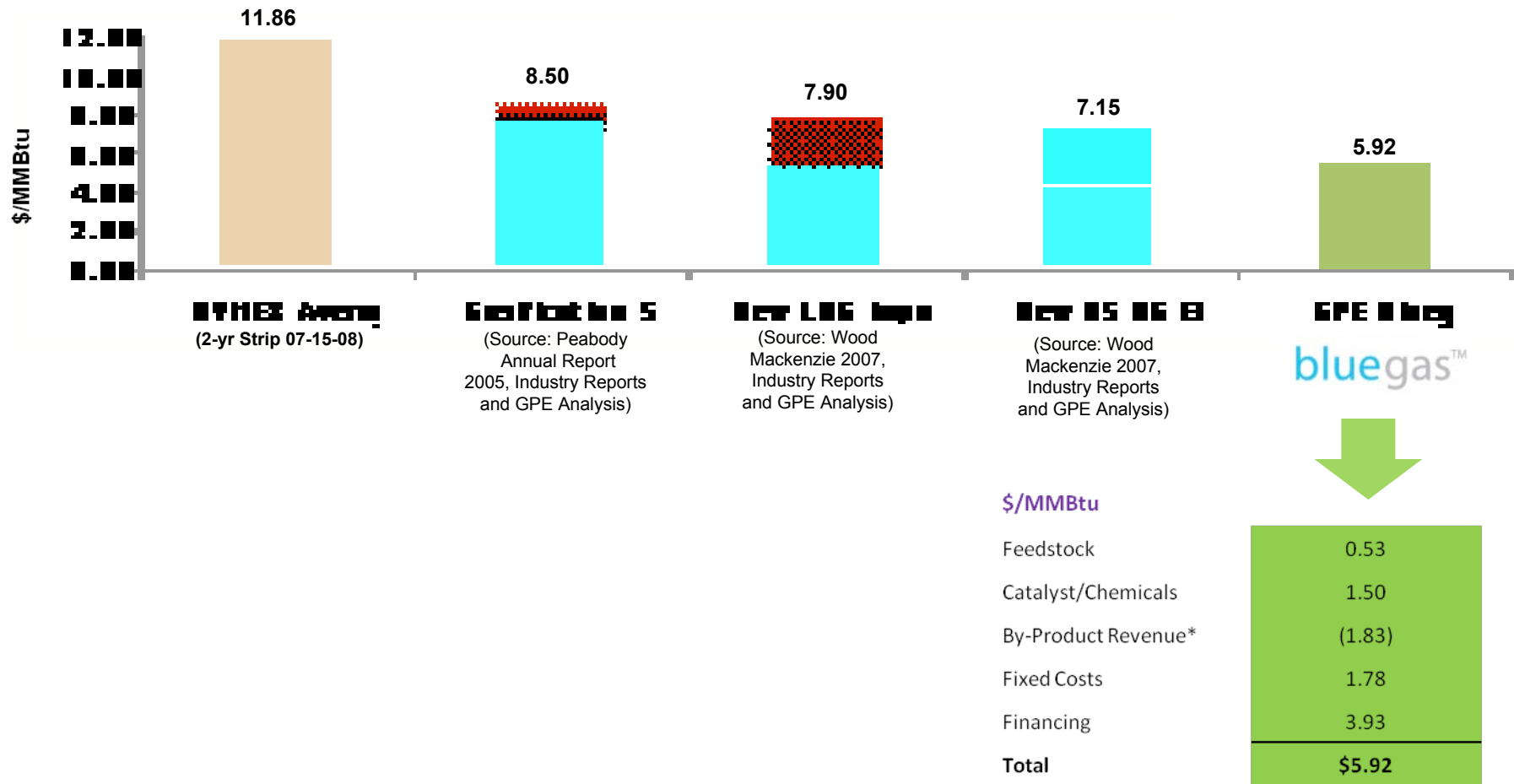
One Catalyst — Three Reactions



Enormous Coal-to-Gas Conversion Market



Lowest Natural Gas Cost of Production



* Includes sulfur and CO₂ sales.
 Note: Excludes equity return and tax credits.
 Source: Preliminary Fluor engineering and operating cost analysis, June 2008.

Why We Chose to Locate in Chicago

- Gas Technology Institute (GTI) is one of the world's leading research centers for clean energy
 - Located in Des Plaines, IL
- GreatPoint leased pilot plant and lab facilities at GTI from Aug, 2006 – March, 2008
- Tremendous resource that allowed GreatPoint to save millions of dollars and shave as much as two years off its commercialization cycle
- Argonne and GTI are incredible resources for start-up energy companies
- Two GPV portfolio companies (Coskata Ethanol and Foro Energy) also chose to locate here because of the personnel and equipment available at Argonne and GTI



Challenges We Have Faced

- When our lease ended with GTI, we found almost no easy alternatives
- We could not find high quality affordable lab and office space
- We could not get permitting guarantees on a new pilot plant from Illinois that competed with other states
- Unfortunately, we have had to split our labs and corporate offices in order to stay in Chicago
- We had to locate our new Pilot Plant facility in Massachusetts where the governor personally guaranteed 90 day permitting



Chicago Should Be *The* Clean Energy Center

- Most start-up clean energy companies are facing the same difficult choice of location
 - Selecting an area that has appropriate technical talent
 - Easy access to investment community and customers/strategic partners
 - Limiting the significant construction time and capital cost of equipment and infrastructure
- Chicago has a great start
 - Central location; non-stop flight to everywhere
 - World class universities and research centers
 - Moderate cost of living versus Northeast and Silicon Valley
- However, to attract and retain new energy companies, Chicago needs a centrally located Energy Research Campus
 - Pilot plant testing grounds with expedited permitting of on-site test projects
 - High and low bay laboratory facilities
 - Outsourced analytical labs and machine shop
 - Class A offices



bluegas™
Blue. The new green.