

Innovative technology solutions for sustainability

Fact Sheet

Abengoa

- Founded in 1941
- CEO: Manuel Sánchez Ortega
- Listed on the NASDAQ stock exchange in the U.S.
- Abengoa (MCE: ABG.B/P SM /NASDAQ: ABGB) applies innovative technology solutions for sustainability in the energy and environment sectors, generating electricity from renewable resources, converting biomass into biofuels and producing drinking water from seawater
- World leader in solar thermal (Solana, Ariz., and Mojave, Calif., solar projects), water (San Antonio, Texas, water supply concession), power transmission and biofuels
- Sustainability technology partner of Manchester United
- Website: <u>http://www.abengoa.com</u>

Bioenergy Business

- Website: <u>http://www.abengoabiotech.com</u>
- Abengoa's bioenergy business is focused on driving advancements in the global biofuels sector while developing sustainable solutions for transportation and deriving bioproducts from biomass and from municipal solid waste (MSW)
- Abengoa is the largest ethanol producer in Europe, and one of the largest in the U.S. The company also runs ethanol operations from sugar cane in Brazil, and has 867 million gallons of installed production capacity annually distributed among 15 plants in five countries. 405 million gallons of this capacity is located within the U.S.
- Abengoa is investing in technologies that produce advanced biofuels from lignocellulosic biomass (including crop residues, dedicated energy grasses, and MSW), initially to develop cellulosic ethanol using Abengoa's proprietary enzymatic hydrolysis technology
- Abengoa is pursuing opportunities to convert the cellulosic sugars produced from its enzymatic hydrolysis technology into multiple other biochemicals and bioproducts, ranging from plastics to chemicals and jet fuels
- Abengoa is partnering with more than a dozen research centers within the U.S. and abroad, and currently has seven patent applications in development for biofuels

Hugoton Plant

- Abengoa's first commercial-scale next generation cellulosic ethanol plant
- Result of 10 years of technical development and approximately 40,000 hours of pilot and demonstration plant operation
- Feedstocks are non-food agricultural crop residues: primarily corn stover, wheat straw, milo stubble and switchgrass
- Plant capacity is 25 million gallons cellulosic ethanol per year
- The plant will occupy approximately 20 acres of a total 400-acre site, with the rest being used for storing biomass purchased from area farmers, or for growing our own crops (corn or switchgrass) for additional feedstock
- The plant will receive and process more than 300,000 dry tons of locally sourced biomass per year, which is approximately 1,000 tons per day (850 tons per day for ethanol, and 150 tons per day for electricity generation). Up to 30,000 tons can be stored on-site
- Provides a market for 85,000 acres of grain crop residue, providing local farmers with more than \$17 million annually in extra income
- On-site cogeneration will produce 21 MW of electricity per year enough to power the plant and sell some back to the local Stevens County community.
- Construction phase provided an average of 300 full time jobs. The plant itself will provide 76 full-time jobs, with an annual payroll in excess of \$5 million
- Built in part with a \$97 million grant from the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) and a \$132.4 million conditional loan guarantee from the U.S. Department of Energy's Loan Programs Office