

**STS Forum**  
**Plenary Session: “Energy Solutions for the Sustainable Environment”**  
**Summary Statement by**  
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DuPont – one of the first companies to publicly establish environmental goals 18 years ago – has broadened its sustainability commitments beyond internal footprint reduction to include market-driven targets for both revenue, and research and development investment like biofuels. The goals are tied directly to business growth, specifically to the development of safer and environmentally improved new products for key global markets, including products based on non-depletable resources, like biofuels.

DuPont has a three-part biofuels strategy: (1) improving existing ethanol production through differentiated agricultural seed products and crop protection chemicals; (2) developing and supplying new technologies to allow conversion of cellulose to biofuels; and (3) developing and supplying next-generation biofuels with improved performance.

The company’s strategy to bring cellulosic ethanol technologies and biobutanol to market will help address the global need for alternative and more sustainable transportation fuels. Oil remains the prime energy source for transportation fuels with increasing demand, particularly from China and India, now placing additional pressure on current oil supplies. The need to diversify the fuel supply with more sustainable solutions is a large opportunity for agricultural-based alternatives.

The biorefinery is a systems-based approach that is being developed to convert cellulosic feedstocks into biofuels and other renewable products. An integrated approach to convert cellulosic biomass to biofuels is necessary to achieve the economics needed to

be competitive. Capital investment and operating costs must be comparable to incumbent grain ethanol technologies.

DuPont is focused on cost-effective pre-treatment and optimized fermentation technology that assures high yields and lower costs for biofuels derived from cellulosic feedstocks. The success of this program is crucial for both the quantities of fuel required and to assure a source of biomass separate from our food supply. Also, the technology being developed can be used across geographies based on the advantaged biomass grown within the climate of each region. In this way, we can also distribute the source of our fuel supply and promote local sustainability and sourcing of fuels across geographies.

Biobutanol is the first advanced biofuel being developed by DuPont in partnership with BP. As partners, and using the world-class metabolic engineering capability at DuPont, we are developing a new category of bio-based fuels. Biobutanol, the first of these, has advantages over ethanol in that it delivers more miles per gallon and can utilize the existing fuel distribution infrastructure. We are addressing the significant market demand for fuels produced from domestic renewable resources in both the needed volume demand and at a competitive cost; fuels that can be used in existing vehicles and that offer substantial value to consumers.