

RE •  
FORM •  
ENERGY

## Cellulosic Ethanol: It's already happening

Jeroen van Campen  
DuPont Industrial Biosciences

DuPont Cellulosic Ethanol



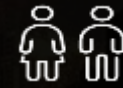
# DuPont Applies its Science to Solve Some of the World's Biggest Challenges



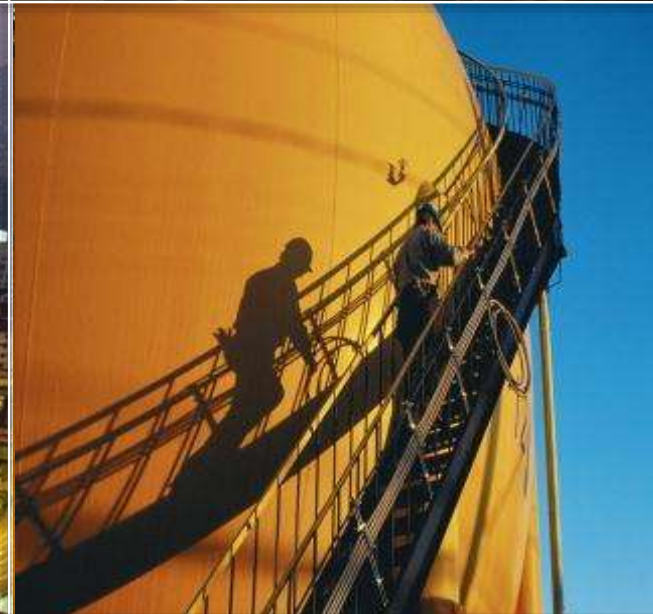
FOOD



ENERGY



PROTECTION



WE'RE SOLVING THE WORLD'S GREATEST CHALLENGES

# TOGETHER

# DuPont's Nevada 2G Ethanol Plant

## Commercial Demonstration Facility

**113 MM LITERS PER YEAR**

CAPACITY

**CELLULOSIC ETHANOL  
LIGNIN CO-PRODUCT**

PRODUCTS

**CORN STOVER**

FEEDSTOCK

**NEVADA, IA**

LOCATION

## Business Model Three Revenue Streams

**TECHNOLOGY LICENSING**

**ENZYME AND FERMENTATION  
MICROBE SALES**

**BIOFUELS SALES**

## DuPont Licenses 2G Ethanol Project

### DuPont and New Tianlong Industry Co., Ltd. Sign Historic Deal to Bring Cellulosic Ethanol Technology to China

#### Advanced Renewable Fuel Project will be China's First

Changchun, Jilin Province, China, July 16, 2015 – Today DuPont and Jilin Province New Tianlong Industry Co., Ltd., (NTL) announced a licensing agreement to begin the development of China's largest cellulosic ethanol manufacturing plant, located in Siping City, Jilin Province, China. The agreement allows NTL to license DuPont's cellulosic ethanol technology and use DuPont™ Accellerase® enzymes, to produce renewable biofuel from the leftover biomass on Jilin Province's highly productive corn farms. NTL is working to secure the necessary government approvals and support to implement this agreement.



# Opportunities with Biofuels

A decorative graphic consisting of three vertical bars of varying heights and colors (red, pink, and red) is positioned to the left of the text.

**ENERGY SECURITY**

A decorative graphic consisting of three vertical bars of varying heights and colors (red, pink, and red) is positioned to the left of the text.

**ECONOMICS**

A decorative graphic consisting of three vertical bars of varying heights and colors (red, pink, and red) is positioned to the left of the text.

**ENVIRONMENT**

# Commercialization challenges

**TECHNOLOGY**

**FEEDSTOCK**

**POLICY**

**FINANCE**

RE •  
FORM •  
ENERGY