



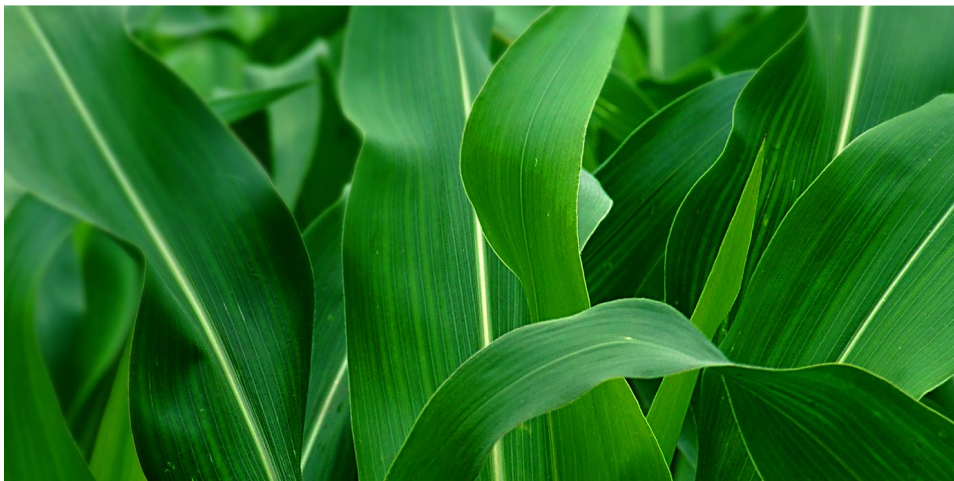
The News Journal



CREATING
the CLEAN
 ENERGY
 ECONOMY
 IN DELAWARE, THE REGION
 AND THE NATION

Thomas Connelly
 Executive Vice President for
 Technology
 DuPont

UNIVERSITY OF
 DELAWARE
 CREATING
 KNOWLEDGE-BASED
 PARTNERSHIPS



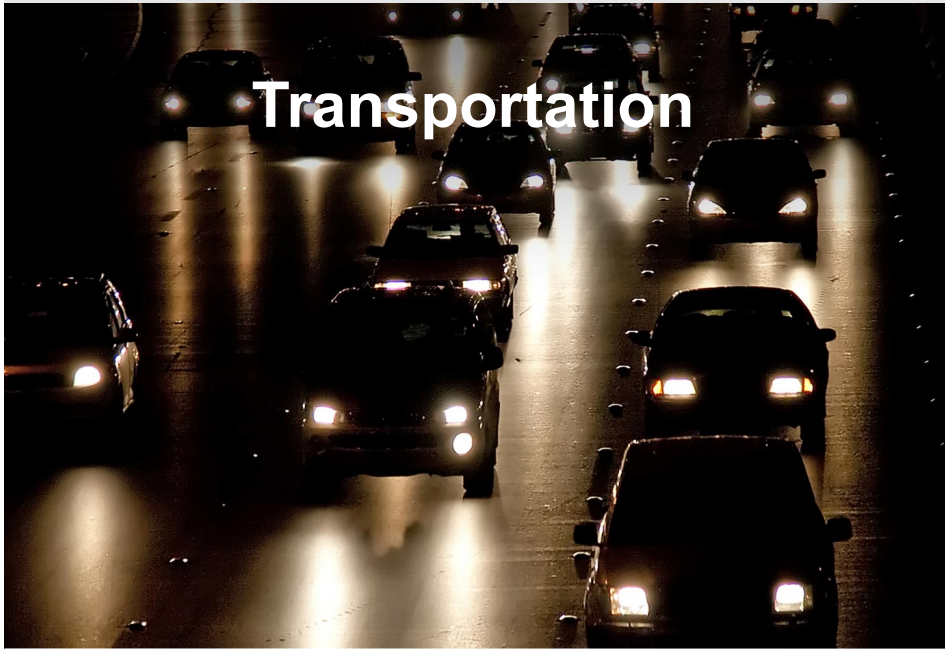
Creating the Clean Energy Economy in Delaware

13 December 2010

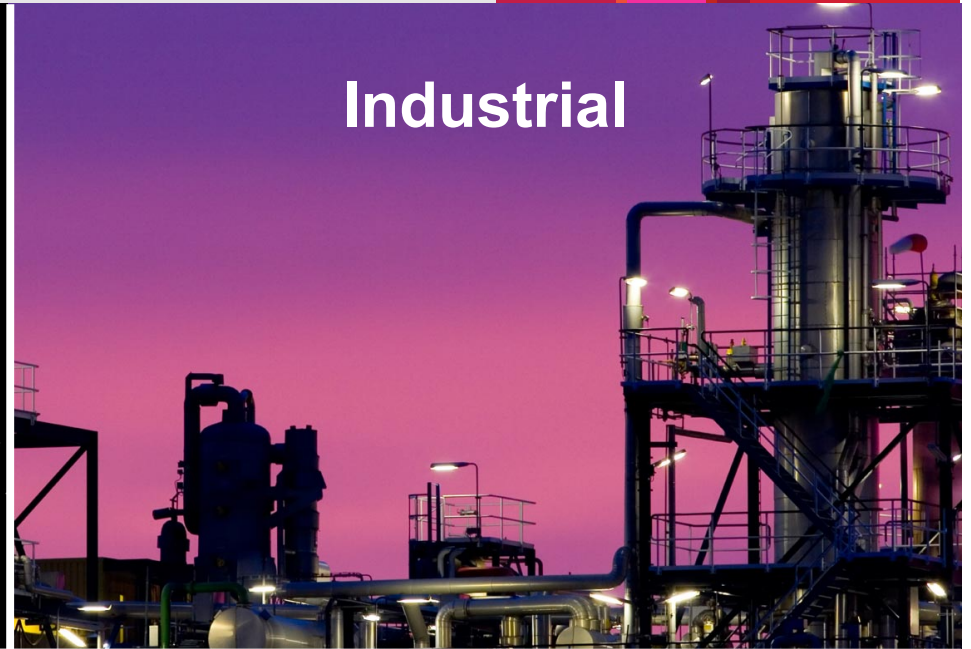
Tom Connelly
Executive Vice President
& Chief Innovation Officer



The miracles of science™



Transportation



Industrial



Electrical Generation



Commercial & Residential

Low Cost, Low Carbon, Scalable, Sustainable

Cellulosic Ethanol: Non-food Feedstocks



Advantages:

- >60% greenhouse gas reduction
- Non-food sources and marginal land
- Multiple feedstock available
- Excellent income for farmers

Biobutanol: Better Fuel



Advantages:

- Drop-in fuel
- High blends without infrastructure changes
- Refinery can use more fractions of oil
- Higher energy content



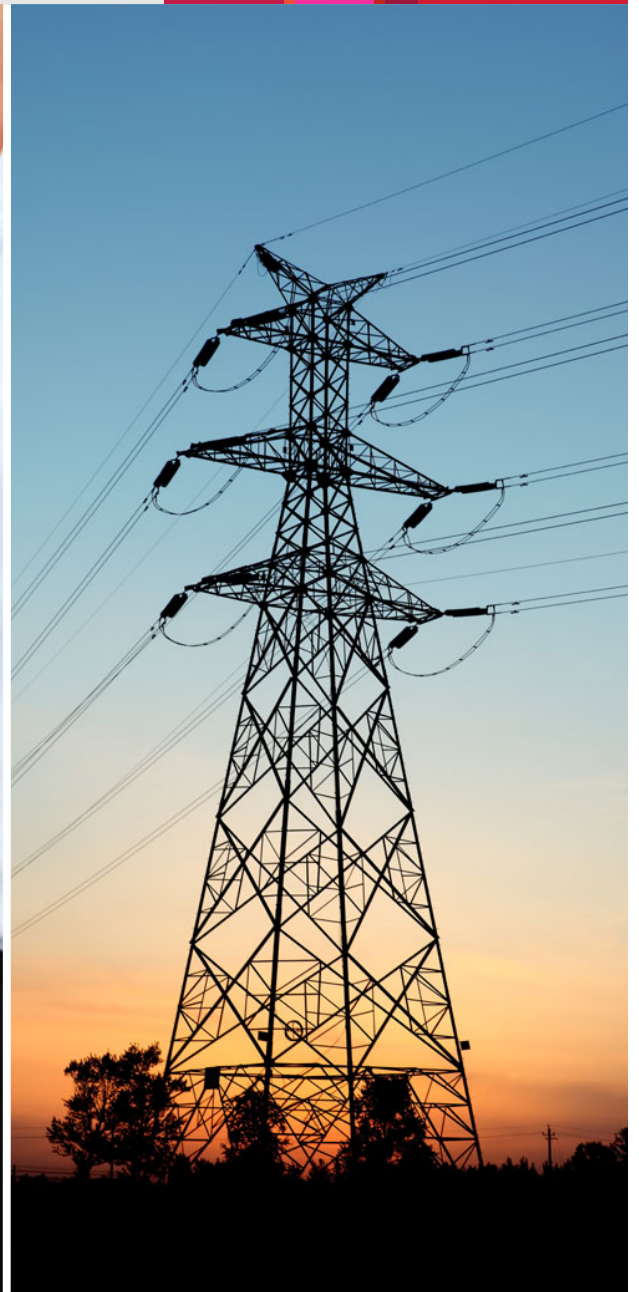
**Cost
Per
Kilowatt
Hour**

PV Prices

Fossil Fuels

Grid Parity

Time







Government Support

Private Sector Funding

Commercialization

