

**Please note that this presentation was given during the United Nations Climate Change Conference (COP-15) in Copenhagen, December 7-18, 2009 for more information please visit <http://www.cop15.state.gov/>.**

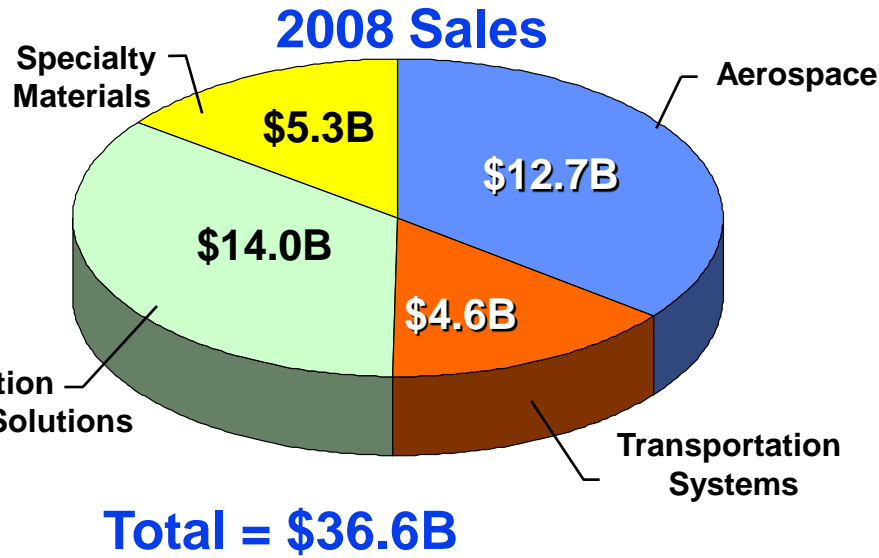
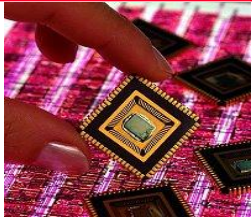
**Honeywell**

# Honeywell Bright Green

December 10th, 2009

**Honeywell**

# Honeywell's Businesses



***Diverse Businesses, Technologies and Products***

# Honeywell's Energy Related Portfolio

## Turbochargers



## Air Filters



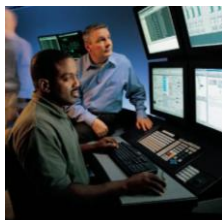
## Tire Pressure Monitors



## Ecofining™



## Advanced Controls



## UOP Catalysts



## Wireless



## Refrigerants



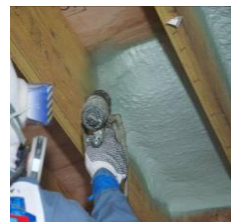
## Performance Contracting



## Thermostats



## Foam Insulation



## Water Heater Controls



**Nearly 50% of revenues (>\$15B) from products and services that improve energy efficiency**

# Honeywell's Biofuels Vision

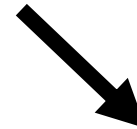
- Build on UOP's refining technology and expertise
- Produce real fuels
- Use existing refining and transportation infrastructure to lower capital costs, minimize value chain disruptions, and reduce investment risk
- Focus on path toward second-generation feedstocks, which are more sustainable

## *Inedible Oils: Camelina, Jatropha*

### First Generation



Natural oils from  
vegetables and  
greases



### Second Generation

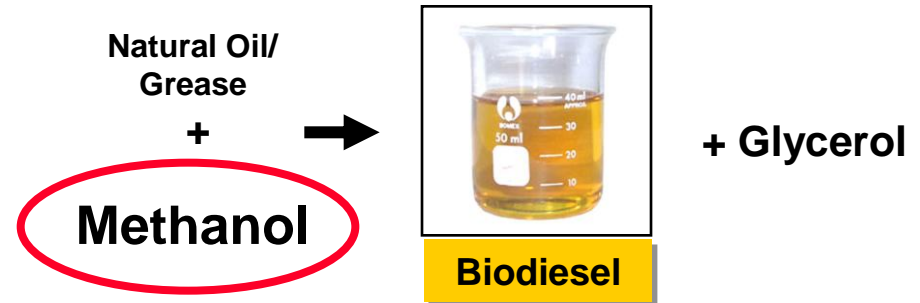


Waste biomass,  
oil from algae

# Ecofining™ Green Diesel: A Real Fuel

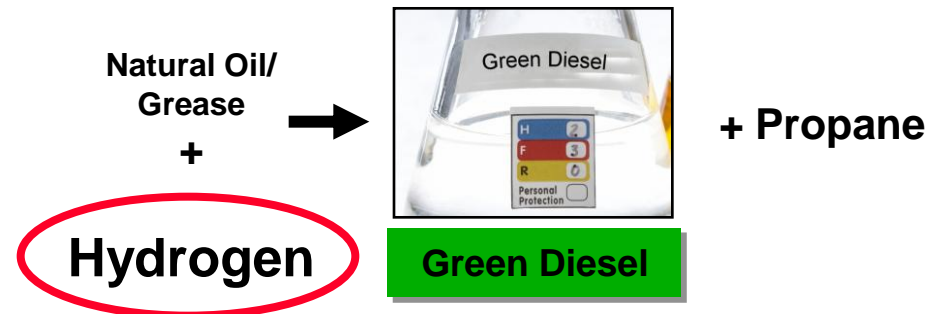
- Superior technology that produces real diesel, rather than an additive like biodiesel
- Uses existing refining infrastructure, can be transported via pipeline, and can be used in existing automotive fleet

## Biodiesel



- Does not remove oxygen
- Creates an additive, not a fuel

## Green Diesel



- Oxygen completely removed
- Creates a real fuel

# Green Jet Fuel

- Started under US Government contract to develop process technology to produce military jet fuel from renewable sources
- Leverages Ecofining process technology
- Fuel meets stringent requirements for flight
- Extending to commercial aviation-Partnership with Boeing

## Project Partners



**Honeywell**



## Demonstration Flights



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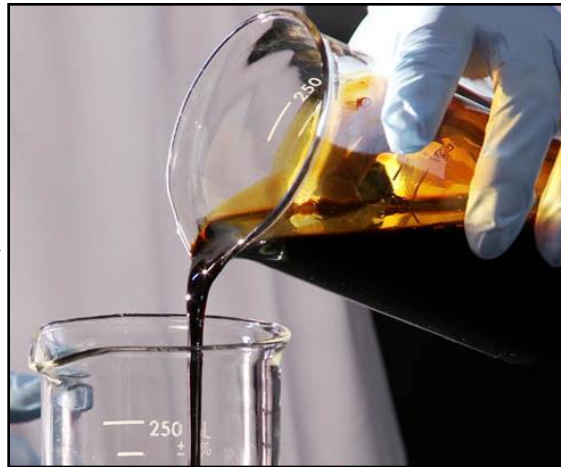
# RTP™ Rapid Thermal Processing



Forest Residue,  
Agricultural Waste,  
Construction & Demo Waste



**Pyrolysis Oil**



Available Today

**Electricity  
Production**

**Fuel Oil  
Substitution**

Available 2012

**Upgrade to  
Transport  
Fuels  
(Gasoline,  
Jet & Diesel)**