

Virent is Replacing Crude Oil.

Advanced Biofuel Leadership Conference

Lee Edwards – Virent CEO

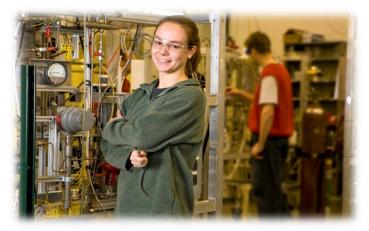
April, 2012



Virent at a Glance

The global leader in catalytic biorefinery research, development, and commercialization

120 Employees



Financial







The Power of Dreams

Infrastructure



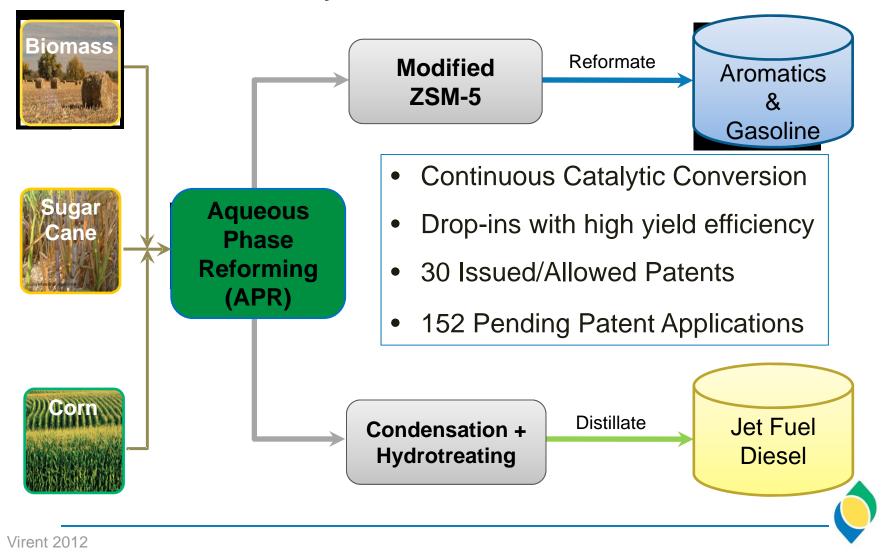
> \$77 MM in Equity Funding, > \$75 MM in Gov & Industry



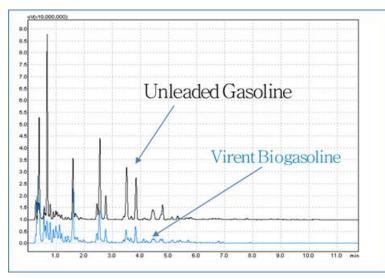
26x Development Pilot Plants, 1x 10,000 gal/yr Demo Plant

Virent BioForming® Platform

Process flexibility enables the production of gasoline, aromatic chemicals, jet fuel and diesel from a variety of raw materials.



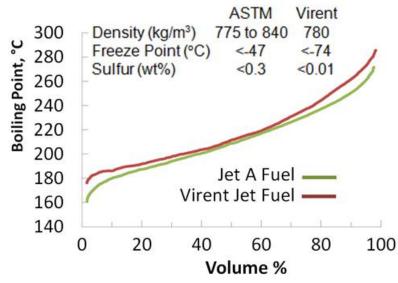
High Quality, Drop-in Fuels



Premium Biogasoline – 120,000 Btu/gal



Virent Fuel in Scuderia Ferrari Race Fuel

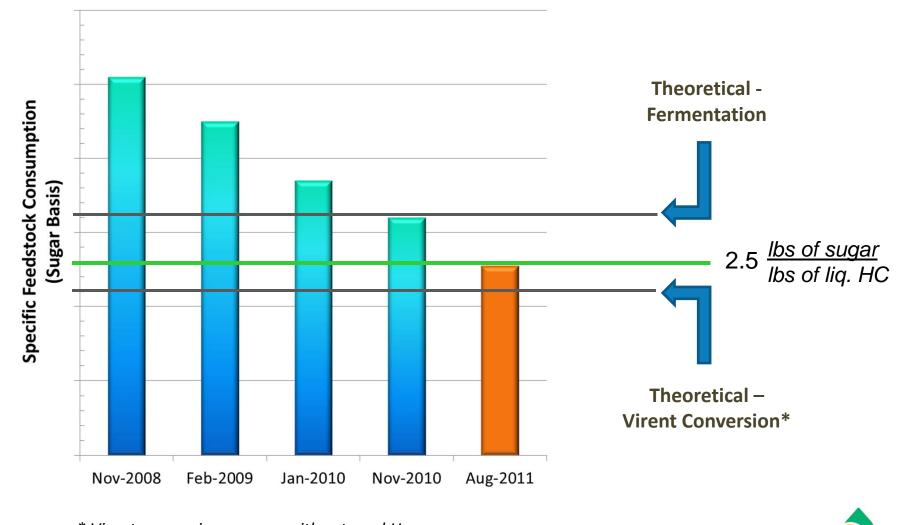


Virent Distillates Meet ASTM Specifications



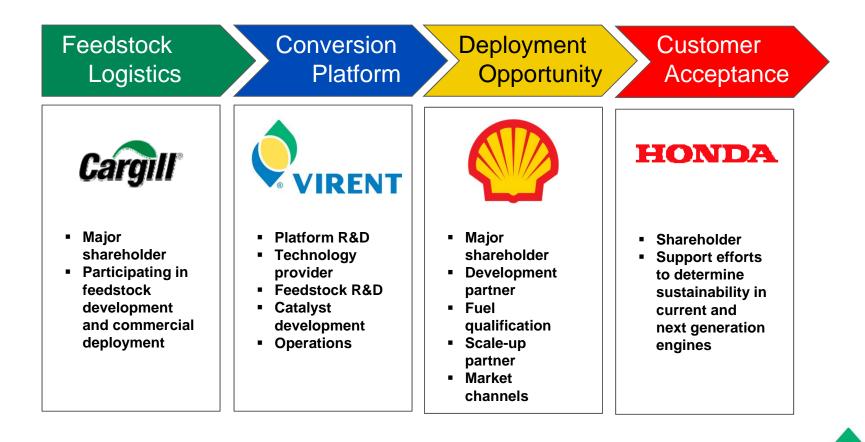
Virent Process Yield Advantage

Approaching Theoretical- Lower is Better



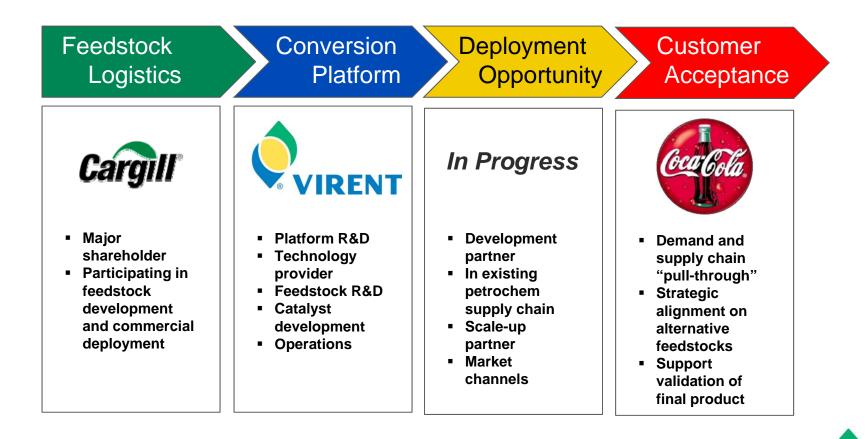
Strategic Investors & Fuel Partners

Develop, deploy and commercialize at scale a renewable "petrochemical" platform that can utilize existing infrastructure.



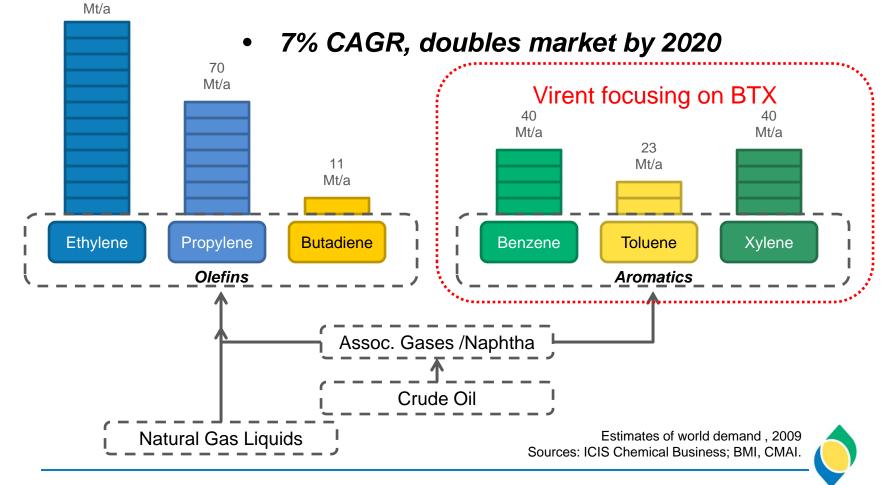
Chemicals Strategic Investors & Partners

Develop, deploy and commercialize at scale a renewable "petrochemical" platform that can utilize existing infrastructure.



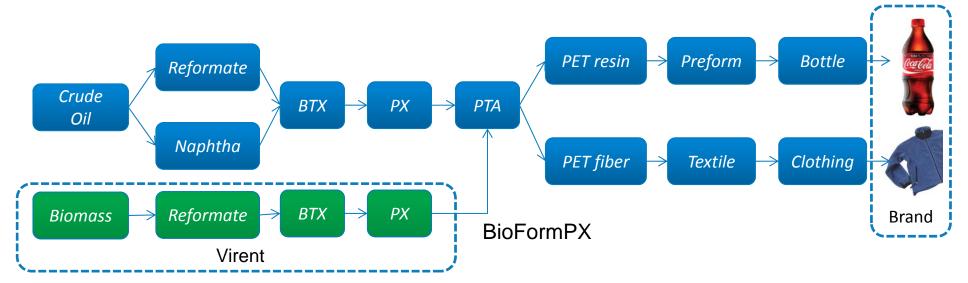
World Petrochemical Volumes

- Approximately 300M tonnes in 2009
- Market value ~ US\$400B (today)



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PET Supply Chain Integration



Virent's technology addresses sustainability: supply, economics, & environment

- Diversify raw materials leveraging current supply chain.
- Reduce exposure crude oil pricing
- Solution for demand for sustainability

Virent will target 2015 or sooner for the production of BioFormPX

- Secured Coca-Cola development and supply agreement.
- Establishing production and supply chain partnerships.

VirentSummary

- Leading technology with catalytic conversion to quality hydrocarbons including aromatics
- First mover opportunities in chemicals
 - PX is chemicals target
 - Signed a JDA and MSA with Coca-Cola
 - Establishing supply chain partnerships to support deployment
- Deployment opportunities for fuels
 - Supporting Shell to accelerate biomass to fuels deployment.
 - DPA tri-agency partner opportunities
- Developing pathways to accelerate integration with cellulosic feedstocks and lignin to further improve yields and profitability.

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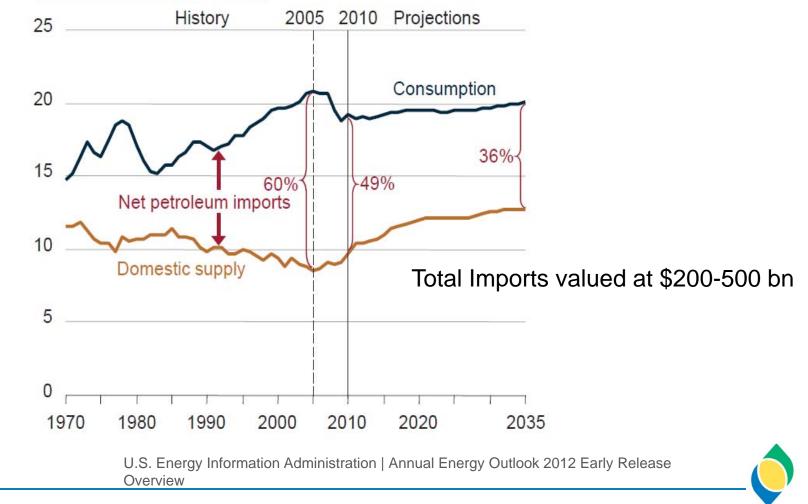


Industry Opportunity

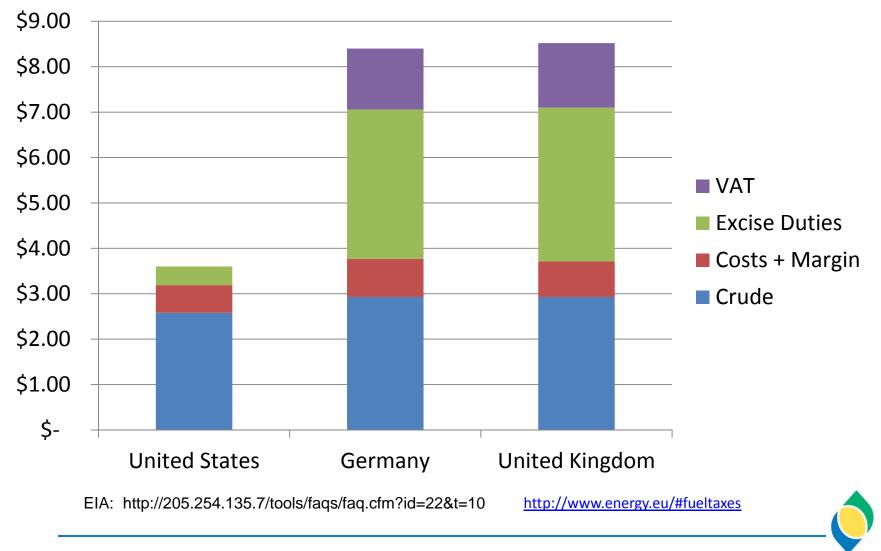


Closing in on US Liquid Fuels Supply

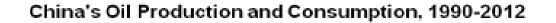
Figure 1. U.S. liquid fuels supply, 1970-2035 (million barrels per day)

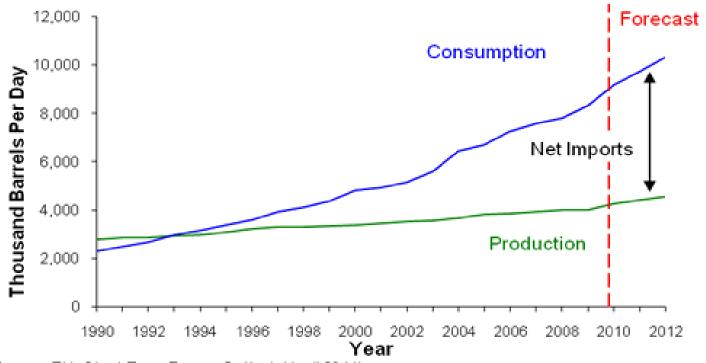


Fuel Prices could be higher!



China Liquid Fuel Supply Outlook

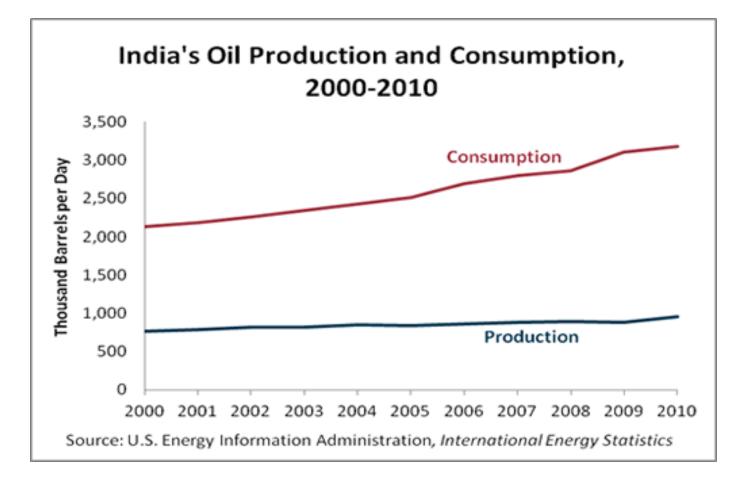




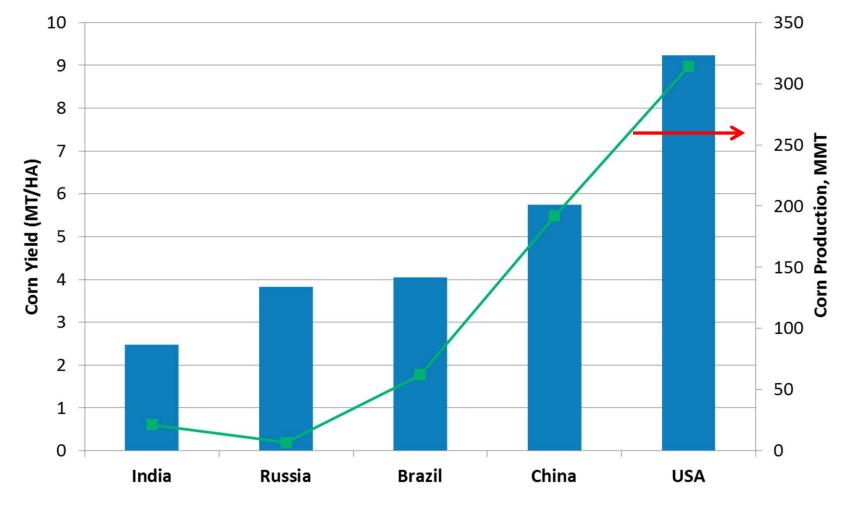
Source: EIA Short-Term Energy Outlook (April 2011)

Note USA Consumption is 20 mm bbls/day: 200% more than China

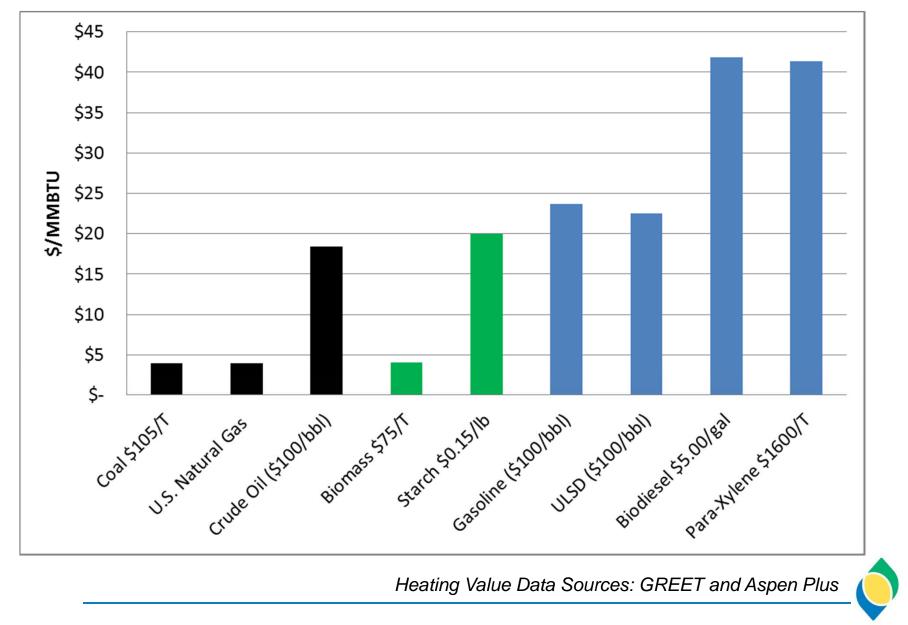
India Liquid Fuel Supply Outlook



USA Agricultural Productivity Advantage 2011/2012



Feedstock Energy Costs – Opportunity to Innovate



Supporting the Industry



Long-term Policies

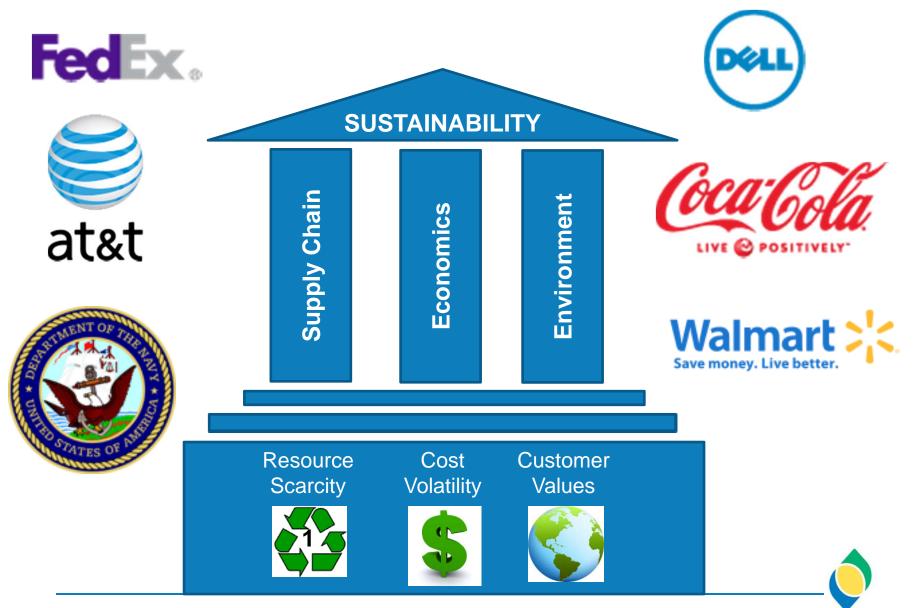
- Stable and secure
- Farmer incentives to participate
- •Sugar Availability Outside the Sugar Program

- Bonus Depreciation
 - Section 179C
 - Cellulosic Biofuels
- Investment Tax Credit
- Expansion of MLPs
- Loan Guarantees/Grants

- Stable Market Drivers
 - RFS
 - Section 526
- Market Floor
 - Section 45K
- Long-term Off-take



Leadership in Sustainability



Industry Prospects

Meet or Exceed 2012-13 commercial milestones: **Restore investor confidence** - Signal risks early, avoid surprises

Distinguish Plant 1 performance and nth Plant:

- Yield
- Scale
- Capital Efficiency

New feedstocks & technologies compete with 1st Generation: Upside profits

- Cellulosics
- Waste streams

Support long term Policy stability and competition: We can win!

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Set realistic forward plans



Thank you.

Lee Edwards – CEO Lee_Edwards@virent.com



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