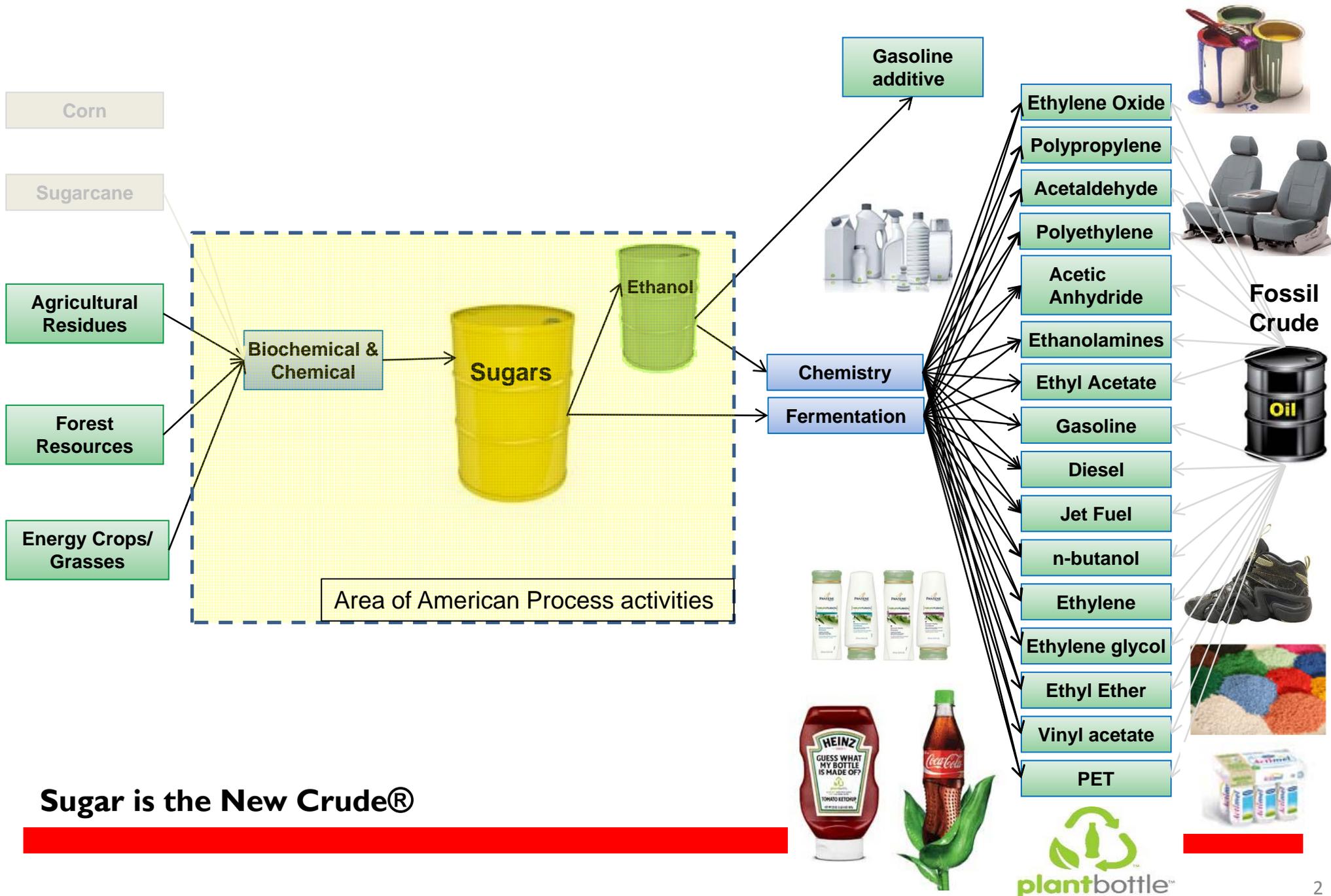


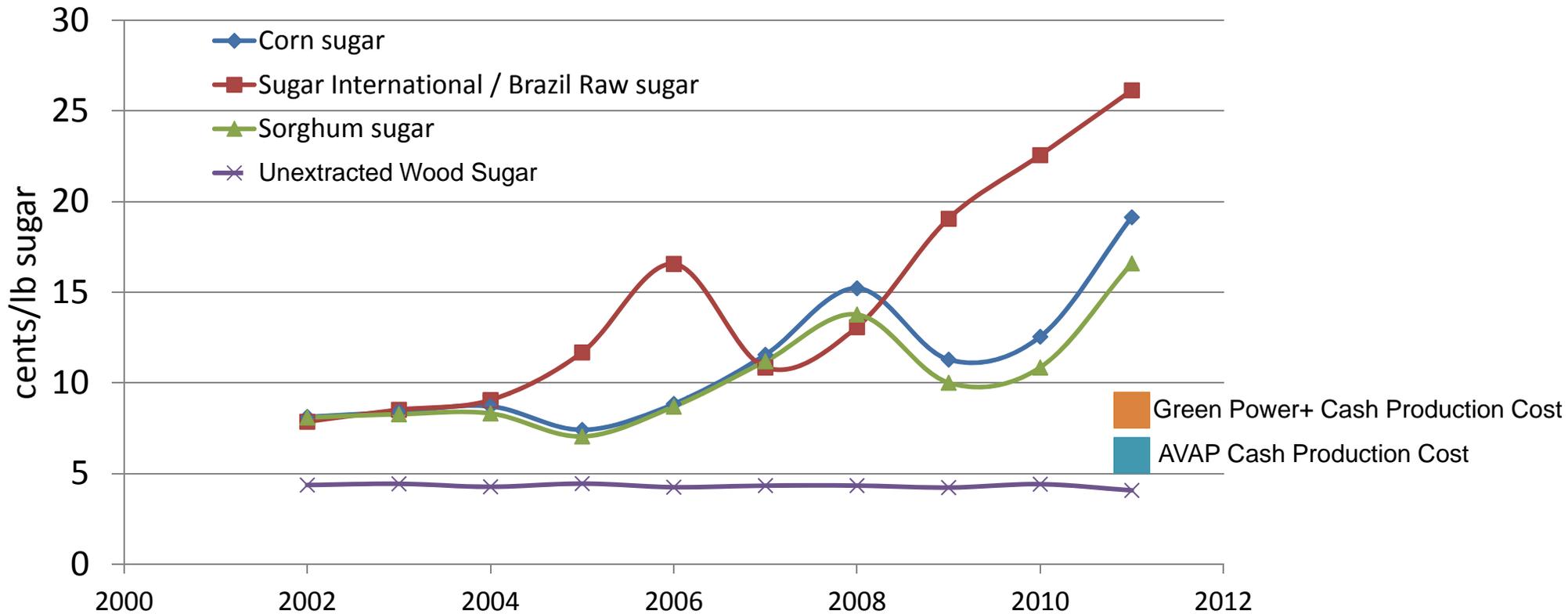
Alpena Biorefinery Demonstration Plant of GreenPower+ Technology

Sugar is the New Crude®





Cellulosic sugar prices are low & stable

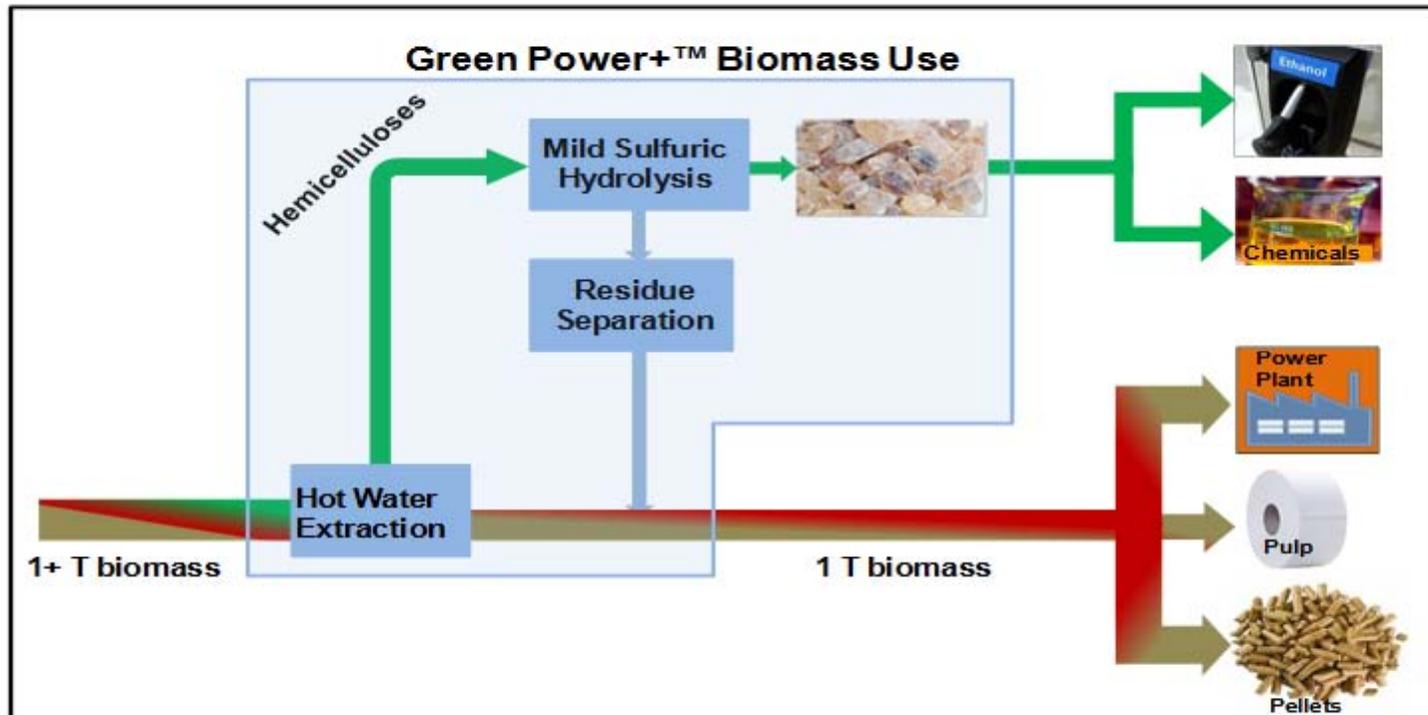
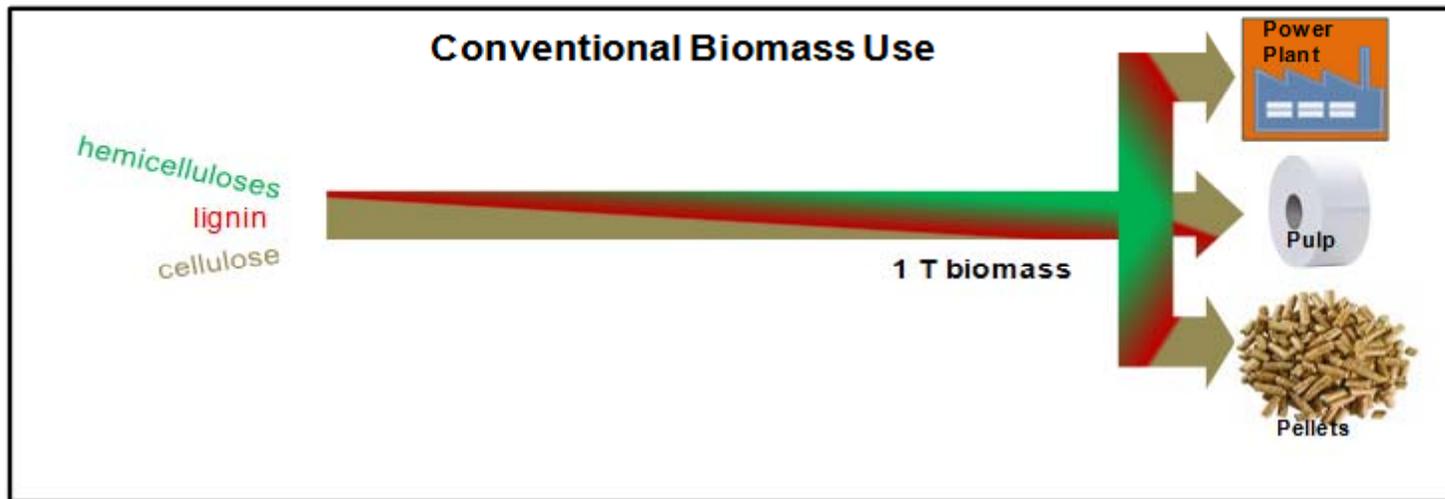


Sugar is the New Crude®

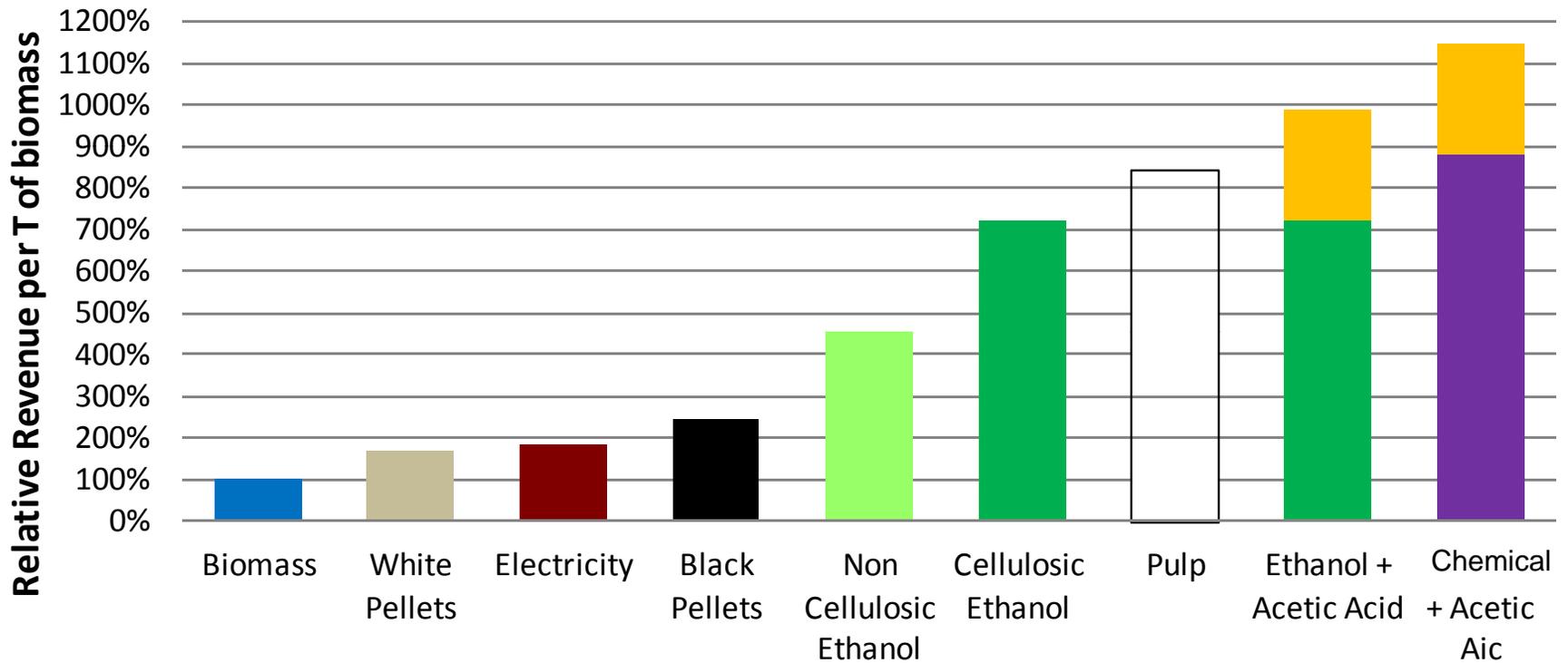
www.americanprocess.com



Green Power+ Cellulosic Sugars technology

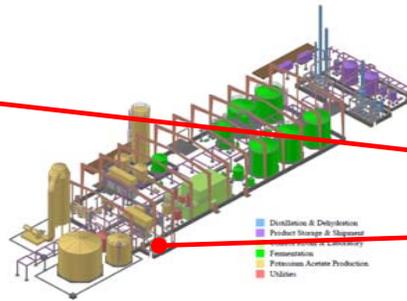


Green Power+ Biorefinery Value Proposition



Alpena Biorefinery – Green Power+ Commercial Demo Plant

www.alpenabiorefinery.com



- 7,000T/y Hemis → cellulosic sugars and acetic acid
- Cellulosic sugars → 700,000 USG/y cellulosic ethanol.
- Acetic acid → 700,000 USG/y potassium acetate deicer
- Received \$18MM DOE IBR grant, \$4MM Michigan state grant
- Negative feedstock cost based on tipping fee for effluent processing

www.americanprocess.com



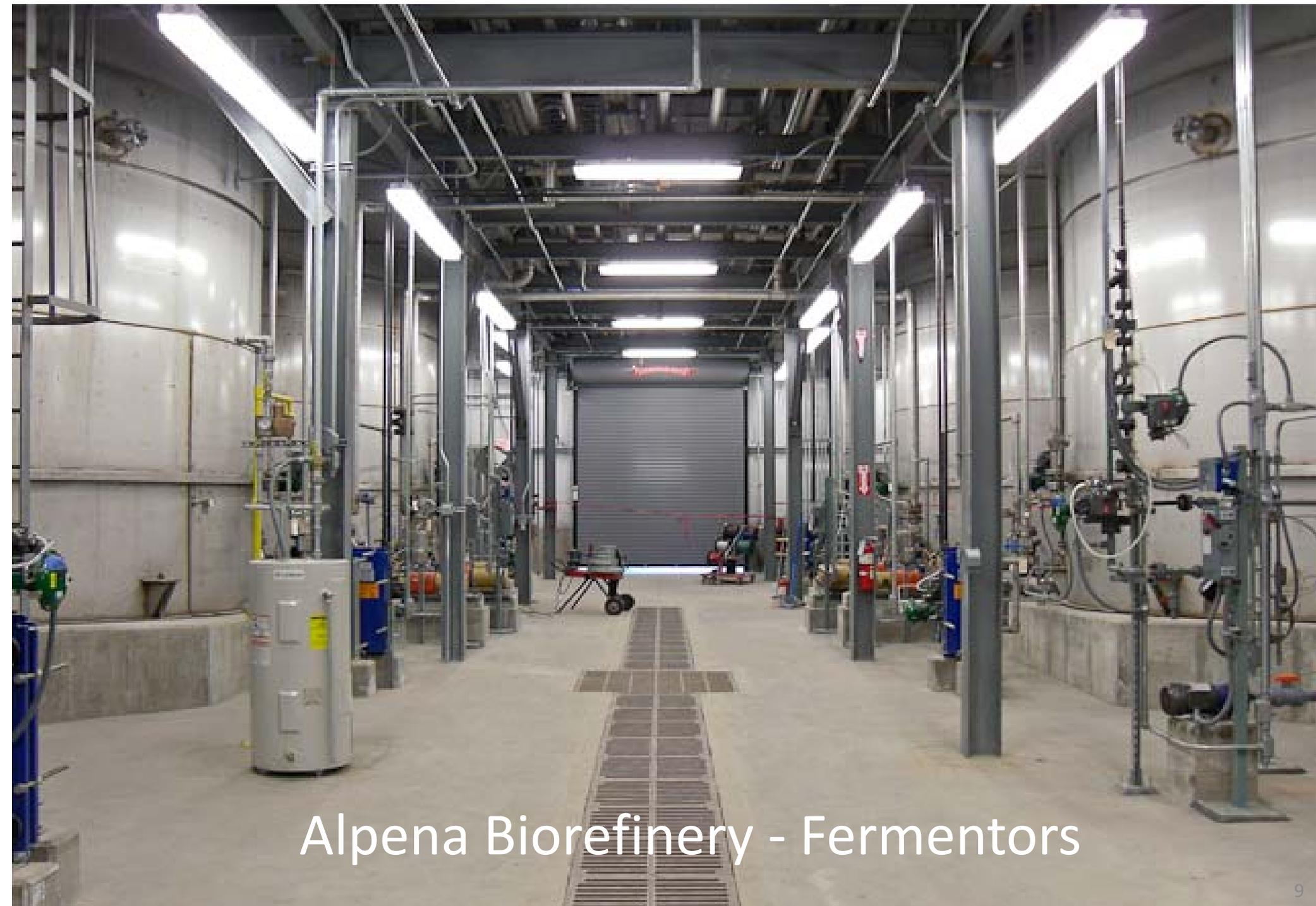
Alpena Biorefinery - VCE Evaporator



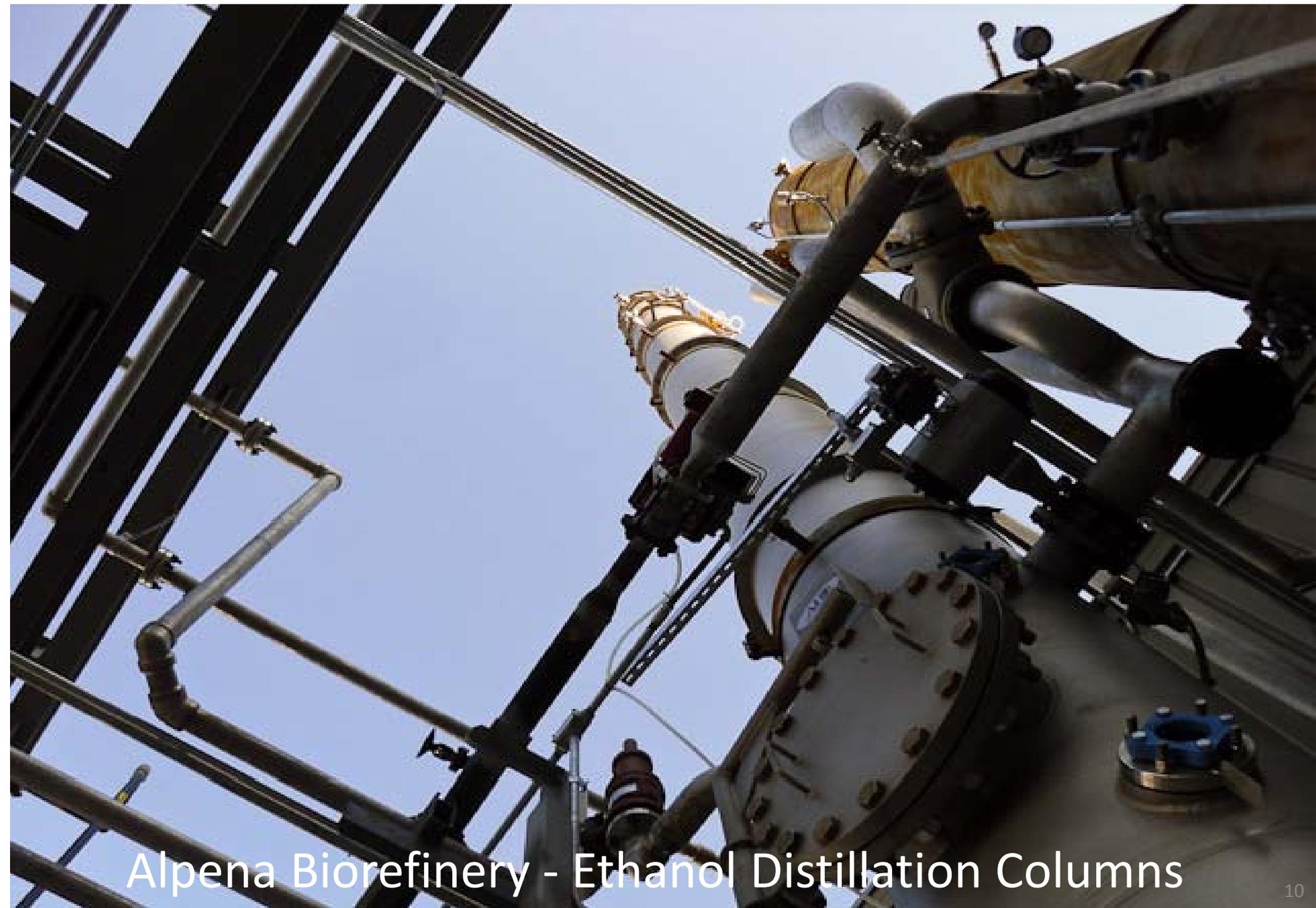
One of five plants recognized by the EPA to produce cellulosic ethanol in 2012

Alpena Biorefinery - Chemical Storage tanks





Alpena Biorefinery - Fermentors



Alpena Biorefinery - Ethanol Distillation Columns

June 2012

Startup – Excitement & Challenges meet daily!



Challenges of advanced biorefineries

- ▶ Large total CAPEX
 - Leverage co-production to decrease required scale
- ▶ Perceived and real technology risk
 - Operate large integrated demonstration plant
 - Keep it simple
- ▶ Execution risk
 - In-house control of basic engineering and construction management
 - True construction partner
- ▶ Lack of consistent environmental policy
 - Configure projects that can be profitable in all cases
- ▶ Financing
 - Look everywhere, conventional and non-conventional funding

API's Guiding Principles

- ▶ Keep it Simple
- ▶ Derisk
- ▶ Execute
- ▶ Low cost feedstock - Cheap Sugars
- ▶ Industrial technology business in a commodity
- ▶ Learn, learn, learn...from mistakes and successes

Sugar is the New Crude®

www.americanprocess.com



Next Steps for American Process

- ▶ Finalize shakedown of Alpena Biorefinery and enter steady state production
- ▶ Bring to production our second cellulosic sugar platform – AVAP
- ▶ Deliver large cellulosic sugar samples to future customers as a “market entry mechanism”

Sugar is the New Crude®

www.americanprocess.com



Thank you

**DOE - State of Michigan & MEDC - City of Alpena
Decorative Panels International - Devere Construction
NMTC program - Green Tech America - Michigan Tech**

