

Pioneer in Sustainable Chemistry

Industrial Process Emissions Reduction (IPER)

San Antonio, TX

January 30, 2024



Pyran sequesters 5-carbon molecules into durable end products



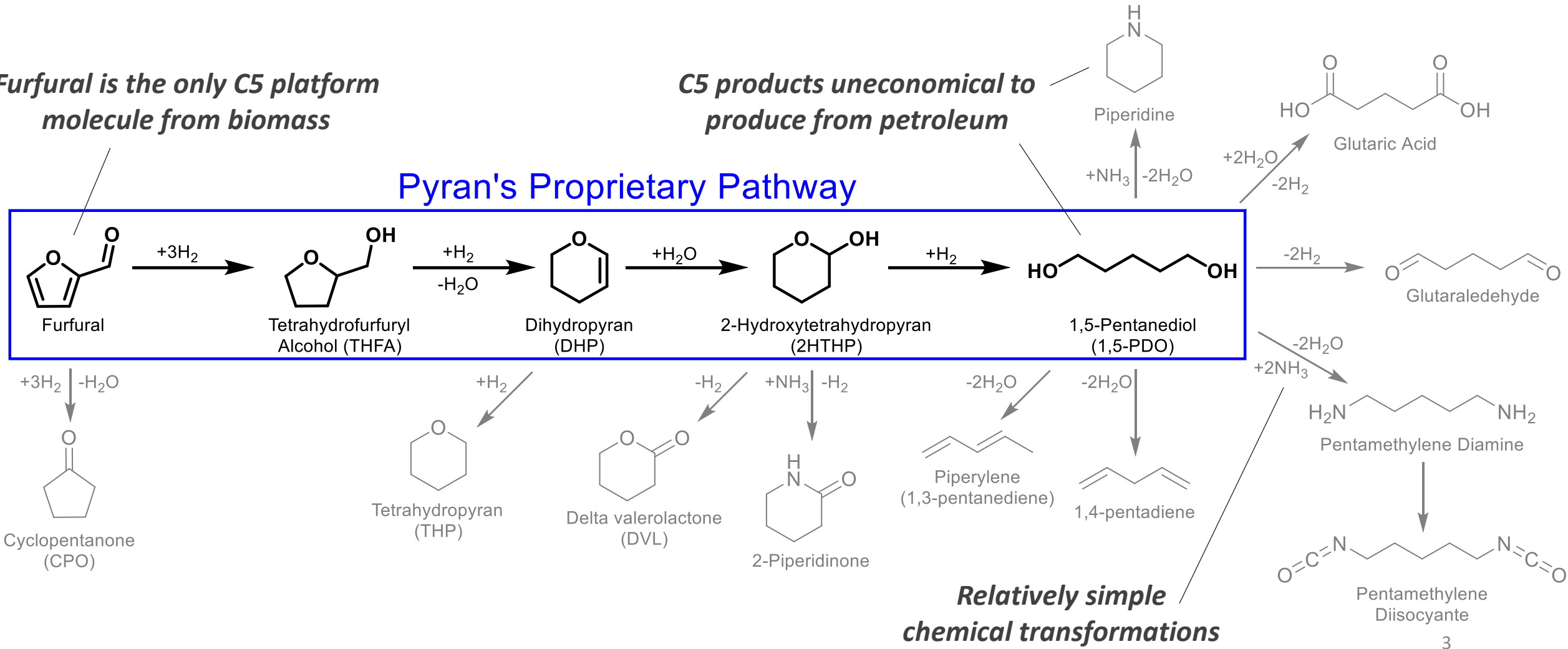
- Long durable product lifetimes
- Carbon sequestration reduces peak atmospheric CO₂
- **C4-C6 products represent 38 MMT CO₂ and \$65B per year**

Pyran's proprietary process represents the only cost-effective "gateway" to five-carbon (C5) products

Furfural is the only C5 platform molecule from biomass

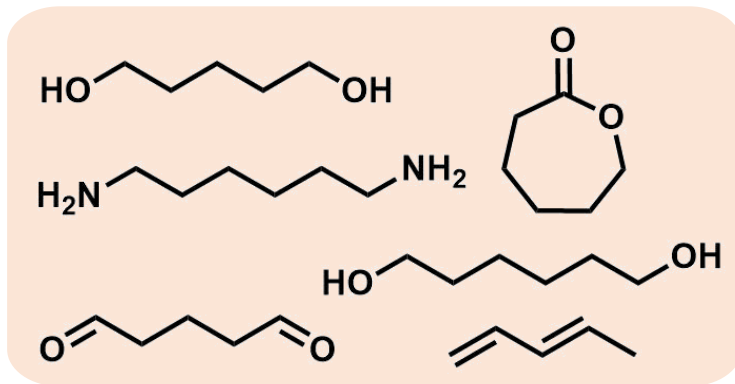
C5 products uneconomical to produce from petroleum

Pyran's Proprietary Pathway



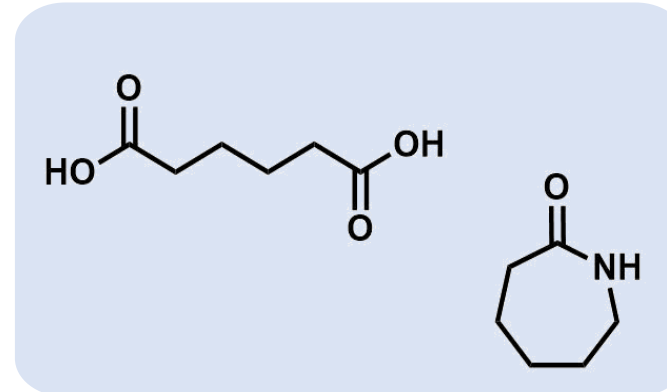
Pyran's products can eliminate up to 5.1 Gigaton CO₂ through 2050

High value markets



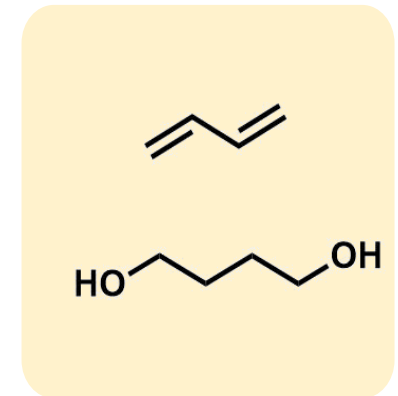
0.6
Gigaton

Medium value markets



1.9
Gigaton

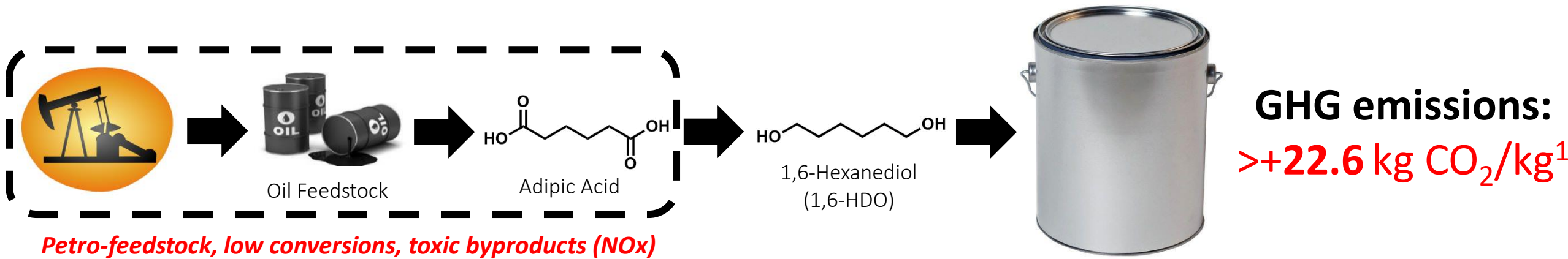
Commodity markets



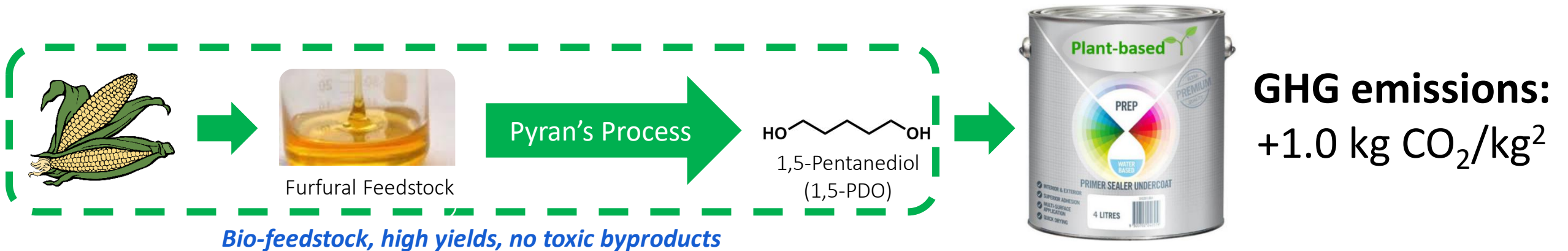
2.6
Gigaton

Pyran eliminates >95% of emissions by cradle-to-gate LCA

Incumbent process to oil-based 1,6-Hexanediol (1,6-HDO)



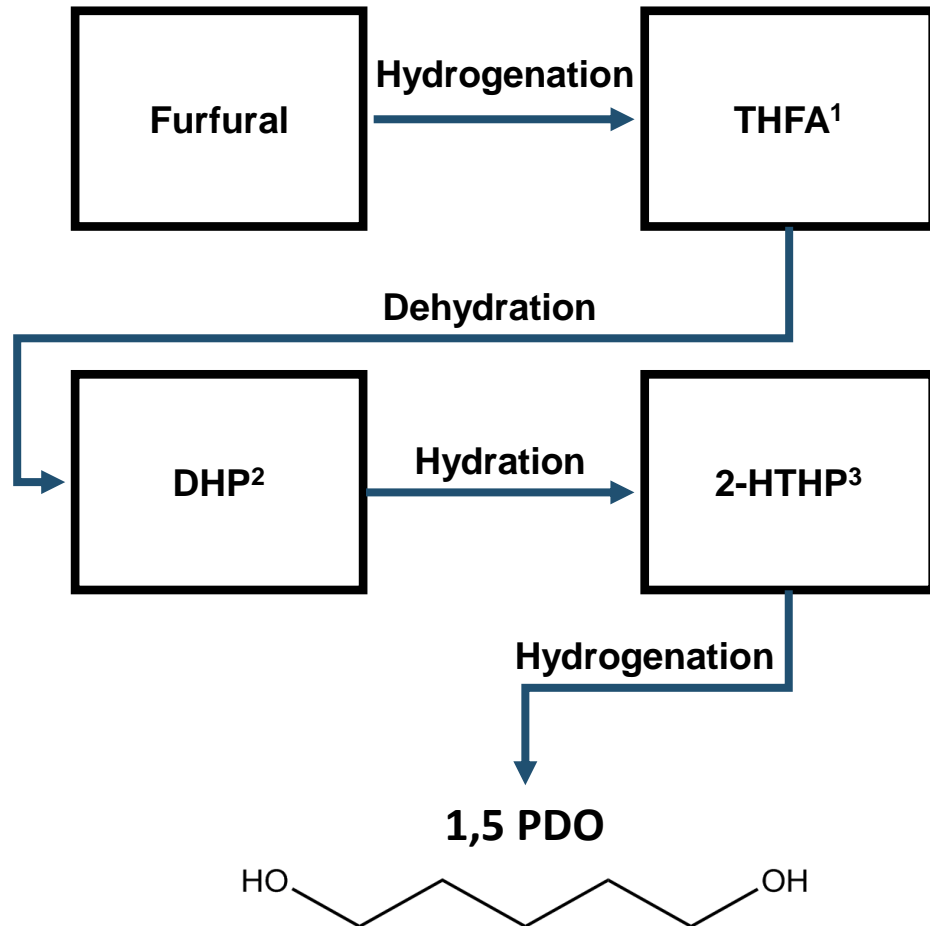
Pyran's process to renewable 1,5-Pentanediol (1,5-PDO)



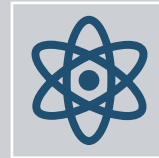
¹ Corona et al, "Life cycle assessment of adipic acid production from lignin", 2018 (see Appendix)

²Pyran analysis (see Slide 7 and Appendix)

Simple and Scalable Process



Four steps outlined here create a **biogenic building block** from furfural with over **85 percent yields**.



Each step has been **demonstrated in continuous** flow reactors with **readily available catalysts**.



It's a simple process. **No recycling**
No solvents
No co-products

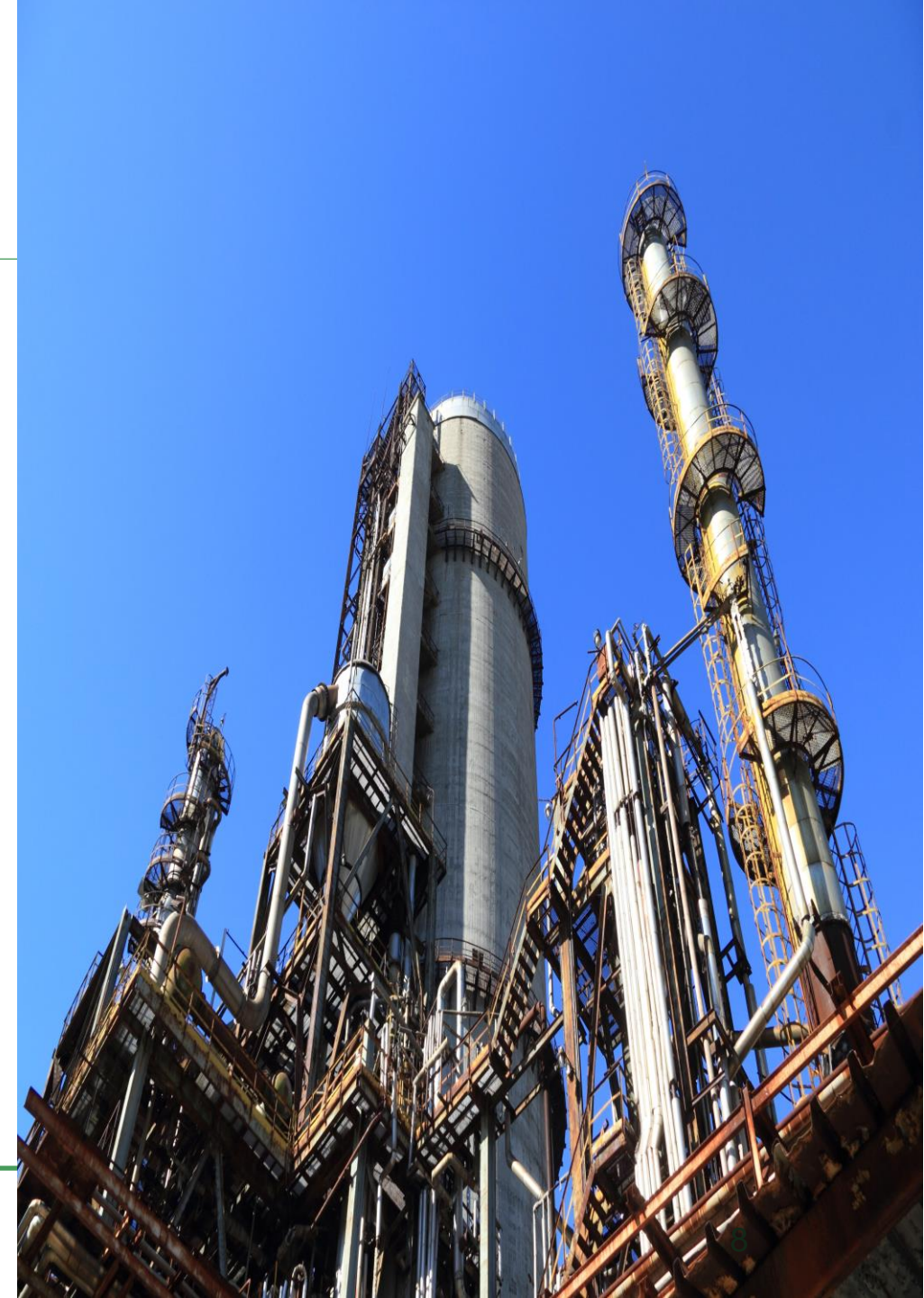
Pyran Technology Successfully Scaled by ~1000x

- Several **tons of product** sold to a combination of contracted and new customers
- Technology learnings inform design and significantly **de-risk commercialization**
- **Validated** scalability and **economics** of Pyran's process
- Currently in FEED **engineering design** and **site selection** in US Gulf Coast



Pyran raising Series C for Commercial Factory

- Pyran spun out from DOE grant at the University of Wisconsin
 - NSF and primarily equity-funded since company formation in 2018
- \$5.4M Series B equity round led by our strategic partner Kowa Co.
 - \$1.5M remaining for additional investors
- Raising \$70M Series C for construction of commercial plant
 - \$50M total installed capital + \$20M for company operations
- U.S. Gulf Coast site with ability to expand full C5 product suite with 5.1 Gigaton GHG reduction potential



Pyran's team has in-depth, industry expertise

Pyran's Leaders:



- Former Director of BP Chemicals-Europe
- CEO/COO of multiple startups
- Experienced scaling from test tubes to world scale

CEO: MEL LUETKENS, PHD, MBA



- Top 12 young chemists by American Chemical Society
- Raised first \$12M for Pyran



CTO and Co-founder KEVIN BARNETT, PHD



- Top 100 people in Bioenergy
- Co-founder of Anellotech



Co-founder: GEORGE HUBER, PHD

Pyran's Board:



- Former CTO of Dow Chemical



BILL BANHOLZER, PHD



- Founding executive of NatureWorks and board member of multiple bio-material startups



ANDY SHAFER, MBA



- Managing Director for Arosa Capital Management covering Alternative Energy.
- Lead Investor in Series A



PETE CHIDYLLO



Thank You

Kevin Barnett - CTO

kjbarnett@pyranco.com

(214) 886-3260

 **PYRAN**