



# ALDERFUELS

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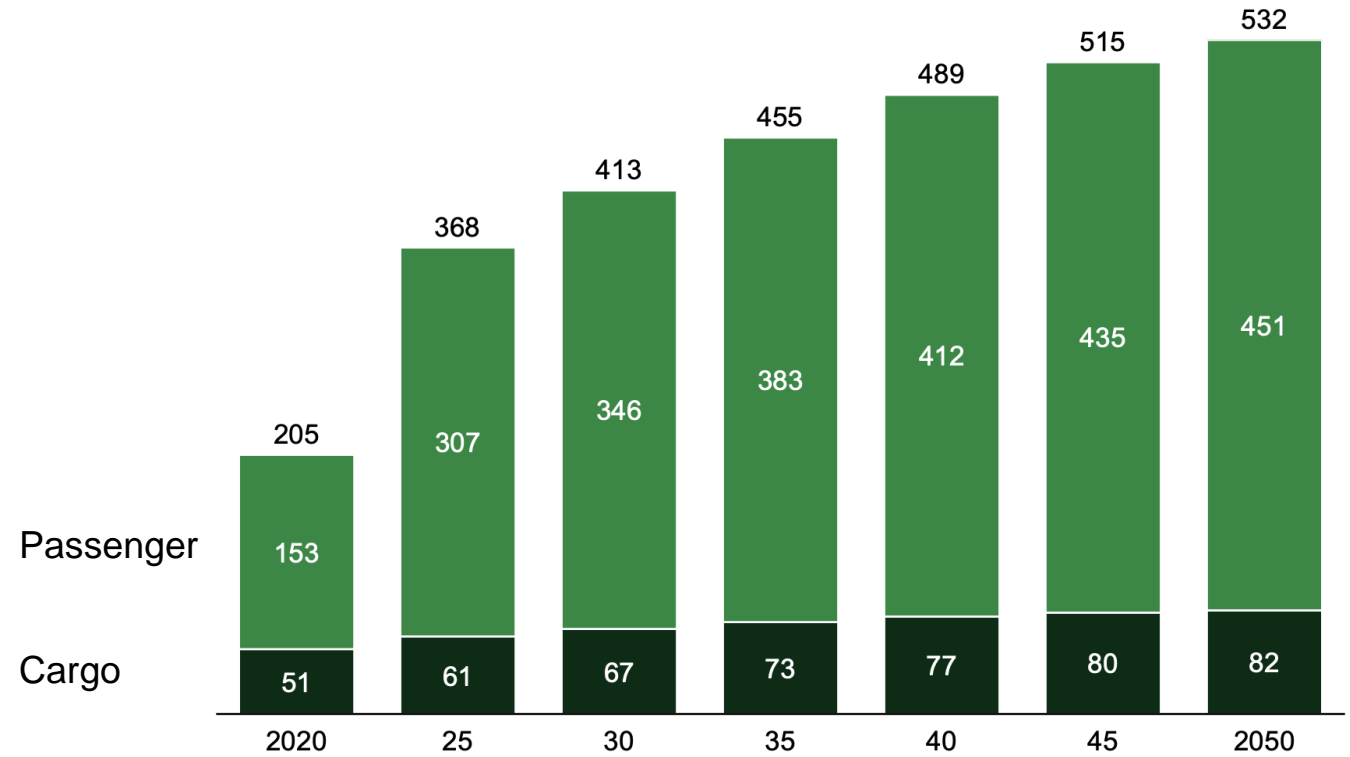


# We see a future of gathering energy instead of drilling for it

Global aviation energy demand projection million tons jet fuel

Air travel expected to double by 2050, with success of “SAF 1.0” creating a tipping point due to finite supply of waste fats, oils, and grease

New solutions are needed so low-carbon fuels are ***economical and accessible for everyone***



Bureau of Transportation Statistics; U.S. Energy Information Administration Outlook; Collins & McLarty (2020) Applied Energy, 265, 114787; Civil Aviation Organization CORSIA; McKinsey Global Energy Perspective (2021)



# We aim to gather locally and produce locally

- Gather abundant biomass residues and energy crops
- Deploy low-capital, efficient technology to concentrate biomass energy





*Energy potential for over **17 billion gallons of jet fuel** from U.S. forest residues & agricultural residues alone*

# Our solution for sustainable fuel is a load of rubbish

We see biomass as a relatively untapped global energy solution



## Forestry Residues

*Logging residue  
Forest thinning  
Wood processing*



## Agricultural Residues

*Bagasse  
Corn stover  
Cereal straw*

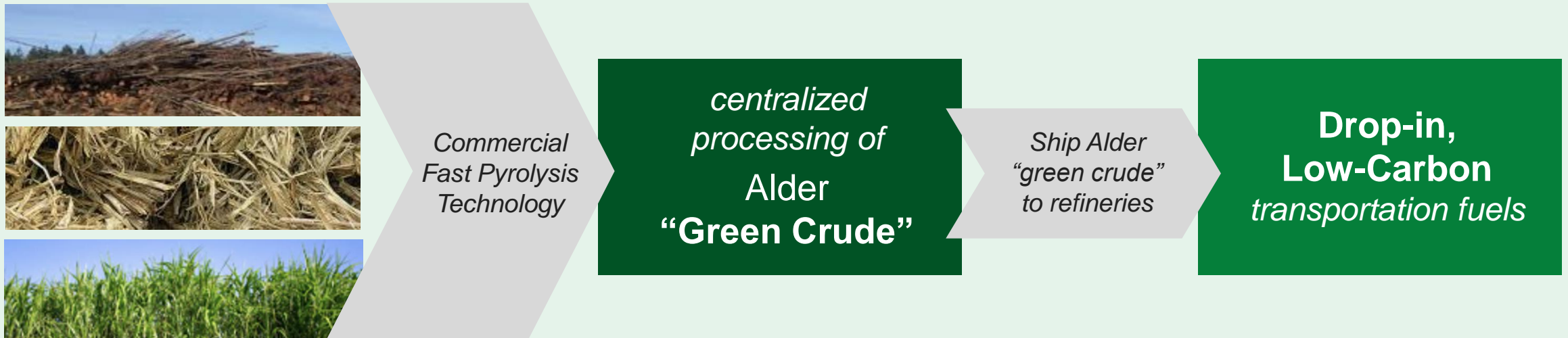


## Regen-Ag Energy Crops

*Miscanthus  
Poplar  
Switchgrass*



# Provide economies-of-scale savings by feedstock and technology working together



- Hub-and-spoke model to minimize biomass transportation costs
- Capital-efficient technology to produce energy-dense “green crude” oil at hub
- Ship “green crude” oil to existing refineries for processing into finished fuel



# Backed by leaders in SAF technology and deployment

- Strategic backing from United Ventures and Honeywell UOP
- Joint development agreement with Alder for process development and engineering package
- United providing largest SAF offtake agreement of 1.5 billion-gallons





# Next-generation “green crude” oil

- Alder proprietary technology upgrades fast pyrolysis oil into “green crude” with minimal inputs
- Eliminates need for catalytic cracking to enable distillate fuels production for jet and diesel



# Successfully scaling Alder will lead to positive global ESG outcomes



## Sustainable fuels

Alder's Biocrude will be produced from feedstocks that are sustainably sourced and consider soil health, carbon stock, and conservation and will provide low-carbon alternatives to petroleum crudes used across industry today



## Socioeconomic impact

Alder will activate socio-economic development through public and private partnerships focused on building new industries for sustainable feedstock supply (e.g., closed-loop regenerative farming in Colombia)



## Environmental justice

Alder will ensure local residents will be included in creating new industries and their livelihood will be positively impacted through access to new socioeconomic opportunities



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*Decarbonize the Skies*

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