2023

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Regeneration - The Basis of Life



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Moderator



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Built by Nature



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Frontier Impact Group



Phil Ireland
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Australia



Eija Hietavuo Tetra Pak

International

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Circularity 2023 App















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RENULEUM

A Frontier Impact Group company

Pioneering a Circular Economy Renewable Fuels industry

Fuelling a better future.

Renewable Diesel
Sustainable Aviation Fuel
Green Hydrogen





About Frontier Impact Group

Frontier Impact Group is a climate-solutions advisory and project development firm, deploying specialist expertise at scale to drive financially viable, planet-friendly solutions and accelerate the global race to Net Zero.

We work to ensure the technical, financial, social and environmental success of projects that have impacts on the four pillars for a sustainable environment.



HEALTHY SOIL

Sustainable agriculture and production of soil carbon and other offsets



CLEAN ENERGY

Renewable energy, hydrogen and energy efficiency



FRESH AIR

Reduced greenhouse gas emissions and improved air quality



WATER

Clean water and efficient water usage

FRONTIER IMPACT GROUP

STRICTLY COMMERCIAL IN CONFIDENCE

About Frontier Impact Group

- Frontier Impact Group is the holding company for all our businesses in the transition to net carbon zero
- All the business are interconnected, and this creates impact multipliers













Renuleum Vision



Annual outputs

- 800,000 million litres of fuel
- 340,000 tonnes of biochar
- 180 million litres of wood vinegar
- Avoided 4.1 million tonnes of CO2e emissions
- Create over 5,000 jobs in regional communities



Narrogin Future Energy Park

- JV Frontier Impact Group annd Carnarvon Energy (WA only).
- 18 Million litres of renewable fuel
- 8,000 tonnes of biochar annually
- 6 Million litres of Wood Vinegar
- \$6,700,000 in grant funding from WA government

Mildura Renewable Energy Park

- Development of Australia's second project has commenced
- \$235,000 grant from Sustainability Victoria



Economic Growth

In WA alone our pipeline of projects have the potential to deliver over \$20 billion GDP over the life of the projects (Independent ACIL Allen Economic Report)

4.7M tonnes CO2 e reduced per annum

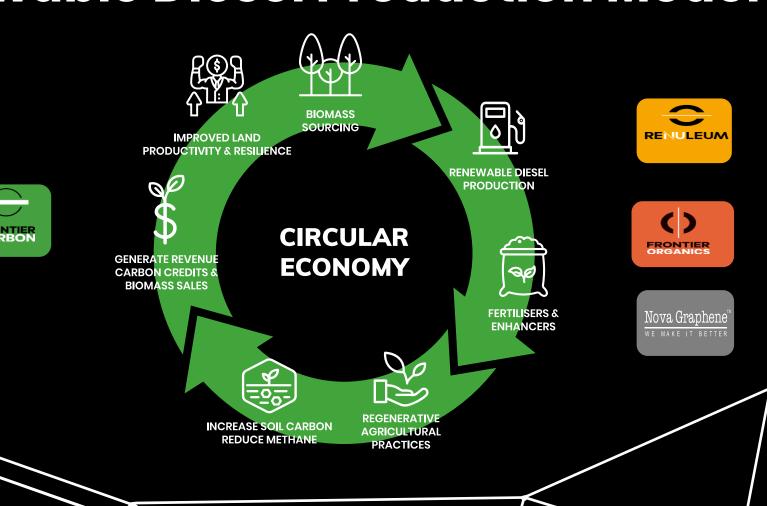


The First Circular Economy

FRONTIER



Renewable Diesel Production Model



STRICTLY COMMERCIAL IN CONFIDENCE

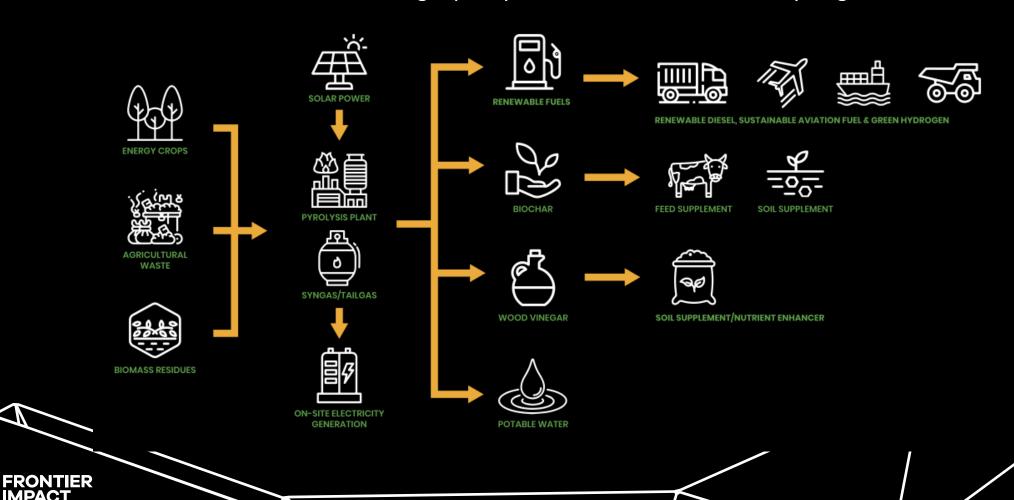
How does it work?

GROUP



RENULEUM BIOREFINERY PROCESS

Converts waste & biomass into high quality renewable diesel, SAF and hydrogen



Biochar

Annual production of 11,800 tonnes of graphene-rich biochar as a process by-product



Proven to increase carbon in the soil (Improves microbes)

METALLURGICAL CHARCOAL

Proven market to clean up contaminants from mining

WATER FILTRATION

Proven market in deactivated carbon

WATER RETENTION

Research demonstrates water better retained. Helps resilience to droughts & reduce cost of water



ANIMAL FEED

Improves the nutritional value of fodder and improves the health of the animal

MATERIAL STRENGTHENING

Increases strength of concrete and asphalt when added



Graphene

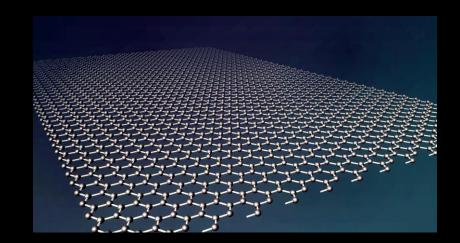
Good quality feedstock will produce high levels of graphene in biochar

PROPERTIES

- Harder than diamond
- 20x more thermally conductive than copper
- 100x stronger than steel
- 1000x more electrically conductive than copper
- Corrosion resistant
- Lighter than paper

APPLICATIONS

- High-strength building materials
- Batteries
- Electronics
- Road surfaces
- Defense





Wood vinegar

Pyroligneous acid, also called wood vinegar or wood acid, is a dark liquid produced by the destructive distillation of wood and other plant materials.

APPLICATIONS

- Fertiliser enhancer
- Soil disease inhibitor
- Pesticide/insect repellent
- Fungicide
- Health products for animals and humans







Find out more



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IT ALL STARTS WITH THE WHY MY LEARNINGS AS A SOCIAL ENTREPRENEUR

2013

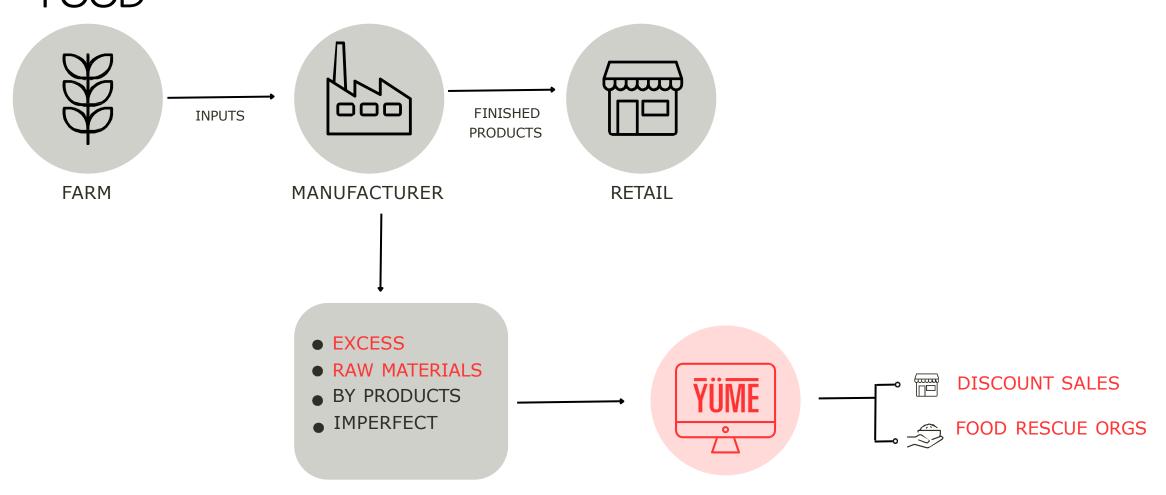
Spade & Barrow

17 YEARS.ONEGOAL

2016



A BETTER WAY TO MANAGE SURPLUS FOOD





FOR PURPOSE ORGANISATIONS ARE BOOMING









Why Impact Investing Is Ready To Go Mainstream

The Time For Impact Investing Is Now

'Impact Investing' Teeters on Edge of Explosive Growth

INVESTMEN

DELIVER ON YOUR MISSION



TEAM

PRODUCT MARKET FIT

BUILDING A SUCCESSFUL FOR PURPOSE BUSINESS IS MESSY!



QUESTION YOUR ASSUMPTIONS. ALWAYS.

(SPOILER ALERT, I DIDN'T)

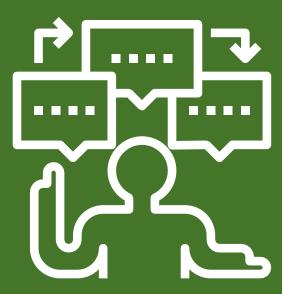
DON'T ASSUME YOU KNOW THE PROBLEM



DO

- ask the right people, the right questions talk directly to your audience
- learn the art of asking questions assume nothing

"we don't have any food waste"



DON'T ASSUME ONE SIZE FITS ALL



- Hyper focus
- Fix one specific problem at a time



DON'T ASSUME YOUR AUDIENCE WILL CARE ABOUT YOUR MISSION AS MUCH AS YOU DO!

DO

- Be customer centric
- Build a solution that works for them (the more it works, the more impact you will deliver)



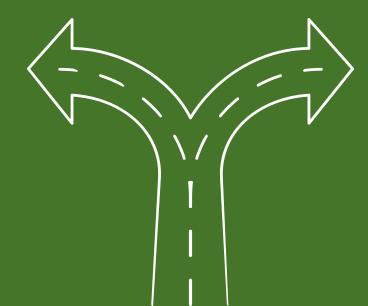
BE AWARE OF MISSION CREEP

impact



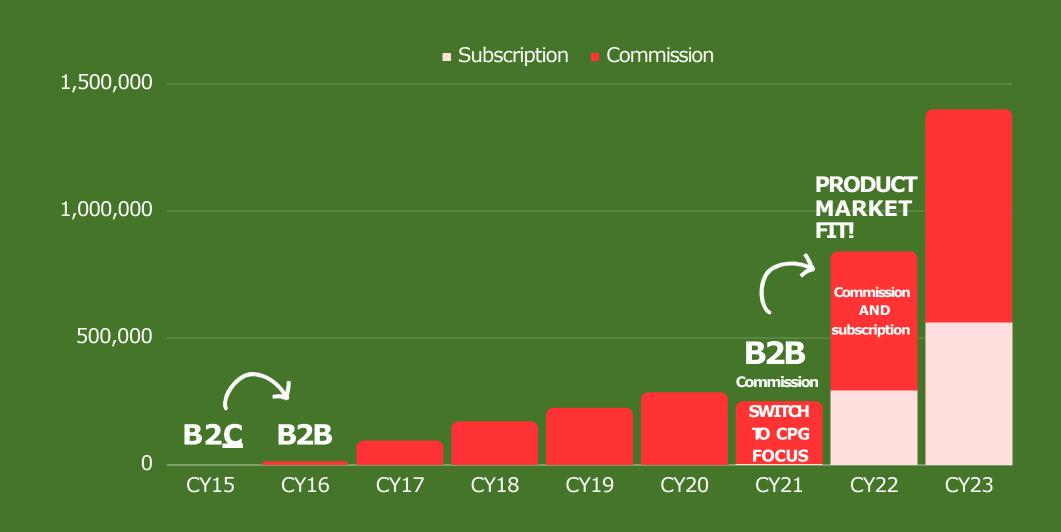
financial viability

DON'T ASSUME YOUR FIRST REVENUE MODEL IS BEST (OR RIGHT)



DO

continuously test if your revenue model serves your organisation









COMFORTABLE WITH THE UNKNOWN

PASSIONATE

INTEGRITY

RESILIENT

PROBLEM SOLVERS

INDEPENDENT

LATERAL-THINKERS

NON-INDUSTRY





Yume works with industry leaders...











































\$19 MILLION returned to businesses

7 MILLION KGS OF FOOD

redistributed to other businesses & charities



THE FUTUREIS IN OURHANDS

2023

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Tetra Pak®
PROTECTS WHAT'S GOOD

Principal Sponsor

Keynote



Eija Hietavuo

Tetra Pak International



How can we feed the world without starving the planet?

Eija Hietavuo, VP Corporate Affairs Tetra Pak

20 November, 2023





With a strong history and legacy, we are a world leading food processing and packaging solutions company

Pioneers in food technology for ~70 years



"A package should save more than it costs." — Dr. Ruben Rausing

Our purpose

We commit to making food safe and available, everywhere and we promise to protect what's good: food, people and the planet.

Today's ecological challenges are all connected

#3

Global food systems account for more than

1/3

of global greenhouse gas emissions⁴.

#4

The world is losing

137

wildlife species – every day, largely driven by the clearing of forests for agriculture⁵. Global waste is projected to increase 70° by 2050⁶.

^{4.} FAO.org. (2021, March 9). Food systems account for more than one third of global greenhouse gas emissions. Source: Food and Agriculture Organization of the United Nations.

^{5.} Mitchell, C. (2022, July 16). Deforestation: Clearing The Path For Wildlife Extinctions. Source: World Animal Foundation.

^{6.} Worldbank.org. (2018, September 20), Global Waste to Grow by 70 Percent by 2050 Unless Urgent Action is Taken: World Bank Report, Source: Worldbank.org.



Collective action can help transform global food systems

Increase access to safe, nutritious food

Reduce food loss & waste

Build sustainable food value chains



Increase access to sustainable food, while reducing losses

Co-innovating for sustainable food & beverage production

Enabling dairy production for smallholder farmers

Upcycling byproduct and food waste

Processing technologies to reduce waste

Supporting programmes for child nutrition

Prolonging shelf life





Strengthening packaging circularity

Design for recycling

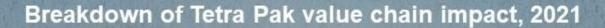
Scale-up collection, sorting and recycling infrastructures

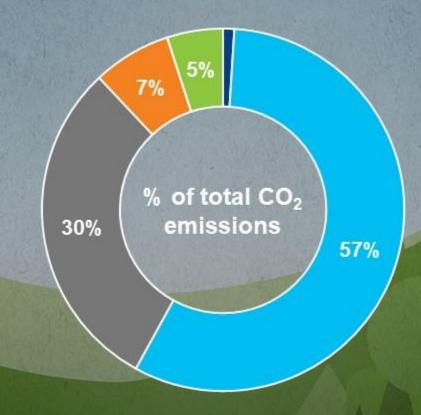
Increase & expand use of recycled material

Creating & raising awareness for collection & recycling



Full value chain approach is needed for climate impact





□Tetra Pak operations □Use of sold equipment □Purchased material & other upstream □End of life □Transport



Our approach

Towards sustainable food systems

Food.
People.
Planet.





Tetra Pak is a world leading food processing and packaging solutions company. Working closely with our customers and suppliers, we provide safe, innovative and environmentally sound products that each day meet the needs of hundreds of millions of people in more than 160 countries. With more than 25,000 employees around the world, we believe in responsible industry leadership and a sustainable approach to business.

www.tetrapak.com

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