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NEW STRATEGIC DIRECTION

A GREEN & SCALABLE TECHNOLOGY

Leaf Resource's proprietary **GlycellTM** biorefinery process breaks down waste plant biomass using crude glycerol & produces cellulosic sugars. Lignin & refined glycerol are produced as co-products.

Leaf has restructured to a low cost business model to focus on:

- Licence fees generated from the exploitation of its proprietary Glycell™ intellectual property; &
- Royalty fees attaching to a share of the gross sale proceeds generated through the combination of its Glycell[™] technology with various manufacturing & production processes.

The world wants renewable chemicals, evidenced by major chemical companies moving toward a sustainable green economy.

Leaf's primary focus is on biorefinery projects in Queensland & Malaysia and enhanced by our partnership with Gevo Inc, a renewable chemical and advanced biofuels company.

Leaf's objective is to reach commercial production in partnership with world class companies & governments.









WHAT LEAF HAS ACHIEVED TO DATE

THE BUILDING BLOCKS ARE IN PLACE

Commercial validation

- Joint development agreement with US-listed 'low carbon' advanced biofuel company Gevo
 - + Integrated engineering model to assess feasibility of a potential manufacturing facility in Queensland (underway)
 - + Goal to couple Leaf's technology with Gevo to produce 'green' jet fuel
- Application for funding under Malaysia's Technical Depository Agency (TDA) Industrial Collaboration Program (ICP)
 - + Fully assessed & accepted as complete program has US\$11.2b for matching deployment on approved projects
 - + Successful outcome for Leaf will provide ~US\$5m in funding for the Malaysia project (through to Bankable Feasibility Study)
- Technology proven at pilot scale using existing commercial equipment

Technical validation – leveraging the best of biology & chemistry

- Independent engineer Leidos has confirmed Glycell™'s ability to produce cellulosic sugars & recover glycerol for recycling or sale
- Novozymes has independently verified yields of the Glycell™ processed biomass
- Aurecon has confirmed technical feasibility of Glycell™ & strong economics of proposed Malaysian biorefinery in FEL2 study
- Amalgamated Research LLC confirms 95% of glycerol recovered from Glycell™ process is recoverable using SMB chromatography
- FEL3 study underway to support Malaysian project investment package

Strong & expanding IP position

- Patents granted in 2014 covering core Glycell™ technology in Australia
- 20 patent applications across four families in other jurisdictions including Malaysia, USA & Europe
- Significant knowledge base & confidential know-how regarding the Glycell™ process platform



GROWING MARKET FOR LOW CARBON TRANSPORTATION FUELS & RENEWABLE CHEMICAL PRODUCTS



THE PROBLEM

Many countries & individual companies have stated objectives to bring biomass derived feedstocks into various supply chains including fuels & chemicals

- Fossil fuels emit greenhouse gases (GHG's)
 - Companies want to mitigate liability
 - Governments want to reduce emissions
- Consumers care about pollution & want the GHG's addressed



THE SOLUTION

"Decarbonise" – lower the carbon footprint of fuels by moving to 'green carbon', using renewable energy in the production of mainstream liquid fuels.

- Carbohydrates (sugars) can be made & used from many sources low cost biomass in Australia (sugar cane) & Malaysia (empty fruit bunch)
- Fermentable sugars produced using GlycellTM can lead to replacement of fossil carbon with low carbon replacement in many products currently derived from petroleum inputs



OPPORTUNITY FOR LEAF

Together with Gevo, Leaf sees opportunities in the following markets:

- Renewable jet fuel
- Renewable gasoline
- Specialty gasoline blendstocks
 - Animal feed
- Specialty chemicals & solvents



THE QUEENSLAND BIOREFINERY PROJECT

- The agreement with Gevo is structured around three phases of joint work designed to establish a bankable project
- Currently there is approximately 12 million bone dry tonnes of available biomass produced in Queensland with more than 90% of this material from the sugar cane industry
- Leaf & Gevo have agreed to participate jointly in a recently awarded grant program from the Queensland Government to investigate the commercial development & commercialisation of the project
- Leaf has commenced discussions with Queensland sugar cane groups on feedstock & site location





THE QUEENSLAND BIOREFINERY PROJECT





THE MALAYSIAN BIOREFINERY PROJECT

Confirmation of a critical milestone with the receipt of correspondence from the Malaysian Technical Depository Agency (TDA) regarding the acceptance & completion of Leaf's application for funding consideration under the Industry Collaboration Program (ICP)

The Company has been advised that an initial candidate representing a major aerospace transport vendor has been identified with other candidates currently being assessed

 Gevo has expressed an interest in participating in the Malaysian project & this is now being commercially assessed by both parties





THE MALAYSIAN BIOREFINERY PROJECT





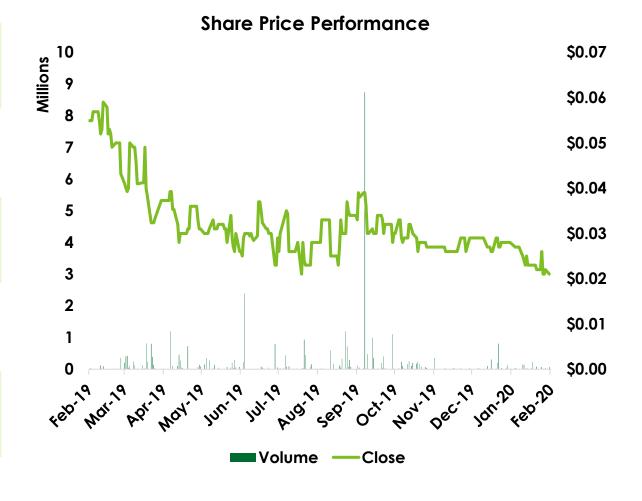
BOARD & MANAGEMENT

Doug Rathbone Non-Executive Chairman	Chemical engineer who served as CEO & MD of Nufarm Limited from 1982 to 2015. Under his leadership Nufarm transformed itself from a \$20m business to one with more than \$2 billion in sales as it became one of the world's leading crop protection & seed companies.	
Ken Richards Non-Executive Director	Over 30 years of experience as a Managing Director in listed & unlisted companies across the agriculture, finance and technology sectors. Track record in managing, transitioning & growing companies.	
Matthew Morgan Non-Executive Director	Over 10 years of executive management experience in private equity funded portfolio companies and venture capital at Queensland Investment Corporation. Principal of Millers Point Company, an advisory business that provides consulting and advisory services to emerging companies with high growth or turnaround objectives	
Bill Baum Non-Executive Director	Mr Baum brings extensive chemical & energy industry experience from across the globe to Leaf having worked as an independent consultant in bio-based chemicals and fuels with companies such as Gevo, BASF, BP and Shell and SBI Bio-Energy	
Alex Baker Managing Director & CEO	More than 20 years multi-sector experience, specialising in product innovation in the broader life sciences sector. Previously Chief Operating Officer of Leaf Resources & was instrumental in the development & progress of Leaf's Glycell™ process.	



CORPORATE STRUCTURE

ASX code	LER	
ASX price	\$0.02	
Shares on issue	327,006,610	
Market capitalisation	\$6.54 million	
12-month price range	\$0.02 - \$0.059	







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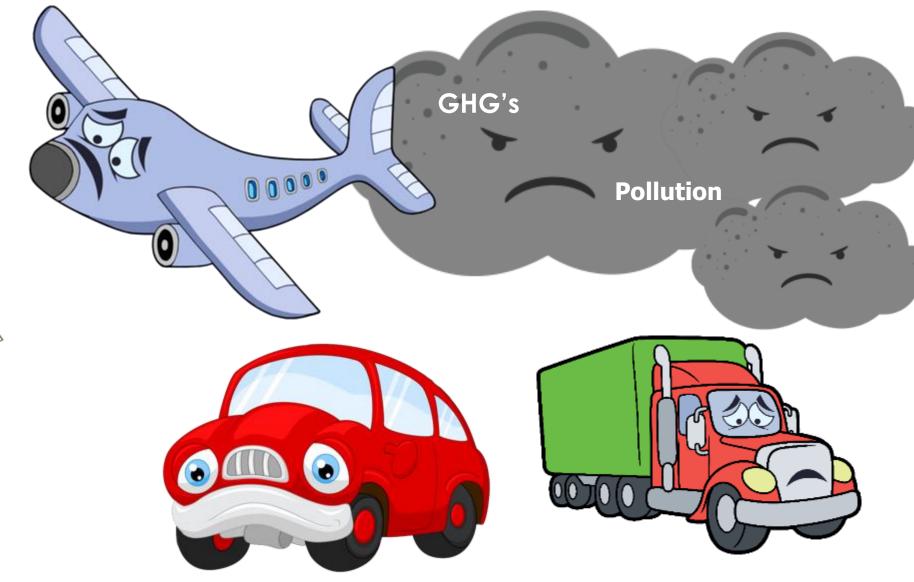
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TECHNICAL APPENDICES



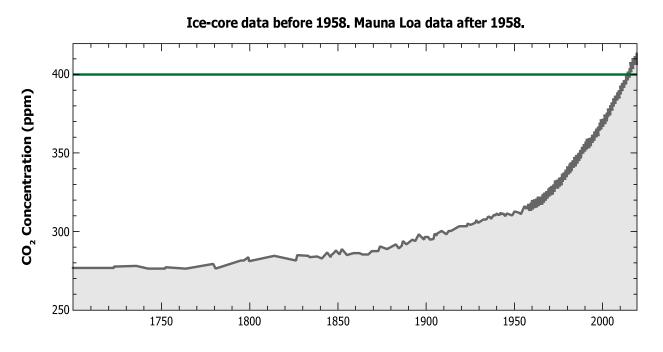
WE ALL HAVE A PROBLEM, AND WE AREN'T GOING TO IGNORE IT



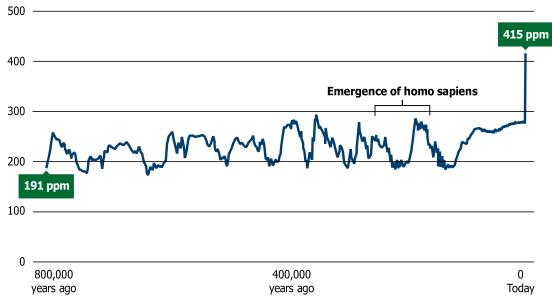


A NEW WORLD RECORD EVERY YEAR

- Carbon dioxide has doubled since the age of fossil fuels
- Levels will continue to rise unless we change



Carbon dioxide measurements taken at varying intervals from an Antarctic ice core:

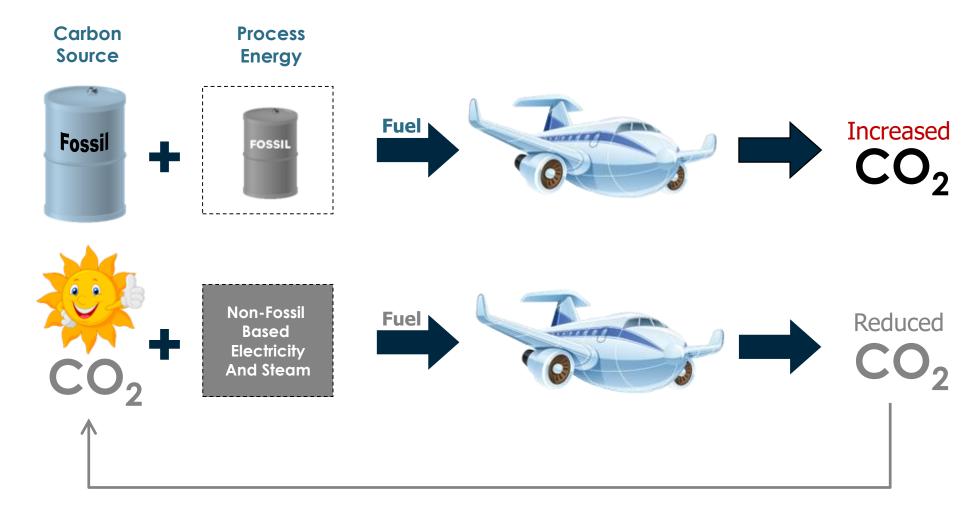




 ${\tt Source: World\ Data\ Center\ for\ Paleoclimatology,\ Boulder\ and\ NOAA,\ Paleoclimatology\ Program}$

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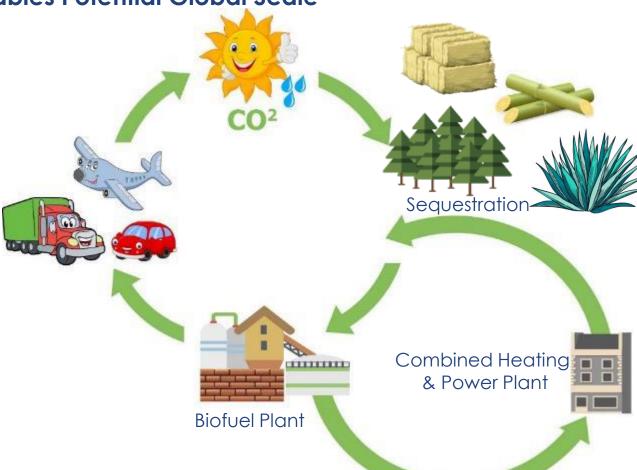
REPLACE THE **CARBON SOURCE & ENERGY SOURCE** TO ELIMINATE GHG'S FROM FUELS





CELLULOSIC FEEDSTOCKS ARE ENABLED

Enables Potential Global Scale



Cane, Molasses, Bagasse, Rice Straw, Wheat Straw, Corn Stover





Wood, Forestry Residues, Slash, Stover

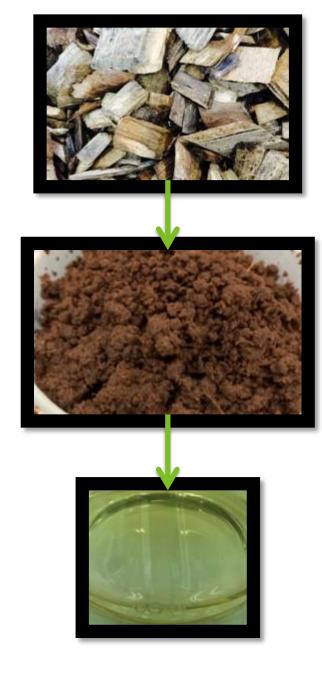


GLYCELLTM

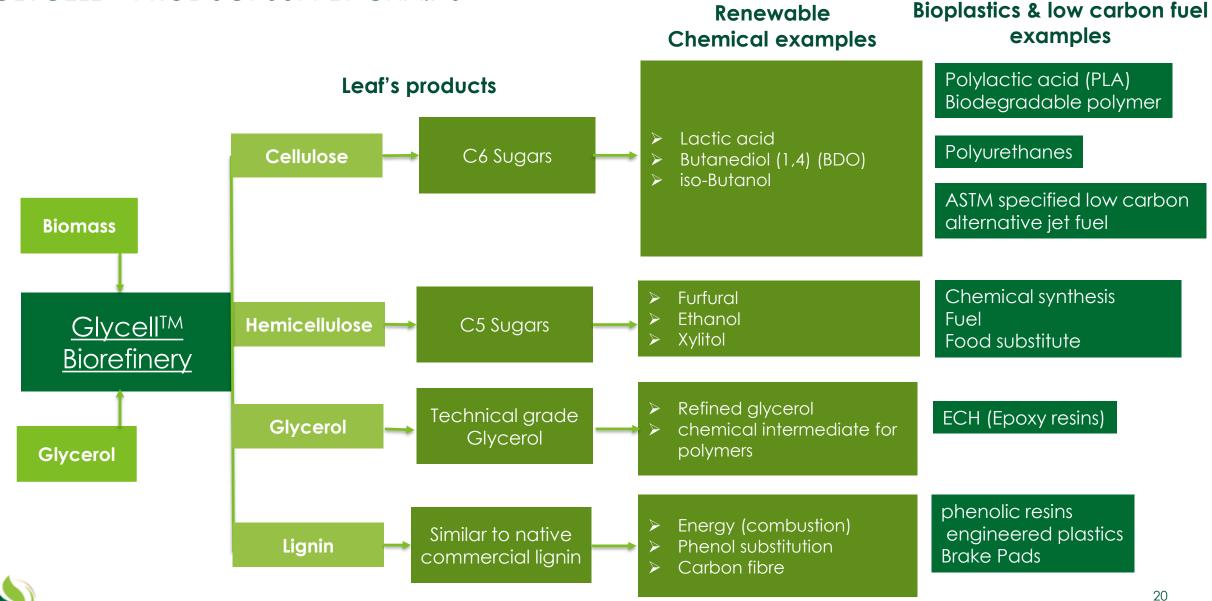
QUALITY COST EFFECTIVE INDUSTRIAL SUGARS

- Glycell™ Process Design package is based on:
 - Glycerol assisted pre-treatment;
 - Enzyme hydrolysis (Novozymes), and;
 - Specific separation technologies including SMB.
- Industrially available equipment
- High Cellulose recovery
- High conversion of Cellulose to Sugars
- Low sugar decomposition profile
- Highly fermentable sugars
- FEL 2 design report supported by TPD pilot data:
 - US base design (hardwood residues);
 - Malaysian specific design (Oil palm waste fibre).
- Competitive sugar production costs cf. other biorefinery technologies.





GLYCELLTM PRODUCT SUPPLY CHAINS



THE GLYCELLTM BIOREFINING PROCESS

TRANSFORMS THE ECONOMICS OF PRODUCING CHEMICALS FROM AGRICULTURAL WASTE

THE PROCESS UTILISES RENEWABLE INPUTS IN AN ENERGY EFFICIENT PROCESS TO PRODUCE LOW CARBON FEEDSTOCK TO PRODUCE REMEWABLE LOW CARBON BASED CHEMICALS, PLASTICS & ADVANCED FUELS



Glycell™ carbohydrate yields compared with other conversion processes provide a 10-25% yield increase depending on the biomass feedstock & composition



Process works with a range of readily available supply sources of low-cost biomass feedstock



Glycell™ chemistry
uses low grade
glycerol & recovers it
at greater than 95%,
opening up the
opportunity to add
refined glycerol as a
co-product



Process integrates existing industrially available equipment



TECHNICAL VALIDATION OF THE GLYCELLTM BIOREFINERY

Leidos Engineering acting as independent
engineer – has
confirmed that Leaf has
demonstrated process
feasibility of producing
cellulosic sugars and
recovering glycerol for
recycling or sale

Novozymes has independently verified yields of the GlycellTM processed biomass from multiple species

1 and 5 tonne per day demonstration studies have been conducted with over 700 hrs of operating data captured; >50 tonnes EFB processed material for sample preparation and supply available

Fermentability by common industrial yeasts and bacteria showed excellent fermentation results FEL2 reference design engineering reports completed; FEL3 (to support Malaysian project investment package) underway



BIOMASS FLEXIBILITY



Poplar



Bagass



Palm empty fruit bunch fibre



Eucalyptus





PILOT PLANT SCALE 3-5 TPD - USA





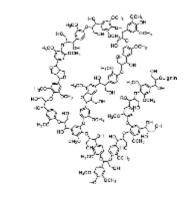
INTEGRATED PILOT WORK FOR PROJECT ENGINEERING, MALAYSIA





www.leafresources.com.au

DEVELOPMENT OF THE LIGNIN MARKETS



\$450 to >\$2,000/tonne

Mostly \$450/tonne

Dispersants, Emulsifers, Aromatics

Suppliers	Volume (kta)
Borregaard, Norway	500
Tembec, Canada	570
Aditya Birla, India	120
Cartiere Burgo, Italy	45
Total	1,235
Meadwestvaco, USA	35 - 60
Metso, Sweden (Demo plant)	8
Domtar, USA	25
Stora Enzo, Finland	25
Total	93 - 118
Greenvalue, Switzerland	6
a few pilot plants	<1
a few pilot plants	<1
a few pilot plants	<1
First 300 t (DB)/d plant	70 - 80
	Tembec, Canada Aditya Birla, India Cartiere Burgo, Italy Total Meadwestvaco, USA Metso, Sweden (Demo plant) Domtar, USA Stora Enzo, Finland Total Greenvalue, Switzerland a few pilot plants a few pilot plants a few pilot plants

\$1,000 to \$1,200/tonne
Animal nutrition, Foams,
Polymers, glues

Glycell lignin has properties like soda lignin & likely expected to fit into the higher value market applications.



LIGNOCELLULOSIC BIOMASS AS A BIOECONOMY PLATFORM

Towards a Low Carbon Economy

- Circular bio(based)economies have set drivers focusing on lignocellulosic biomass as a
 platform chemical feedstock to produce intermediates for industry to take further along
 the low carbon renewable value chain.
- As part of this, biorefineries are regarded as a cornerstone of a bioeconomy & can be
 deployed & integrated to transform biomass to usable useful chemicals.
- Additionally biorefineries provides local economic opportunities to local workers, farmers, * support & service industries.

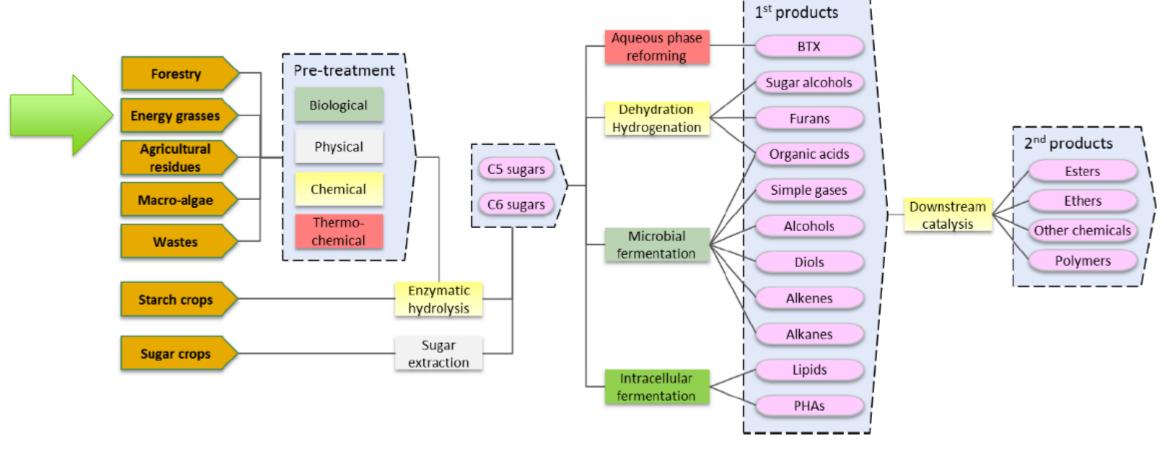


SEVERAL CELLULOSIC BIOREFINERIES HAVE BEEN ESTABLISHED – TECHNOLOGY WORKS

First commercial scale plants continue their trajectories towards higher utilization MSW to Sawdust BioGas to EtOH Renescience Wood residue DSM POE to EtOH Corn Stover to EtOH Sugarcane Fibre to EtOH Sugarcane Fibre to EtOH raizen novozymes



RENEWABLE LOW CARBON MOLECULE PLATFORMS



"Sugar Platform to biofuels and biochemicals" Final report for the European Commission Directorate-General Energy N° ENER/C2/423-2012/SI2.673791 April 2015 V2.1

