

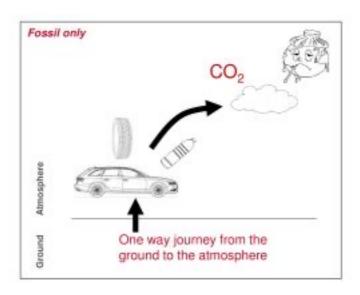
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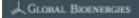
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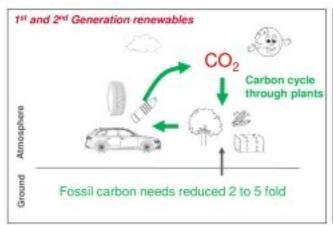
Using fossil resources releases ${\rm CO_2}$ in the atmosphere

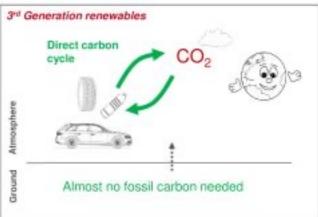


- Our planet is warming because of CO₂, the main green-house-gas
- Need for the deployment of sustainable and environment-friendly solutions



Introducing carbon cycles





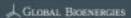
- 1st and 2nd Generation biofuels and biomaterials will help on the short term to reduce human carbon footprint.
- Using carbon emissions from various industries, and eventually atmospheric CO₂, shorter and more efficient carbon cycle will provide long term solutions.

Mission

Global Bioenergies develops solutions to produce 1st, 2nd, and 3rd generation biofuels and biomaterials, in order to reorganize the carbon cycles in fuels, plastics, and fine chemicals.

As a first and main target, Global Bioenergies intends to convert various resources into isobutene, a key platform molecule today massively derived from oil. L GLOBAL BIOENERGIES

- 1. What we do
- 2. Bio-gasoline
- 3. Other markets for bio-Isobutene
- 4. Road to profitability
- 5. Team
- 6. Financials



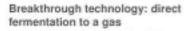
A simple and robust proprietary technology



Renewable resources







- Exclusive rights on 32 patent families on bacteria engineered to produce isobutene
- Pioneering the fermentation of a gas -several key advantages





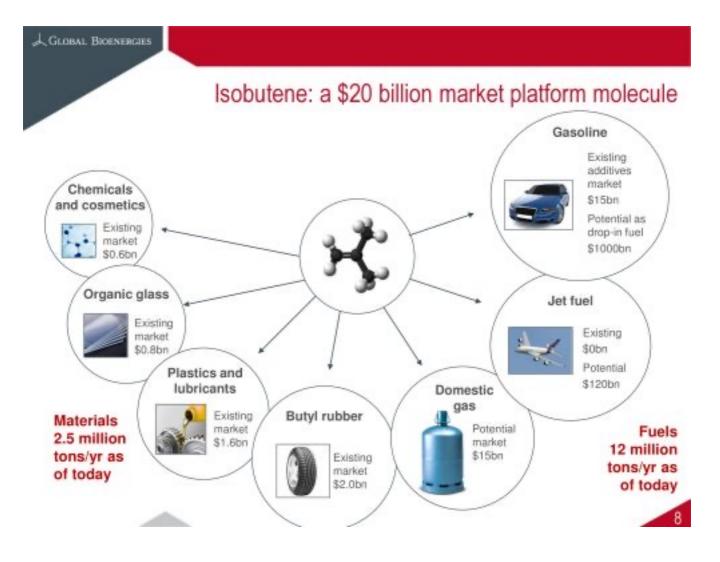


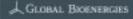
Isobutene

Purification

Combination of proven petrochemical modules

- Simple
- Robust
- Cost efficient

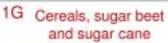




Various resources

CO2, CO and

syngas





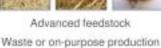
Cost of resource



In some cases, competition







2G Wood chips, straw, bagasse





3G



Emerging feedstocks Currently treated as wastes

with other uses

major agricultural players Diverse prospects

Forest operators

Environmental impact

Present: Steel mills (syngas). Future: all CO₂-emitting industries

Process maturity

Demo plant

Pilot plant

Lab scale

Main partners

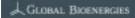
Increasing potential



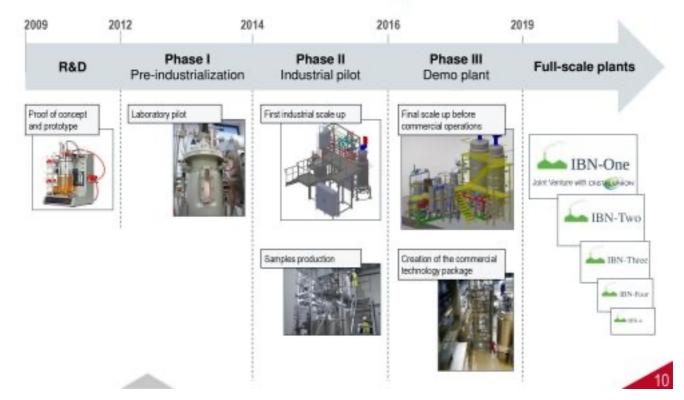
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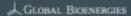






A technology approaching commercial maturity using 1st Generation resources





Demonstration plant - Leuna, Germany

The demo plant a glance

Capacity: 100 tons/yr

CAPEX: €10m



€5.7m public financing









Operated by S Fraunhofer

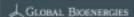
Startup sequence started December 2016

2017 Objectives

- Demonstrate process on 1st generation industrial sugars
- Deliver ton scale batches for market development
- Reach near commercial performances by end of year
- Provide data for engineering of 1st commercial plant
- Start testing 2nd generation sugars







2nd Generation: Forestry and agro-residues

Drivers

- Not in competition with food production, prices not correlated to world sugar market
- Integrated biorefineries value all components of plants aiming for 50% lower sugars costs
- Improved environmental impact

Challenges

- Technologies for producing 2G sugars currently at demo scale remain to be commercially proven
- Challenging fermentation due to heterogeneous feedstock composition

Agricultural residues

- Wheat straw, com stover, sugar cane bagasse...
- Geographies concerned cover all major agricultural producing regions
- Lab and pilot validations already obtained for converting wheat straw into isobutene

Forestry

- Wood from sustainably managed forests and milling residues
- Primary geographies concerned: Scandinavia, Canada, Southern USA
- GBE part of Swedish consortium







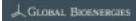
3rd Generation: Gaseous carbon and industrial emissions

Drivers

- CO₂, CO and Syngas are major green house gases.
- Present as wastes at high concentrations in effluents of numerous industries (concrete plants, power stations, steel mills...). Low or negative value feedstocks.
- Their use as a resource for fermentation would enable both value creation and carbon capture.
- New scope of prospects: heavy industries/non agricultural regions
- As a first step, focus on syngas emitted by steel mills
- Challenge: isobutene-producing microbe and process must be developed
- Global Bioenergies positions itself as a technology integrator and developer
 - Collaboration with LanzaTech , the global leader in the field
 - Acquisition of Syngip
 - 8 employees fully dedicated to a 3rd generation Isobutene project
 - A dedicated microbe + genetic tools + know-how in gaseous carbon bioprocessing

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Bio-gasoline potential at a glance



In order to go beyond the 10% ethanol blend wall, Europe and the USA will need to massively adopt drop-in gasoline

Market penetration

From 50-60\$
with tax incentives
From 120-130\$

without tax incentives

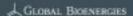
 Unmet mandates around the world are numerous opportunities for deployment

China: 15% by 2020
 Norway: 20% by 2020

- India: 20% by 2017

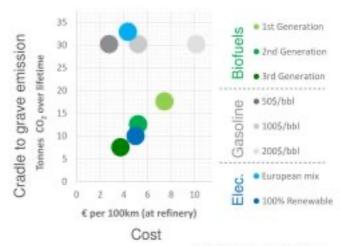
Indonesia: 15% since 2015

Finland: 40% by 2030



Bio-gasoline vs electric mobility

- Biofuels have a higher potential than electric cars for cost and environment profile
- Biofuels are not promoted as much because
 - Food vs Fuel debate
 - Biofuels power traditional cars, while electric cars are specific and hype



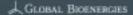
Solutions

- Diversify away from edible crops
- Co-market the technology together with a car manufacturer through a specific brand

200 000 kms over life span

Fuel costs at refinery Biofuels tax incentives further improve competitiveness for consumers

Source: Global Bioenergies



Global Bioenergies' Bio-gasoline project

- Two 100% bio-products for gasoline cars can be derived from 1st, 2nd and ultimately 3rd generation Isobutene
 - Isooctane

Drop-in, oxyfree, low volatility, 100 octane, clean burning: low particles, NOx and SOx Blends up to 40% within regulation and technical potential up to 100% pure.

ETBE

Drop-in, high octane Blends up to 28% within regulation

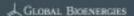
Partnership with



- Global Bioenergies is part of AUDI's e-fuels strategy for renewable, low impact fuels
- e-fuels to be a key tool in decreasing AUDI's fleet environmental impact
- Audi to be the first car manufacturer to offer 100% renewable fuel driving to customers via system of offsets (specific models ex. g-tron)
- Offset model requires 'drop-in', ready-to-blend fuel.
- Partnership to develop isobutene-derived isooctane for e-gasoline segment

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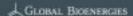


LPG: the new frontier for renewables in domestic and automotive sectors

- Global LPG (domestic and automotive): 150 million tons (1,500 plants of 100,000 tons each)
 - Low fossil production costs make competition difficult for renewables
 - Market penetration would be possible with extension of tax incentives
- Isobutene use for blending in domestic gas bottles validated by French LPG industry
- Global Bioenergies Isobutene is the only technology available for butane/propane
- Partnership with Butagaz
 - Leading French brand distributing gas in bottles and tanks
 - Aim to incorporate batches of bio-isobutene produced at Global Bioenergies' demo plant as early as 2017
 - Option to purchase bio-isobutene from IBN-One, the first commercial plant to be built in France







Jetfuel: large potential subject to higher oil prices or extended renewable mandates

Jetfuel market: 120 million tons

(1,200 plants of 100,000 tons each)

- Bio-jetfuel not existing commercially at present
- High technical and regulatory constraints

Limited competition

- Isobutene → Jetfuel (Global Bioenergies)
- Palm oil hydrogenation (Neste)
- Famesane (Amyris)
- Alcohol to Jet (Gevo)
- Fischer-Tropsch (Fulcrum)

Perspectives

Strong will from the aviation industry expected to turn into mandates and tax incentives in the mid-term





Chemistry and Materials

Applications

Butyl rubber



1.0 Mt

Lubricants and additives

0.8 Mt



Organic glass (Plexiglass®)

0.4 Mt



Specialty chemicals (paints, cosmetics...) 0.3 Mt



Mt: million tons

- Global high purity Isobutene market 2.5 million tons (25 plants of 100,000 tons each)
- ▶ Market accessible without premium from ~\$80 per barrel
- A vast, diversified panel of applications from rubbers to cosmetics.
- Numerous consumer end-uses would enable large commercial premium for renewability, resulting in large operating margins
- Market growth: +4% CAGR expected between 2016 and 2024 for traditional market. Further growth potential as bio-based chemicals.
- A number of samples tests underway by prospects and already several applications validated.

Sources: Argus DeWitt, IHS, SRI, Grand View Research, Global Bioenergies

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Business model at a glance

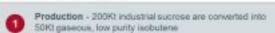
- Model: technology licensing
- Technology: renewable isobutene
- Market sectors: chemicals, materials and biofuels
- Target revenues: \$1million upfront and \$1million annual royalties per 10,000 tons capacity sold (royalties are function of market conditions)
- Sales potential: several hundred plants globally
- Sales needs: handful of plants to become profitable
- Current status: one concrete plant project in France, several further projects at earlier stages



First commercial plant project - France

- 50/50 JV between Global Bioenergies and Cristal Union
- Estimated CAPEX 115 million euros.
- First commercial agreements with
 - ► ASPEN to supply specialty fuels market
 - ▶ Butagaz to supply domestic gas sector
- Collaboration with L'ORÉAL to evaluate opportunities in cosmetic sector
- ► €3.3 million from ADEME and Investissements d'Avenir program to support engineering, environmental studies and commercial development activities
- Target schedule
 - Engineering and construction to be completed in 2019
 - Commissioning and start of commercial operations in 2019 2020.





- Purification isobutene is isolated from surrounding fermentation gases
- Shipping Liquid high purity isobutene (99.7%) is stored and shipped for chemical applications
- Conversion Part of the production is converted on site into bio-fuels





Collaborations with industrialists

Since 2012



Leading German car manufacturer

Collaboration on 'e-gasoline development

Since 2013



France's #1 chemicals company

> Collaboration on methacrylic acid

Since 2016

L'ORÉAL

World's #1 cosmetics company

Collaboration on cosmetic applications of Isobutene

Since 2011



France's #2 sugar and ethanol producer

Shareholder and Partner in IBN-One JV Since 2016

CLARIANT

Developer of Sunliquid® technology

Collaboration on wheat straw derived sugars Since 2016



Swedish #1 forestry company Swedish #1

oil company

Swedish Biorefinery

SEKAB

Collaboration on wood-derived biofuels

Since 2017



Leading French gas provider

Commercial agreement on domestic gas applications Since 2016



Leader in specialty fuels

Commercial agreement on isooctane for small engines

Applications tests underway at numerous industrialists including



World's #1 Butyl rubber manufacturer



European leader in specialty chemicals

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Management team





Board of Directors

Board of Directors



John Pierce – Chairman of the Board

Leading American figure of the industrial biology sector, former Chief Bioscientist of BP



Marc Delcourt – Co-Ionder and CEO

Entrepreneur with a scientific background. Has founded and managed industrial biotechs since 1997



Philippe Marlière – Co-founder and President of the SAB Visionary scientist. Has pioneered the translation of biology into industrial applications

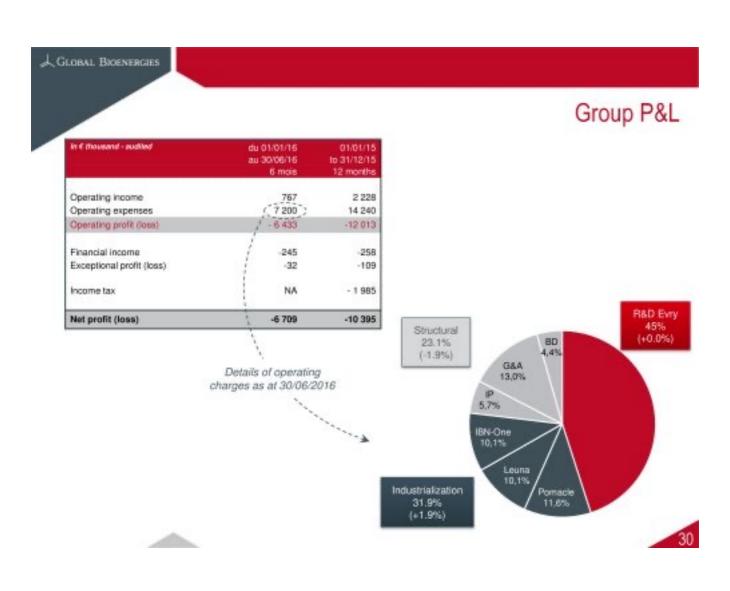


Sébastien Groyer – Partner at Seventure Partners
Has participated in the investment, administration, market
launch or takeover of about 20 innovative companies



Karine Lignel – Director at CM-CIC Investissement A trained engineer active in Venture Capital since 2000 L GLOBAL BIOENERGIES

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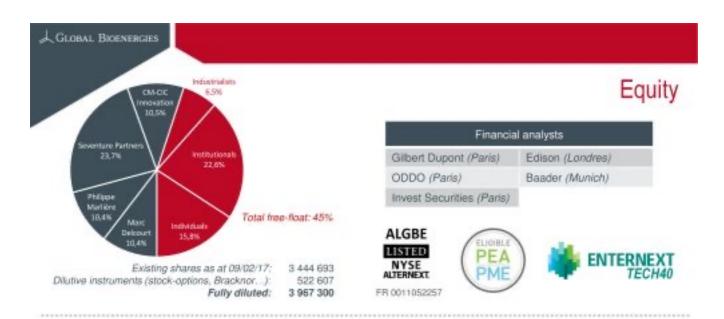


Group Balance Sheet

Assets (€ thousand)	30/06/16	31/12/15
Intangible assets	91	106
Assets	10,202	7,230
Financial assets	144	142
NON-CURRENT ASSETS	10,437	7,478
Inventories, receivables, prepaid expenses	2,376	4,313
Cash	9,107	10,418
CURRENT ASSETS	11,483	14,731
TOTAL ASSETS	21,920	22,209

Liabilities (€ thousands)	30/06/16	31/12/15
Capital	159	142
Share Premium	45,541	37,817
Retained earnings	(30,066)	(19,665)
Profit (loss)	(6,709)	(10,395)
Equipment subsidies	156	0
EQUITY	9,081	7,899
PROVISIONS	40	30
Conditional advances and loans	9,830	10,440
Trade payables and related accounts	2,497	3,181
Other debts	473	660
PAYABLES	12,799	14,281
TOTAL LIABILITIES	21,920	22,209

Cash in hand as of 30/06/16: €9.1m (audited)



Average daily liquidity		
2012	€16 K	
2013	€32 K	
2014	€77 K	
2015	€96 K	
2016	€90 K	
2017 YTD	€157 K	





An intense newsflow expected in the short term

- Leuna Demo plant
 - Start-up of large scale production
 - Production of a first large batch of e-gasoline for Audi, first cars on the roads
 - Off-take from various industrialists
- 2 IBN-One
 - Financing to run the basic engineering phase
 - First off-take agreements
- 3 2nd Generation: progress on collaborations and future perspectives
- 4 3rd Generation: Successes at new subsidiary Syngip
- 5 Further commercial agreements with industrial leaders

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