

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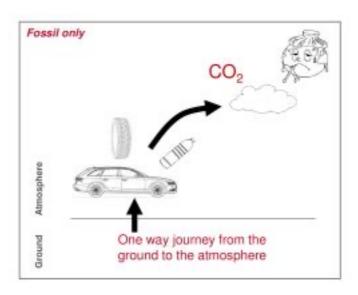
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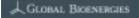
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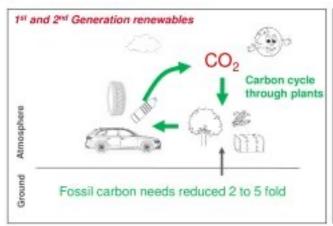
Using fossil resources releases ${\rm CO_2}$ in the atmosphere

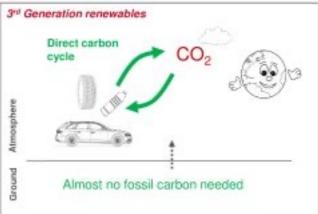


- Our planet is warming because of CO₂, the main green-house-gas
- Need for the deployment of sustainable and environment-friendly solutions



Introducing carbon cycles





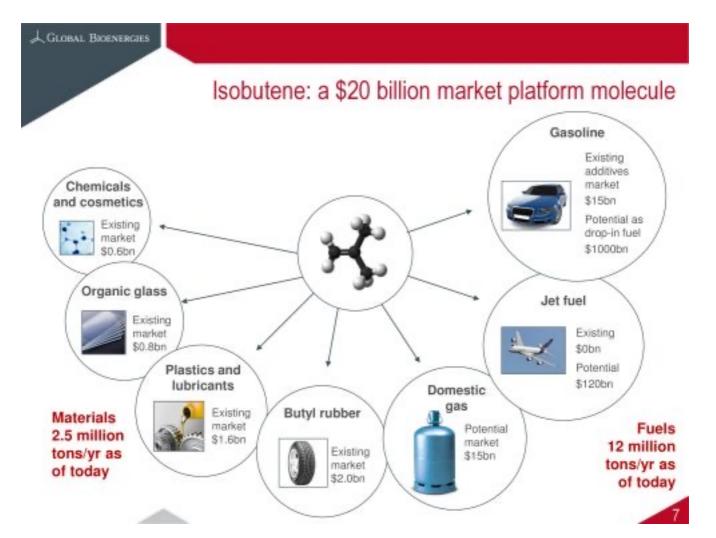
- 1st and 2nd Generation biofuels and biomaterials will help on the short term to reduce human carbon footprint.
- Using carbon emissions from various industries, and eventually atmospheric CO₂, shorter and more efficient carbon cycle will provide long term solutions.

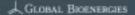
Mission

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

As first product, Global Bioenergies targets isobutene, a key platform molecule today massively derived from oil. L GLOBAL BIOENERGIES

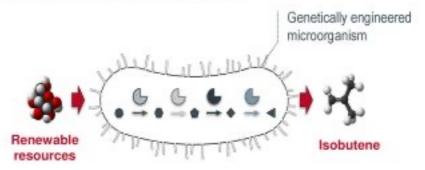
- 1. What we do
- 2. Bio-gasoline
- 3. Other markets for bio-Isobutene
- 4. Road to profitability
- 5. Team
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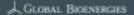
How can it be produced renewably?

- Isobutene is currently exclusively produced from oil.
- Synthetic biology has enabled Global Bioenergies to create "Microbial factories" to produce Isobutene from renewable resources.



This breakthrough innovation:

- has opened up an entirely new domain within the field of industrial biology: the direct production of gaseous hydrocarbons, and
- is protected by 32 patent families.

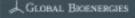


Using a simple and robust industrial process

- The bio-industrial process harvesting the potential of the "microbial factories":
 - has been implemented in fermenters of ever-increasing sizes from laboratory to demonstration plant.
 - Will result in up to 100,000 tonnes per year plants anchored in rural areas thereby participating to the economic revitalization of many regions



Mustrations are not representative of current Global Bioenergies' Installations



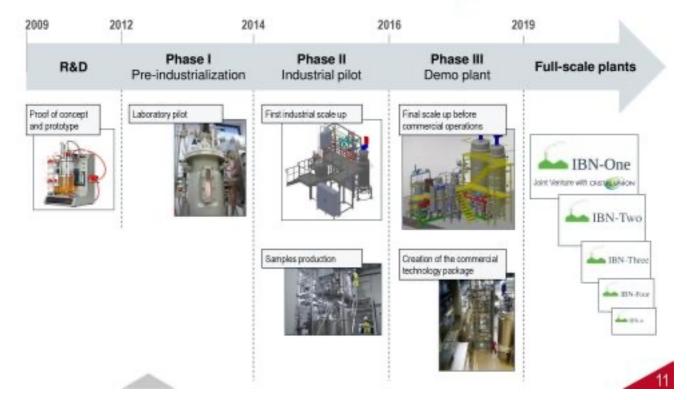
A diverse array of renewable resources

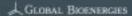


- 1st generation (1G) feedstock are the only truly commercially available resources today.
- Their availability and price are expected to improve with the deregulation of the European sugar market and the contraction of the North American sugar market.



Our technology approaches commercial maturity using 1st generation resources



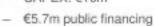


Demonstration plant - Leuna, Germany

The demo plant a glance

Capacity: 100 tons/yr

CAPEX: €10m













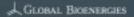
- Operated by 3 Fraunhofer
- Operations started in December 2016

Remaining 2017 Objectives

- 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 waste-derived 2G sugars







2nd Generation: Forestry and agro-residues

Feedstock: two value chains pursued in parallel

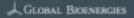
- Agricultural residues
 - Wheat straw, corn stover, sugar cane bagasse...
 - · Geographies concerned cover all major agricultural producing regions
- Forestry
 - · Wood from sustainably managed forests as well as wood milling residues
 - · Primary geographies concerned: Scandinavia, Canada, Southern USA

Drivers

- Resources are not in competition with food production, prices are 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

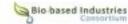


2nd Generation: OPTISOCHEM project

Major EU Financing granted to GBE and partners in 2nd Generation agro-residues

- Objective: demonstrate a new value chain from wheat straw to bio-isobutene oligomers
- Budget: 16.4 million euros over 4 years
- Support: 9.8 million euros subsidies from the BioBased Industries Joint Undertaking as part of European Commission's H2020 program.
 4.4 million euros of which are for Global Bioenergies.





- Targeted markets: Isobutene cligomers (numerous end markets: lubricants, cosmetics, plastics, solvents, rubber...)
- Consortium:
 - Clariant provides SunliquidTM technology to convert straw into fermentable hydrolysates
 - Global Bioenergies will convert wheat straw hydrolysates into bio-isobutene
 - Ineos will validate oligomer applications of bio-isobutene
 - TechnipFMC and IPSB will perform preliminary engineering of integrated wheat straw to bio-isobutene plants.
 - Johannes Kepler University of Linz will assess the sustainability and environmental benefit of the value chain





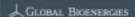










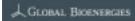


3rd Generation: Gaseous carbon and industrial emissions

- Feedstock: replacing sugars by gaseous carbon (Syngas, CO, CO₂)
- Drivers
 - Syngas, CO and CO, are major green house gases.
 - Present as wastes at high concentrations in effluents of numerous industries (steel mills, concrete plants, power stations...). Low or negative value feedstocks.
 - Their use in fermentation will enable 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
- Positioning: Global Bioenergies aims at establishing itself as technology integrator and developer
 - Collaboration with LanzaTech¹, global leader in 3G ethanol, to combine our technologies and achieve 3G isobutene production.
 - Acquisition of Syngip
 - 8 employees fully dedicated to a 3G Isobutene project
 - A dedicated microbe + genetic tools + know-how in gaseous carbon bioprocessing

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Commercial potential of drop-in bio-gasoline



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

Market penetration

From 50-60\$/bbl with tax incentives



From 120-130\$/bbl without tax incentives

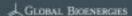
Unmet mandates around the world are numerous opportunities for deployment

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

India: 20% by 2017

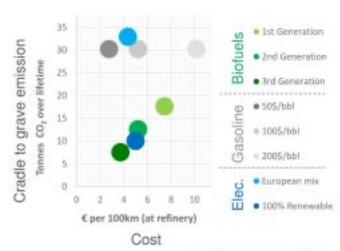
Indonesia: 15% since 2015

Finland: 40% by 2030



Bio-gasoline has higher potential than 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

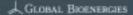
- Diversify away from edible crops
- Co-market the technology together with a car manufacturer through a specific brand

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

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

Renewable ETBE

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

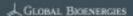
Partnership with



- 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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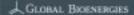


LPG: the new frontier for renewables in domestic and automotive sectors

- Global LPG (domestic and automotive): 150 million tons (equivalent to 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

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

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

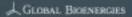
Limited competition

- 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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Commercial strategy

- Model: technology licensing
- 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:
 - IBN-One: a first concrete plant project in France
 - Two additional plant projects in discussion in North America and Scandinavia



First commercial plant project - France

- 50/50 JV between Global Bioenergies and Cristal Union
- Estimated CAPEX 115 million euros
- ► €3.3 million from ADEME and Investissements d'Avenir program to support engineering, environmental studies and commercial development activities
- Production 200Kt industrial sucrose are converted into 50Kt gaseous, lose purity isobutene.
- 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.





- Target schedule
 - Engineering and construction to be completed in 2019
 - Commissioning and start of commercial operations in 2020



Sugar mill





Commercial perspectives

- Commercial development
 - 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
- Financial perspectives
 - Biofuel for gasoline market
 - Volume: up to 100% Isobutene capacity
 - Nature: bio-isocctane or full-bio-ETBE
 - Prospective price calculated as gasoline price + X% TGAP (French tax incentive)
 - Targeted IRR > 15% when oil price is > 80 \$/bbl and about 10% when oil price is under that threshold.
 - High purity isobutene
 - Volume: up to 40% of Isobutene capacity
 - Sold only if purchased at higher price that biofuel



Since 2011



France's #2 sugar and ethanol producer

Shareholder and Partner in IBN-One JV

Since 2012



Leading German car manufacturer

Collaboration on e-gasoline development

Collaborations with industrialists

Since 2013



France's #1 chemicals company

Collaboration on methacrylic acid

Sinne 2019

L'ORÉAL

World's #1 cosmetics company

Collaboration on cosmetic applications of Isobutene

Since 2016

SVEASKOG

Swedish #1 forestry company



Swedish #1 oil company



Swedish Biorefinery

Collaboration on wood-derived biofuels

Since 2017



Developer of Sunliquid® technology INEOS

Leading IBN oligomers and petrochemicals producer

Collaboration on wheat straw to isobutene oligomers

Since 2016



Leader in specialty fuels

Commercial agreement on isooctane for small engines

Since 2017



Leading French gas provider

Commercial agreement on domestic gas applications

Applications tests underway at numerous industrialists including



World's #1 Butyl rubber manufacturer



European leader in specialty chemicals

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Management team

Marc Delcourt Chief Erectifie Officer Macha Anissimova Chief Financial Officer Frédéric Pâques Cruef Scientific Officer Cruef Scientific Officer Bernard Chaud Head of Industrial Strategy Development



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-fonder and CEO

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



Board of Directors

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

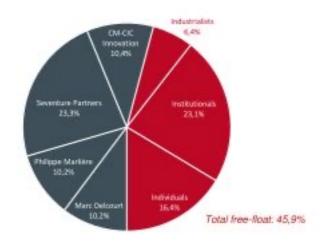


Karine Lignel – Director at CM-CIC Investissement A trained engineer active in Venture Capital since 2000 L GLOBAL BIOENERGIES

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Shareholders and equity financing



Existing shares as at 02/05/17: 3.593.011
Dilutive instruments (stock-options, Bracknor...). 551.625
Fully diluted: 4.144.636

- 53 million euros raised to date
- ≥ 2017: structured €11.2m equity deal with Dubai-based Bracknor
- Market cap ~€70m

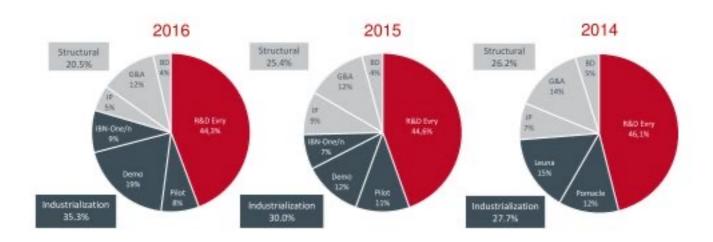


Group P&L

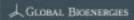
In € thousand - audited	01/01/16	01/01/15	01/01/14	01/01/13
	to 31/12/16	to 31/12/15	to 31/12/14	to 31/12/13
	12 months	12 months	12 months	12 months
Operating income	3,292	2,228	3,171	1,179
Operating expenses	15,216	14,240	12,672	7,885
Operating profit (loss)	-11,924	-12,013	-9,501	-6,706
Financial income	-530	-258	130	105
Exceptional profit (loss)	-50	-109	-83	-23
Income tax	-1,896	-1,985	-1,876	-1,413
Net profit (loss)	-10,607	-10,395	-7,578	-5,211

▶ Net loss stabilized in 2016





Shift of focus of expenses towards industrialization

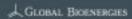


Group Balance Sheet

Assets (€ thousand)	31/12/16	31/12/15	31/12/14	31/12/13
Intangible assets	69	106	137	85
Assets	12,182	7,230	3,721	1,581
Financial assets	146	142	110	91
NON-CURRENT ASSETS	12,397	7,478	3,968	1,757
Inventories, receivables	5,074	4,313	4,922	2,021
Cash and equivalents	8,066	10,418	15,657	23,696
CURRENT ASSETS	13,140	14,731	20,579	25,716
TOTAL ASSETS	25,537	22,209	24,547	27,473

Liabilities (€ thousands)	31/12/16	31/12/15	31/12/14	31/12/13
Capital	168	142	139	138
Share Premium	49,409	37,817	36,009	34,945
Retained earnings	(30,066)	(19,665)	(12,087)	(6,877)
Profit (loss)	(10,607)	(10,395)	(7,578)	(5,211)
Equipment subsidies	391	0	0	0
EQUITY	9,295	7,899	16,483	22,996
PROVISIONS	42	30	29	19
Conditional advances and loans	11,483	10,440	4,162	2,456
Trade payables and related accounts	4,120	3,181	2,395	718
Other debts	597	660	1,479	1,284
PAYABLES	16,200	14,281	8,036	4,458
TOTAL LIABILITIES	25,537	22,209	24,547	27,473

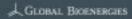
- Cash in hand as at 31/12/16: €7.4m (audited)
- Investment in industrial assets (pilot and demo plants)



Group Cash-Flow

GROUP CASH-FLOW (€ thousands)	2016	2015	2014	2013
Operating cash-flow	(9,279)	(8,840)	(8,009)	(4,333)
Investing cash-flow	(6,120)	(4,488)	(2,798)	(785)
Financing cash-flow	12,676	7,873	2,720	22,523
Net cash-flow	(2,722)	(5,454)	(8,087)	17,404
Cash at start of the year	10,153	15.608	23,695	6,291
Cash at year-end	7,431	10,153	15,608	23,695

Figures above include accrued interest non yet due



Market data

Financial analysts	
Gilbert Dupont (Paris)	Edison (Landon)
ODDO (Paris)	Baader (Munich)
Invest Securities (Paris)	



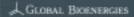
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Average daily	liquidity
2012	€16 K
2013	€32 K
2014	€77 K
2015	€96 K
2016	€90 K
2017 YTD	€127 K

10 €	Audi deal Bio-gasoline delivery to Audi Launch of IBN-One JV
50 € -	Cia I.
40 C -	Myru. M
30 € - IPO	proper to be
may the world	Oil < \$50/bbi IPO price €19.85
lin-11 Dec-11 Jun-1	Oil < \$30/bbi



An intense newsflow expected in the short term

- 1 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

Contact

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