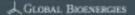


↓ GLOBAL BIOENERGIES
 Disclaimer

This presentation contains certain forward-looking statements that have been based on current expectations about future acts, events and circumstances. These forward-looking statements are, however, subject to risks, uncertainties and assumptions that could cause those acts, events and circumstances to differ materially from the expectations described in such forward-looking statements.

These factors include, among other things, commercial, technical and other risks e.g. associated with estimation of the price of carbohydrate resources, the meeting of development objectives and other investment considerations, as well as other matters not yet known to the Company or not currently considered material by the Company.

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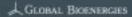
Challenges and solutions

The world faces two major challenges:

- Global warming linked to the massive production of greenhouse gases
- Rising energy demand in the context of uncertainty regarding fossil resources
- The world therefore needs a new, less carbon-intensive, energy mix
- To counter these threats, two solutions are available:
 - Renewable electricity (hydro, wind, solar) for domestic and industrial uses, rail, short range road transport
 - Industrial biology for Biofuels (long range road transport, air transportation) and Biomaterials (plastics, rubbers, chemicals...)

Industrial Biology

- Conversion of renewable resources (sugars, cereals, agricultural and forestry waste, CO₂, ...) into chemicals, with applications in fuels and materials.
- Hundreds of ethanol plants have been built worldwide in the last two decades. OECD countries have reached the blend wall (10% in gasoline)
- The production of other molecules is hampered by overly complex purification schemes
 - → The need of better biofuels and renewable commodity chemicals remains unmet



Global Bioenergies investment highlights



A breakthrough innovation bypassing the limitations of the field

- A unique gaseous fermentation process with a simple and robust purification scheme
- A platform drop-in molecule, isobutene, easily converted into bio-gasoline, bio-kerosene and various biomaterials



GLOBAL BIOENERGIES

A mature technology with a huge industrial potential

 In the short term, the construction of numerous plants could be launched

3

A perfect timing to invest in the company

- An attractive price, the oil glut having pushed down the value of all industrial biology companies
- The oil glut is losing pace, the whole sector should take off.
- ► The company is entering into its commercial phase



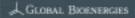
A seasoned management team

- The company founders have long academic and entrepreneurial track record in the field.
- International senior managers have joined the team these recent years

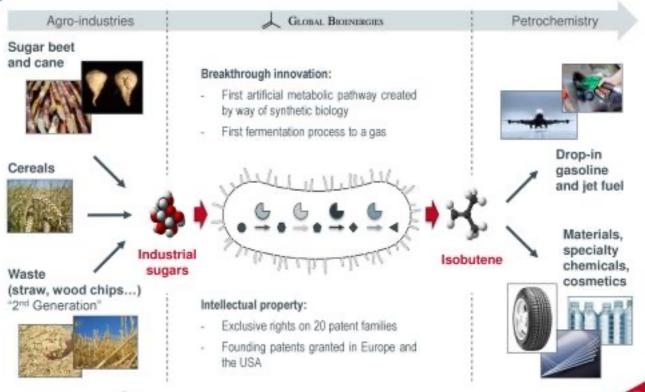
L GLOBAL BIOENERGIES

1. Technology

- 2. Markets and business model
- 3. Team
- 4. R&D pipeline
- 5. Financials
- 6. Perspectives

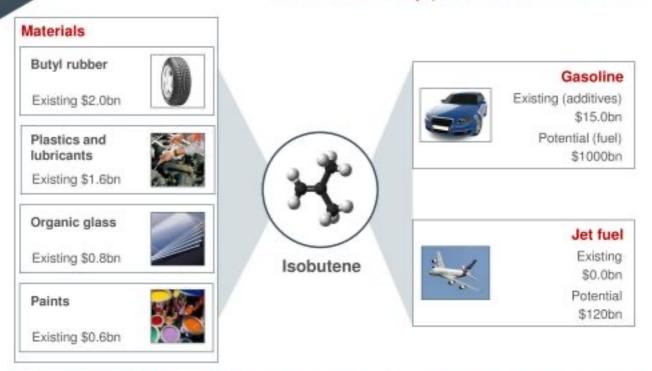


Converting renewable resources into fuels and materials

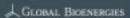




Isobutene: a key petrochemical market



Existing market for fossil isobutene >\$20bn with vast further market potential



A simple and robust two-steps technology



Glucose Sucrose





Breakthrough technology: direct fermentation to a gas

- No toxicity for production strains (product does not accumulate)
- Pre-purification by product volatilization





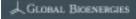


Isobutene

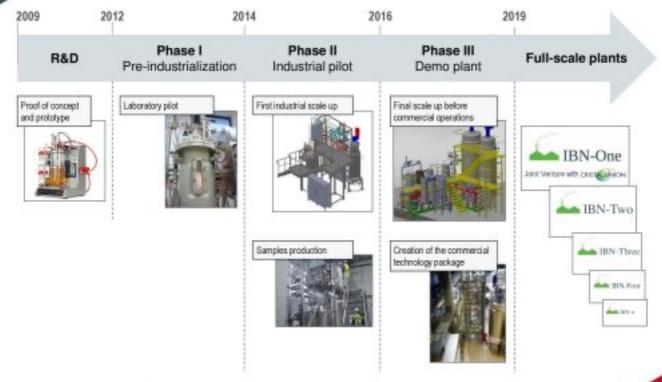
Purification

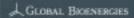
Combination of proven petrochemical modules

- Simple
- Robust
- Cost efficient



A technology approaching commercial maturity





Evry: Headquarters, R&D, lab piloting

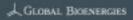




 Unique technology platforms oriented toward gaseous fermentation







Pomacle



- ▶ 10 tons/yr capacity
- ► €10.5m program
- ► €5.2m public financing
- Consortium with ARKEMA and
- ▶ Up and running since Nov. 2014
- ► Operated by access a cristation affiliate
- Purified isobutene shipped to numerous industrialists
- ► Conversion into e-gasoline for QQQD
- Yield > 70% of commercial target

Pomacle: Industrial pilot





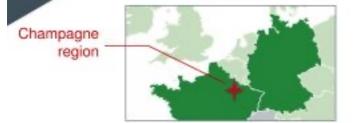
Leuna

- ► Capacity: 100 tons/yr
- ► CAPEX: €10m
- €5.7m public financing
- ► Engineering done by Linde
- ▶ To be operated by Fraunhofer
- Construction completed in November 2016
- Startup expected in December 2016

Leuna: Demo plant





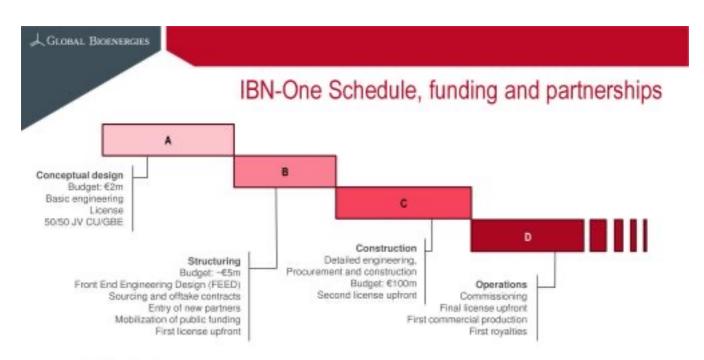




First commercial plant



- 200Kt sucrose are converted into 50Kt gaseous, low purity isobutene
- The purification unit isolates isobutene from surrounding fermentation gases
- 3 Liquid high purity isobutene (99.7%) storage and shipping for chemical applications
- Part of the production is converted on site into high performance drop-in biogasoline



- Public funding:
 - €9m reimbursable advances from the French Governmental Investissements d'Avenir program shared between IBN-One and Global Bioenergies over 2016-2019



- Partnership with Cristal Union and L'Oréal CRISTAL UNION
 - L'ORÉAL

 Decisions regarding the financing of Phase B and C will be made in light of the results obtained on the Leuna Demo plant CLOBAL BIOENERGIES

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Applications

Butyl rubber 1.0 Mt

Lubricants and additives 0.8 Mt



Organic glass (Plexiglass®)

0.4 Mt



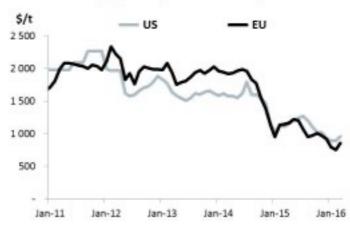
Specialty chemicals (paints, cosmetics...) 0.3 Mt



Mt: million tons

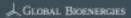
First market: chemistry and materials

High purity Isobutene price



- A vast panel of applications from rubbers to cosmetics
- Market growth: +4% CAGR expected between 2015 and 2020

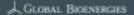
Sources: Argus DeWitt, IHS, SRI, Global Bloenergies



Second market: renewable gasoline

- First wave of biofuels since 2000 in the USA and Europe:
 - Construction of 300 plants producing a total of 50 million tons of ethanol
 - 10% maximum blending in gasoline (« blending wall »)
- Second wave of biofuels expected to increase blending from 10% to 20%
- ► Requirement for a « drop-in » biofuel
- Only two technologies:
 - Isobutene → Isooctane (Global Bioenergies)
 - Isobutanol (Butamax/Gevo)
- The perspective for numerous plants

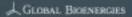




Partnership with



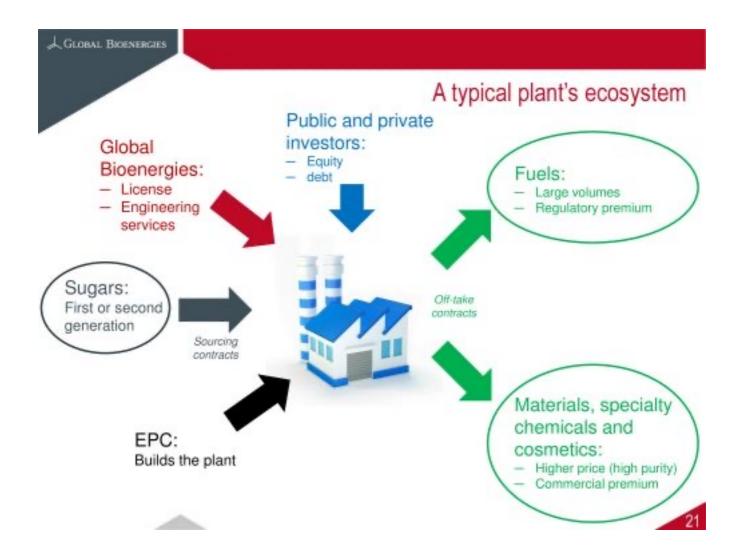
- Audi aims to produce renewable low impact gasoline ('e-gasoline')
- Audi will be the first car manufacturer to offer its clients the possibility to drive 100% on an alternative fuel
- A system of offsets:
 - Audi's client purchases standard oil-derived gasoline at a petrol station
 - The client's car sends a signal to Audi's headquarters
 - Audi produces the equivalent amount of e-gasoline and delivers it to a fuel depot where it can be used by other consumers
 - Audi's client has thereby indirectly consumed e-gasoline
- This requires a 'drop-in', ready-to-blend fuel which explains Audi's choice of Global Bioenergies' isooctane



Third market: bio jetfuel

- Global jetfuel market: 120 million tons
- Bio-jetfuel not existing commercially at present
- High technical and regulatory constraints
- Limited competition:
 - Isobutene → Jetfuel (Global Bioenergies)
 - Palm oil hydrogenation (Neste)
 - Farnesane (Amyris)
 - Alcohol to Jet (Gevo)
 - Fischer-Tropsch (Fulcrum)
- Strong will from the aviation industry → mandates associated to tax incentives expected in the mid-term

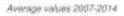


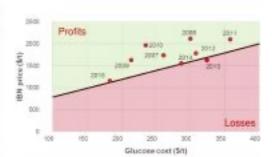




Economic model of a US chemicals plant

Costs	m\$/yr	Sales	m\$/yr
Feedstock 384Kt industrial grade sugar ¹	108	High purity isobutene ² 18	
Capex 206MS linear amortization over 15 years	13.7		182
Opex Wages, consumables, utilities	23.7		
License (5% of sales)	9.1		
Total	154.5	Total	182

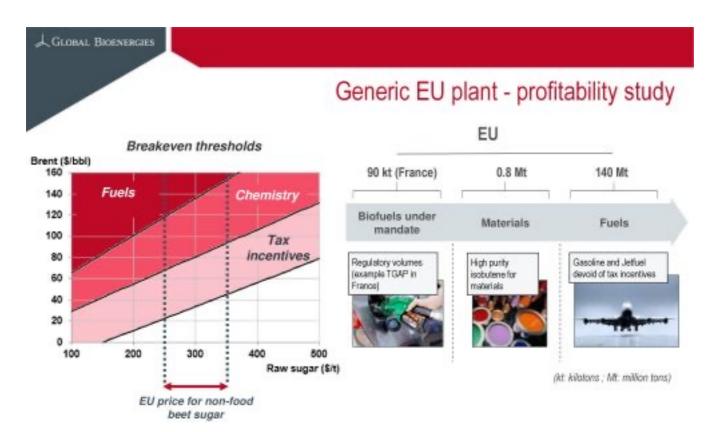




Raw margin (5% license included)	15%
IRR* (Internal Rate of Return)	18%
NPV* (Net Present Value)	170M\$

^{* 10%} discount rate, 2% inflation, 30 Years duration, no terminal value

1: 280 \$1 - US fermentable sugar cost derived from ethanol prices - 2007-2014 average - Bloomberg and GBE calculations 2: 1820 \$1 - Argus DeWitt - 2007-2014 average

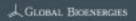


- Drop-in biofuels (EU mandate) + high purity isobutene
- Profitable in the 60-80\$/barrel range, depending on sugar price hypothesis and country specific tax incentives



Business development targets

- European sugar producers
 Additional outlets to compensate the predicted overproduction resulting from of the end of quotas
- US starch producers
 Additional outlets to compensate the contraction in glucose demand resulting from global move to low-carb diet
- Scandinavian and North American pulp and paper producers Additional outlets to compensate the collapse in paper demand
- Chemical manufacturers and brand owners Renewable materials to obtain a « green premium »
- Fuel distributors
 Drop-in solutions to overcome the 10% ethanol blend wall



Collaborations with industrialists

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

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 2016



Leader in specialty fuels

Collaboration on isooctane

Since 2016



Swedish #1 forestry company



Swedish #1 oil company SEKAB

Swedish Biorefinery

Collaboration on wood-derived biofuels

Test samples shipped to numerous industrialists



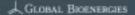
World's #1 Butyl rubber manufacturer



Clariant, European leader in specialty chemicals



France's LPG industry consortium, gathering Butagaz, Primagaz...



The 'commercial phase' is starting now

- Increase in industrial credibility resulting from Leuna and IBN-One
- Numerous incoming calls from prospects in various locations
- 5 concrete business opportunities in North America. 2017 objectives:
 - First term sheet on a plant construction project
 - Intentions from potential off-takers
 - Progresses with government bodies on the financing (loan guarantees...)

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Management team





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

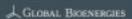


Sébastien Groyer – Partner at Seventure Partners
Has participated in the investment, administration, market
launch or takeover of about 20 innovative companies



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

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R&D first axis: diversification of resources

1st Generation



Cereals (glucose syrup)



Sugar beets (sucrose)



Sugar cane (sucrose)

Process validated on the two main industrial sugars

2nd Generation







Straw, wood and bagasse





Process validated in the lab Glucose (C6) / Xylose (C5)

Swedish consortium

3rd Generation



Industrial wastes



CO2

In-house projects

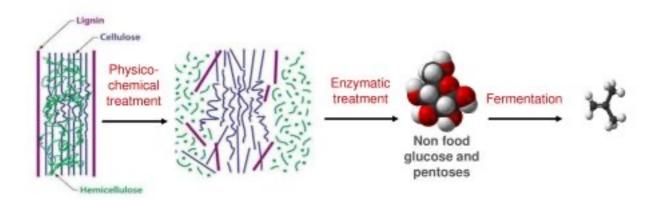
Collaboration with LanzaTech®

Cost of resource:

Economic and environmental potential:



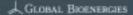
Second Generation (1/3)



- Separate technologies to manage different feedstocks:
 - Agricultural wastes (wheat straw, corn stover...)
 - Forestry wastes (wood chips, branches...)







Second Generation (2/3): agricultural wastes - Germany

- Numerous trials since 2015 using 2G sugar batches:
 - Collaboration with 9 companies specialized in 2G sugars derived from various types of agricultural wastes
 - Lab-scale testings
- First success in scale-up
 - 2G sugars provided by Clariant (formerly Süd Chemie, Germany) a leader in the field
 - Production of « Second generation Isobutene » on Global Bioenergies' pilot plant located in Pomacle (France)

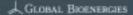




Second Generation (3/3): Forestry valorization in Sweden

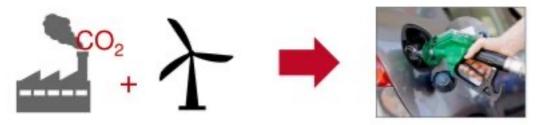
Objective: Study various plant scenarios to convert forestry residues into biofuels

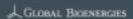




Third Generation: Industrial CO₂ becomes a resource

- Industrial CO₂, present at high concentrations in a gaseous effluents of numerous industries (concrete plants, power stations...) contributes to global warming.
- Using CO₂ as a resource is possible: it must be combined with an energy source (renewable electricity, or hydrogen derived from it).
- Global Bioenergies: 5 years experience in the field (collaboration with LanzaTech).
- Numerous academic proofs of concepts on new approaches. These approaches could be combined with the Isobutene process.
- Global Bioenergies positions itself as a technology integrator and developer.
- Economic equation and environmental balance improved when compared to first and second generation.





R&D second axis: diversification of products

Butadiene

In collaboration with





5.0 Mt

Rubber

(non-tires)

2.0 Mt



Plastics

2.0 Mt



2.0 101

Nylon & others

1.5 Mt





10Mt market +3% CAGR

Propylene

Plastics



58 Mt

Solvents

7 Mt



Foams





Others

19 Mt



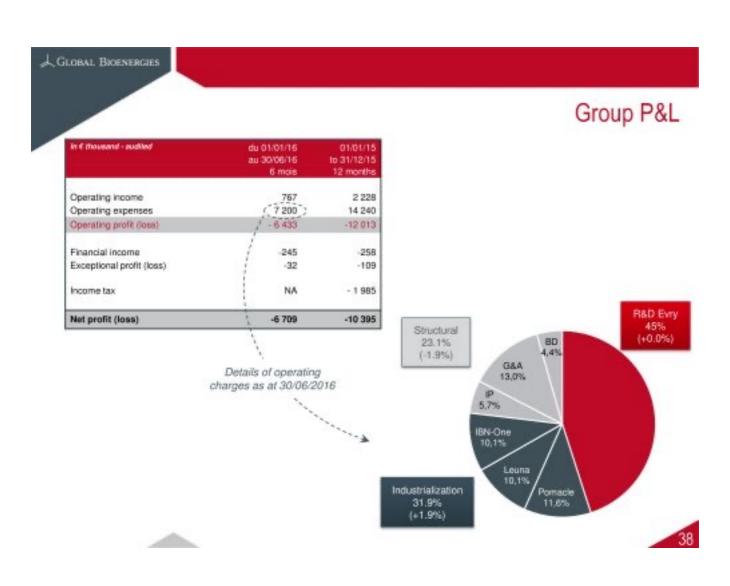


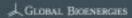
90Mt market +5% CAGR

Sources: Argus DeWitt, Company, IHS, SRI, ICIS

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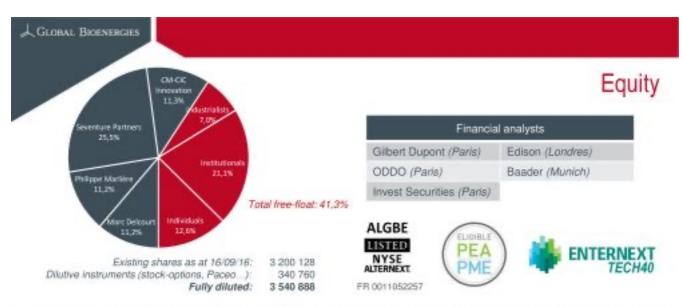
Group Balance Sheet

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)

The company has a mid-term financial visibility through a structured equity agreement with the Dubaï-based Bracknor fund



Average daily liquidity		
2012	€16 K	
2013	€32 K	
2014	€77 K	
2015	€96 K	
2016 YTD	€82 K	

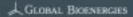


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Summary

- Global Bioenergies intends to become a pillar of the energy and environmental transition
- Renewable hydrocarbons: a mature technology supported by top-level industrialists and facing surprisingly small competition
- Drivers:
 - Environmental: reduction of CO₂ emissions
 - Energetic: preparation of the "after-oil" in a timely rebalancing market
 - Strategic: energy independence
 - Economic: re-industrialization of rural areas
- ▶ The 2013-16 phase mostly focused at scaling-up the process
- Next 2017-19 phase mostly dedicated to commercialization of the process



An intense newsflow expected in the coming year

- Leuna
 - Start-up of 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
 - Decision on financing to run the basic engineering phase
 - First off-take agreements
- 3 Emergence of a commercial project in North America
- Mumerous agreements with industrial leaders

Contact

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