

Becoming a pillar of the energy and environmental transition

June 2016





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Industrial biology: a solution to the greatest challenges of our time

- Challenges:
 - Climate change: a major threat.
 - Rising energy demand: possible oil shortages as soon as 2017 (appendix 1).
- The world needs a new, less carbon-intensive, energy mix.
- Solutions:
 - Renewable electricity (hydro, wind, solar) for domestic and industrial uses, rail, short range road transport.
 - Industrial biology: Biofuels (long range road transport, air transportation) and Biomaterials (plastics, rubbers, chemicals...)



- Industrial biology aims at converting renewable resources into chemicals, with applications in fuels and materials.
- Hundreds of ethanol plants built worldwide in the last two decades.
- Innovative processes to other molecules challenged by overly complex purification schemes.
- Need of better biofuels and renewable commodity chemicals remains unmet.
- Global Bioenergies' standout offer:
 - A unique gaseous fermentation process with very simple purification scheme.
 - A platform drop-in molecule, easily converted into biogasoline, biokerosene and various biomaterials.
 - A mature technology, with the potential for numerous plants in the short term.

Global Bioenergies investment highlight

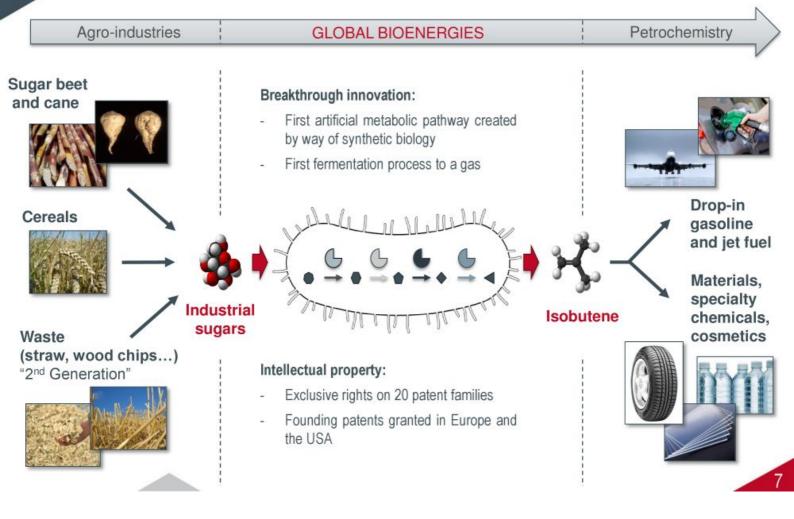
- Why invest in GBE ?
 - A mature technology with a huge industrial potential.
 - A breakthrough innovation bypassing the limitations of the field.
- Why now ?
 - Attractive price: the oil glut has pushed down the value of all industrial biology companies.
 - Now that the oil glut is over, the market environment should bring an upward trend and the whole sector should take take off.
 - Global Bioenergies is now entering into its commercial phase, with many industrial deals expected on the short term.

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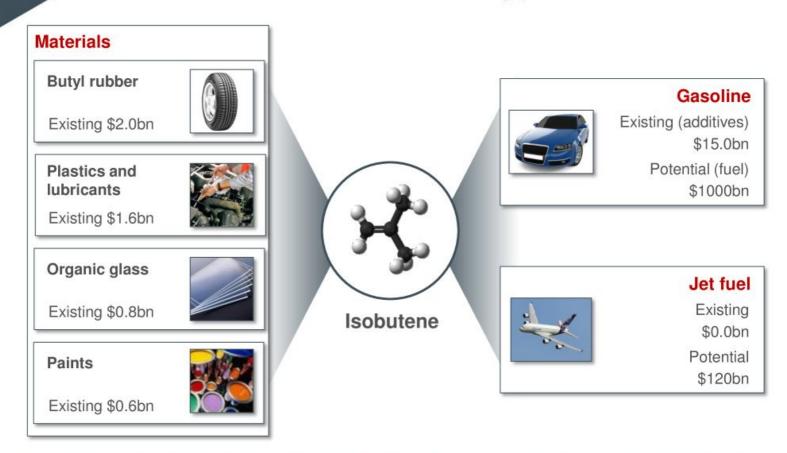
1. Technology

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

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

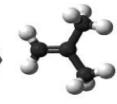


Breakthrough technology: direct fermentation to a gas

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

II - Purification





Isobutene

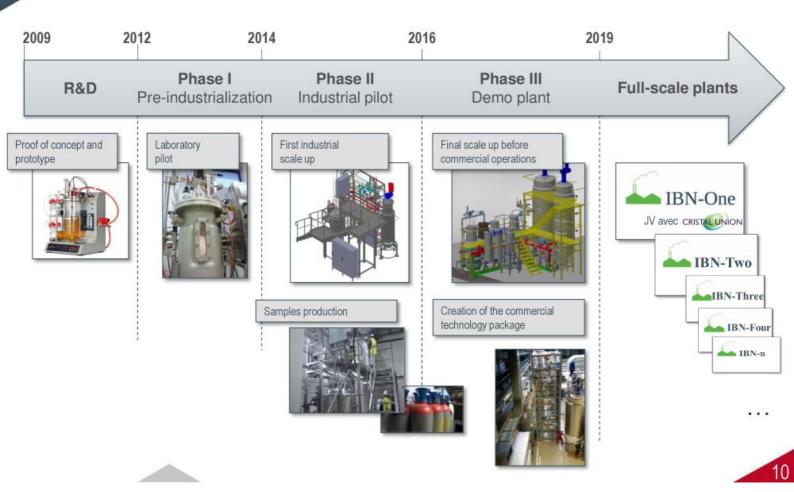
Combination of proven petrochemical modules

- Simple
- Robust
- Cost efficient

Illustrations are not representative of current Global Bioenergies' installations



A technology approaching commercial maturity



Evry: Headquarters, R&D, lab piloting

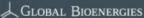
Evry — 55 employees





Unique technology platforms oriented toward gaseous fermentation





Pomacle: Industrial pilot

Pomacle -

10 tons/yr capacity

€10.5m program

€5.2m public financing







Up and running since Nov. 2014

Operated by ard a cristalunion affiliate

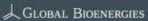
Purified isobutene shipped to numerous industrialists

Conversion into e-gasoline for Audi



Yield > 70% of commercial target





Leuna: Demo plant

Capacity: 100 tons/yr

CAPEX: €10m

€5.7m public financing

€4.4m bank loan

Engineering done by Linde

Construction completion expected Q3 2016

To be operated Fraunhofer

First ton expected Q4 2016

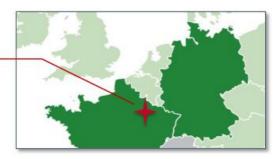


Leuna

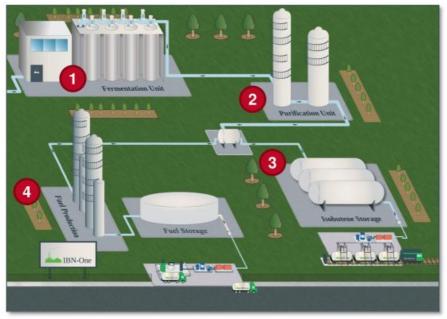


First commercial plant





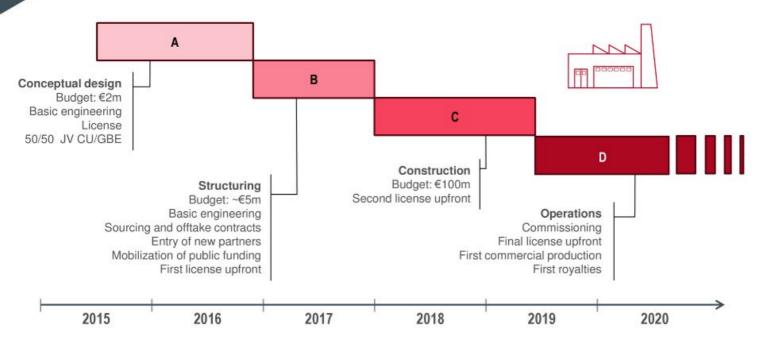




- 200Kt sucrose are converted into 50Kt gaseous, low purity isobutene.
- The purification unit isolates isobutene from surrounding fermentation gases.
- Liquid high purity isobutene (99.7%) storage and shipping for chemical applications.
- Part of the production is converted on site into high performance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



IBN-One Schedule, funding and partnerships



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.







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First market: chemistry and materials

Applications

Butyl rubber

1.0 Mt



Lubricants and additives

0.8 Mt



Organic glass (Plexiglass®)

, ionigiaco

0.4 Mt



Specialty

(peintures, cosmetics...)

0.3 Mt

chemicals



High purity Isobutene price



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

Second market: renewable gasoline

- First wave of biofuels since 2000 in the USA and Europe:
 - 300 plants produce 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, i.e. having no blending limitation
- · Only two technologies:
 - Isobutene → Isooctane (Global Bioenergies)
 - Isobutanol (Butamax/Gevo)
- The perspective for numerous plants



Partnership with



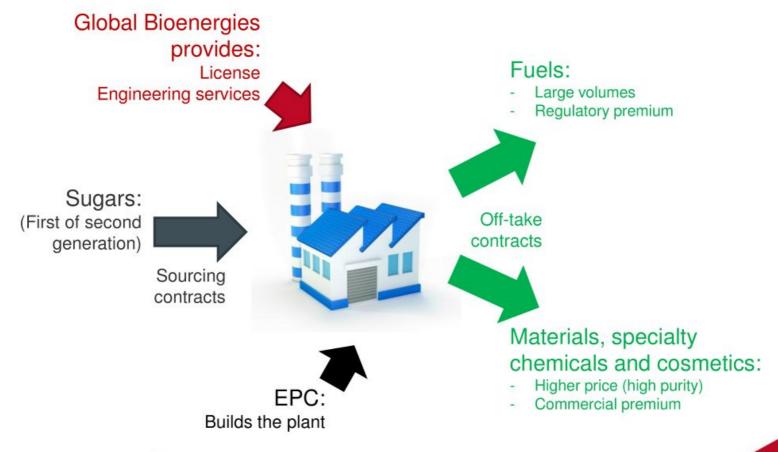
- Audi aims to produce renewable low impact gasoline ('e-gasoline').
- Audi will be the first car manufacturer to offer its clients the possibility to drive 100% on an alternative fuel.
- A system of offsets:
 - Audi's client purchases standard oil-derived gasoline at a petrol station.
 - The client's 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.

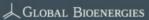
Third market: bio jetfuel

- · 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



A typical plant's ecosystem

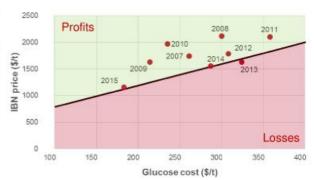




Economic model of a US chemicals plant

Costs	m\$/yr	Sales	m\$/yr
Feedstock 384Kt industrial grade sugar ¹	108	High purity isobutene 2 18	
Capex 206M\$ 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

Average values 2007-14

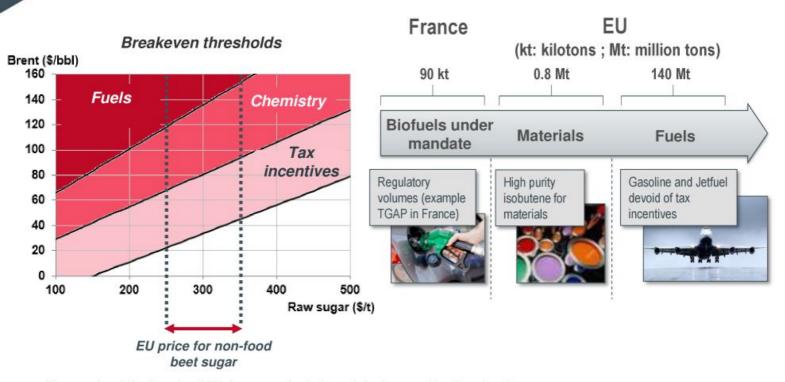


Raw margin (5% license included)	15%
IRR* (Internal Rate of Return)	18%
NPV* (Net Present Value)	170M\$

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

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

Generic EU plant - profitability study



- 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

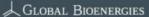
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Business development targets

- 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 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.

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. Short term objectives:
 - First term sheet on a plant construction project.
 - Intentions from potential off-takers.
 - Progresses with government bodies on the financing (loan guarantees...).



Industrial partnerships



France's #2 sugar and ethanol producer

Shareholder and Partner in IBN-One JV

Since 2011

synthos chemical innovations

Leading European rubber manufacturer

Shareholder and Partner on Butadiene

Since 2012



Leading German car manufacturer

Collaboration on 'e-gasoline' development

Since 2013



France's #1 chemicals company

Collaboration on methacrylic acid

Since 2016

ĽORÉAL

World's #1 cosmetics company

Collaboration on cosmetic applications of Isobutene

Test samples shipped to many industrialists, including



World's #1 Butyl rubber manufacturer



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



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Management team



Marc Delcourt Chief Executive Officer



François-Henri Reynaud



Chief Financial Officer



Frédéric Pâques Chief Operations Officer



Macha Anissimova Chief Scientific Officer

Thomas Buhl Head of Business Development



Bernard Chaud Head of Industrial Strategy



Jean-Baptiste Barbaroux Head of Corporate Development



Dr. Richard E. Bockrath VP Chemical engineering

Vice presidents



VP Metabolic engineering Former Technical Director at DuPont



25 years at DuPont. Received ACS award in 2007



Claudia Erning VP Investor Relations Former Head of ECM-Origination at Berenberg Bank

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.



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



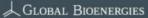
Sébastien Groyer – Partner at Seventure Partners

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.

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R&D first axis: diversification of resources





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)

9 active collaborations

3rd Generation



Industrial wastes



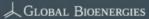
CO₂

Internal projects

Collaboration with LanzaTech •

Cost of resource

Economic and environmental potential



R&D second axis: diversification of products

Butadiene

In collaboration with







Rubber

(non-tires)

2.0 Mt



Plastics

2.0 Mt



Nylon & others



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10Mt market +3% CAGR

chemical innovations

Propylene



58 Mt



Foams

6 Mt



Solvents

7 Mt



Others

19 Mt



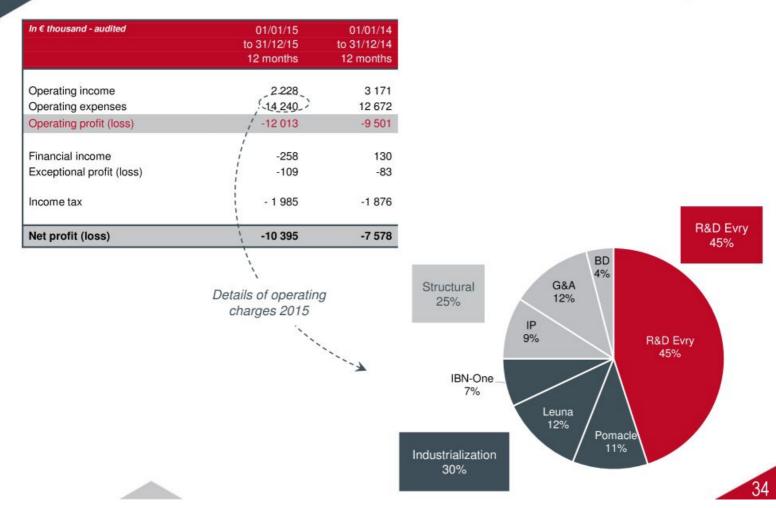
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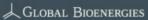
90Mt market +5% CAGR

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

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Group P&L





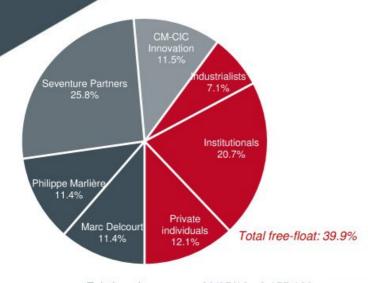
Group Balance Sheet

Assets (€ thousand)	31/12/15	31/12/14
Intangible assets	106	137
Assets	7 230	3 721
Financial assets	142	110
NON-CURRENT ASSETS	7 478	3 968
Inventories, receivables, prepaid expenses	4 313	4 922
Cash	10 418	15 658
CURRENT ASSETS	14 731	20 579
TOTAL ASSETS	22 209	24 547

Liabilities (€ thousands)	30/12/15	31/12/14
Capital	37 959	36 148
Retained earnings	-19 665	-12 087
Profit (loss)	-10 395	-7 578
EQUITY	7 899	16 483
PROVISIONS	30	28
Conditional advances and loans	10 440	4 162
Trade payables and related accounts	3 181	2 395
Other debts	660	1 479
PAYABLES	14 281	8 036
TOTAL LIABILITIES	22 209	24 547

Cash in hand as of 01/01/16: €10.4m (audited)

[Strengthened in January 2016 by a €6.5m private placement]



Equity

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

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Existing shares as at 30/05/16: 3 155 128 Dilutive instruments (stock-options, equity line...): 385 710

Fully diluted: 3 540 838

Average daily liquidity		
2012	€16 k	
2013	€32 k	
2014	€77 k	
2015	€96 k	



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Summary

- Global Bioenergies intends to become a pillar of the energy and environmental transition
- Renewable hydrocarbons: mature technology supported by top-level industrialists 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 short term

1. 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

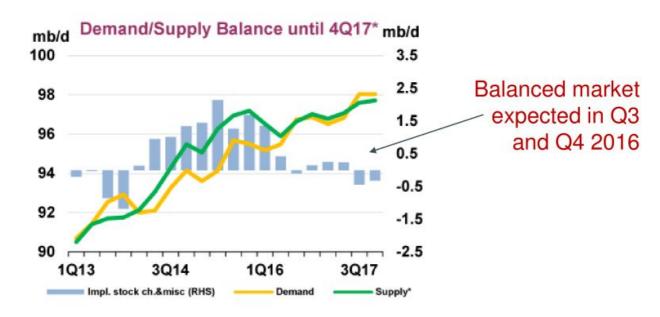
2. IBN-One

- €5m financing, including new investor, to run the basic engineering phase
- First off-take agreements
- 3. Concrete emergence of a commercial project in North America
- 4. Numerous agreements with industrial leaders

Appendix



Oil market (1/2): IEA says oil glut will end soon

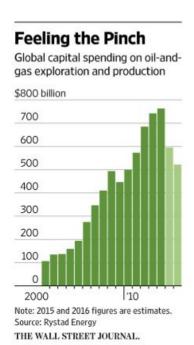


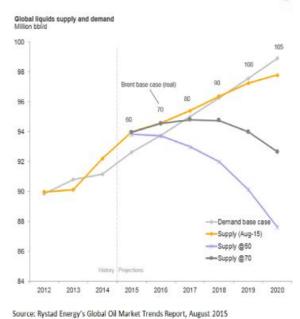
 The International Energy Agency (IEA) monthly report published on the 12th of May confirms that the oil market is rebalancing quickly

confidential



Oil market (2/2): Rystad Energy predicts a massive shortage in 2017-18





The huge reduction in exploration-production investments prepares for a progressive shortage from 2017 and would lead to a strong rebound in oil price.

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