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The founders

Dr. Marc Delcourt

Co-founder
Chairman & CEO



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

Dr. Philippe Marlière

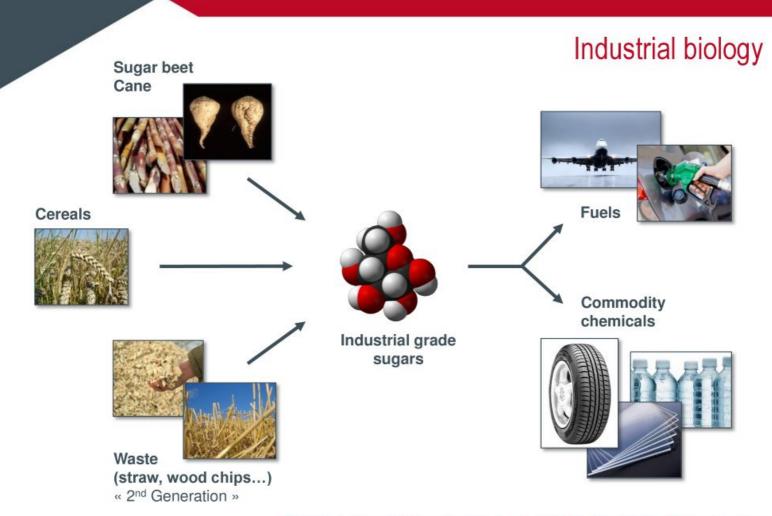
Co-founder

Co-founder
President of the Scientific Advisory Board



Visionary scientist

Has pioneered the translation of synthetic biology into industrial applications



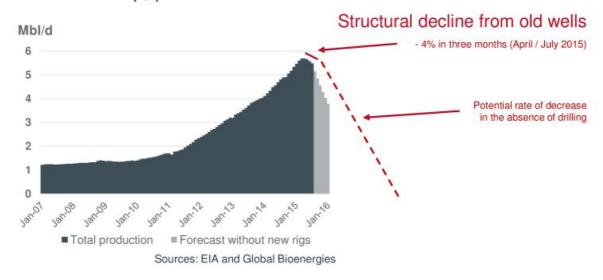
→ an alternative to oil-based fuels and chemicals

State of the industry

- Current technologies: Ethanol and food/feed additives
 - Mature and widely spread
 - Low margin, low value
- · Modern industrial biology targets higher value products
 - Still in its pioneering days: Limited number of players
 - Only a few successful commercial plants

Industrial biology in the global context

- 2mb/d oversupply in December 2014 due to tight oil in the USA
- · Oil stocks went up, prices went down



- The 5mb/d tight oil production has peaked in April 2015, and is going down quickly. In the meantime, the demand is up.
 - → The market should swing back to higher price in coming months and years

Mission Statement

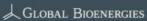
To take part in the energy transition by bringing renewable hydrocarbons to the market

L GLOBAL BIOENERGIES

- 1. Bio-isobutene: from brain to market
- 2. Global strategy
- 3. Equity story

Bio-Isobutene at a glance

- Breakthrough innovation
- · Very strong IP position; excellent competitive environment
- · Largely de-risked program:
 - Pilot plant in operation
 - Demo plant under construction
- · Progressive market access:
 - First plants for "drop-in biofuels" accessible at an oil price > \$50/bl
 - \$5b commodity chemicals market accessible at an oil price > \$85/bl
 - Huge gasoline and jet fuel markets accessible at an oil price > \$150/bl



Isobutene: a wide product tree

Butyl rubber

1.0Mt \$2.0bn



Plastics and lubricants

0.8Mt \$1.6bn



Organic glass

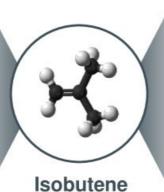
0.4Mt \$0.8bn



Paints

0.3Mt \$0.6bn





Gasoline

Existing (additive) 12.5Mt \$15.0bn

Potential (fuel)

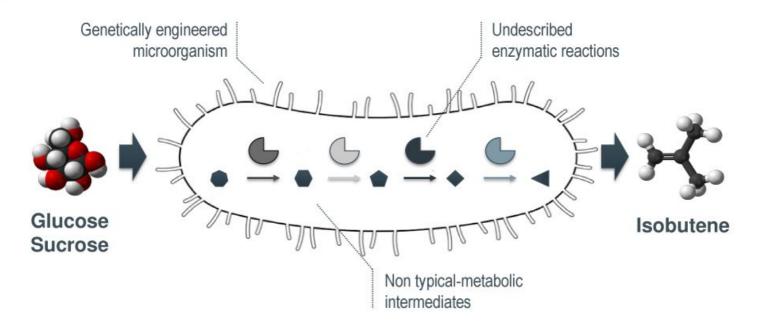
1000Mt \$1000bn





0.0Mt \$0.0bn
Potential
120Mt \$120bn

Microbial factory



- · Breakthrough innovation: artificial metabolic pathways
- Exclusive rights on 26 families of patent applications on isobutene and other hydrocarbons (first patents granted in 2014)
- First ever fermentation process to a gas

A simple and robust two-steps technology





Glucose Sucrose

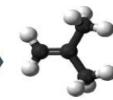


Breakthrough technology by direct fermentation to a gas

- No product-associated toxicity
- Pre-purification by product volatilization

II - Purification





Isobutene

Combination of proven petrochemical modules

- High performance
- Simple design

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 ARKEMA and converted into e-gazoline for ODD





Pilot and Demo plants

Leuna

100 tons/yr capacity

~ €20m program

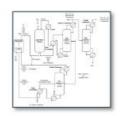
Bardoninianim €5.7m public financing

€4.4m bank loan

Engineering done by Linde

First run expected Q2 2016

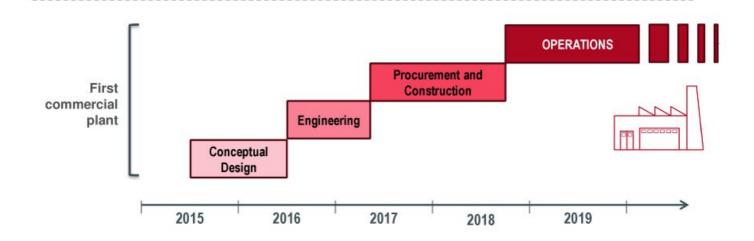
To be operated with Fraunhofer





Road to market







Schedule

- 2015: Seed (€1m budget)
 - Cristal Union and Global Bioenergies each own 50% of the JV
 - Non-exclusive license for a first plant in France to convert 200Kt sucrose into 50Kt isobutene
- 2016: Structuration (€15m budget)
 - New shareholders: regional, national, European funds. Downstream Industrialists.
 - Conceptual design / basic and detailed engineering
 - Signing of commercial agreements (supply and offtake)
- 2017: Construction (€100m budget)
 - To be raised in part as equity from JV partners, in part as debt
 - GBE's stake massively diluted (revenues will come from the license)
- · 2018: Start of production



IBN-One markets

 High-purity IBN to manufacture green plastics, rubbers, paints...



 Drop-in gasoline to overcome the ethanol the blend wall; jet fuel

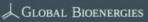


Drop-in bio-gasoline in France

- Gasoline must incorporate 7% energy content from biofuels
- Ethanol is in practice limited to only 6% blending
- A €1,700 fine (TGAP) paid per ton of missing biofuel. 70,000 tons each year. Total TGAP paid each year: €100m.
- Isobutene-derived isooctane is a drop-in biofuel and offers a unique solution to gasoline retailers

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Process portfolio: overview

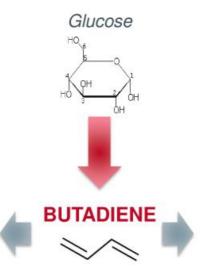
	Discovery	Development	Industrialization
Isobutene			
Butadiene			
Propylene			

3 million tons

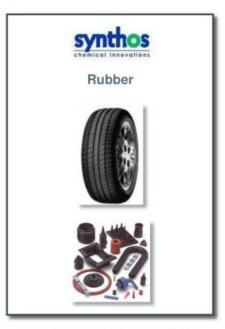


Opportunity for further industrial agreements

Butadiene, a partnership with Synthos



7 million tons



Royalties to be paid to Global Bioenergies

Standard 100Kt Isobutene plant

CAPEX: \$206m

(13.7 m\$/yr)

Feedstock Fermentable sugars 384Kt

(134.4 m\$/yr)



OPEX: 23.7 m\$/yr

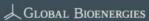
Product
High purity isobutene
100Kt

(200 m\$/yr)

Raw margin	14%
IRR* (Internal Rate of Return)	20%
NPV* (Net Present Value)	\$202m

Source: Company

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



Business model and market size

· Upfront, milestones and royalties payments

→ NPV for GBE of €40m per 100Kt plant

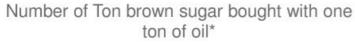
Isobutene:

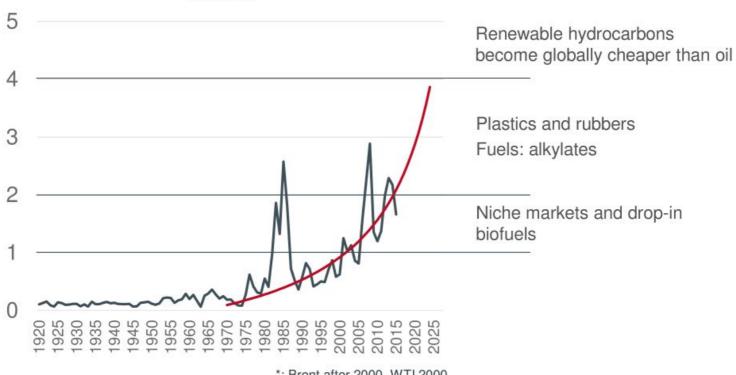
_	Regulatory-driven drop-in biofuels market	~10 plants
_	2.5Mt commodity chemicals market	25 plants
_	1200Mt global gasoline and jet fuel market	12 000 plants

Butadiene: 10Mt commodity chemicals
 100 plants

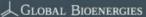
Propylene: 90Mt commodity chemicals
 900 plants

A market opening in several steps





*: Brent after 2000, WTI 2000 Source: IBN-One



Potential licensees

Sugar, starch and 2nd generation industrialists

ADM, Borregaard, Cargill, Cristal Union, Raizen, Roquette, SüdZucker, Tate&Lyle, Tereos, UPM, ...

Fuel companies

Oil companies

Total, Exxon, Chevron, BP, Shell, ...

Fuel distributors

Independent distributors, retail store chains

Petrochemical industrialists

Dow, BASF, Evonik, Mitsubishi, Arkema,...

Producers of down-stream products

Packaging producers, tire producers, car manufacturers, cosmeticians, ...

→ Major industrial sectors



Downwards integration (1/2): Engineering services

- · Initial plan is based on a purely "license-based" business model
- Engineering services to be added progressively
 - Conceptual design package: ~ \$5m for one plant
 - Detailed engineering package, based on a network of subcontractors:
 ~\$25m for each plant
- Profitability based on know-how specific to direct fermentation to a gas
- To be taken in charge by GBE GmbH, progressively becoming the Engineering affiliate



Downwards integration (2/2): Build and operate

- Global Bioenergies could decide to raise money and invest in building and operating a plant
- Timing: once enough cash in hand to leverage a \$200m investment – probably not before 2020
- Aim: keep all the value associated to the plants within Global Bioenergies

→ In parallel to its licensing activity, Global Bioenergies could own and operate multiple plants

The people making it happen



Marc Delcourt Chief Executive Officer



Chief Financial Officer



François-Henri Sahakian Dr. Frédéric Pâques Chief Operations Officer



Dr. Macha Anissimova Chief Scientific Officer



Thomas Buhl Head of Business Development



Jean-Baptiste Barbaroux Head of Corporate Development



Dr. Richard E. Bockrath VP Chemical engineering Former Technical Director at

DuPont



Dr. Charles E. Nakamura VP Metabolic engineering 25 years at DuPont. Received ACS award in 2007



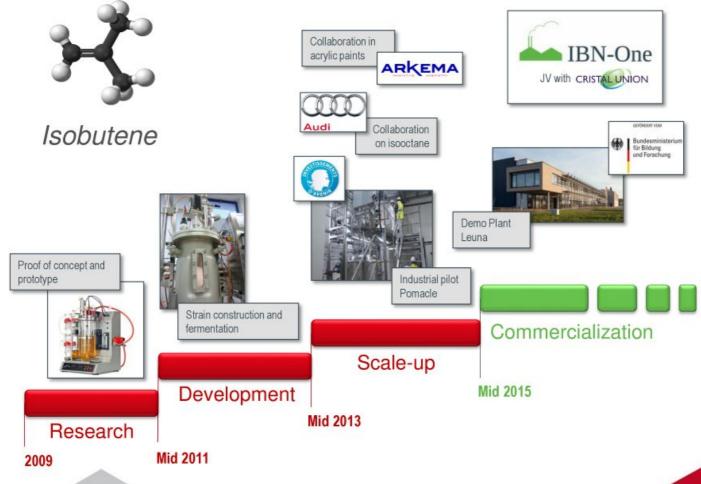
Claudia Erning VP Investor Relations

Former Head of ECM-Origination at Berenberg Bank

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A company that has always delivered...





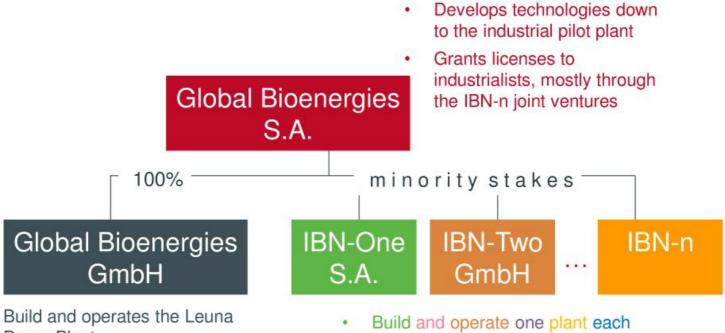
...and kept the burn rate under control

Consolidated figures for the Global Bioenergies group (Global Bioenergies SA + 100%-owned Global Bioenergies GmbH)

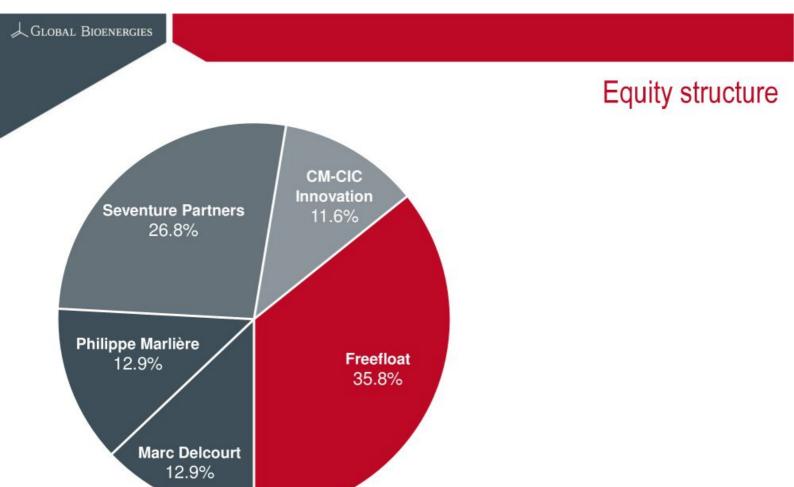
In €'000 – audited	31 Dec 2014	30 Dec 2013
Operating Income	3,166	1,179
Operating Expenses	12,666	7,885
Operating Result	-9,500	-6,706
Tax Credit on R&D	1,876	1,413
Net Result	-7,578	-5,211

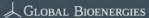
Cash in hands as of December 31st, 2014: 15.6 million euros

Global Bioenergies: an industrial group under construction



- Demo Plant
- Provides engineering services, in particular to the IBN-n companies





Core shareholders sitting at the Board

Seventure Partners

64.2%

Philippe Marlière

Marc Delcourt

CM-CIC Innovation

From left to right:



Sébastien Groyer - Partner at Seventure Partners

Has participated in the investment, administration, market launch or takeover of about 20 innovative companies

Marc Delcourt - Cofounder, CEO and Chairman

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

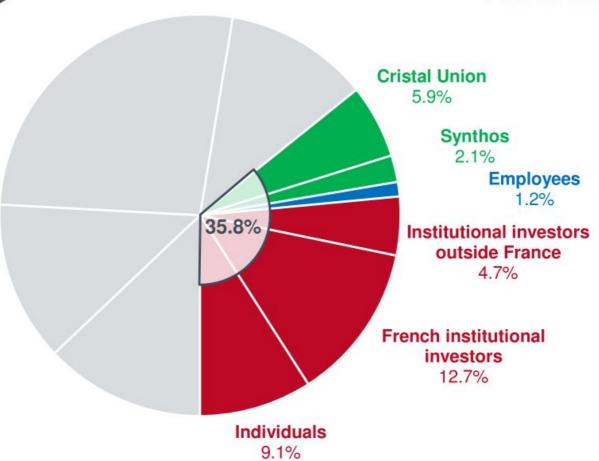
Philippe Marlière - Cofounder and President of the SAB

Visionary scientist. Has pioneered the translation of biology into industrial applications

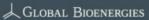
Karine Lignel - Director at CM-CIC Investissement Seasoned engineer, active in Venture Capital since 2000



A diversified freefloat



As of April 2015



A positive and coherent equity history

(2,775,468 shares as at June 24th, 2015)

	Average daily liquidity	Share price at 31st of Dec.	
IPO		(June 15 th) 19.85 €	
2011		16.10 €	
2012	15.5 K€	27.61 €	
2013	31.7 K€	28.20 €	
2014	76.6 K€	27.39 €	
2015	128.9 K€	(June 24th) 46.06 €	



Financial analysts:

- Gilbert Dupont (Paris)
- · ODDO (Paris)
- · Invest Securities (Paris)
- Edison (London)
- · Baader (Munich)







Global Bioenergies: an oil-driven stock?

- The price of the ALGBE share seems linked to the price of oil
- Investing in Global Bioenergies involves a bet on an oil price:
 - By 2020, the tight oil industry might have completely shut down
 - The conventional production could be shrinking, as a consequence of low investments in 2015-20

Patrick Pouyanné, CEO of French oil major Total:

"...by 2030 more than half of the existing global oil production will disappear. There is an enormous amount of money that needs to be invested to get another 50 million barrels per day of new production."

- The demand will continue to grow

Davos, 21st January 2015

Claudio Descalzi, CEO of the Italian oil major ENI:

"If you are cutting capital expenditure drastically now, we can have a lack of production in four or five years creating a new increased oil price at \$200 maybe."

→ the oil price could bounce back, taking ALGBE along

Summary

- · Isobutene: a key milestone has been reached in scale up
- IBN-One: A first plant business case becoming concrete
- R&D pipeline to replicate this first success to butadiene and propylene
- A well organized team gathering senior profiles from France, Germany and the USA
- Profitability to be reached in 2019
- Intense news flow expected on the short and mid-terms

Contact

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