

↓ GLOBAL BIOENERGIES
 Disclaimer

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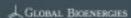


Renewable oil: an old dream





Asterix and the Black Gold - 1981



We are part of the change

See slide 11

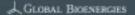
Using breakthrough innovations,

we convert renewable resources

into drop-in fuels and materials.

See slide 12

See slide 13



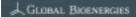
We jump the wall

 Bio-ethanol, the first global industrial biotech success for alternative fuels has reached its own limit:



- At Global Bioenergies, we produce the same fuels and chemicals that are derived from the refining of oil.
- Because our products are chemically identical to those derived from oil:
 - they can be mixed to fossil products without any limit
 - there is no need to invest in specific infrastructure to use them
- · It is called a « drop-in » technology





Industrial biotechnolgy - the road to maturity

~100 industrial biology companies worldwide are moving the field across the Gartner Cycle

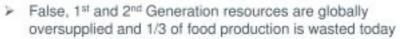






False ideas





« They will never compete with oil derivatives! »

- False, biofuels compete today in premium markets
- Oil prices recover and competitiveness increases

« Electric vehicles are THE solution! »

- False, but will still take a significant stake in the future energy mix
- EV deployment will be slow because it faces several barriers: autonomy, grid upgrading, real GHG savings...







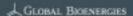


Issues we address

Oil dependency

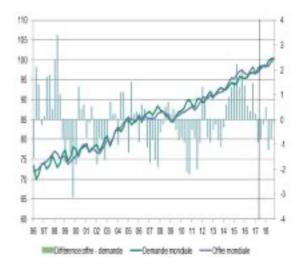


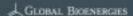
Climate Change



Oil dependency

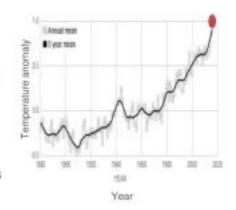
- · Conventional oil production has peaked
- Oil demand increases steadily
- Non-conventional oil (Shale, Oil sands, Deep offshore) is filling the gap for now
 No guarantee it can last for long...
- Catastrophic scenarios if oil becomes scarce - Need to prepare solutions to complement oil
- Global Bioenergies' technologies produce key building blocks for fuels and materials
- Using agricultural and forestry surpluses, long term target of 5% of present worldwide oil production





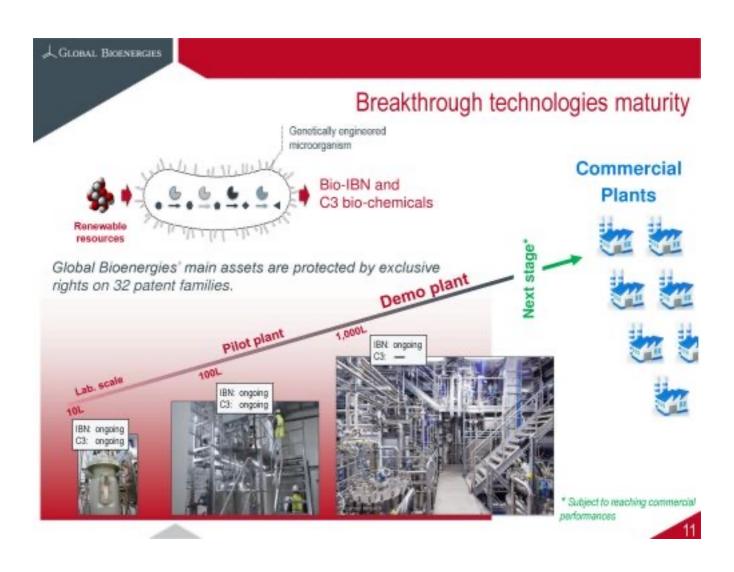
Climate Change: potential for global impact

- Climate change metrics
 - Temperatures already 1 °C above historical average
 - Paris Agreement aims a 2°C increase maximum by 2100
 - If nothing is done rise could reach 5°C
- Green House Gas emissions (1)
 - Have reached 53Gt per year in 2017
 - Must be lowered by 11Gt in 2030 to meet Paris objectives
 - Must be negative by end of century



- Great potential in Transport sector. Regulations shall promote (2)
 - Efficiency (35% of 2030 objective)
 - Biofuels (6% of 2030 objective)
- Global Bioenergies' drop-in products can be a significant part of the solution





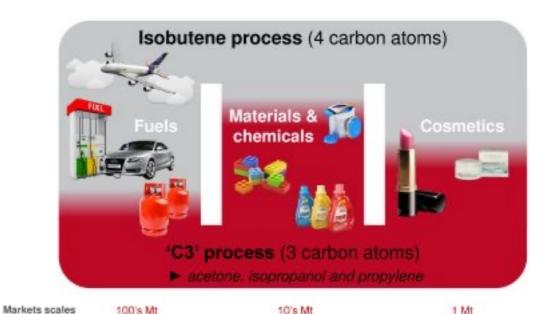


Three generations of feedstock





Two processes addressing huge markets worldwide



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Regulatory premium			
Marketing premium			

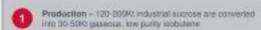


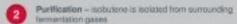
IBN-One: first commercial plant project

 Joint-Venture between Global Bioenergies and Cristal Union, supported by the ADEME Investissements d'Avenir program



- Estimated CAPEX: €115 million to be funded by
 - Cristal Union
 - Public & Private infrastructure funds
 - Banking debt
- Engineering studies:
 - TechnipFMC
 TechnipFMC
 - IPSB JE IPSB
 - Service of Property Person of Britan Anniques
- Commercial development:
 - First commercial agreements with ASPEN and Butagaz
 - Collaboration with L'OREAL
 - Would be profitable in Jan. 2018 environment
- Commissioning and start of commercial operations targeted in 2021

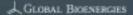




- Shipping Liquid high purity isobutane (99.7%) is stored and shipped for chemical applications
- Conversion Part of the production is converted on site into tiro fuels



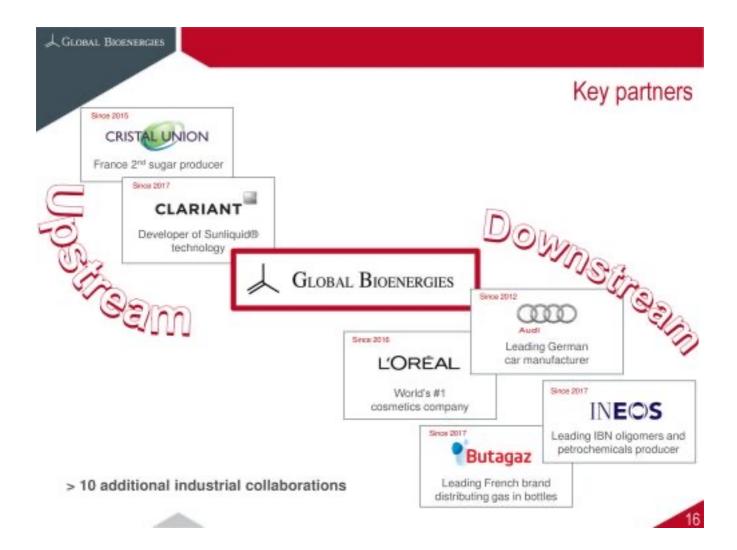




A multi-faceted business model

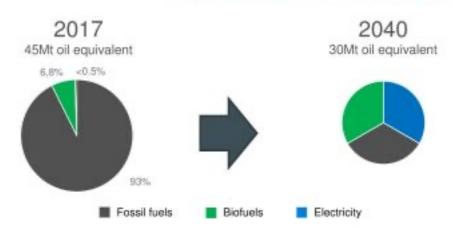
- · Technology licensing to exploiting industrialists. We target:
 - \$1million upfront per 10,000 tons capacity
 - 5% royalties on sales

- → For a typical 50,000 tons project: €5m upfront + €5m/yr royalties
- → Global Bioenergies would be profitable with only 3 licenses
- Engineering services during the design and construction phase of plants
- · Marketing and retention of commercial rights
 - to avoid competition between licensees, and
 - build the identity of the company on the product





Our vision for France's road transport



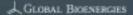
Transition Pillars

Consumption reduction (better cars, shared transportation...)
Biofuels deployment (x2 in acrage)
Increase in renewable electricity (x3), new infrastructures, grids

Impact

Oil consumption down 75% CO₂ emissions down 60%

Market for 60 new bio-gasoline factories and a vibrant local economy



Our vision 2040 for the world's road transport

- No reduction in road transport consumption yet, but no more growth (better cars and shared transportation to progressively balance demand growth from emerging countries)
- EV accountable for 10% of the transportation energy, driven by Asia
- Biofuels to increase from 1% today to 5% in 2040:
 - Driven by Europe and the Americas

- Production of 250 million tons biofuels per year
- 5000 production plant (size of IBN-One)
- 10% of the world arable land and 5% of the world forestry output
- CO2 emissions reduced by about 500 million tons annually

Management





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



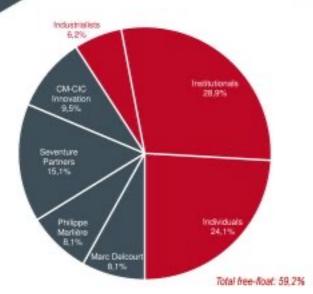
Sébastien Groyer – Partner at Seventure Partners
Has participated in the investment, administration, market
launch or takeover of about 20 innovative companies



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



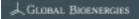
Shareholders and equity financing



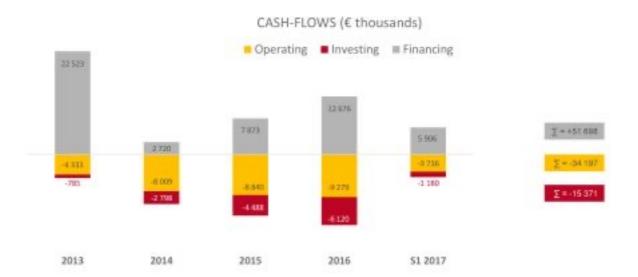
- ▶ 68 million euros raised to date
- Market cap ~€75m

Existing shares as at Dec. 31", 2017 4,487,501 + Dilutive instruments (stock-options, warrants...) +633,251 including stock options for employees: 214,732 Fully diluted: = 5,120,752

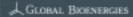
Average daily liquidity		
2012	E15k	
2013	6324	
2014	€77k	
2015	€96k	
2016	€90k	
2017	€120k	



YEARLY CASH-FLOWS



- ► All major investments behind (laboratory equipments, pilot, demo plant)
- Cash in hands as at Sept 30th, 2017: €17m



An intense newsflow expected on the short term

- Shipment of Isobutene to several industrialists for technical validation and market testing
- Progresses in IBN and C3 processes performances and scale-up
- 3 2nd Generation: progress in existing and new collaborations
- 3rd Generation: technical validations
- BN-One:
 - Financing of the final engineering phase
 - Off-take agreements
- 6 Build up of a portfolio of commercial plants projects

Contact

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