

BIOAMBER'S STORY



BIOTECHNOLOGY

BioAmber Sarnia is the largest succinic acid plant in the world – petroleum based or bio-based.

- BioAmber Inc. uses industrial biotechnology to convert renewable feedstocks into chemicals. Our process has a lower carbon footprint and energy consumption than the identical petroleum-derived chemical process, with zero compromise on performance and quality.



- The feedstock for the plant is glucose, principally from Ontario agriculture.
- The production process is based on fermentation technology that uses innovative yeast.
- BioAmber Sarnia produces succinic acid in a crystalline form, similar in appearance to table salt.



THE WORLD'S LARGEST BIO-BASED SUCCINIC ACID PLANT, SARNIA, ONTARIO.



ENVIRONMENT

Sustainability can be hard to describe, even harder to imagine; this is sustainability coming to life, both economic and environmental – succinic acid is a “building-block chemical” with common applications in the automotive and electronics industries, biodegradable plastics, resins and coatings, lubricants, food-grade certified products as well as personal care.





EXPORTS

Over 95% of BioAmber Sarnia production will be exported to customers in Europe, Asia and the United States.

- Over 50% of the production of the Sarnia plant has already been sold under off-take contracts, and the remainder is committed to various customers under supply agreements.



FINANCIAL

The investment in the plant is over US \$140 million.

- In January of 2014, EDC issued its first US \$300 million Green Bond, which was oversubscribed.
- BioAmber's Sarnia loan facility is part of the Green Bond portfolio.
- The plant has received support from the Canadian and Ontario governments.

THE GLOBAL VALUE CHAIN

BioAmber Inc. has "A list" partnerships: Mitsui & Co., Cargill, JM Davy, Vinmar and PTT MCC.



THE SARNIA-LAMBTON CHEMICAL CLUSTER

Approximately 300 construction and 60 full-time jobs were created by the BioAmber Sarnia project and several of the plant operators are graduates of Lambton College.

Lambton
College

- The emergence of commercially viable biochemistry is a demonstration of the beginning of the transition of the traditional chemical industry to renewable chemistry.
- The plant is a fully integrated participant in the Sarnia Lambton cluster including relationships with the Industrial Educational Cooperative (IEC), Sarnia Construction Association (SCA) and the Sarnia-Lambton Environmental Association (SLEA).
- For Sarnia Lambton, BioAmber is a jobs and export story with the potential to attract other manufacturers here to co-locate. Succinic acid production fills a significant product portfolio gap for the Canadian chemistry sector. It is an opportunity to build a renewable chemical cluster in Sarnia's "chemical valley".

**LET'S BUILD
A GREENER WORLD,
ONE CHEMICAL
AT A TIME!**



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