

Bin2Barrel

CONVERTING WASTE INTO FUEL



Februari 2017



Waste is being **unsustainably dumped** in landfills or incinerated. At the same time, there is a looming **oil and gas shortage**.



Bin2Barrel converts **waste into liquids**, through a proven process using tried & tested technology

Mission

- To create the highest value from plastic waste

Vision

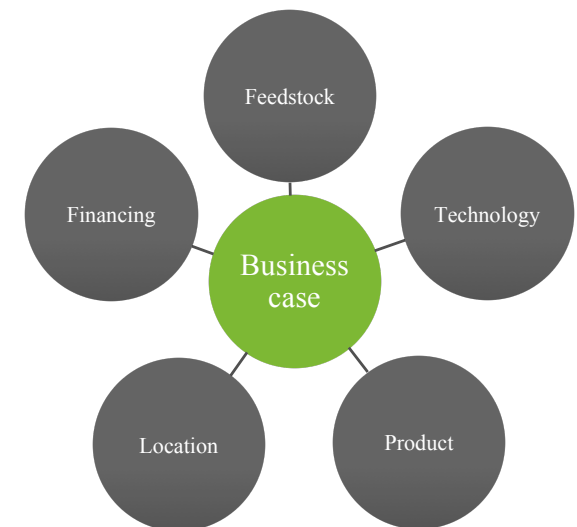
- To transform non-recyclable plastic waste streams into oil / chemicals

Strategy

- To develop chemical recycling plants by using the most innovative and efficient technology available

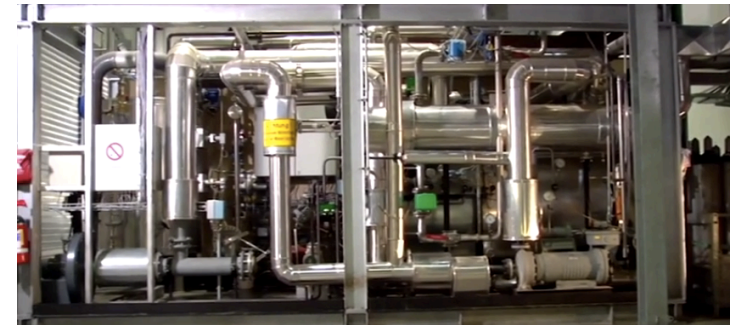
Business Case Amsterdam

- B2B developed project to transform non-recyclable plastics into liquids
- Chemical recycling where mechanical recycling is not possible
- Proven and guaranteed technology
- Partnership with Port of Amsterdam
to realize circular economy



Technology

- Proven technology (pyrolysis),
- Technology developed and tested by Petrogas/BlueAlp
- Positive Technical Due Dilligence done by ECN (www.ecn.nl)
- Plant will be the first of its kind in Europe
- Transforming 24.000 tons (nett) of plastic into;
 - 23 mio liter of fuel oil (Diesel Quality)
 - 3,3 mio liter of Naphta
- Energy for systems comes from system itself



CO₂ Reduction

By avoiding landfill and incineration B2B will reduce 57.000 ton CO₂ per year*



Bin 2 Barrel: Making liquids from (non recyclable) plastics



This is the equivalent of 55 ha of solar panels costing EUR 75 mio!

*calculation made bij Vroonhof Milieu en Advies (www.vroonhof-milieu-advies.nl)

Feedstock

- Non-recyclable plastics (DKR 352 spec)
- Materials which can not be recycled by mechanical sorting
- Now these streams are incinerated and landfilled
- Total volume of feedstock for the first plant is 35.000 ton/annum (gross)



Product in phase 1

- Output:
 - Approx. 23 million liters gasoil, target EN 590 (Road diesel)
 - Approx. 3,3 milion liters of Naphta



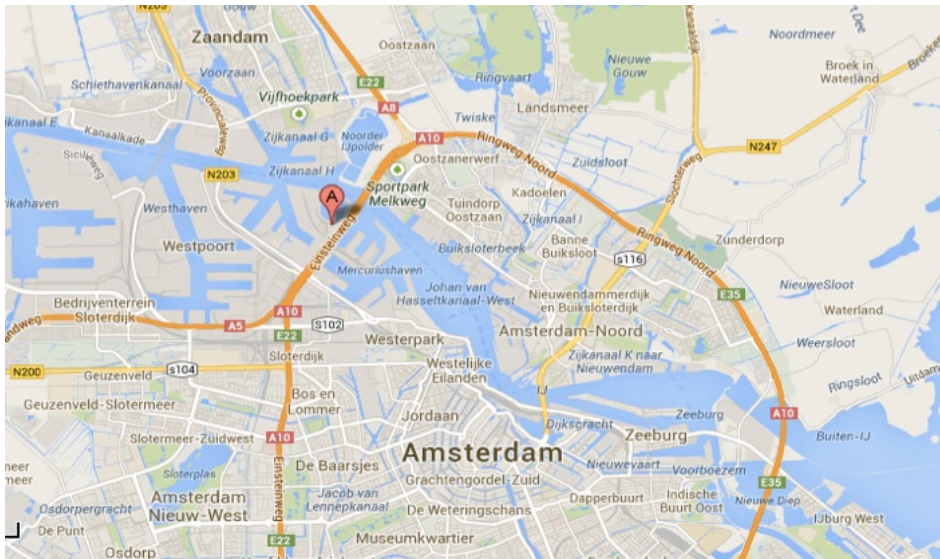
Product in phase 2

- Less transport fuel, more chemicals



Location

- B2B will set up the first plant in the port of Amsterdam
- The Port of Amsterdam is a partner of B2B



Bin2Barrel is currently preparing the first site in Amsterdam



Construction will start directly
after development



Strong operating economics even with conservative assumptions



- Realizing the first plant in the Netherlands
- Expand in the Netherlands and abroad
- Further improving the ratio between chemicals and diesel



The logo 'Bin2Barrel' is displayed in a dark grey banner at the top. The '2' is green with two white arrows pointing right. The 'l' at the end of 'Barrel' is a white oil drop. The background is a photograph of a green field under a blue sky with white clouds and several birds in flight.

Bin2Barrel

Paul Harkema

Mobile +31 6 51 822 546

Email paul@bin2barrel.com

Floris Geeris

Mobile +31 6 42 252 020

Email floris@bin2barrel.com