3R-BioPhosphate Ltd.

Foundation
- 1989

Employees
- 13

Branches
- Recycling and Reuse
- Organic - low input farming
- Water treatment

Key materials
- Phosphorus biofertiliser
- Adsorbents

Key products
- ABC Animal Bone Char
- BioPhosphate
  high concentrated recovered calcium phosphate products
  for organic farming and adsorbent applications

Original solution:
„3R“ zero emission pyrolysis technology and 3R-BioPhosphate products:
an unique business opportunity

The product:  
https://nutriman.net/farmer-platform/product/id_192

The technology:  
https://nutriman.net/farmer-platform/technology/id_193

Phosphate is critical raw material as of EU (2017) 490. Phosphorus cannot be replaced. No Phosphorus = no life = no agriculture = no food = the thing of cheap fertiliser is already history.

Converting food grade animal bone grist by-products into high added value pure and concentrated ABC-BioPhosphate organic/low input fertilizer. The goal is to substitute the cadmium/uranium contaminated chemosynthetic mineral phosphate fertilizers and make wide range of high added value applications. Specific 3R zero emission technology applied with 850°C material core processing temperature.
Key enabling technology

The 3R zero emission pyrolysis is key enabling technology and its recovered innovative BioPhosphate products targeting commercial implementation in 2020. The focus is on cheapening the Phosphorus value chain by valorisation of unexploited biomass cattle bones in economical industrial scale, while improving material safety and P supply security (Authority permit no. 6300/13393-2/2019). The project is based on large scale EU Commission co-financed RTD projects, which have been coordinated and implemented by Edward Someus past decade (trusted EU references). Environmental and food safety impacts targeted, such as elimination of cadmium and uranium contamination from food chain and improvement of food safety for less cost, which impacts are well defined and integrated into the market driven business model and systematically measured. The project demonstrating sustainable growth of the business to deliver impact through a promising and realistic business planning, and a significant growth potential at a relatively modest capital investment, with a realistic exit strategy capable of supporting financial and non-financial returns.

Welcome to ask questions and make business contacts.

Contact 3R-BioPhosphate Ltd.
2472 Kajaszo,
Biofarm Road 58/3
BIOFARM Agri Research Station
Hungary
Phone: +36-20-2017557
Skype: edwardsomeus
biochar@3Ragrocarbon.com
https://www.3Ragrocarbon.com

Contact person
Edward Someus
biochar S&T senior engineer
edward@terrenum.net

“3R” zero emission carbon refinery technology application map 2020
for flexible reductive thermal processing in any range up to <850°C material core temperature.

High temperature reductive thermal processing
<850°C Celsius material core temperature processed
Pyrolysis - Autothermal Carbonization

Activated Carbon
Virgin & Regeneration
- ADSORBENTS
ABC-BioPhosphate
Animal Bone Char
BIOPHOSHATE

High C content
Plant BioChar
BIOCHAR

Special adsorbents and surface modified substances. Biofertilisers. Green energy.

Torrefaction
Torrified Biomass
BIO-ENERGY

Browncoal processing
RECOVERED
ANTHRACITE

Pyrolysis oil refinery
Renewable energy
GREEN ELECTRICITY

Converting Trash into Cash.
Converting unexploited biomass into $ values.

Low temperature reductive thermal processing
<450°C Celsius material core temperature processed
Torrefaction - Thermal Desorption

And many other application areas, incl. petroleum jelly, coatings, preservative...