



Nutriman Nutrient Management and Nutrient Recovery Thematic Network

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3R Recycle-Reuse-Reduce zero emission pyrolysis technology for phosphorus recovery from food grade animal bone grist for production of Bio-Phosphate products

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



KEY TECHNOLOGY FACTS

- **INPUT:** mono feed food grade animal bone grist.
- **CAPACITY:** >20,800 t/y throughput.
- **OUTPUT PRODUCT(S):** BioPhosphate bio-fertiliser with BIO-NPK-C formulations, adsorbents and bio-energy.
- **EC/MS AUTHORITY PERMITS:** Industrial scale pyrolysis plant installation/operation permitted.

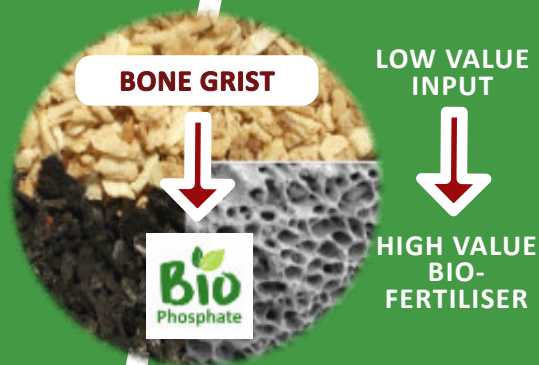


TRL 8



ADVANTAGES & BENEFITS

- **High material core temperature 850°C** pyrolysis with specific treatment conditions. Autothermal operated. Surplus bioenergy production.
- **High added value and safe bio-products** with unique surface and material characteristics.
- **Zero emission environmental & climate impact:** all material streams are recycled, recovered and converted into useful and safe products.
- **Medium CAPEX and low OPEX** operated.
- **Supporting rapid financial & non-financial returns.**



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CONTACT

Edward Someus
3R BioPhosphate Ltd.
biochar@3ragrocarbon.com
www.BioPhosphate.net

