

COMPANY INTRO



WHY RICE HUSKS



RICE

Scalable: Over 220 billion pounds per year of rice husks are generated globally

Biocarbon reduces GHGs created by: burning hulls in the fields (CO2) or allowing them to rot (Methane).

Rice husks have unique chemistry.

Our Biocarbon is activated for water treatment – the unique chemistry and silica content of the husks **allows for metals** removal from water.



Rice Husk Biochar for Water Treatment

Multiple mechanisms for contaminant removal

- Cation exchange
- Adsorption
- Complexation
- Coprecipitation
- Electrostatic attraction



Why Glanis for water?

Typical Activated Carbon

- EFFECTIVELY REMOVES METALS
- EFFECTIVELY REMOVES ORGANICS V
 - SUSTAINABLY SOURCED X
 - SUSTAINABLY PRODUCED X
 - **ECONOMICAL**
 - FREE OF MICRO-PLASTICS

Activated Carbon

\$8.23 billion 11.46% CAGR

Biocarbon

- EFFECTIVELY REMOVES METALS
- FFECTIVELY REMOVES ORGANICS
 - SUSTAINABLY SOURCED
 - SUSTAINABLY PRODUCED
 - **ECONOMICAL**
 - FREE OF MICRO-PLASTICS

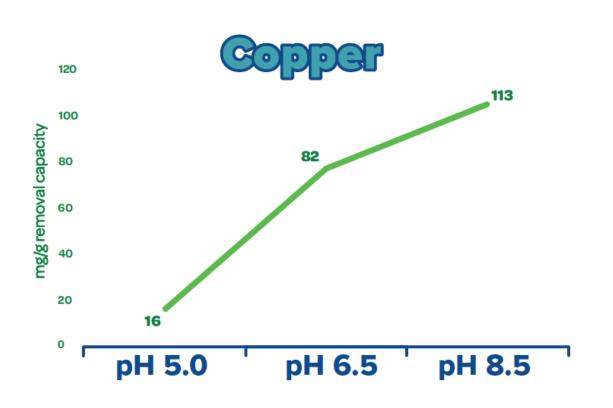
Con Exchange Resin Beads

- V EFFECTIVELY REMOVES METALS
- X EFFECTIVELY REMOVES ORGANICS
- X SUSTAINABLY SOURCED
- X SUSTAINABLY PRODUCED
- X ECONOMICAL
- X FREE OF MICRO-PLASTICS

Ion Exchange Resins

\$3.4 billion 7.3% CAGR

Test Results





Cost Comparison



TRADITIONAL GRANULAR ACTIVATED CARBON (GAC) MORE ESOTERIC
ACTIVATED
CARBON (BONE
CHAR)

TYPICAL METAL REMOVING ION EXCHANGE RESIN



\$100 -\$300 \$100 -\$1000

PRICES PER CUBIC FOOT (WHOLESALE, BEFORE SHIPPING)





Engineering

Onsite analytical capabilities

New Products in the Lab:

Arsenic and phosphate 10x capacity on metal removal

University & industry affiliations

Pelletizing to improve kinetics + flow

2 US patents issued

(process and material)
Process patents in China + Japan

IBI Certified. NSF 61 Certified

THANK YOU!



Bryan M Eagle III • CEO • bryan@glanris.com