



BIOTECH

Slipper

Carbon Credits

ORGANIC SOLUTION TO CHEMICAL POLLUTION

SYNTHETIC FERTILIZER



OG ALIVE



ENVIRONMENTAL IMPACTS – MINING



- Significant physical footprint and impact on water and vegetation
- Requires strip mining
- Greenhouse gases from mining and shipping



- NO MINING, NO POLLUTION
- Small footprint to produce a barrel of oil, but for every 1,000,000 barrels of oil, **500,000 tons of CO2 not released into atmosphere**

ENVIRONMENTAL IMPACTS – MANUFACTURING



- Consumes **1.2% of world's energy annually** resulting in **2.1% of total greenhouse gas emissions**
- **40% of greenhouse gas emissions occur in the production and transport stage** largely in the form of CO2 caused by burning fossil fuels during manufacture



- MINIMAL MANUFACTURING (passive process) so NOMINAL GREENHOUSE GAS EMISSIONS
- **Eliminates 40% of the greenhouse gases** compared to the manufacture of synthetic fertilizer

ENVIRONMENTAL IMPACTS – PLANT GROWING



- Of the 2.1% of the total of the world's greenhouse gas emissions from fertilizer manufacture and production, **the majority (60%) occur after the fertilizer is applied to the soil** entering the atmosphere as nitrous oxide
- Constant use of synthetic fertilizer can **alter the pH of soil, increase pests, acidification, and soil crust**, which results in decreasing organic matter load, humus load, and useful microorganisms, stunting plant growth



- Likely greenhouse gas emission negligible or greatly reduced (but needs to be verified by further testing)
- Leaves no harmful residue in the soil, and actually bioremediates it—creating healthier soil for the next generation of crops

ENVIRONMENTAL IMPACTS TO WATERWAYS



- **Number one source of water pollution**
- 50% of rivers and streams and 35% of streams unfit for swimming, drinking or fishing
- Extremely dangerous toxins that can sicken or kill
- Growth of massive **dead zones** in world's oceans—areas where oxygen has fallen to such low levels that most marine life cannot survive



- Creates no water impacts