



LIFE CYCLE ASSESSMENT (LCA) SUMMARY TRUESOLUM® VS. NPK COMPARATOR

INTRODUCTION

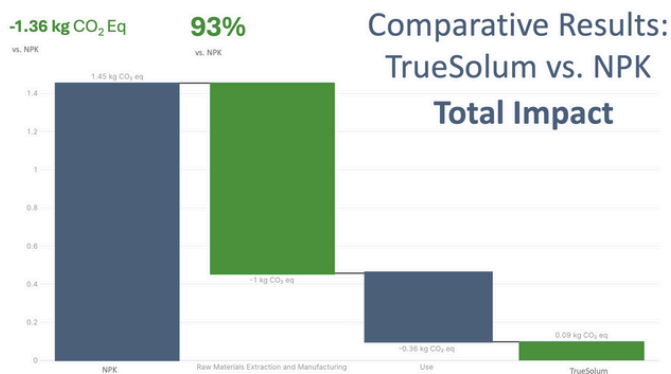
TrueAlgae conducted a Life Cycle Assessment (LCA), a comprehensive method for evaluating the environmental impacts of products or services throughout their entire life cycle. LCAs provide invaluable insights into sustainability, examining factors from raw materials to disposal. The comparative nature of LCAs allows for data-driven assessments, utilizing the CO₂ equivalent (CO₂ eq) metric to compare greenhouse gas emissions across different products.

ASSESSMENT OVERVIEW

In collaboration with Greenly, a carbon accounting platform, we compared TrueSolum (TS) against a generic liquid NPK comparator for CO₂ eq emissions. This LCA evaluated stages including raw materials' extraction, upstream transportation, production and product utilization. Greenly tested three CO₂ eq metrics:

- Total Impact: CO₂ eq emissions for 1 liter of product
- Impact per Corn Hectare: CO₂ eq emissions per 1 hectare of corn production
- Impact per Corn Quantity: CO₂ eq emissions per 1 kilogram of corn production

RESULTS



Metric (g CO ₂ eq)	TS	NPK	% Diff.
Total Impact	97.33	1,450	-93.27%
Impact per Corn Ha	240.41	3,590	-93.33%
Impact per Corn Qt	0.01	0.23	-95.65%

CONCLUSION

TrueSolum exhibited significantly lower CO₂ eq emissions across all metrics compared to the NPK comparator, highlighting TrueSolum's potential in reducing the environmental footprint of agricultural practices. With demonstrably lower CO₂ eq emissions compared to conventional counterparts, TrueSolum offers a tangible solution for addressing climate impact in agriculture.