



Growing crops where **nothing grows**.

Developed by Terraxy · AgriTech · Soil & Circular Economy



THE PROBLEM

Saudi soils are ~90% sand — almost nothing grows

Saudi soils are roughly 90% sand, with almost no nutrients or water retention. The usual fix — imported peat moss — is expensive, short-lived and unsustainable, costing the Kingdom on the order of 250 million SAR a year.

What's needed is a way to genuinely build soil, not just feed it, while reducing landfill pollution and capturing carbon rather than adding to emissions.

THE SOLUTION

Turning organic waste into soil that lasts

Terraxy converts local organic waste streams into Carbosoil, a permanent soil enhancer. Rather than temporarily feeding plants, Carbosoil rebuilds the soil itself — and its fertility lasts for centuries, locking carbon into the ground as it goes. It's a Saudi-made technology for greening, landscaping and food production in arid regions, turning a waste problem into fertile ground.

TECHNOLOGY · KEY SPECIFICATIONS

Product	Carbosoil — a permanent soil enhancer from organic waste
Feedstock	Local biomass / organic waste streams (converted via biochar)
Production scale	Industrial continuous process, 30 tons per day
Fertility duration	Lasts for centuries, enabling soil carbon sequestration
Import replaced	#SaudiMade alternative to imported peat (~250M SAR/year)
Scale-up	Production facility in development near Riyadh
Development support	\$3M raised to date; engagement with MEWA, RDIA and SIDF

IMPACT

01

Fertile soil from waste

Turning local organic waste into permanently fertile soil for arid regions.

02

Carbon sequestration

Locking carbon into the ground for centuries as fertility endures.

03

National self-reliance

Replacing costly imported peat with a #SaudiMade circular alternative.

04

Greening arid land

Enabling urban greening, landscaping and food production where soil was barren.