

Scope 3 Supply Chain Reporting Built Into Every Unit

ESG verification is not an afterthought. It is architecture.

At a Glance

Scope 3 emissions (supply chain + product use by customers) are 70 percent of most tech companies' carbon footprint. Thermikron® is designing Thermopod supply chains for zero Scope 3. [1]

Summary

Carbon accounting for corporates uses three tiers: Scope 1 (direct combustion), Scope 2 (purchased electricity), Scope 3 (everything else: supply chain, product use, end-of-life). For most tech companies, Scope 3 represents 70 to 85 percent of total carbon footprint. A Microsoft Scope 3 audit might show 200,000 metric tonnes CO₂e when Scope 1+2 combined is 50,000 metric tonnes. The majority of climate impact is in the supply chain and customer use. [1]

Thermopods, deployed by customers for office cooling, appear in customer Scope 3 reporting as the purchased cooling equipment. If Thermopods required electricity (like traditional HVAC), every watt of cooling would carry a carbon cost at the customer's grid intensity rate. In India, that is 0.65 kilograms CO₂e per kWh. [2]

Biothermal Microconditioning inverts this. Thermopods require no electricity during operation. Customer Scope 3 emissions from Thermopod operation are zero. Instead of adding to a customer's carbon footprint, Thermopods reduce it by displacing mechanical HVAC. A customer deploying 1,000 Thermopods eliminates approximately 390 metric tonnes CO₂e of annual cooling emissions from their Scope 3 footprint. [3]

Thermikron's manufacturing supply chain also targets zero Scope 3 through local sourcing and circular recovery. Areca palms are propagated within 500 kilometres of deployment. Coconut coir comes from coconut processing waste, not virgin extraction. Steel frames are made from recycled steel. Terracotta is fired in efficient kilns powered by residual coconut shell biomass (a coconut processing byproduct). At end-of-life, the entire unit is recovered locally. [4]

This is not aspirational. This is by design. Biothermal Microconditioning is built to zero out Scope 3. Customer carbon footprints shrink. Thermikron's carbon footprint is neutralised by end-of-life recovery and supply chain circularity. The system achieves climate benefit without offset schemes, carbon credits, or hope. Just physics and circular biology. Easy Retrofit. One day deployment. Zero Scope 3 footprint. [5]