HardTech · Clean Industry

HardTech

Country: ?? Peru · Santa Anita, Lima **Category:** Clean Industry **CT Taxonomy:** CT-IN-003 **Impact Areas:** Mitigation, Circular Economy **Stage:** Prototype **Team Size:** 3 **Website:** — **Funded:** —

Elevator Pitch

Produce monocrystal silicon carbide using low-cost raw material in controlled atmosphere, as the concept has a provisional patent at USPTO (United States Patent and Trademarks Office) US 63/724,687. It is possible to compete with Chinese technology.

Climate Problem

Conventional Acheson process of silicon carbide emits large amount of carbon dioxide, and the consumption of energy is large because requires 36 hr. Our process reaches a reduction of 30% in time and costs. Moreover, our method produces no CO2.

Solution

We use induction furnace, and a chamber in vacuum so little or no CO2 is produced. Polycrystal silicon carbide is our raw material, making its transformation in single crystal with no air emissions.

Source Notes

Odoo res.partner id 492 (`x_startup_name` HardTech, `x_clp_cohort` CLP 2026, Peru). CLP26 application app_id 6404; imported catalog title was the long application headline (page 834 rename 2026-09-24).

Founder

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