321solsv · Clean Energy

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Country: El Salvador · San Salvador **Category:** Clean Energy **Impact Areas:** Mitigation, Adaptation **Stage:** Sketches **Team Size:** 4 **Website:** — **Founder:** Angel Bayona

Elevator Pitch

321solsv is a living lab for tropical agrivoltaics. We integrate solar-powered irrigation, clean energy, and mycelium-based biomaterials to deliver water, food, and sustainable construction, validating three business lines in one demonstrative site.

Climate Problem

321solsv tackles water scarcity, fossil fuel dependence, and waste in the Central American dry corridor by integrating solar irrigation, agrivoltaics, and circular biomaterials to cut emissions and boost resilience.

Solution

321solsv offers a cross-cutting solution: solar-powered irrigation for water access, agrivoltaics for clean energy, and mycelium-based biomaterials. One demonstrative site validates all three business lines in practice.

Revenue Model

321solsv generates revenue through sales of solar-powered irrigation systems, food crops grown under agrivoltaics, and mycelium-based biomaterials, combining short-term cash flow with scalable clean energy and circular solutions.

Target Market

Smallholder farmers and rural communities in the Central American dry corridor needing affordable water, clean energy, and sustainable materials. Also any entity seeking to replace diesel/gasoline portable pumps with solar-powered alternatives.

Social Impact

Indigenous Peoples, People Living in Extreme Poverty, Women

Demand Evidence

Demand is clear from farmer and community feedback via a foundation partner, interest from cooperatives, and the urgent need to replace costly diesel/gasoline pumps. Water scarcity and new renewable energy laws confirm strong market pull.

Competitors

Competitors include solar pump distributors, agrivoltaic pilots, and conventional construction material suppliers. In El Salvador, none integrate clean energy, water access, and circular biomaterials, making 321solsv unique in its cross-cutting approach.

Founder Expertise

Our team includes a mechanical engineer with solar PV experience, a social worker for community engagement, an auditor for governance, and a skilled technician supporting field operations.

External Support

We engaged pump manufacturers for distribution, validated demand with farmers and communities via a third partner foundation, and gained interest from cooperatives. Supportive new laws on renewable energy and innovation in El Salvador strengthen our path.

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