

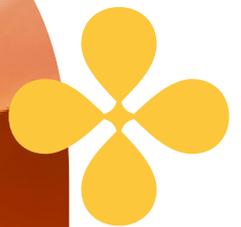


CLEAN
Create. Connect. Collaborate.



WATT MATTERS 2025

WEEKLY MEMBER SPOTLIGHTS





S4S TECHNOLOGIES

MAHARASHTRA

EST. 2008

SOLAR DRYERS

ABOUT



S4S Technologies is a sustainable food ingredients company that partners with smallholder women farmers to supply nutritious, traceable, and convenience-driven ingredients to the food and beverage industry. The company specializes in functional ingredients such as dehydrated vegetables, spices, and grain-based products like grits, meals, and starches.

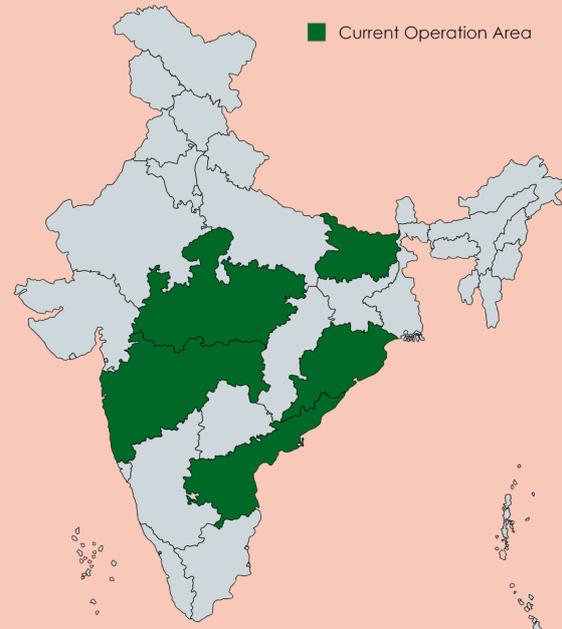
S4S develops low-carbon processing technologies like solar dryers, and customized infrastructure to deliver high-quality products across India and to over four international markets.

At the heart of its model is village-level sourcing and processing, led by women farmers turned micro-entrepreneurs. S4S equips them with the right mix of technology, finance, and market access to convert perishable produce into shelf-stable, value-added products. With extensive backward linkages, S4S builds climate resilience among farmers while collaborating with partners across food science, sustainability, and manufacturing.

Its work is supported by global institutions such as the World Bank Group, Bill & Melinda Gates Foundation, GIZ, USAID, UN agencies, and Shell Foundation, and is backed by investors including Accel, Acumen Fund, FactorE Ventures, Global Innovation Fund, and Chiratae Ventures.

Current Operation Areas

Maharashtra, Madhya Pradesh, Bihar, Odisha, Andhra Pradesh



Map. Current Operation Areas

CHALLENGES & SOLUTION

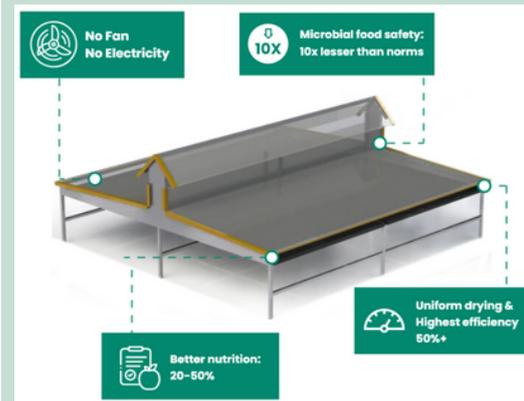
S4S Technologies turns farm losses into high-quality food ingredients by sourcing and processing produce directly at the farm gate through a decentralized, women-led model. At its core is the Solar Conduction Dryer (SCD)—a solar-powered, energy-efficient technology that reduces post-harvest losses by converting perishables into shelf-stable products. S4S provides women farmers with a complete ecosystem to start farm-gate processing—including renewable energy tech, training & capacity building, affordable finance and market linkages—enabling them to process locally, earn more, and rise out of poverty.

Commercial Benefits

- Reliable supply with assured quality
- Competitive, affordable pricing
- Custom solutions through in-house R&D

Sustainable Supply Chain

- End-to-end traceability
- Energy-efficient operations with minimal carbon footprint
- Increased farmer income through direct engagement
- Women-led sourcing and processing, promoting gender equity



PRODUCTS & MARKET

* Products

Food Ingredients

- Perishable farm produce is transformed into shelf-stable, high-quality ingredients using the Solar Conduction Dryer and sold directly to Food & Beverage companies.
- Includes value-added products like:
 - **Starch:** Corn, Tapioca, Rice, Potato
 - **Processed Fruits & Vegetables:** Onion, Ginger, Garlic, Tomato
 - **Pulses & Grains:** Makhana, Extruded Snacks, Grits, Meal
- Applications: Seasoning, Soups, Starch, Gravy Replacement, Ketchup/Pulp/Puree, RTC/RTE, Snacks, Breakfast Cereals, Oil Extraction, Alternate Protein.

* Customers and Clients

- Food FMCG Companies: 7 Enterprise Customers
- Food Service Industry: Distribution to 2,500 customers across 6 cities
- Export Sales: Across Southeast Asia (SEA) & UAE
- B2B Customers: Processors, Distributors, Export Houses, Traders

S4S's Solar Conduction Dryer (SCD) reduces moisture in agro-produce, preserving it for up to 1 year without chemicals or preservatives.

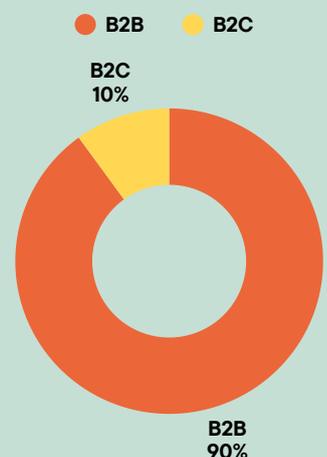
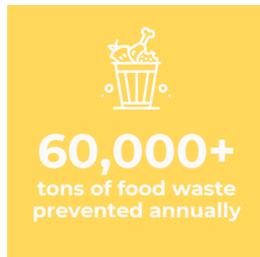
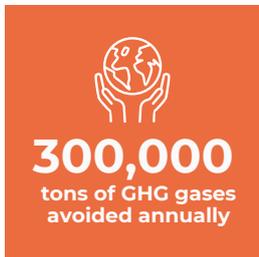


Chart. Business Segment Distribution

IMPACT

- **Farmer Impact**
 - Works with 300,000 farmers across 400 villages in 5 Indian states
 - Enables farmers to earn 9–15% additional income
- **Women Entrepreneurs**
 - Created green, renewable energy-powered livelihoods for 5,000 women entrepreneurs
 - Helped double their household income and enabled them to rise out of poverty
- **Employment Generation**
 - Created 500+ direct and indirect jobs
 - Positively impacts over 80,000 individuals annually
- **Climate & Food Loss Impact**
 - Prevents 60,000 tons of food waste annually
 - Avoids 300,000 tons of greenhouse gas emissions annually
- **Access to Finance**
 - Catalyzed USD 5million+ in financing for women entrepreneurs



Way Forward

S4S plans to expand its reach to more farmers and underserved regions by growing partnerships with cooperatives and women entrepreneurs. It will enhance its product range with improved solar-powered processing solutions and deepen B2B ties with food companies. Continued R&D will focus on improving efficiency and affordability, while stronger impact tracking will help attract funding and support. Overall, S4S aims to reduce food loss, increase rural incomes, and promote sustainable agriculture through innovation and inclusive growth.



Alignment with SDG Goals



CONTACT

 support@thecleannetwork.org

 sales@s4stechnologies.com