



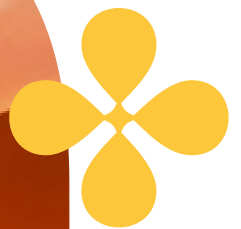
CLEAN
Create. Connect. Collaborate.

HIMALAYAN™
rocketstove



WATT MATTERS 2025

WEEKLY MEMBER SPOTLIGHTS



HIMALAYAN ROCKET STOVE

 HIMACHAL PRADESH

 EST. 2017

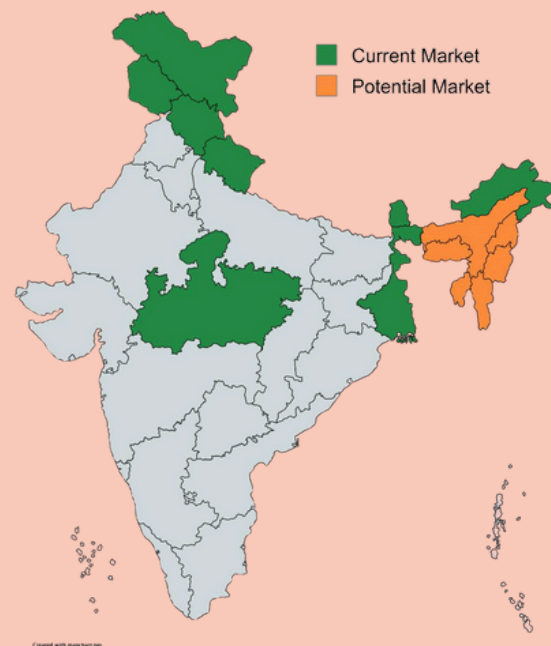
 CLEAN COOKING

ABOUT

Himalayan Rocket Stove (HRS), established in 2017, is a social enterprise dedicated to transforming heating and cooking practices across the Himalayan region through clean, efficient, and low-emission combustion technology. The organisation works closely with communities in extremely cold, high-altitude areas, where traditional cooking and heating methods have long contributed to environmental degradation, health issues, and social challenges.

The idea for HRS was born from the lived experiences of Russell Collins, an Australian-origin traveler who spent many years journeying through Ladakh, Spiti and Himachal. Witnessing the harsh impacts of traditional wood-burning bukharis—including heavy firewood dependence, thick indoor smoke, and severe black carbon pollution—he saw an urgent need for innovation. Inspired by conversations with local innovators, early rocket-stove designs, and his background in sustainable living, Russell began developing a modern, efficient, Himalayan-specific solution. After multiple prototypes and several early failures, he engineered a clean-burning stove design that directly addressed the needs of mountain households.

Current Markets	Potential Markets
Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir (UT), Ladakh (UT), Madhya Pradesh, Sikkim, Uttarakhand, West Bengal, Nepal, Bhutan	Northeast India, Chile, Mongolia, Tibet, USA



Map. Current and Potential Markets

SOLUTION

HRS stoves use high-temperature clean-combustion technology that burns wood efficiently while sharply reducing emissions. Pre-heated primary and secondary airflow ensures complete smoke combustion, and a vortex riser tube creates turbulence to burn gases and long-chain hydrocarbons. An exhaust-gas valve (bell effect) traps the hottest gases inside the stove, maximising heat transfer. This high-temperature biomass combustion burns smoke as fuel, producing more heat, less pollution, and lower wood consumption. Independent testing by NEERI and Shivalik Solid Waste Management confirms 80.8% combustion efficiency with low CO, NO, and NOx emissions.

Designed to tackle key Himalayan challenges, HRS stoves:

- Reduce deforestation, indoor pollution, and women's drudgery.
- Save up to 50% wood while providing stronger, more consistent heating.
- Backed by patent-level innovation, 3 year warranty, and proven field performance.
- Drive social and environmental impact, improving health and supporting low-income communities.

Products Offered:

- Eco-Series Rocket Stoves: Eco-1 (standard rooms), Eco-2 (medium/guesthouses), Eco-3 (halls & commercial spaces), Eco-Mini (compact, economical).
- Accessories: Hamam hot water systems (12L & 25L), pipe kits, and base trays (basic & decorative).



MARKETS

Business Segments

- **B2C – (75%):** Primary market across Himalayan states, with most sales to families and individuals in remote, wood-dependent communities.
- **B2B – (25%):** Growing demand from hotels, resorts, schools, and hospitals, often purchasing multiple units and contributing a stable secondary revenue stream.

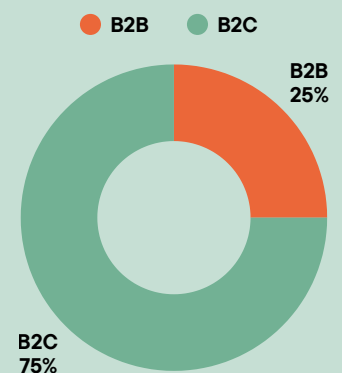


Chart. Business Segment Distribution

IMPACT

Environmental

- 60,000 tCO₂e reduced
- 42,666 tonnes of firewood saved, easing pressure on Himalayan forests

Households & People

- 8,722 households using clean heating
- 35,000–44,000 people positively impacted

Social

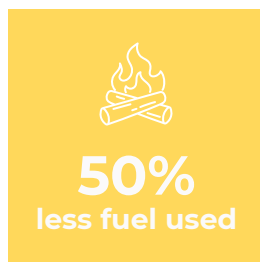
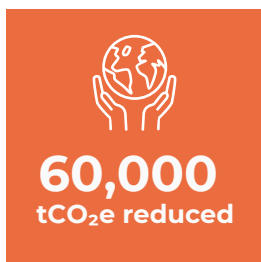
- Lower indoor smoke and improved respiratory health
- Reduced fuelwood collection and women's drudgery

Economic

- Major savings on winter firewood expenses
- 50% less fuel and faster heating

Livelihoods

- Jobs created in manufacturing, distribution, installation, and servicing



Way Forward



Himalayan Rocket Stove aims to scale its clean-heating solutions across the Himalayas and neighbouring cold-climate regions while addressing affordability barriers, difficult terrain, and behavioural adoption challenges. With strong sales growth and demonstrated climate impact (60,000 tCO₂e reduced and 60,000 tonnes of wood saved), HRS now seeks strategic partnerships to expand manufacturing, roll out new technologies such as pellet feeders and community cook stations, and increase access for low-income households. To enable this scale-up, HRS requires investment capital, subsidy/EMI mechanisms, government-NGO collaborations, impact/CSR partnerships, R&D support, and a strengthened distribution and service network.



Alignment with SDG Goals



CONTACT

-  support@thecleannetwork.org
-  info@himalayanrocketstove.com