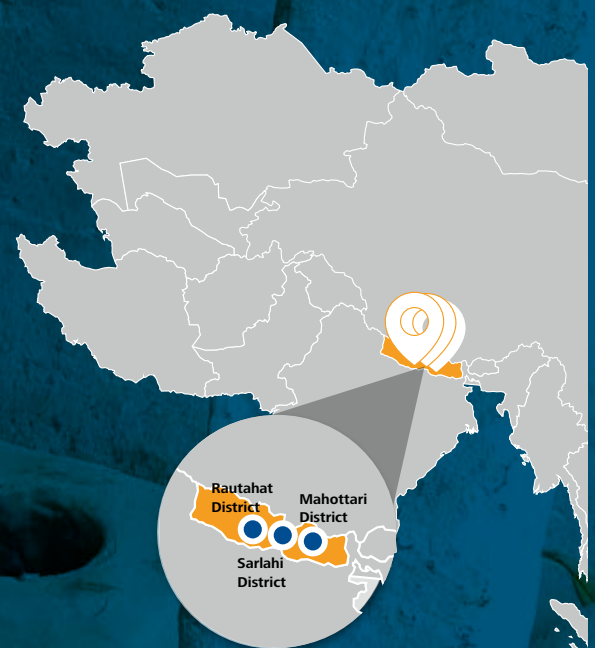




IMPROVED COOKING ROCKET STOVES NEPAL

**Uplifting marginalised social groups with
healthier, more efficient cooking technology**



This project distributes modern, improved cooking stoves to socially marginalised groups in southeast Nepal in the districts of Rautahat, Sarlahi and Mahottari. The stoves offer a clean cooking solution for households in these communities, improving health, reducing greenhouse gas emissions, conserving local forests, and accelerating gender equality.

The Context

Nepal is a mountainous country with challenging topographical and socio-economic conditions. A quarter of its population live below the poverty line, with Dalits – or ‘untouchables’, the lowest social strata in Nepal’s prevailing centuries-old caste system – being particularly disenfranchised. Besides economic poverty, these groups lack modern energy services for household cooking and rely on inefficient, health-harming open fire stoves.

The Project

This improved cooking stoves (ICS) project services marginalised Dalits and the Janajatis indigenous minority living in Central Tarai, a region of Nepal below the southern Himalayan foothills where populations rely heavily on solid biomass fuel for cooking. The ICSs follow the Aprovecho Institute’s mud-brick rocket stove design, featuring an L-shaped combustion chamber and pot “skirt” that improves both heat transfer and combustion efficiency. Wood is fed horizontally into the fuel chamber where an internal chimney creates a draft that accelerates combustion. Gases are then forced through the skirt surrounding the cookpot. As the rocket stoves allow for complete fuel combustion, air pollution is minimised for a smoke-free kitchen.

The Benefits

As well as lowering emissions, the rocket stoves allow for complete fuel combustion, minimising air pollution for a healthier, smoke-free kitchen which improves household health. Being more efficient, the ICSs also require up to 50% less woodfuel, which alleviates deforestation pressures on nearby ecosystems. The project also creates employment for local men and women, who are trained by the project proponent on stove installation and construction.

The rocket stoves have the potential to cut firewood consumption in half, both reducing the time needed to collect firewood and easing deforestation pressures on Nepal’s dwindling forest stocks.



Improved household health

as the rocket stove design allows for total fuel combustion, minimising indoor smoke pollution



Women

are the primary beneficiaries of healthier kitchen environments, and also receive employment opportunities in stove marketing and construction



50,000 ICS

will be distributed by the project and provide marginalised families with a modern, more efficient method of creating energy for cooking



Job opportunities

afforded to local community members in ICS marketing, construction and maintenance



70,317 tCO₂e

mitigated on average annually by the project over its five year crediting period



Up to 50% less wood

needed by the ICSs, reducing deforestation pressures on surrounding forest ecosystems

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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