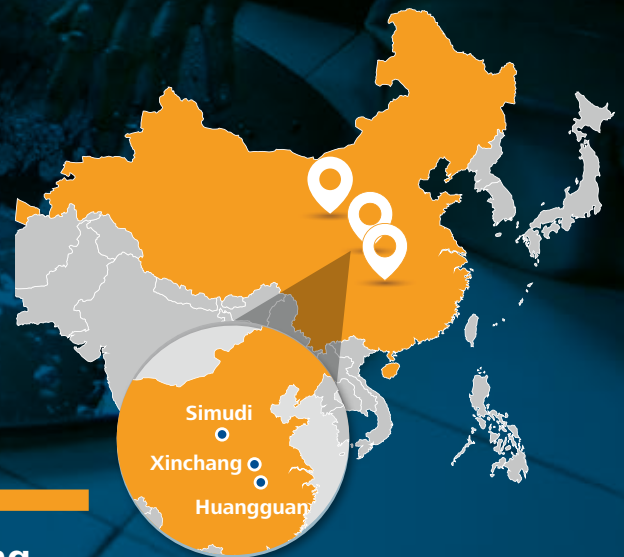


HUANGGUANSHAN NATURE RESERVE EFFICIENT COOKSTOVES CHINA



Protecting giant panda habitat and improving health for Central China's mountain communities

This project in Shaanxi Province replaces low-efficiency, fixed cookstoves in hundreds of homes near Huangguanshan Nature Reserve in Ningshan County, relieving deforestation pressures on nearby giant panda habitat. Local life is also ameliorated, as communities enjoy healthier kitchen environments with decreased indoor smoke and spend less time collecting woodfuel.



The Context

For China's most isolated communities, forest ecosystems remain a primary source of woodfuel for cooking and heating on inefficient stoves, which also expose families to toxic indoor air pollution. For decades, the deep mountain communities of Shaanxi's Ningshan County in Central China have collected their woodfuel from the nearby Huangguanshan Nature Reserve, gradually degrading and encroaching on crucial giant panda habitat.

The Project

This project reconstructs or improves low-efficiency, built-in cookstoves to implement healthier, more sustainable cooking and heating practices in the Ningshan County towns of Huangguan, Xingchang and Simudi. The improved stoves are 148 cm x 76 cm x 78 cm in dimension, with a 3.5 metre high chimney that extends at least half a metre above the roof of the house. They are up to 70% more efficient, and normally contain two or three pots.

The Benefits

An established technology in China, high efficiency cookstoves use significantly less woodfuel to achieve the same results owing to their improved thermal efficiency. This promotes more sustainable resource use amongst communities, easing deforestation pressures on local giant panda habitat. The new stoves also feature chimneys that filter out toxic smoke, creating healthier kitchen environments, and the project alleviates much of the burden of wood chopping and collection. This frees up time for local residents to focus on more productive tasks, like looking after children or working for income.

According to the WWF, giant panda populations are increasing – the 2014 panda census identified 1,864, up from just 1,000 in the 1970s. Despite this, the giant panda remains one of the rarest, most vulnerable bears in the world, so habitat preservation is key.



1,379
efficient
cookstoves

installed in households, providing a more sustainable energy source to local communities for cooking and heating



8,107
tCO₂e

mitigated on average annually, by more efficient resource use



40-70%
less wood

required by the efficient cookstoves, alleviating deforestation pressures on surrounding giant panda habitat in the Huangguanshan Nature Reserve

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

Official name: WWF Ningshan County High Efficient Cook Stove Project | **Markit link:** https://mer.markit.com/br-reg/public/project.jsp?project_id=103000000004183 | **Markit ID:** 103000000004183

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