

CHINA

January 2010

D-Lab: Dev Fall '09



- Cleaner Fuel Source
- Sanitation
- IAP and Health



 Women in Tibet lack warm gloves for collecting wood, dung, and water. In Tibet's below-freezing temperatures, this can lead to arthritis.



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- Flexible
- Water Proof
- Warm
- Durable
- Cheap



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China – Qinghai Province

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FELTED WOOL

Meets these criteria

- Requirements
 - YAK Wool
 - Basic Water
 - Agitation
 - Heat











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- Detect
- Transmit
- Educate
- Share



Community Assessment

Sensors

- Transmission Module
- Base Station

Power

Stove Project

- Tibetan life revolves around the stove
 - Inefficient Stoves...
 - Produce harmful smoke
 - Consume too much fuel leading to
 - Deforestation
 - Wasted time spent searching for fuel
- How can I help tackle this issue?
 - Disseminate good stove-use practices
 - Develop quick-fixes to common problems using available materials
 - Study stoves to identify
 - Common stove features
 - Best practices
 - Areas for improvement



Improved Metal



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+ Carbon Offset Investigation



Project Goals

- Survey general household habits and use of burning yak dung
- Measure greenhouse gas emissions for these activities, and calculate the cumulative footprint.
- Survey the emissions for implemented solar cookers, and improved cleaner burning stoves
- Create a preliminary report quantifying the carbon offsetting potential
- Foundation for potential future goals:
 - Transitioning as a possible Clean Development Mechanism project
 - Report can spark further detailed analysis of carbon offsetting, and eventual Certified Emissions Reductions climate credit (under Kyoto Protocol)
 - Provide funding for the perpetuation of more solar cooker and improved stove projects in Qinghai

Contact

- Trip Leaders:
 - Scot Frank
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- Group Members:
 - James White
 - Zachary Cordero
 - Three anonymous students

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