



CHINA

January 2010

D-Lab: Dev
Fall '09

+ Projects

- Cleaner Fuel Source
- Sanitation
- IAP and Health



Glove Project

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

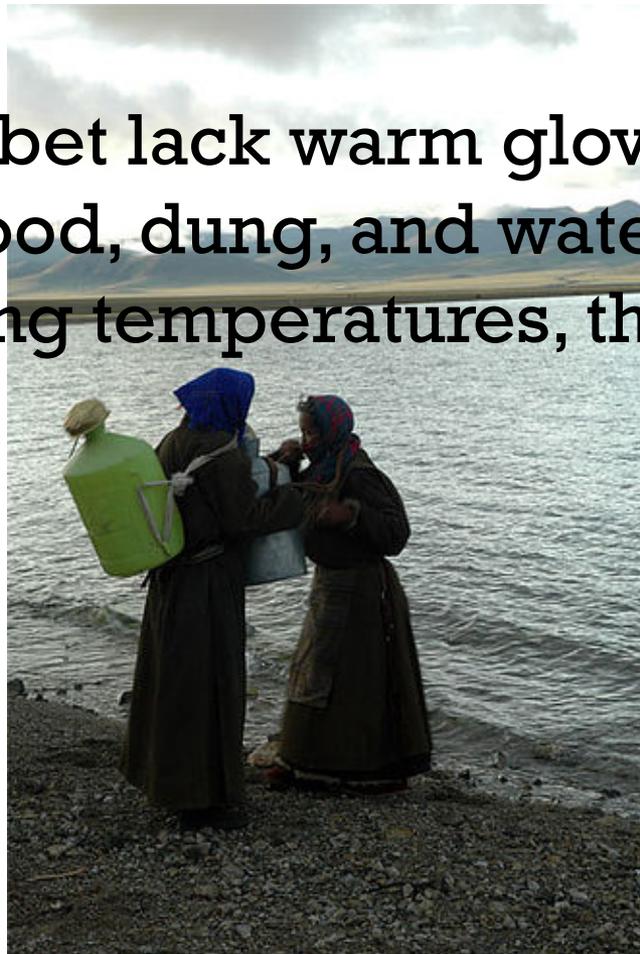


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+ Glove Criteria

- Flexible
- Water Proof
- Warm
- Durable
- Cheap



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+ FELTED WOOL

Meets these criteria

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



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+ Why Sensors

- Detect
- Transmit
- Educate
- Share

+ How

- 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



Traditional Mud

+

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

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 - Jasmine Tillu
- Group Members:
 - James White
 - Zachary Cordero
 - Three anonymous students

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