

Global Himalayan Expedition

Lighting up the Roof of the World





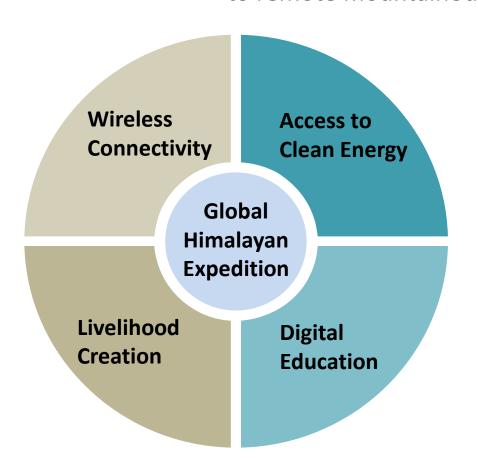




Core Objective

Global Himalayan Expedition leverages tourism and technology to provide

Clean Energy, Digital Education, Livelihood Creation, and Wireless Connectivity to remote mountainous communities







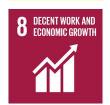




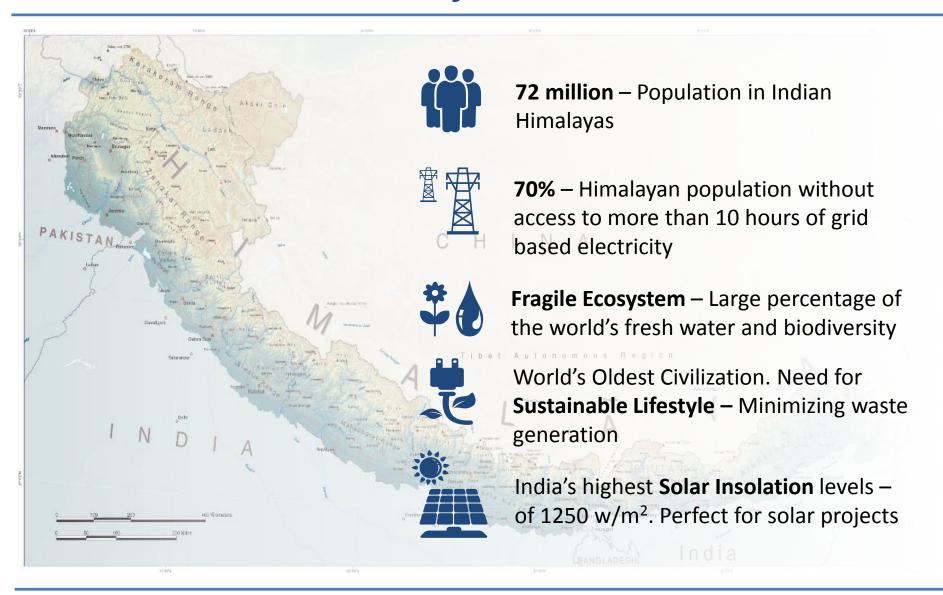








The Himalayan Situation



DC Solar Microgrids (250W – 500W)



GHE's Sustainable Solution



Impact Expeditions



Village Electrification



Village Solar Homestays

- Impact expeditions to electrify remote villages with support from Tourists
- Team of 10-20 people as part of expedition
- Promotes the theme of responsible leadership and sustainable tourism among the participants.

- Setup DC solar microgrids to provide electrification to remote off grid villages
- Removal of Subsidized
 Kerosene Oil from their lives
- Capacity development of Youth to become skilled and maintain these solar projects for various unelectrified villages

- Develop the homes of villagers for tourists to stay.
- Conduct village immersion tours for tourists to experience local culture
- Results in income generation for the village community and promotes entrepreneurship at village level

- 1 Identify remote off-beat communities lacking basic infrastructure
- 2 Conduct surveys for solution design and community mobilization
- Impact expeditions to remote villages and setup social infrastructure
- Create a model of sustainability and ownership among community
- **5** Promote remote destinations as tourist hotspots

1

Identify remote off-beat communities lacking basic infrastructure

We search villages through local contacts as there is no database or survey conducted due to their in-accessibility. The team treks sometimes for 5-6 days to reach Villages or need to drive on un-motorable roads



2

Conduct surveys for solution design and community mobilization

It's important to have the community as well local leadership buy in before implementing the Solar microgrid. The process also includes educating villagers on the benefits of using Solar and its long term affect





3

Impact expeditions to remote villages and setup social infrastructure









3

Impact expeditions to remote villages and setup social infrastructure





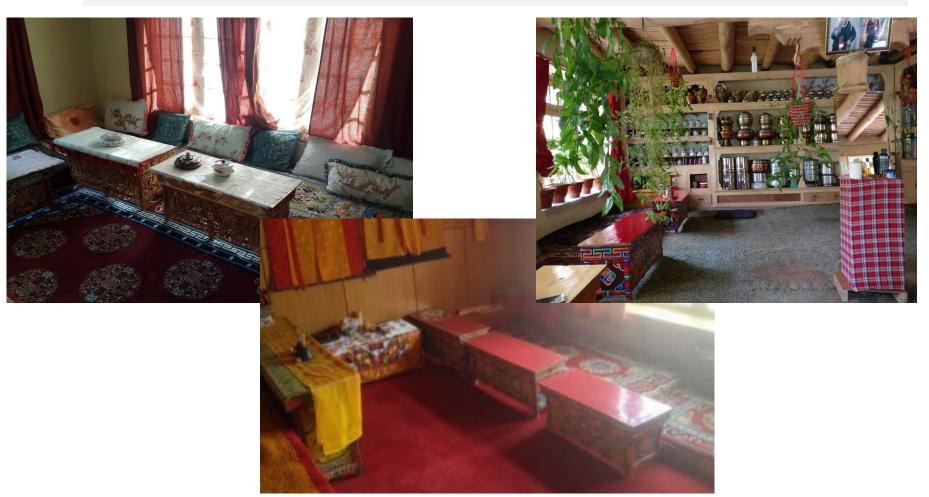


Create a model of sustainability and ownership among community

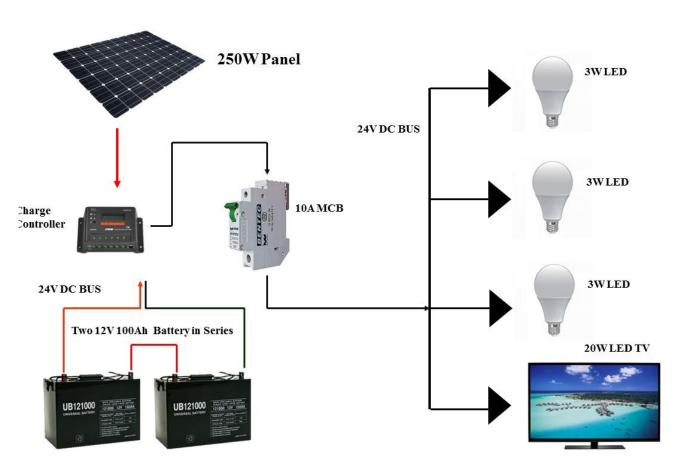




Promote remote destinations as tourist hotspots



Energy Efficient DC Appliances







Impact of Energy Efficiency



A 3W LED Light – 330 Lumens



Women Electricians





Women run service centre



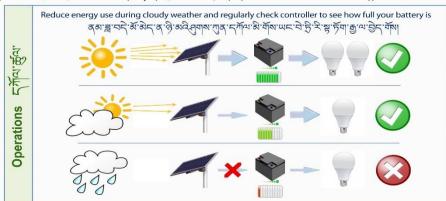


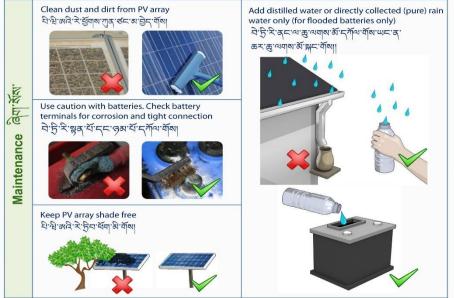
STEPS TO TROUBLESHOOT MICROGRID

क्षवायाग्री क्रियाक्ष्रीं राख्याची क्षिया क्षेत्र क्षेत्र गाव पर्ट हिया यदि क्षेत्र गा









Women empowerment – Mountain Homestays

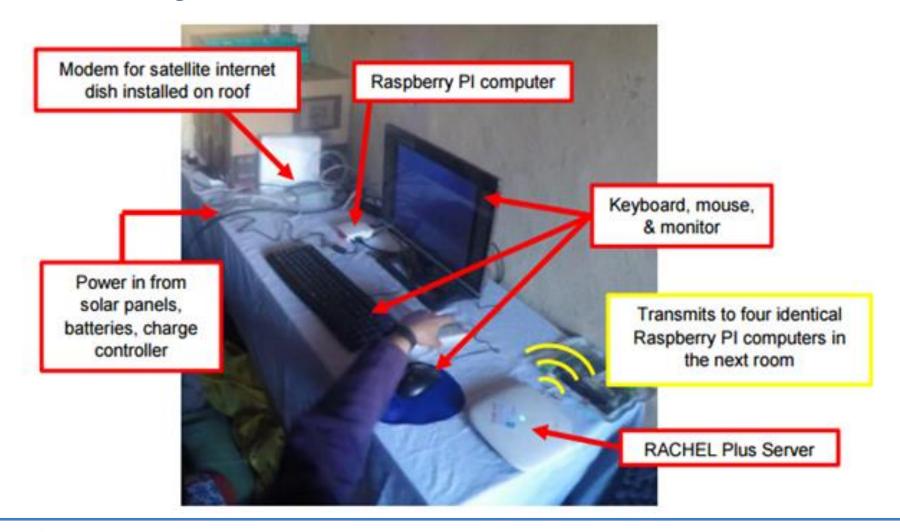
- Additional income for the family through homestays
- Better sanitation and living standards
- Engaging in economic activities of the household
- Motivation to make Pashmina and other woolen artifacts







Low Power Digital Education Centre







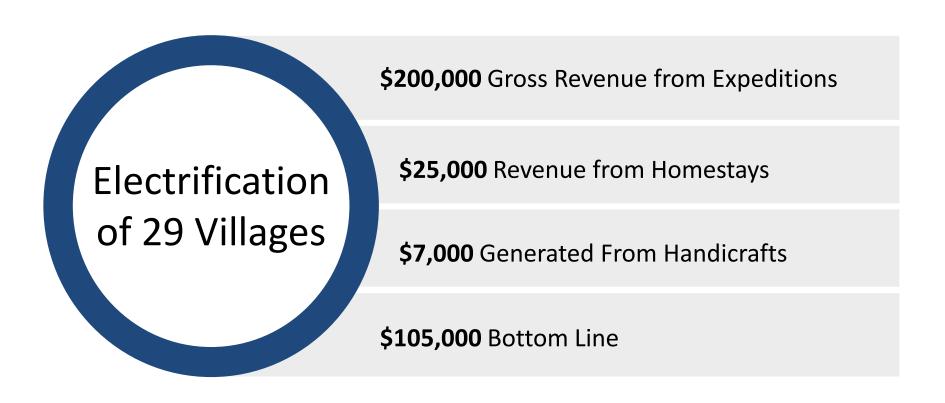


Internet of Things ("IoT") enabled metering and Data Collection



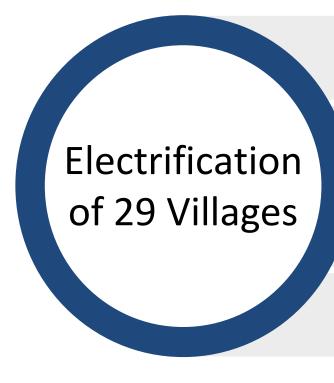
- Mobile based data connectivity directly with Solar Charge controller
- Solar Charge controller communicates with individual Meters
- Mesh Network to upload Tourists data onto the server and transfer it on the device whenever connected

GHE Impact & Performance



* 2x returns from every Impact Expedition

GHE Impact & Performance



15,500 Lives Impacted

Established **20** Woman Entrepreneurs

1,000 Student Lives Impacted

175 Tons of CO² Eliminated

- 200 Tourists Impacted 15,500 Lives
- 1 Tourist Impacts 7 Lives Directly
- 1 Tourist Impact 35 Lives Indirectly

Aspirational Loads

December 2014







August 2016





Marketing Strategy



Social Media - Promote the impact expeditions and disseminate information on technological innovations to increase impact



GHE has partnered with media houses such as Nat Geo to show GHE's work. Airing of our documentaries have bought in huge traction and interests from around the world



For sustained revenue, GHE is institutionalising the initiative with corporates and universities that brings in constant revenue for a longer period



Commercialisation of energy efficient DC products that have been designed by GHE for the market that is within as well as outside India

Core Team



Paras Loomba Founder



Gaganpreet Singh Homestays Leader



Michiel RoodenburgProject Finance Leader



Jaideep Bansal Energy Access Leader

Strategic Partnerships













Future Plans (Next 5 Years)

Increase **Existing Programs**

- 100 Electrified Villages in Himalayas
- 100 Impact Expeditions
- Develop Homestays
- Increase in rural handicrafts and education programs
- Quality Digital education

Develop Team and Technology

- Grow Core Team to 10 people
- Refine payment mechanisms and software
- Increase in efficient microgrid systems supporting multiple rural applications

Global Expansion

 Based on lessons learned by GHE in India, expand to the following countries:

Peru, Kazakhstan, Ecuador, Nepal, Bolivia, Ghana, Cameroon, Liberia

Investment Required: US \$ 2 million

1400 Year old Lingshed Monastery – 14000ft



Let there be Light!



Thank You!

Contact Details:

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