



Annual Impact Report 2023

10 Year. 1 Mission





“Over the past decade, GHE has undergone a remarkable transformation. What **started as a trekking expedition outfit** has evolved into a **thriving social enterprise**. Our journey now involves turning remote and rural communities into promising Green destinations. As we step into the next decade, GHE carries a dream to inspire the world to envision a **more connected future**. Our belief drives us to explore the unknowns that still exist out there, seeking opportunities for positive change.”

-Paras Loomba, Founder

THE JOURNEY OF 10 YEARS

3,700

Households Electrified

Transition from fossil
fuels to clean energy

5,35,000

Lives Impacted

Through various initiatives
over the past decade

1600

Villages impacted

Transitioning to Eco
Friendly solutions
for daily needs

43

Green Destinations

Created through
sustainable development
efforts

177

Micro Enterprises

Created through Responsible
tourism and solar value linkage

175,000
Carbon Reduced

Through 70,000 improvised
cookstoves for remote
communities

Timeline

2013

GHE Founded

First Solar Powered Digital Education Base setup in Ladakh (Third Pole)

2014

First Village Electrification

First Village electrified through DC Solar Microgrids through an expedition

2016

Electrofocation of Villages

15 Villages Solar Electrified
2 Schools Solar Powered
30 Homestay owners Trained

2018

Holistic Impact

53 Villages Solar Electrified
15 Schools Solar Powered
35 Homestays Setup

2020

Health Access introduced

110 Villages Electrified
Operational in 3 states
5 Health Centres Upgraded

2023

1600 Climate Resilient Villages

535,000 Lives Impacted
910kW Solar Power Installed
100 Eco Destinations Developed
23 Health Centres Upgraded
70,000 Clean Cookstoves Deployed
1M Tons of CO2 emissions removed

2026

6000 Climate Resilient Villages

2.5 Million Lives to be impacted
2 MW Distributed Solar
300 Eco Destinations
100 Remote Health Centres
300,000 Clean Cookstoves



2023

BY THE NUMBERS

180,000

Lives impacted

\$56,000

Revenue generated by the
community through Homestays

40,000

Improvised cookstoves deployed
across 650 Villages

450

Households transitioned to
Clean Solar Energy

350

Entrepreneurs Trained

2500

Travellers hosted in Eco-
Friendly Homestays

12

Primary Health Centers
strengthened

126

Solar Water Heaters installed
in Ladakh (Himalayas)

130,000

Tons of Carbon Reduced
Annually through Projects

IMPACT PORTFOLIO

Energy Access

Integrating off grid electrification with healthcare, digital education, and clean cooking solutions, empowering remote communities with comprehensive solutions for a brighter, healthier future.

Sustainable Tourism

Advocating for Sustainable Tourism by facilitating cultural exchange through Homestays and promoting Astro Tourism, aiming to create a travel paradigm that explores, enhances local well-being, and contributes to an enriching experience for travellers.

Skill & Capacity Development

Empowering remote communities through handicraft support, local LED assembly, and solar trainings, fostering sustainable livelihoods and contributing to a skilled and resilient local workforce.

"GHE is on a mission to create a more equitable world. **Picture this:** We're like explorers armed with the potent tools of **clean energy technologies and sustainable tourism**, navigating uncharted territories with a burning desire to make a real difference in the lives of rural communities. It's not just about development; it's about bringing **warmth and positive change** to people's lives. Our journey is fueled by a strong belief that by embracing clean energy and sustainable tourism, we can create a better, more balanced world for everyone"

-Jaideep Bansal, CEO

Energy Access

Solar Microgrids installed at an individual household level

Household Electrification

Clean Energy Access

Clean Cooking Solutions

Healthcare and Education Access

Improved cookstove deployed to reduce firewood consumption by 50%

Strengthening the healthcare facilities and schools in remote regions with Solar power

Off Grid Electrification

GHE's work on **off-grid electrification** stands as a significant step towards empowerment, paving the way for more vibrant futures and sustainable development in the distant corners of India. Whether it involves trekking for multiple days, crossing mountain passes, or navigating jungles, the team has diligently connected with **remote communities by harnessing the potential of clean solar energy**. Beyond simply illuminating homes, this access to reliable energy has initiated transformative shifts and positively impacted the quality of life. It goes beyond providing a light bulb; it's about exploring how this access can contribute to the overall development of rural communities.



Impact Snapshot

280

Villages Electrified
across 3 Geographies

75

Electrical Engineers
Trained

0.91

MegaWatt of Solar
Power Installed

Healthcare Upgradation

Dedicated to enhancing access to healthcare, GHE is introducing reliable solar energy to health centers located in remote partners of India. Currently, numerous health centers in rural regions of India lack basic energy and equipment. With solar power, GHE is transforming how healthcare is provided, addressing **energy shortages**. Prioritizing the installation of **vital medical equipment**, GHE ensures these centers are fully prepared to deliver essential services and manage childbirths. By incorporating intelligent **diagnostic tools and supporting life-saving equipment**, has resulted in an improvement in healthcare accessibility and positive outcomes for the communities committed to serving.



Impact Snapshot

23

Primary Health
Centers Upgraded

125,000

People have access to
better medical facilities

70%

Improvement in
Patient Care

Clean Cooking Solutions

GHE strives to **fulfill SDG 7** by promoting holistic Clean Energy solutions, encompassing Solar Energy and Clean Cooking. Many rural households rely on traditional cooking, stressing natural forests. Introducing **efficient, eco-friendly clean cooking technologies** minimizes health risks and environmental impact. This comprehensive approach ensures healthier living spaces and overall family well-being. GHE's adoption of **clean cooking** makes a direct impact on health and the environment, enhancing community resilience.



Impact Snapshot

70,000

Improvised Cookstoves
Deployed

175,000

Tonnes of Carbon
Emissions reduced
annually

350,000

Lives Impacted through
the Intervention

Digital Education Access

By harnessing the potential of clean solar energy, GHE bridges the digital divide and empowers communities with transformative educational opportunities. Our initiatives involve the setup of **solar-powered digital education centers**, ensuring that even in the most remote regions, individuals have access to **cutting-edge learning resources**. Through the synergy of solar power and digital education, we not only illuminate minds but also pave the way for a **brighter and more equitable future**, where knowledge becomes a catalyst for sustainable development in every corner we reach.



Impact Snapshot

27

Digital Classrooms
Setup

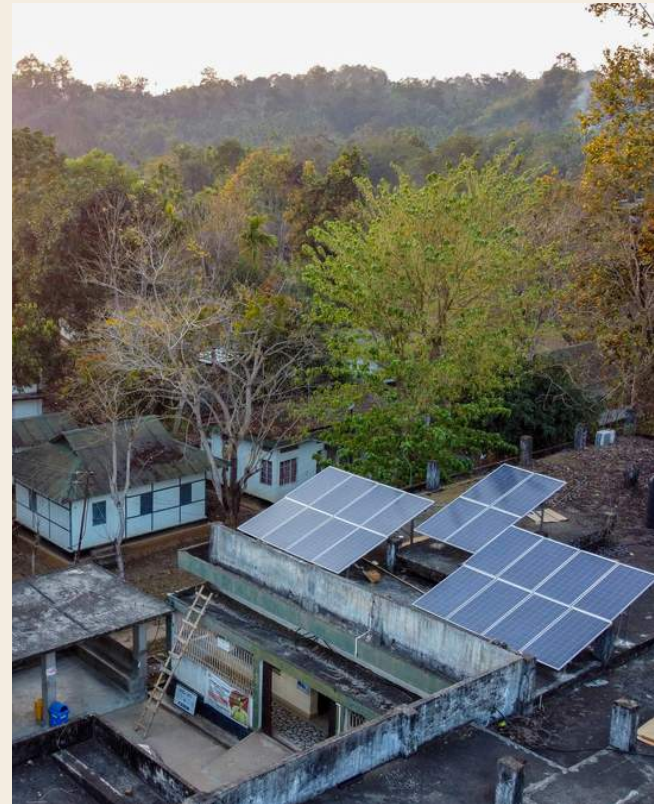
7,000

Students have access to
Digital Education

52.5

kW of Solar Power
Installed

Energy Access Snapshots



Sustainable Tourism

Setting up Eco-friendly
accomodations in
offbeat destinations

Homestay
Tourism

Livelihood
Access

Impact
Expeditions

Astrotourism

Enabling travellers to leave an
impact on the community they
travel to

Training the youth for
hospitality, electrical work,
handicraft, etc.

Impact Expeditions

GHE's **Impact Expeditions** stand as transformative journeys that transcend the conventional travel experience. These expeditions are immersive encounters designed to leave a **lasting positive impact** on both travelers and the communities they visit. Whether it's installing solar electrification in remote villages or empowering local youth through skill development, GHE's Impact Expeditions **redefine the travel narrative**. Participants not only witness the beauty of diverse landscapes but actively contribute to the well-being of the regions they traverse, creating a meaningful and sustainable legacy with each expedition.



Impact Snapshot

47

Impact Expeditions
conducted

4300

Travellers Engaged

52,000

Villagers Impacted

Homestay Tourism

GHE has played a pivotal role in advancing homestay development and rural tourism, making a significant economic impact on remote communities. Establishing over **100 solar-powered homestays** in Ladakh in the past decade, GHE provides not only immersive travel experiences but also highlights the sustainable lifestyles of Himalayan communities. In 2023, Ladakh's homestays generated over \$100,000 in revenue, showcasing their **economic significance**. GHE's distinctive approach involves integrating community engagement with tourism, enabling participants to **actively enhance local homestays**, promote sustainable practices, and preserve the cultural heritage of these regions.



Impact Snapshot

120

Homestay Owners
Trained

\$ 100,000

Community Income through
Homestays

3500

Travellers hosted

Community Astrotourism

GHE's **community based Astrotourism Initiative - AstroStays & Cosmohub** has been a transformative force that invites travelers to experience the **mesmerizing night skies of remote village of Himalayas**. The unique model integrates traditional wisdom, cultural richness, allowing communities to showcase their distinct heritage while fostering economic opportunities. Visitors are not just stargazers; they become integral contributors to the local economy, engaging in homestays, and supporting sustainable practices. AstroStays' **community-based astrotourism** doesn't merely observe the stars; but also creates a harmonious and mutually beneficial relationship between travelers and the communities they explore.



Impact Snapshot

8

Women Entrepreneurs
supported

\$ 6,500

Income Generated
through Cosmohub

83

Stargazing Sessions
Conducted

Sustainable Tourism Snapshots



Skill and Capacity Development

**Stargazing based Cultural Community
Space run by local women**

Solar Training

**Capacity
Development**

Handicraft

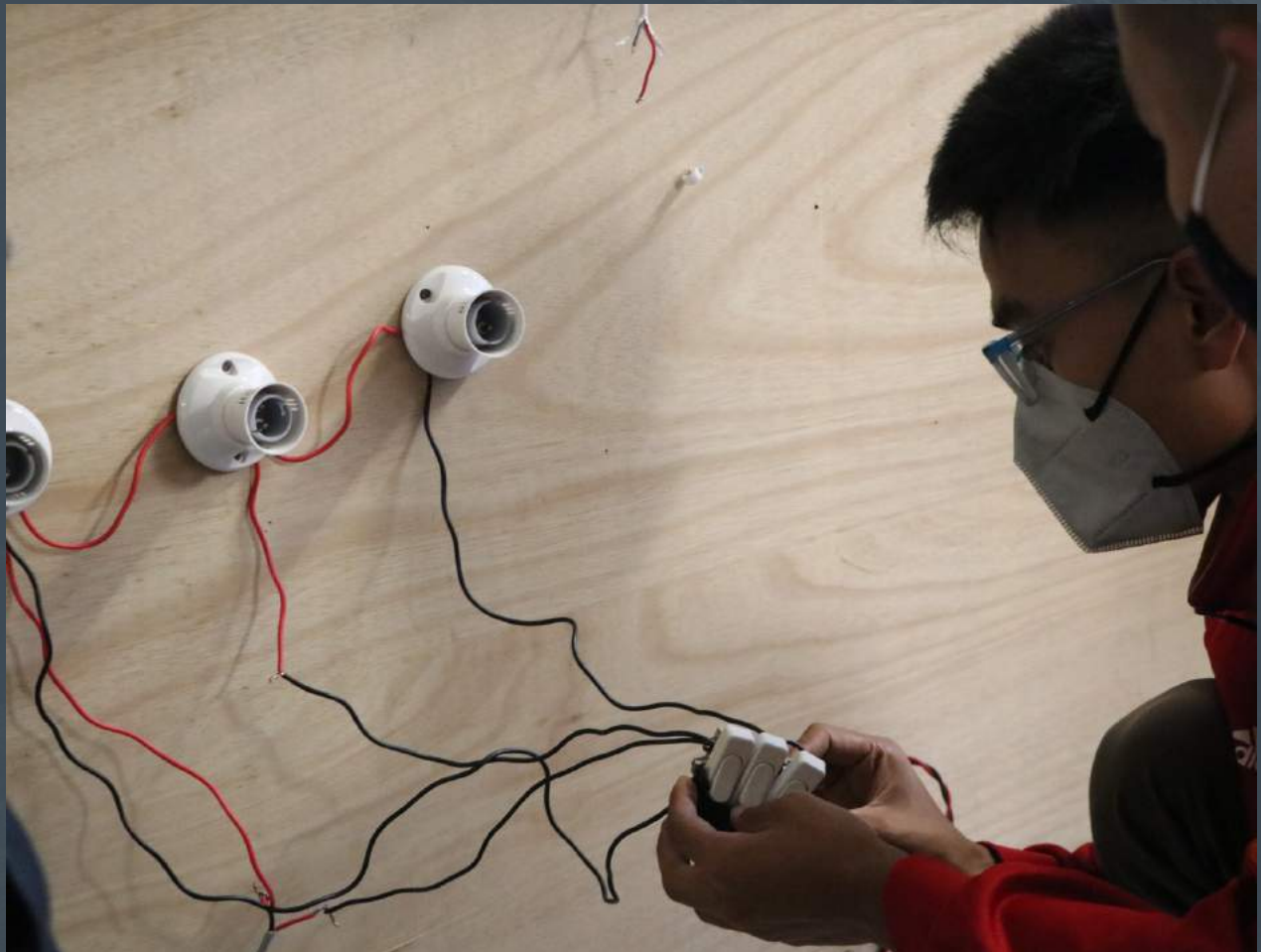
**LED Assembly
Line**

**Enabling local women to capitalise
on the home grown Pashmina and
creating market ready products**

**Bringing self sustenance in a
community for its energy needs**

Solar Skilling

Through targeted training programs, GHE equips young individuals with the skills needed to install, maintain, and **utilize solar technologies**. This not only **addresses unemployment** but also creates a skilled workforce capable of driving the renewable energy transition. By providing practical knowledge in solar applications, we empower unskilled youth to become catalysts for change, **fostering economic independence** and contributing to the widespread adoption of clean energy solutions in their communities. Our commitment to solar training reflects our dedication to building a skilled and sustainable future for the unskilled youth we engage.



Impact Snapshot

320

Youth Trained

15

Women Engineers
Trained

3700

Microgrids Installed

Pashmina- Handicraft

Our initiatives focus on creating essential infrastructure to support women artisans, providing them with the tools and resources needed to craft high-quality products. By establishing workshops and weaving centers, we not only **safeguard the cultural heritage of Pashmina** but also empower women to become skilled entrepreneurs. This holistic approach not only ensures the **sustainability of a cherished craft** but also contributes to the economic empowerment of the talented women in Ladakh. Through the intersection of **infrastructure development and artisanal support**, we strive to foster a thriving ecosystem for Pashmina craftsmanship, preserving its legacy for generations to come.



Impact Snapshot

25

Women Empowered

\$ 4000

Revenue generated
through handicraft sales

43

Pashmina Products
Designed

Local LED Assembly

This initiative strives to forge a **sustainable trajectory** for young individuals through training and employment in the assembly and manufacturing of LED bulbs, emphasizing energy efficiency. Beyond **tackling unemployment**, the setup advocates for environmentally friendly lighting solutions. Empowering youth with technical skills and nurturing entrepreneurship not only illuminates homes but also enhances the future prospects of talented individuals in Meghalaya. Our dedication to the LED bulb assembly line underscores our commitment to **harnessing technology** for **economic growth** and **environmental sustainability**. In doing so, we contribute to a brighter and prosperous future for the region's youth..



Impact Snapshot

15

Youth Employed

10,000

Monthly LED Production
Capacity

25

Entrepreneurs Trained

Capacity Development Snapshots





Mapping SDGs

with Key Interventions

	<p>Improved electricity access has positively transformed households, enhancing lighting, and overall living conditions.</p>		
	<p>Enhancing women's income through livelihood opportunities, businesses, crafts, and agriculture, fostering growth.</p>		
	<p>Students now have the essential infrastructure and conditions to improve their education, including digital literacy.</p>		
	<p>Reducing Carbon Emissions by introducing clean energy based solutions for the everyday needs of rural communities</p>		
	<p>Electricity has enabled the creation of micro-enterprises, vocational trainings, and income diversification</p>		
	<p>Clean cooking solutions have enabled the communities to be aware of the impact of their daily activities on climate change.</p>		
	<p>Health Centers are now better equipped to provide medical facilities to the communities.</p>		
	<p>Introducing innovative ways of leveraging travel to bring in development in the remote communities of the mountains</p>		

Enabling the remotest communities with access to technology and sustainable development

Recognitions



United Nations
Framework Convention on
Climate Change



MOMENTUM
FOR CHANGE

United Nations Global Climate Action Awards-2020 Winner



Isto

First Non-Member
Winner in 2022



UNWTO
World Tourism Organization

Recognised as
World's Leading
Social Enterprise



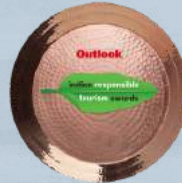
Best Start-up in
Tourism- 2019



SKÅL

INTERNATIONAL
Connecting Tourism Globally

Tour Operators -
Travel Agents Award
Winner -2020



Outlook
Responsible
Tourism Award
Winner

MICROGRID
KNOWLEDGE™

2022 Greater
Good Awards
Winner



Booking.com
booster

Booking.com's
2018 Accelerator
Programme- Winner



ADVENTURE TOUR OPERATORS
ASSOCIATION OF INDIA

Sustainability
Champion
2023



Tomorrow for
Tourism Award
Winner -2018

Featured By



Our Partners



Infosys

TATA COMMUNICATIONS

AON



ROYAL ENFIELD



ICICI Bank

CAF
India



TrailAngels
THE WAY BEYOND



10 Year 1 Mission

info@ghe.co.in
www.ghe.co.in

