



Lesson Plan **AFFORDABLE & CLEAN ENERGY**

Time Allocation

60 mins



Age Range

10-14

“Exploring is the driving force behind humankind.” Kate Leeming

Learning Outcomes:

- To understand what renewable energy is and how it compares to non-renewable energy
- To explore the advantages of renewable energy

<https://www.globalgoals.org/>

LEARN

A billion people still live in darkness around the world without access to energy. No access to energy is the primary reason of poverty. Kate is also working with her partners and [Global Himalayan Expedition](#) and [Karibu Safari](#) (Namibia) to bring light, education and economic empowerment to the poor, sparsely populated region of north-western Namibia. Firstly, they will set up a pilot project in Purros village. Global Himalayan Expedition (GHE) leverages tourism to provide clean energy access through solar power for remote unelectrified off-grid communities around the world. To make this possible GHE organises impact expeditions to isolated villages where tourists, as part of their trip, not only experience the beauty and culture of the region, they also help set up solar micro-grids to bring communities out from centuries of darkness. In 2018 Kate joined one of GHE’s projects in Ladakh in the Indian Himalaya as part of her Breaking the Cycle in Ladakh expedition. The passionate team led by Paras Loomba (founder) and Jaideep Bansal (COO) recently received a World Tourism Award for its work in sustainable tourism in remote locations. GHE, who has so far electrified 81 villages and built nine digital education centres, is starting to expand globally, Namibia being one of the first countries selected due to Kate’s connection and vision.

This lesson focuses on SDG # 7 Affordable & Clean Energy

What is this goal all about?

<http://bit.ly/2VRBu9n> Global Goals



Goal-ensure access to affordable, reliable, sustainable and modern energy for all.



Breaking the Cycle Education – Namibia Expedition

THINK

Activity: What are renewable resources?

In pairs list three natural (renewable resources) and how we use them in everyday life.

Think of all the forms of energy we use throughout our day.

Create a Venn diagram showing renewable / non-renewable uses for energy for everyday activities

e.g. drying clothes- electric dryer or sunshine

transport to school- walking- driving a car

Share with the class

Activity: Give students access to explore the Global Himalayan Expedition website

<https://www.ghe.co.in/>

5 W's

Students create a double page displaying the 5 W's of their reading about GHE.

What? When? Where? Why? When? Who?

Extension activity: What is sustainable tourism? Research and share your findings and one example with your classmates.

FEEL:

Sometimes if you go camping to live without electricity is a novelty and fun for a few days. Imagine doing this every day- what would you do? How would your day change?

ACT:

- Turn off your air conditioning, especially for sleeping – open a window or use a fan.
- Turn off the lights when you're not using them.
- Buy rechargeable electronics. Don't buy or use one-use batteries.
- Use solar energy sources. Install solar panels in your home for your heating and electricity. Use solar technology – radio, charger, lights etc...
- Design a renewable energy campaign for your school. This could be in the form of posters, presentations to leadership team, lunchtime action club, assembly presentation.



Breaking the Cycle Education – Namibia Expedition

Conclusion Activity: Invite students to share their ideas on this lesson on Flipgrid



<https://flipgrid.com/7a67ec20>

Add yourself to the map on the Home Page <http://www.breakingthecycle.education>