

Heifer Invests in Renewable Energy for Lasting Impact

Why invest in renewable energy?

To achieve:

- ▶ Strengthened resilience within farmer communities through reliable energy sources for irrigation, processing and storage.
- ▶ Scalable food systems that boost economies without harming the environment.
- ▶ Healthy ecosystems for a thriving planet with reduced pollution and chemicals.

Reliable, affordable and clean energy is a lifeline for smallholder farmers, helping them grow their farms, withstand climate challenges and transform food systems sustainably. Energy isn't just about boosting crop yields; it's crucial for processing, storing and delivering products to market. Just as low-cost energy has powered economic growth in developed countries, investment in renewable energy could empower smallholder farmers to increase their productivity and their income.

Renewable energy offers an eco-friendly and cost-effective solution, empowering farmers to thrive while preserving our planet. Replacing the expensive, polluting fuels, such as diesel with renewable energy reduces farmers' costs, lowers greenhouse gas emissions and helps them withstand climate shocks.

Heifer has already made significant progress by integrating renewable energy into its programs. Diverse renewable energy solutions have been successfully implemented in 16 of the 18 countries where the organization operates. Additional innovative projects are currently underway, reinforcing Heifer's commitment to empowering smallholder farmers and safeguarding the planet through sustainable energy.

Together, renewable energy can create a stronger, more resilient future for farmers and the environment.

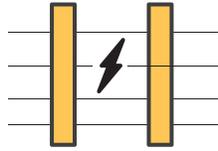


Clockwise from top left: Solar panels in Cambodia power irrigation pumps and provide reliable water for various farming and household needs; solar-powered cold storage in Tanzania increases profits and helps reduce post-harvest losses; a biodigester in Bangladesh produces cooking gas while reducing methane emissions from cattle; solar fencing in Honduras enables cattle to graze more flexibly, improving pasture management and livestock productivity; solar dryers in Mexico help coffee farmers produce quality products more consistently.

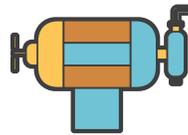
Heifer's Renewable Investments include:



150
Solar dryers



51
Solar fencing
installations



43
Solar water pumps
(5 more planned)



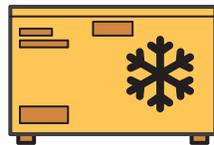
600
Solar lighting



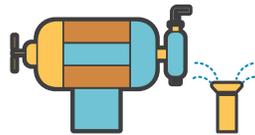
4,609
Solar home systems



4
Solar water heaters



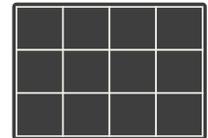
14
Solar-powered
cold rooms plus 57
refrigerators and
freezers



550
Large solar
irrigation pumps
(1,520 more planned)



6,133
Biodigesters
(105 more planned)



4
Large-scale solar for
dairy cooling
(4 more planned)

Looking Forward

Heifer is dedicated to expanding renewable energy solutions to farmers through its regenerative agriculture programs, drawing on decades of successful interventions and valuable lessons learned. Renewable energy helps smallholder farmers earn sustainable incomes by providing essential power for farming activities, including growing, processing, storing and distributing crops.

Each renewable energy solution will be carefully tailored to local farmer needs. Solutions will include clear guidelines for operation, maintenance and security, ensuring communities can manage and sustain their energy sources. Wherever possible, costly and polluting diesel and wood-fired generators will be replaced with clean, affordable renewable alternatives that directly involve and benefit the farmers.

Improved data collection and insights applied from Heifer's extensive farmer networks will inform the formulation of more effective strategies as well as attract investment. Ongoing support for off-grid appliance innovation will ensure technologies meet specific farmer needs, maintaining accessibility and affordability through collaboration with local partners.

Cross-sector partnerships between agriculture and energy stakeholders, including collaborations with groups, such as the Global Alliance for People and Planet and solar mini-grid developers, will be a priority. These alliances will aim to deliver renewable energy solutions tailored for productive agricultural use and explore additional income opportunities for farmers through initiatives like carbon financing.

Finally, Heifer commits to assessing its organizational energy and carbon footprint, implementing measures to reduce emissions and setting a leading example. Embedding renewable energy deeply into programs and operations positions Heifer to drive transformative, sustainable improvements for farmers and communities worldwide.

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