

Sustainable technology to fight the climate crisis



It starts on an African farm

Ripple Effect uses many simple sustainable techniques to help farming families combat the effects of the climate crisis. Here are just a few:



Keyhole gardens allow families to grow enough food for three meals a day – even in the face of the climate crisis.

The circular raised bed protects the soil from being washed away during heavy rain.

Compostable waste and used water from the kitchen is placed in the central basket to improve the soil.



Mandala gardens allow families to capture precious run-off water and grow a variety of vegetables.

They are round in design and found on slopes, capturing run off water in the centre, especially useful in the dry season.

Farmers often produce a high yield of crops all year round, helping with food security and generating income.



A sunken bed is dug deep into the ground and filled with organic matter. This keeps the moisture in the soil so the crops continue to grow, even during drought.

Farmers are able to grow a variety of nutritious food for their family to eat and to sell throughout the year.



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Trenches are dug to protect the deforested hillsides of Burundi. Trenches collect the rainwater, diverting it from the land below, ensuring that precious topsoil is not washed away in times of heavy rain. This technology ensures that the crops below will continue to thrive.



Trees can provide fruit and nuts that are packed with vitamins and nutrients to keep families healthy.

Planting trees can help prevent soil erosion and put important nutrients back into the soil making the land more fertile, ensuring families can produce a healthy crop for years to come.



An energy-saving super stove, built from natural materials such as clay, makes a home safer and protects the environment too. Traditional cooking fires can produce lots of smoke which is harmful to health.

The design of this stove directs smoke away from the cooking area so families can gather safely. Using two-thirds less fuel than traditional stoves, they prevent deforestation and free up the time it takes to collect wood.

rippleeffect.org/churches