Abstract

Today, 80% of the food we eat is grown by small farmers, Yet they lack access to reliable TECHNOLOGY, CAPACITY BUILDING and FINANCING to improve their productivity, efficiency, and sustainability.

Over 400 M small and medium farms worldwide are home to 1 bn of the world’s poorest and most food-insecure people. They manage more than 60% of the world’s areable lands and are the backbone or rural economies. They are an area of incredible potential economic and productivity growth.

Poverty, Food Security and Climate Change are humanities most pressing challenges and addressing these challenges will broadly depend on how we meet the challenges of the small farmer.

In India alone, there are more than 40 Million small and marginal Farmers who face challenges of low agriculture productivity and high input cost of chemical fertilizer, which also leads to poor soil health. On the other hand, in these families, woman needs to procure the firewood, which upon burning causes emission of hazardous smoke leading to various respiratory diseases. With our innovation, with only 2.5 buckets of animal manure, 4 hours of clean biogas can be generated and biofertilizer is generated as a by product which reduces the dependency on chemical fertilizer and increases farm productivity.

Sistema.bio is a leading social enterprise operating in India, Africa and Latin America, headquartered in Mexico City. Since 2010 we have installed over 4,500 award-winning digesters across four continents. Sistema.bio promotes a world where waste is a resource, and farmers are empowered and productive.

We design, manufacture and install biodigesters for small and medium scale farmers to convert their waste into economic, health and environmental benefits. We offer an innovative biodigester that receives the daily animal manure of a farm in which the manure is mixed with water and it is fermented, which produces biogas that is conducted through pipes to the point of use. At the other end of the system comes a powerful biofertilizer. Our hybrid reactor is fabricated with high quality geomembrane that is UV resistant. Piping and assemblies are made out of hydraulic and sanitary PVC, offering lifespan in the harsh conditions of the countryside, and easy access to replacements parts. Our Technology offers variety of sizes and requires minimum maintenance.

By the end of 2021, our goal is to install biodigesters for over 200,000 people in 15 countries where they lack access to clean, renewable and cost-effective energy.

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