

## RESEARCH AND DEVELOPMENT FUND PROJECT SPOTLIGHT

# VILLAGE INFRASTRUCTURE ANGELS

## SOLAR WASHING MACHINE AND DRYING SYSTEM

**The project will develop energy efficient washing machine and dryer centres. The dryers will be multi-purpose, with the ability to dry crops, clothes, and dehydrate food for long-term storage. This will be done by incorporating improved cookstove and DC electric fan technology.**

Existing solar home systems are limited in their ability to deliver power to appliances with high-energy requirements over long time periods. As a result, productive use of appliances cannot be used at a high capacity, which means that tasks must be completed manually. This includes washing clothes. As a result, one billion women across the globe spend 100 billion hours laundering by hand.

Village Infrastructure Angels are working to adapt a washing machine and dryer to become energy efficient. The company's research showed that spinning clothes is one of the most power-intensive tasks for a washing machine. This project aims to develop a cost-effective and efficient spinning process for off-grid washing machines and dryers. Village Infrastructure Angels will further develop its prototypes into pre-commercial products in a trial of four washing and drying centres established in Cambodia, Indonesia and Kenya.



## AT A GLANCE

### **R&D Awardee**

Village Infrastructure Angels

### **Efficiency for Access Funding**

£245,000

### **R&D Funding Unlocked from Village Infrastructure Angels**

£35,000

### **Project Locations**

Cambodia, Indonesia and  
Kenya