

RESEARCH AND DEVELOPMENT FUND PROJECT SPOTLIGHT

OMNIVOLTAIC

DEVICE DATA DISCOVERY AS A SERVICE

The project will develop easily discoverable hardware-to-cloud link, enabling remote data collection and sharing for any device in the off-grid sector.

There is a high demand for data in the off-grid sector. Moreover, there is also a need to standardise technology components for them to be compatible with various cloud services that obtain data. This data will help appliance distributors and power operators in addressing analytical or operational requirements.

Omnivoltaic's project will deliver a piece of hardware that will be suitable for mini-grids, off-grid appliances, and PAYGo systems. Omnivoltaic will develop its own apps that will use cloud data and help developers to find innovative ways to enhance user experience. For example, geo-tracking can prompt e-mobility users to seek the nearest location where they can charge their batteries. Climatic data can also be integrated with irrigation pumping devices.

This project aims to create a more general framework that links off-grid technologies in rural areas to cloud storage. The framework will allow its users to access data easily. Omnivoltaic's project will be both scalable and cost-effective, promoting interoperability in the off-grid sector. This will help to advance the market and establish standardisation to enable easy access to data.



AT A GLANCE

R&D Awardee
Omnivoltaic

**Efficiency for Access
Funding**
£70,000

**R&D Funding Unlocked
from Omnivoltaic**
£78,954

Project Location
Hong Kong