EFFICIENCY FOR ACCESS

RESEARCH AND DEVELOPMENT FUND PROJECT SPOTLIGHT

SOLARIS OFFGRID

AN OPEN-SOURCE STANDARDISED PAYGO APPLIANCE COMMUNICATION PROTOCOL

This project will develop an open-source standardised PAYGO appliance communication protocol to facilitate PAYGO appliance interoperability throughout the industry.

OpenPAYGO Link is a free and secure, open-source technology that aims to provide the industry with a standardised ecosystem in order to facilitate the integration of PAYGO devices with a wider range of appliances, unlocking modern energy services for the world's poorest.

Off-grid appliances do not currently have a common system to communicate with. Manufacturers individually adapt their appliances to communicate with different PAYGO hardware. This lack of interoperability leads to significant R&D expenses for manufacturers in the off-grid sector, restricts distributors to appliances locked to a single PAYGO system, and limits customers in their choice of appliances.

Through a standardised communication protocol, OpenPAYGO Link enables automatic activation and deactivation of PAYGO devices, verification of electrical compatibility to prevent damage to the appliances, and custom data reporting. The technology guarantees the secure activation and deactivation of appliances based on the PAYGO status of the solar home system.

Once adopted, OpenPAYGO Link will provide a wider range of appliances for PAYGO distributors to select from and a larger market for appliance manufacturers to engage with. End-users will find more products to choose from in a more competitive market. The technology will also help to address distribution challenges by allowing usage or performance data to be analysed via any PAYGO software platform.

AT A GLANCE

R&D Partner
Solaris Offgrid

EforA Funding
£92,000

Additional matched funding from Solaris Offgrid
£39,594

Project Location(s)
Spain