



**GREAT** *for* **PARTNERSHIP**

BRITAIN & NORTHERN IRELAND

# Brazil Energy Programm

€ Funded by the  
Brazil Energy  
Programme (BEP),  
part of the UK  
government's  
Prosperity Fund.



# Brazil Energy Programme



## **BEP:**

- Accelerates adoption of clean energy to support disadvantaged groups in Brazil
- Provides UK funding and international expertise
- Includes regulatory and policy support, and technology demonstration pilots
- First pilot is Pilar Solar Pilot – co-funded through Light's R&D budget and implemented by UK and Brazilian organisations

# Renewables and Distributed Generation – UK expertise

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- Long experience and tradition on Distributed Generation
- Mature market with wide deployment of smart technologies





# Pilar Solar Pilot



BE  
P

Scalable  
Inclusive  
business  
models



Brazil  
Energy  
Programme



Knowledge  
&  
Information

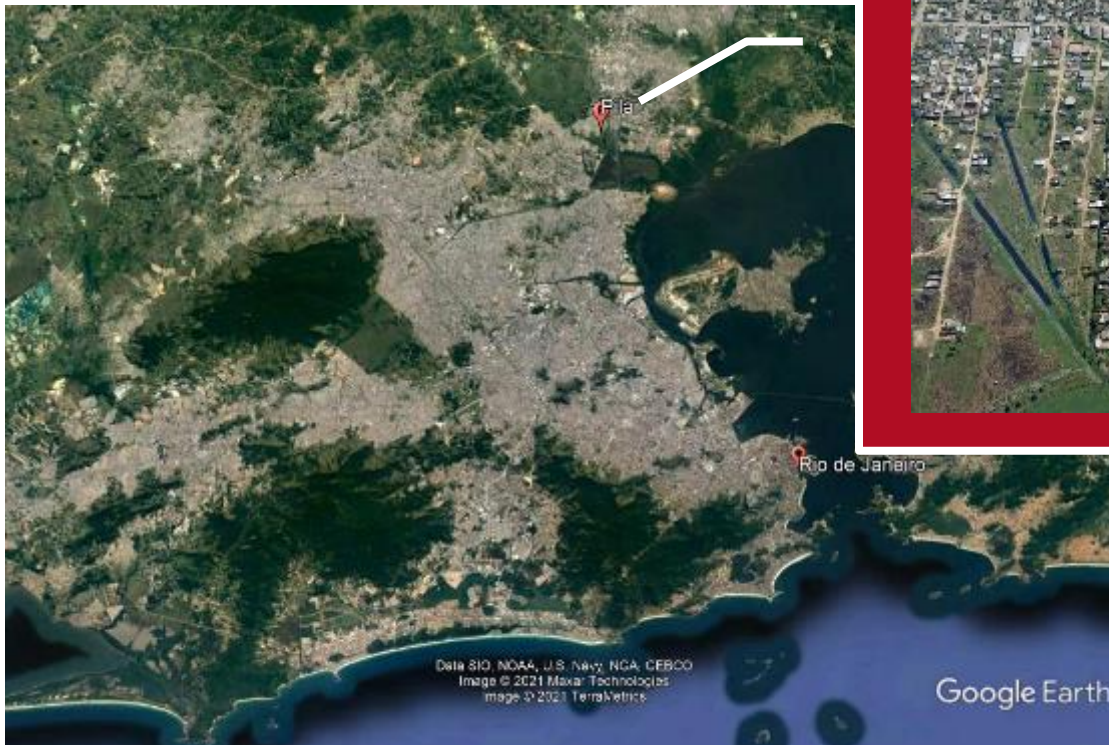
Innovation  
and smart  
Technology





# Pilar Community

Pilar is a low income  
community without access  
to government social aid



# Pilar Community



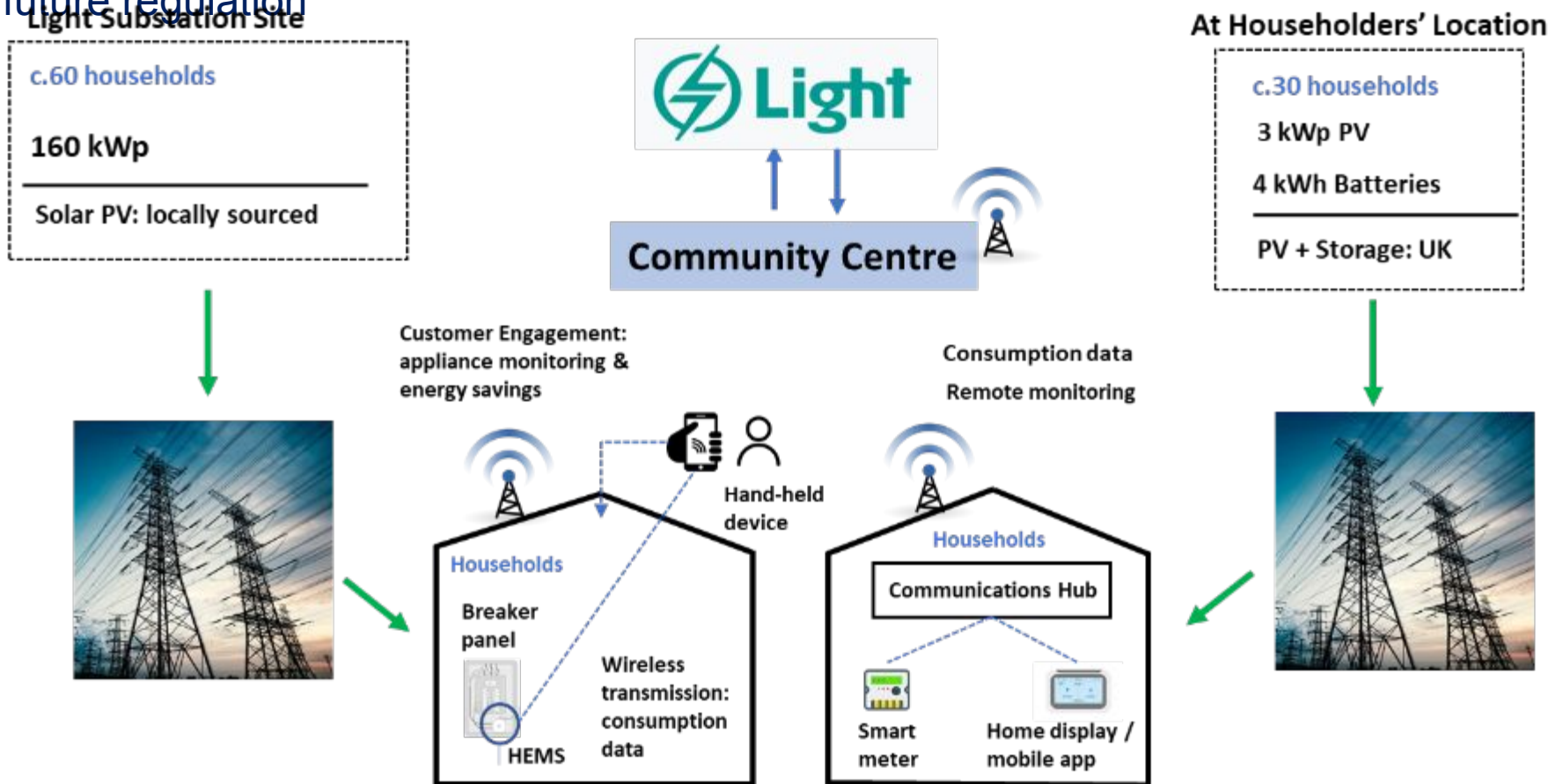
- A territory in city of Caxias, RJ
- 71% under Brazil's minimum wage (R\$ 1039, £\$148)
- Average Per Capita income: R\$ 591,21
- Through community engagement initiatives, investments in electric & energy efficiency, Light has reduced theft from 72% to 10%
- 1,100 new formal clients





# Structure of the Pilot

Pilot project to test impact of different technologies on energy costs using Res. 482 for a low-income community. New applications to generate experience for future regulation







# Technology + Education = Transformation

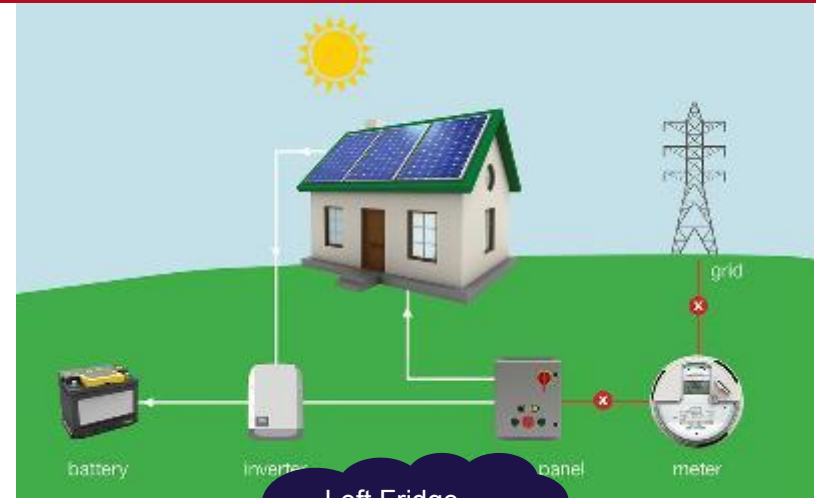
*Own or remote electricity generation*

*Smart meter with 'prosumer'*

*Internet of things (IOT)*

*Concentrator*

*Community Energy Management System EMS*



Left Fridge open whole day....



Community Centre



**HEMS**

**Home Energy Management**

**Time of Use kW = \$\$\$**

**ToU of energy and other concepts introduced**





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*UK - Brazil Partnership*

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