ZLC ENERGY LTD
OFF GRID GREEN GAS

CIRCULAR ECONOMY & ENVIRONMENTAL GROWTH

INTRODUCTION

ZLC Energy appraise, design, specify, install & operate renewable energy systems for homes & businesses. They are competent across all renewable technologies at a domestic & commercial level.

With support from Tevi this project sought funding to assess the feasibility of using wasted power generation from wind & solar farms in the production of hydrogen or biomethane for use in transport or as heating fuel for off grid homes. The outcome of this project will be to produce a feasibility report and create a physical model used to communicate the opportunity to others. If the project demonstrates the economic feasibility of using wasted energy to power the production of hydrogen and biomethane it is likely that further investment to commercialise this technology & business model will be required.

GRANT AWARDED

£7,501.55

Used to purchase
Market evaluation, technical research, development of business case and the creation of a physical model (purchase of model equipment)

IMPACT SUMMARY

This project's technology has the potential to enable transport and off grid homes to move from high carbon fossil fuels to low or zero carbon sources, thus reducing their contribution to climate change. It will also provide a more effective use of existing solar and wind farms in Cornwall improving their viability as energy sources. Furthermore, this local and decentralised business model, or generating green gas, can be rolled out across the UK & other rural counties.

The project supports Target Outcomes 2, 7 and 8 of Cornwall's Environmental Growth Strategy. This is in conjunction with the project benefiting Cornwall's move to net zero carbon emissions, whilst developing a technology & skill set in the county that could be exported globally.