| Clay Park Community Solar & Microgrid RCEF: Stage 2 | RCEF: Stage 2 | Key Facts | |
|--|---------------|---|---|
| | | Community Benefit | Reduce residents energy bills. |
| | · · · · | Maximise onsite use of local solar electricity. | |
| | | | 12 charge points for cars and bikes. |
| | | 60% affordable (shared ownership and rental) | |
| | | | Key Figures |
| The Story | | Energy Generation | 160 kW Solar PV |
| Clay Park is a progressive Socio-Eco-Housing Development, in between Totnes and Dartington, and owned by Transition Homes Community Land Trust (THCLT). They have planning permission for 39 energy-efficient eco-homes (and a community building with community laundry, 60% of which are designated affordable rents, and shared ownership for local people in housing need). It has invited TRESOC to become the energy supplier, own the renewables and operate the microgrid. | | Technologies | Solar PV, Microgrid, Centralised Heating Control, EV charging |
| TRESOC and the CLT intend to maximise on-site use of solar PV and minimise residents' bills, by providing green electricity at a reduced rate. This, and the use of the on-site thermal storage, will enable residents to optimise their use of local renewable electricity (at a subsided, below-market-rate cost) over grid imported electricity. This will be particularly significant for any low-income residents living in affordable housing. TRESOC will buy wholesale electricity from a green energy supplier at such times when solar PV is unable to meet demand. Any surplus electricity will be directed to electric vehicle charging or sold to the grid. | | Private finance leveraged | Community Share-offer for £266,580 |
| | | CO2 savings | 45 tonnes equivalent |
| | | RCEF grant | Stage 2 £79,710 |
| Challenges & Risks | | | Further Notes |
| e project has suffered significant delays due to issues with planning, Covid and the volatile price of electricity, which has made it extremely difficult to del the economic viability of the project (as the modelling considers energy prices over the next 20 to 30 years). The volatile energy market continues | | LEP area: South West | |
| to be a problem, as it is difficult to raise finance without offering a fixed return on investment. One of the biggest project risks going forward is the relationship between the retail market and the commercial price for energy needs to be sold to residents at less than the market rate for the model to work, but if the market price is greater than the retain sold to residents at a loss to TRESOC, which is not economically viable. | | Link for further info: <u>Swenergyhub.org.uk</u> | |