



Summary

iPower has worked with Aberdeenshire Council to provide a full business case for a 500 home smart solar and storage demonstration project. First stage in 7000 home three year programme. Solar and storage with smart management allow Aberdeenshire council to install solar PV in grid constrained areas for which grid consent had been denied. This is first known domestic PV, battery and grid services project of this scale in the UK and the first social housing project to include grid services income.

Key Facts

- First social housing project on this scale to incorporate generation of grid services income
- challenge overcome – grid consents not available for most of the homes concerned
- Provision of grid services at domestic level.
- Covers all of Aberdeenshire – many rural locations

Economic benefits

Aberdeenshire has an estimated 35% of social households in fuel poverty this scheme drastically reduce fuel poverty. Solar and storage provides a greater tenant benefit than solar alone.

Solar and storage help to meet EESSH and EESSH2 targets.

Opens market in grid constrained areas, provides economic development through business growth with battery rollout and enables growth in challenged PV market.

Creation of an income stream for local authorities from grid services at time when funds are severely constrained

Project overview

PV captures renewable energy and battery stores energy for when needed.

Innovative Smart technology maximises benefit for tenants:

- 100% use by tenants of free PV energy
- Facilitates the use of flexible tariffs for tenants

Permits controlled services to Grid providing an income.

