

## **Design & Access Statement**

By modern standards, the existing building is not energy efficient. Our objective, in line with the move to carbon neutrality, is to maintain the integrity and aesthetics of the building, whilst significantly improving our use of sustainable energy. The solar engineer that we used following on from the meeting with Cumbria Action for Sustainability estimated that installed capacity will be 12.9 KWp hours and the output would be in the region of 8936 KWh pa. Therefore, the use case is both to offset current electrical devices, and to power a hybrid and an EV, to minimise our drawdown from the grid. We will also install batteries to store electricity for later use.

The completed work will not be visible from Main Street, which will continue to support the aesthetic of St Bees and the listing that we currently have. There will be no visible cabling on the exterior. We will attempt to reuse slates where possible on the house, and will replace the roof materials on a like-for-like basis. This will also give us the opportunity to make needed roof improvements, and to continue to maintain the exterior in line with the listing.

Internally, we intend to minimize any drilling into the walls by using existing cable runs. One inverter will be mounted in the barn, and the other will be in the loft of the house. The battery will be installed in the house, near the consumer unit, also to eliminate any additional cable runs.

There will be no impact on access to our house going forward by the proposed project, and since the contractors will be able to park in our yard to install the arrays, there will be no impact on Main Street because of the work.