

Design and Access Statement

This application relates to the proposed installation of a ground-mounted solar photovoltaic array in a field adjacent to Cadeby Hall, Main Street, Cadeby, CV13 0AX.

The proposed system has been designed to provide renewable electricity for Cadeby Hall while keeping the physical impact of the installation as low as reasonably possible.

The solar PV system would consist of 10 ground-mounted frames, with 18 solar panels on each frame, giving a total of 180 solar panels. The frames would be arranged in 2 rows of 5 frames. Each frame would be mounted at approximately 35 degrees to the horizontal to provide good solar performance. A gap of approximately 5 metres would be maintained between the rows to prevent shading.

The proposed panels would be Aiko Solar photovoltaic modules. These are high-efficiency panels with an expected operational lifespan of approximately 25–30 years.

The mounting frames would be a tubular, non-reflective design. They would be driven into the ground and would not require concrete bases or substantial permanent foundations. This approach reduces disturbance to the field and allows the installation to be removed at the end of its lifespan with minimal lasting impact.

The proposed array would occupy only a limited area of the wider field. The remaining land would remain available for grazing or other low-impact agricultural use.

A public footpath runs along the edge of the field, as shown on the submitted block plan. The proposed solar array would be positioned approximately 70 metres from this footpath. For safety and security, a 1.2 metre high timber fence would be installed around the perimeter of the array.

The development would not require any new vehicular access. Installation access would be taken from the adjacent property at Cadeby Hall. No heavy construction traffic is expected, and once installed, the array would require only occasional maintenance visits.

Overall, the design uses a simple, low-impact ground-mounted arrangement which is suitable for the site and capable of being accessed without changes to existing access arrangements.