

DGM Growers Solar PV

Proposed Layouts

Overall Site

DGM Growers is a vegetable company that is part of the Fresca Group, they source, supply, prepare, pack, and deliver high quality fresh produce to customers all over the UK. DGM Growers is the UK's only commercial grower of chicory, with fennel, chard, celeriac artichokes, and pak choi packed and sold from site. The site comprises of metal trapezoidal roofs with a shallow pitch of 5° - 15°. The roof orientation vary by building, we have selected the roofs in Figure 1 below for their Solar PV potential.



Fig. 1: Proposed Solar PV arrays on DGM Growers

The proposed solar panels are monocrystalline, all-black panels with a black frame to minimise its effect on the external appearance of the building and the amenity of the area. The proposed panels will be on-roof mounted and flush with the roof pitch.

Typical Array Layout

Each building differs in roof dimensions and thus the array size will vary by building, but each array will have a one metre perimeter from the building external edge and will not protrude above existing ridge height. The solar panels will be less than 200mm from the existing roof surface, as shown in Figure 2 below. The standard gap between rows and columns is 2cm, as shown in Figure 3 below.

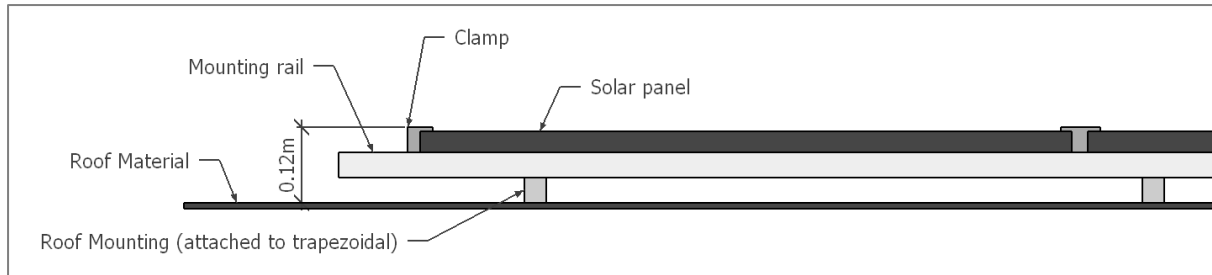


Fig. 2: Mounting Diagram Cross-Section Perpendicular to Roof Surface

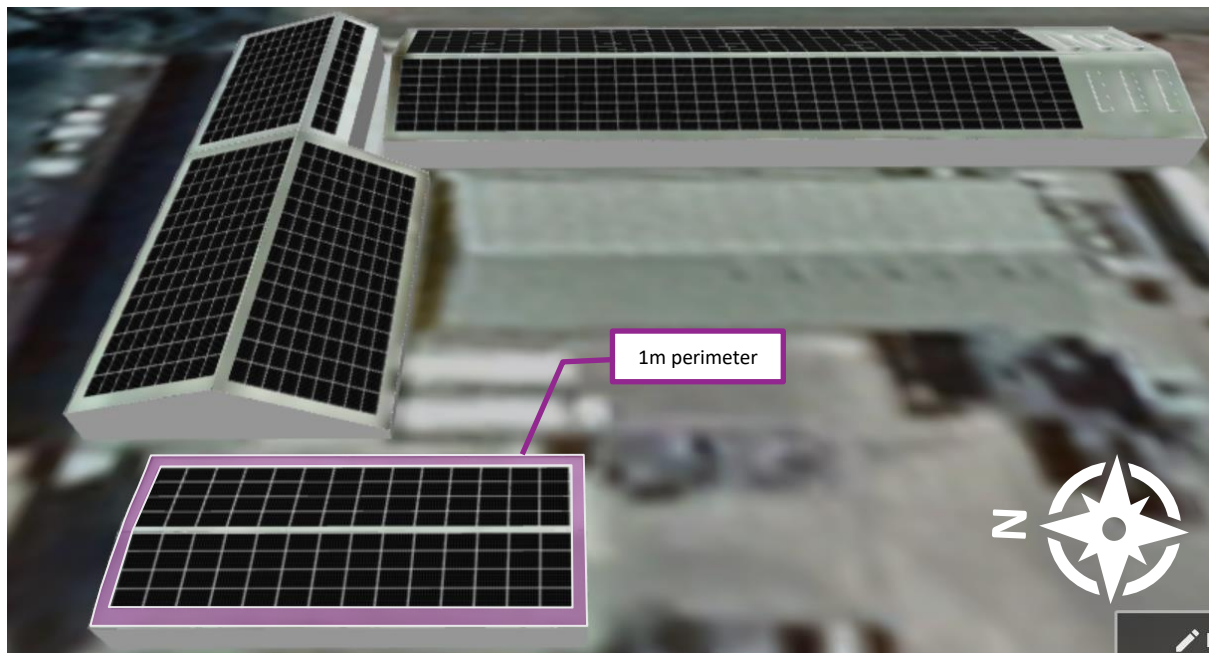


Fig. 3: Proposed Solar PV Array Example