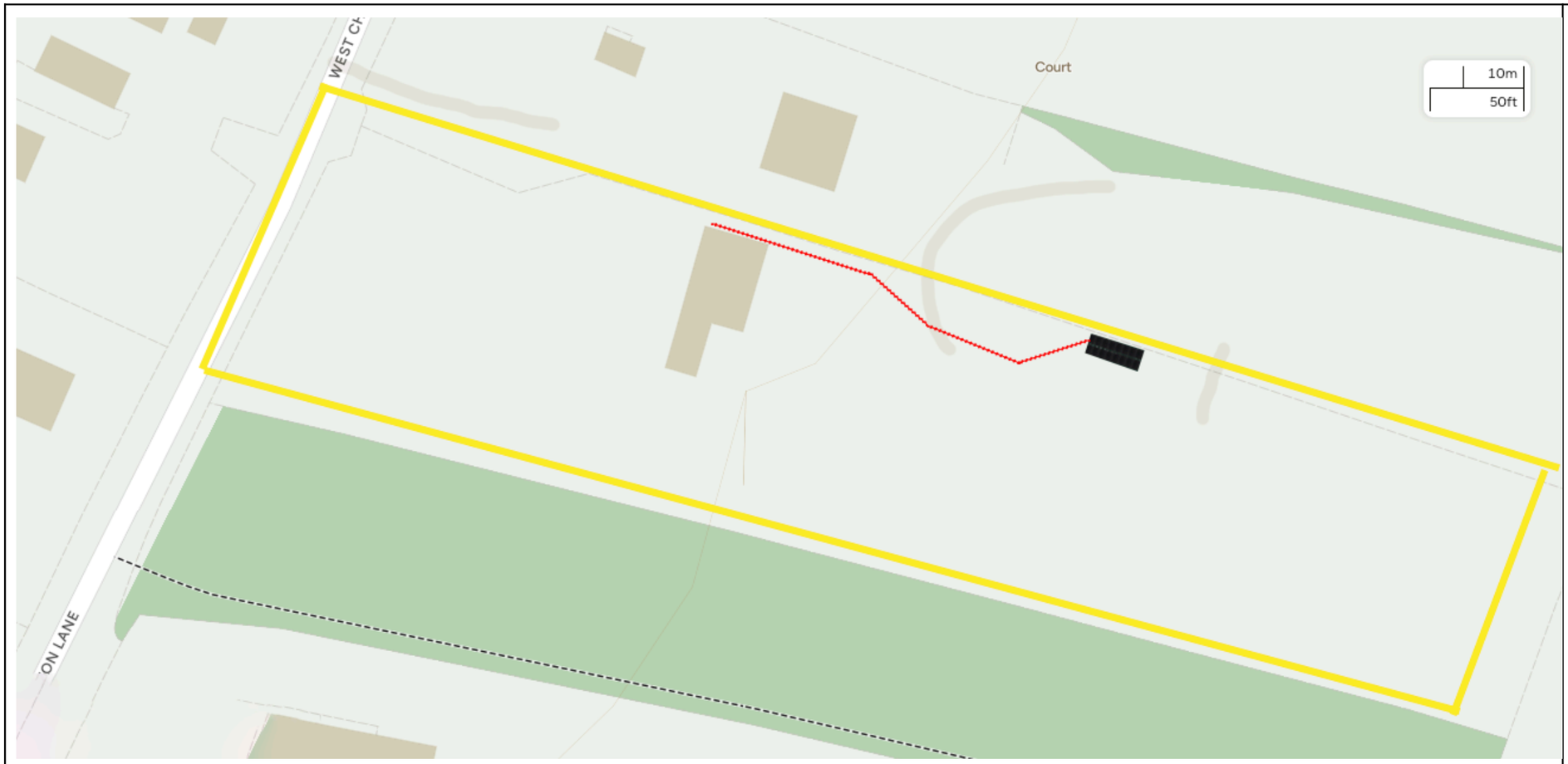


GROUND MOUNTED SOLAR PANEL DETAILS AND SITE PLAN - Page 1

Proposed 16 ground-mounted panels

https://w3w.co/skim.metro.readjust
Grid Reference (6 figure)
TQ100227

X (Easting) , Y (Northing)
510059 , 122704

Latitude , Longitude (decimal)
50.993222 , -0.433132

Latitude , Longitude (degs, mins, secs)
50°59′36″N , 000°25′59″W

What3Words :
Skim.metro.readjust

Property Address :
Barn End,
West Chiltington Lane, Billingshurst
West Sussex, England,
RH14 9DY
United Kingdom

The solar array will be installed in tandem with 10 kWh of battery storage to maximise self-use and bring the property towards being carbon neutral.

The mounting system uses rails and ballast and, therefore leaves no lasting footprint on this green field site.

All maps point due North.
The length of cable run from the house to the panels is 71m

Designer: T Gauntlett
Company: Bia Electric Ltd
tim@bia-electric.co.uk



GROUND MOUNTED SOLAR PANEL DETAILS AND SITE PLAN - Page 2

Proposed 16 ground-mounted panels

https://w3w.co/skim.metro.readjust
Grid Reference (6 figure)
TQ100227

X (Easting) , Y (Northing)
510059 , 122704

Latitude , Longitude (decimal)
50.993222 , -0.433132

Latitude , Longitude (degs, mins, secs)
50°59′36″N , 000°25′59″W

What3Words :
Skim.metro.readjust

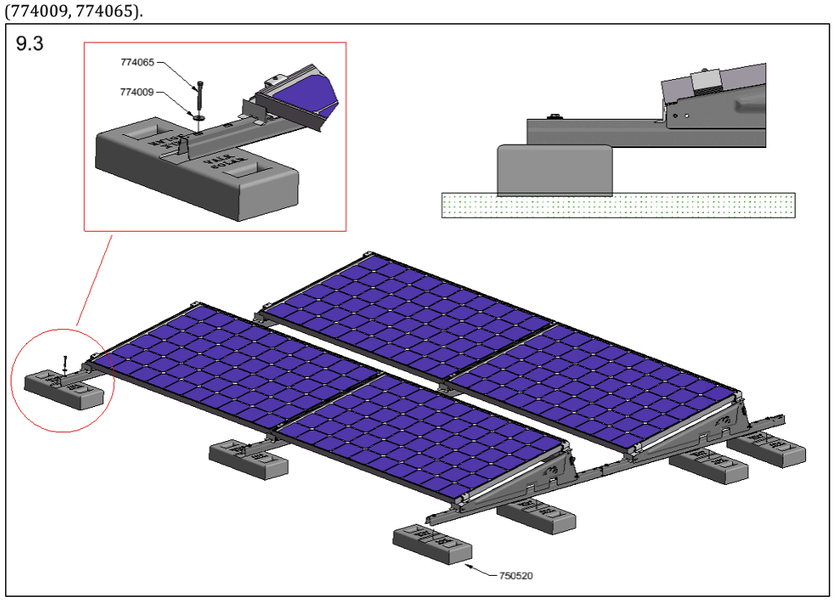
Property Address :
Barn End,
West Chiltington Lane, Billingshurst
West Sussex, England,
RH14 9DY
United Kingdom

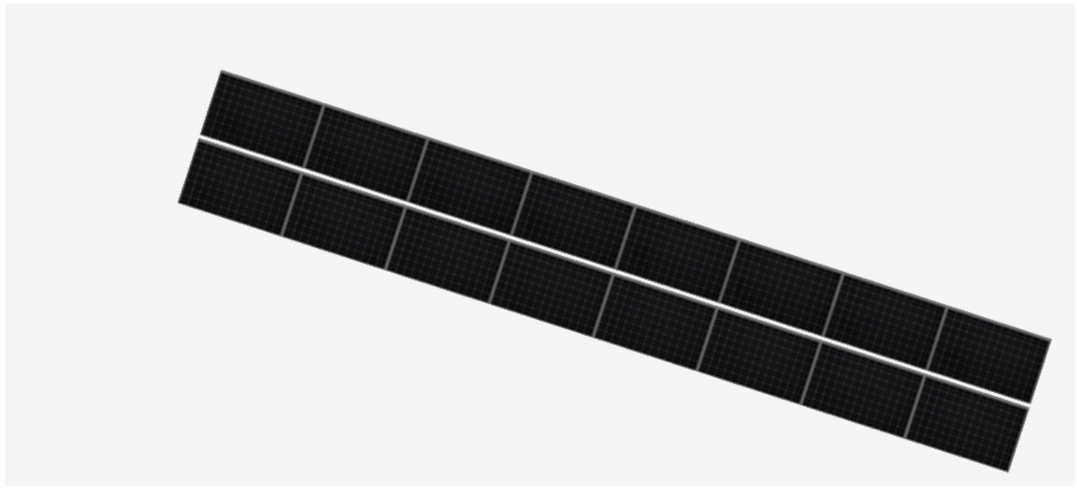
All maps point due North.

Array is located 1500mm from the boundary of the property.

Designer: T Gauntlett
Company: Bia Electric Ltd
tim@bia-electric.co.uk

ValkPro+ as a field system:
The Valkpro+ system can be placed on the ground as a field system. For this method the system will be placed on top of the mass blocks (750520). These mass blocks are mounted to the roof carriers with a Ss. Ring and bolt (774009, 774065).





GROUND MOUNTED SOLAR PANEL DETAILS AND SITE PLAN - Page 3

Proposed 16 ground-mounted panels

https://w3w.co/skim.metro.readjust
Grid Reference (6 figure)
TQ100227

X (Easting) , Y (Northing)
510059 , 122704

Latitude , Longitude (decimal)
50.993222 , -0.433132

Latitude , Longitude (degs, mins, secs)
50°59′36″N , 000°25′59″W

What3Words :
Skim.metro.readjust

Property Address :
Barn End,
West Chiltington Lane, Billingshurst
West Sussex, England,
RH14 9DY
United Kingdom

16 panels in 2 landscape lines of 8. The azimuth of 198 (18 degrees off south) matches the property's boundary and maximises value (GBP) rather than power (kWh)—prioritising power at peak time 1500 -1800 each day.
Panel area: 1134 x 1722 = 1.96m^2 Array area 1.96 x 16 = 31.34 m^2 Property area: 100m x 45m = 4,500 m^2
Coverage = 0.7%

Raised at an angle of 15 deg, there is 300 mm difference in height from on side to the other.
With 200 mm (approx.) of feet and rail, that makes that total height just 500 mm (±100mm).

Designer: T Gauntlett
Company: Bia Electric Ltd
tim@bia-electric.co.uk