



- Notes
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. All spatial coordinates relate to the Ordnance Survey, British National Grid (OSGB36).
 6. All levels are in metres and relate to AOD (Ordnance Survey, Newlyn).
 7. Private wire route alignment subject to update by designer; the expected wire route revision to follow the fence line and not pass through the solar panel array.
 8. Pending results of surveys, the site may be subject to minor grading/preparatory groundworks to level steeper slopes in the panel area.

- Key to symbols
- - - Site Boundary
 - - - Fence
 - - - LV OHL Private wire route Option 1
 - - - LV buried Private wire route Option 2
 - - - Drainage plan design
 - - - New internal road
 - - - Existing road
 - - - Switchgear
 - - - 2P14 frame module
 - - - 2P14 frame module above 15% slopes
 - - - Control Building
 - - - Substation
 - - - Gates: northern for maintenance southern for construction
 - - - OHL between the transformers
 - - - LV Transformer
 - - - Small valley with steep sided slopes
 - - - Attenuation pond
 - - - Indicative zone for construction compound and laydown areas

Design

- Latitude and longitude:	51°32'53.43"N, 3°33'36.55"W
- Country, location:	United Kingdom
- PV module nominal power:	565 Wp
- PV module quantity:	9,744
- PV inverter:	180kVA
- PV inverter quantity:	26
- DC nominal capacity:	5.51 MWp
- AC installed capacity:	4.81MWac
- AC export capacity:	4.81MWac
- Modules' configuration per structure:	2 Portrait
- Module dimensions:	2.384 x 1.134 x 0.35 m
- Azimuth:	0 (due south)
- Tilt Angle:	20°
- Pitch Distance:	9.50 m
- Ground Cover Ratio (GCR):	49.87%
- DC/AC ratio:	1.14
- Fence area:	8.23 Ha
- 2P14 module quantity:	348

Heights of the buildings and other infrastructure:

- Control Building:	3 m
- HV board and Substation compound:	3 m
- Solar Switchgear:	3 m
- Transformers:	3 m
- Fence:	2.5 m
- Security camera poles:	4 m

- Reference drawings
- Solar PV Constraints Map: 106856-MMD-BRGR-XX-DR-Y-0011
 - Site Terrain and Slope Map: 106856-MMD-BRGR-XX-DR-Y-0012

Rev	Date	Drawn	Description	Ch'k'd	App'd
P03	15/11/2022	EL	Preliminary PV layout revised	MH	OV
P02	27/10/2022	EL	Preliminary PV layout revised	MH	OV
P01	21/09/2022	EL	Preliminary PV layout	MH	OV

Status Stamp

NOT FOR CONSTRUCTION					
MOTT MACDONALD		Victory House Trafalgar Place Brighton, BN1 4FY United Kingdom			
		T +44 (0)1273 36500 F +44 (0)20 8681 5706 W www.mottmac.com			

Client

Marubeni

95 Gresham Street
London
EC2V 7AB
+44 (0)20 7826 8811
www.marubeni-europower.com

Title

**Bryncethin Solar PV Project
General PV layout**

Sheet 01 of 01

Designed	E. Lici	EL	Eng check	M. Hayward	MH
Drawn	E. Lici	EL	Coordination	M. Hayward	MH
Dwg check	M. Hayward	MH	Approved	O. Velasco	OV
MMD Project Number	108939	Scale at A0	1:750	Security	STD
Suitability Description	PRE	Suit. Code	S3	Revision	P03
Drawing Number	108939-MMD-BRGR-XX-DR-E-0014				

