

Light Valley Solar

Grid Connection Statement

Document Reference EN0110012/APP/LVS/05.10

February 2026

Planning Inspectorate Reference: EN0110012
APFP Regulation: 6(1)(a)(i)



Light Valley
Solar

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Light Valley Solar

DCO Submission

05.10 Grid Connection Statement

Regulation Reference	APFP Regulation 6(1)(a)(i)
Planning Inspectorate Case Reference	EN0110012
Application Document Reference	EN0110012/APP/LVS/05.10
Author	Light Valley Solar Limited

Version	Date	Status of Version
1.0	February 2026	DCO Submission

Contents

1	Introduction	1
1.1	Overview and purpose of the document	1
1.2	Statement of Purpose	1
1.3	Works Numbers	2
2	Grid Connection Agreement	4
3	Elements of the Grid Connection	5
4	Designing and Building of the Grid Connection	6
4.1	Responsibility of the Applicant	6
4.2	Responsibilities of National Grid Electricity Transmission (NGET)	6
5	Land Rights	7
5.1	Substations and Battery Energy Storage Sites	7
5.2	Cable Route Corridor	7
5.3	National Grid Substation	7
6	Consenting of the Grid Connection Works	8
7	Conclusion	9

1 Introduction

1.1 Overview and purpose of the document

- 1.1.1 Light Valley Solar Limited (the Applicant) has prepared this Grid Connection Statement (the Statement) as part of an application for a Development Consent Order (DCO) to construct, operate, maintain and decommission Light Valley Solar (the Proposed Development).
- 1.1.2 The PV electricity generating station and BESS would be contained within seven land parcels referred to as Sites 1 - 4 and 6 -8 (referred to collectively as the Solar Development Sites) refer to Figure 1.1 Site Location Plan and Order Limits (ES Volume 2) [EN0110012/APP/LVS/06.02.01.01].
- 1.1.3 The scheme is described in full in Chapter 2 of the ES [Ref] which supports the application.
- 1.1.4 As the Proposed Development has a generating capacity that exceeds 100 megawatts (MW), it is defined under the Planning Act 2008 (Ref 1) as a Nationally Significant Infrastructure Project (NSIP) and will therefore require a DCO from the Secretary of State. This Statement has been prepared by the Applicant to support the DCO application and should be read alongside all other documents submitted by the Applicant.
- 1.1.5 The Statement confirms who will be responsible for designing and building the grid connection infrastructure and cable routes for the connection to the electricity grid.
- 1.1.6 The Scheme will have an export and import connection to the National Electricity Transmission System (NETS). The Point of Connection (PoC) will be located at the existing Monk Fryston 275kV National Grid substation, owned and operated by National Grid Electricity Transmission plc.
- 1.1.7 The Proposed Development is being developed by the Applicant. The Applicant is part of Island Green Power Limited (IGP), who is a leading developer of renewable energy projects, established in 2013.

1.2 Statement of Purpose

- 1.2.1 This Statement is to accompany the suite of documents submitted by the Applicant pursuant to Section 55 of the Planning Act 2008 and Regulations 5 and 6 of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (Ref 2) (APFP Regulations).
- 1.2.2 This Statement has been prepared in accordance with Regulation 6(1)(a)(i) of the APFP Regulations, which requires an applicant for a DCO in respect of an onshore generation station to provide a statement of who will be responsible for designing and building the connection to the electricity grid.

- 1.2.3 Overarching National Policy Statement for Energy (NPS EN-1) (Ref 3) paragraph 4.11.2 states that it is *“for the applicant to ensure that there will be necessary infrastructure and capacity within an existing or planned transmission or distribution network to accommodate the electricity generated”*. Paragraph 4.11.5 continues to advise that *“the applicant must liaise with National Grid who own and manage the transmission network in England and Wales or the relevant regional DNO or TSO to secure a grid connection.”*
- 1.2.4 Paragraph 4.11.7 states that: *“The Planning Act 2008 aims to create a holistic planning regime so that the cumulative effect of different elements of the same project can be considered together. Co-ordinated applications typically bring economic efficiencies and reduced environmental impact. The government therefore envisages that wherever reasonably possible, applications for new generating stations and related infrastructure should be contained in a single application to the Secretary of State or in separate applications submitted in tandem which have been prepared in an integrated way, as outlined in EN-5. This is particularly encouraged to ensure development of more co-ordinated transmission overall.”*
- 1.2.5 Paragraph 4.11.12 states that *“the Secretary of State should be satisfied that appropriate network connection arrangements are/will be in place for a given project regardless of whether one or multiple (linked) applications are submitted.”*
- 1.2.6 This Statement details the status of the grid connection offer and provides confirmation that the grid connection forms part of the Scheme and, as such, constitutes a single application to the Secretary of State.

1.3 Works Numbers

- 1.3.1 A ‘Work No.’ has been assigned to different elements of the Proposed Development for which consent is being sought, and defined in Schedule 1 of the **Draft DCO [EN0110012/APP/LVS/03.01]**. The location of each Work No. is defined on the **Works Plans [EN0110012/APP/LVS/02.03]** which should be consulted for further detail.
- 1.3.2 The Work Numbers relevant to this Statement are as follows:
- 1) Work No. 3, being works in connection with onsite substations and associated works up to 275kV;
 - 2) Work No. 4, being works to the National Grid’s existing Monk Fryston substation to facilitate connection of the authorised development to the National Grid;
 - 3) Work No. 5, being works in connection with electrical and communication cabling comprising works to lay electrical cables up to 275 kV including laying electrical and communication cables between Work No. 3 and Work No.4 and Work No. 2 (BESS) and Work No. 4; and

- 4) Work No. 8A, being works to facilitate temporary construction, maintenance and decommissioning access to all other works (including Work Nos 4 and 5).

2 Grid Connection Agreement

- 2.1.1 The Applicant submitted a grid application to National Energy System Operator (NESO) formally named National Grid Electricity System Operator Limited (NGESO), the system operator of the NETS, in February 2021 to connect the Scheme to the NETS at Monk Fryston 275kV substation owned by National Grid Electricity Transmission plc (NGET).
- 2.1.2 NESO then worked with NGET to produce a connection offer which was received by the Applicant in July 2021 (NESO reference: A/IGP18/21/2503/1-EN(0)).
- 2.1.3 The connection offer was accepted in the form of a Bilateral Connection Agreement (BCA) between the Applicant and NESO, allowing for a Transmission Entry Capacity (TEC) of 500 MW (AC) export to and 500 MW (AC) import from the NETS. The BCA was entered into in December 2021. The acceptance of the connection offer demonstrates that a connection at the Point of Connection is technically and financially viable.
- 2.1.4 As a requirement of the acceptance of the grid connection offer the Applicant must also agree to adhere to the Connection and Use of System Code (CUSC), the contractual framework in which the Applicant can connect and use the NETS. A CUSC Accession Agreement was also entered into in December 2021.
- 2.1.5 The Grid Connection Agreement allows the Applicant to export the electricity produced at the Solar PV Sites, not to exceed 500 MW (AC). It also allows for the import of up to 500 MW (AC) of electrical energy to be stored in an Energy Storage Facility (for the purposes of the Application, this is assumed to employ battery technology and therefore referred to as a 'Battery Energy Storage System' or 'BESS' throughout this Application), located at Site 2, to be exported at a different time, back to the NETS.

3 Elements of the Grid Connection

- 3.1.1 The Proposed Development will consist of multiple sites where the solar arrays will be constructed with the BESS included on Site 2. The electricity produced from the sites and stored in the BESS will need the voltage to be transformed up to 275kV to be exported to the NETS via the existing National Grid Substation.
- 3.1.2 The works described in paragraph 1.3.2 above are needed to construct the Grid Connection Infrastructure of the Scheme.
- 3.1.3 The Cable Route Corridors will accommodate circuits laid underground running from each of the Sites to the substations located at Site 2 and Site 4 (referred to as “Interconnecting Cables”).
- 3.1.4 Site 2 and Site 4 will ensure that all electricity produced by the Scheme is converted to the correct voltage of 275kV to be exported to the NETS.
- 3.1.5 In some locations the Cable Route Corridors will accommodate circuits laid underground at 33kV cables through the Cable Route Corridor back to the substations.
- 3.1.6 The total high voltage Cable Route Corridor distance from the Site 4 275kV substation to Monk Fryston 275kV National Grid substation is approximately 4.9km. This route will contain a 275kV circuit (referred to as “Grid Connection Cables”. The Grid Connection Cables may extend a further 3km to the 275kV substation on Site 2 should this be determined to be the most efficient design.
- 3.1.7 A detailed description of the elements that make up the Cable Route Corridor and substations can be found within Chapter 2: The Proposed Development (ES Volume 1) **[EN0110012/APP/LVS/06.01.02]**.

4 Designing and Building of the Grid Connection

4.1 Responsibility of the Applicant

- 4.1.1 The Applicant has obtained expert advice from Fichtner Consulting Engineers Limited to produce a bespoke electrical design for the Proposed Development. This has included electrical front end engineering design for each Site, and substation equipment and compound design. The Applicant also commissioned JSM Group to provide civil engineering input regarding the high voltage grid connection route.
- 4.1.2 The Applicant and its appointed contractors and consultants will be responsible for the design and construction of the following aspects of the grid connection:
- 1) On-site substations at the Solar PV Sites (Work No. 3);
 - 2) High voltage grid connection route (Work No. 5); and
 - 3) Installation of bay equipment at the PoC (Work No. 4).

4.2 Responsibilities of National Grid Electricity Transmission (NGET)

- 4.2.1 NGET will oversee the installation of the 275 kV Air Insulated Switchgear (AIS) works to the existing National Grid Monk Fryston 275kV substation spare bay by the Applicant. This will consist of typical generator bay equipment in line with good working practice and NGET specification including equipment to meet the latest grid code requirements. This may require the installation of small buildings within the existing footprint of the substation.

5 Land Rights

5.1 Substations and Battery Energy Storage Sites

5.1.1 The Applicant has entered into voluntary Option to Lease Agreements with the respective landowners of the Solar PV Sites 1- 4 and 6 – 8.

5.2 Cable Route Corridor

5.2.1 All freehold owners and tenants, where details have been provided or acquired through HM Land Registry, for the proposed cable route that will accommodate the various grid connection circuits, have been contacted and an indicative cable route discussed. Heads of Terms have been issued to each of these landowners, and the Applicant will continue to negotiate with each of them.

5.2.2 The Applicant is pursuing voluntary agreements with landowners along the cable corridor but will also be seeking compulsory acquisition and temporary use powers through the DCO (see the **Draft DCO [EN0110012/APP/LVS/03.01]**) to enable the Grid Connection to be delivered without impediment.

5.3 National Grid Substation

5.3.1 The Applicant does not require any land rights with NGET. Within the Grid Connection Contract there is an obligation for both parties to enter into an Interface Agreement with each other.

6 Consenting of the Grid Connection Works

- 6.1.1 The Applicant is seeking to secure the consents for the Grid Connection Works via the DCO application as set out in Schedule 1 of the **Draft DCO [EN0110012/APP/LVS/03.01]**. If the same terms relating to these Works Nos. are granted, development consent for the Grid Connection will have been secured

7 Conclusion

- 7.1.1 The Applicant, Light Valley Solar Limited is making an application for a DCO for the Proposed Development, of which the Grid Connection Works form part thereof. Therefore, this Statement has been submitted as per the requirement stated in Regulation 6(1)(a)(i) of the APFP Regulations, stating who will be responsible for designing and building the connection to the electricity grid.
- 7.1.2 This Statement confirms the above to the Secretary of State, namely:
- 1) The Applicant has received a valid grid connection offer from NESO to connect the Scheme to the NETS at the existing Monk Fryston 275kV substation;
 - 2) The Applicant has accepted this grid offer by entering into a BCA with the NESO. This demonstrates that the connection is technically and financially viable;
 - 3) The Applicant has also undertaken electrical design for the Proposed Development including reviewing suitable cable routes, substation locations and required hazard avoidance to connect the Solar PV Sites and BESS, to the main intake substation at the Site 4 or Site 2 275kV substation;
 - 4) A single 275 kV circuit will then run from Site 4 or Site 2 at 275kV substation to the existing Monk Fryston 275kV NGET substation;
 - 5) A new 275 kV AIS bay will be created to allow the scheme to connect to the NETS;
 - 6) The Applicant will be responsible for designing and building all of the above elements of the grid connection. The Applicant will also operate and maintain these elements for the lifetime of the Proposed Development. The Applicant will be responsible, under NGET's supervision, for designing and carrying out the works required for the population of the new bay to allow for the Proposed Development's connection, and ongoing maintenance of the bay thereafter for the lifetime of the Scheme; and
 - 7) By the time construction starts the Applicant will have obtained all the necessary land rights for the Grid Connection, whether via the preferred method of voluntary agreement or through reliance on compulsory acquisition and temporary use powers in the DCO (outside of NGET's operational area).
- 7.1.3 This statement is to be read alongside all other documents submitted by the Applicant relating to the DCO application. As set out in this statement and the **Draft DCO [EN0110012/APP/LVS/03.01]**, the grid connection works form part of the Proposed Development for which development consent is being sought

References

- Ref 1 H.M Government (2008). The Planning Act 2008. Available at: [Planning Act 2008](#). Accessed [12/09/2025]
- Ref 2 H.M Government (2009). The Infrastructure Planning Applications: Prescribed Forms and Procedure) Regulations 2009. Available at: [The Infrastructure Planning \(Applications: Prescribed Forms and Procedure\) Regulations 2009](#). Accessed [12/09/2025]
- Ref 3 Department for Energy Security and Net Zero (2023). Overarching National Policy Statement for energy (EN-1). Available at: [assets.publishing.service.gov.uk/media/695d1015f41883f4e50ed9ab/overarching-national-policy-statement-for-energy-en-1-web-accessible.pdf](#) . Accessed [02/01/2026]



Light Valley
Solar

W: Lightvalleysolar.co.uk
E: info@lightvalleysolar.co.uk