



Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 12.1: Description of network links and sensitivity

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Prepared by:

RPS
20 Western Avenue,
Milton Park, Abingdon,
Oxfordshire, OX14 4SH
United Kingdom

Prepared for:

Photovolt Development Partners GmbH,
on behalf of SolarFive Ltd.

Contents

1	DESCRIPTION OF NETWORK LINKS AND SENSITIVITY	1
1.1	Introduction	1

Tables

Table 1.1:	Description of network links and sensitivity	2
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Figures

Figure 1.1:	Traffic and transport study area and highway network overview	23
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Glossary

Term	Meaning
Baseline	The status of the environment without the Project in place.
Environmental Statement	The document presenting the results of the Environmental Impact Assessment process.
Study Area	This is an area which is defined for each environmental topic which includes the Order Limits as well as potential spatial and temporal considerations of the impacts on relevant receptors. The study area for each topic is intended to cover the area within which an impact can be reasonably expected.
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm
The Site or Order Limits	The area of land encompassing the Project development and shown on the Site Location and Order Limits plan (Volume 2, Figure 1.1 of the ES [EN010147/APP/6.4]).

Abbreviations

Abbreviation	Meaning
ES	Environmental Statement
HDD	Horizontal Directional Drilling
NCN	National Cycle Network
NSL	National Speed Limit
PRoW	Public Right of Way
PVDP	Photovolt Development Partners GmbH

Units

Unit	Description
km	Kilometre
m	Metre
mph	Miles per hour

1 Description of network links and sensitivity

1.1 Introduction

Overview

- 1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Volume 1, Chapter 12: Traffic and transport of the ES.
- 1.1.2 This traffic and transport technical report presents a description of network links and their sensitivity for the Project. The links are set out in **Table 1.1** and have been used to characterise the traffic baseline and assessment as set out in Volume 1, Chapter 12: Traffic and transport of the ES.
- 1.1.3 The description of the links and their sensitivity incorporates the following aspects.
- Link type
 - Typical width
 - Forward visibility
 - Footways
 - Street lighting
 - On-street parking
 - Speed limit
 - Frontage access
- 1.1.4 The sensitivity assigned to each link has been determined in accordance with the sensitivity criteria in **Table 12.8** within Volume 1, Chapter 12: Traffic and transport of the ES.
- 1.1.5 The links included within **Table 1.1** have been determined based upon the routing of construction vehicles along the adjacent highway network and the sections of highway (highway links) that form this.
- 1.1.6 **Figure 1.1** of this appendix presents the location of the highway link references listed in **Table 1.1**.

Table 1.1: Description of network links and sensitivity

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L1	A4260 Banbury Road between Gate 6 / Horizontal Directional Drilling (HDD) Access 1.1 and B4027 (West)	Single Carriageway Road	Generally 8 metres (m) with localised ghost island right turn lanes	Good	N - save for small section in the vicinity of bus stop outside Sturdys Castle	N - save for approximately 575m in the vicinity of Sturdys Car Centre, Sturdys Castle and the layby area.	N	NSL	Limited - access to Sturdys Car Centre (car dealership) and Sturdys Castle (hotel / public house)	Low - Single carriageway road subject to the National Speed Limit (NSL). Few sensitive receptors including a hotel / public house and car dealership, both set back from the carriageway. Access to Public Right of Way (PRoW) (footway) and narrow footway commensurate with demand.
L2a	B4027 between A4260 Banbury Road and Banbury Road	Single Carriageway Road	5m	Limited in places due to bend in road lined with hedgerow	N	N	N	NSL	Limited - access to Old Weaveley Farm	Negligible - No sensitive receptors.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L2b	B4027 between Banbury Road and Gate 134 / 76	Single Carriageway Road	5.5m	Limited in places due to crests and bends in road lined with hedgerow	N	N	N	NSL	Limited - access to Weaveley Farm, few residential dwellings and small commercial area	Medium - Single carriageway road subject to the NSL. Few sensitive receptors including residential dwellings, small commercial area, and farm access. Unsegregated crossing of National Cycle Network (NCN) Route 5 across the carriageway. Access to PRoW (footpath and bridleway).
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	Single Carriageway Road	8m	Good	N	N	N	NSL for approximately 400m south of junction with B4027, then 50 miles per hour (mph)	N	Low - Single carriageway road subject to speed restriction variances based on section (NSL and 50mph). Unsegregated crossing of PRoW (bridleway) across the carriageway and narrow footway commensurate with demand.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	Single Carriageway Road	Generally 8m with localised ghost island right turn lanes	Good	N	N	N	50mph	N	Low - Single carriageway road subject to 50mph speed restriction. Access to a PRow (footpath).
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	Single Carriageway Road	Between 6m and 7.3m	Limited in places due to crests and bends in road	N	N	N	NSL for approximately 1.05 kilometres (km) southwest of junction with A4260 junction, then 50mph for approximately 350m, then NSL until junction with A44.	Y - Some residential dwellings, vehicle repair warehouse, small commercial area, and Oxford Airport emergency access.	Low - Single carriageway road with speed restriction variances based on section (NSL and 50mph). Frontage to some residential dwellings and small commercial area, set back from the carriageway with good hedgerow screening between vehicles on the carriageway and people in their home / work. Access to PRow (footpaths).

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	Single Carriageway Road	7.3m	Good	Y - Footway on southern side of the carriageway, separated from the carriageway by a grass verge.	Y - Predominantly on southern side of the carriageway	N	30mph but increases to NSL between Bladon roundabout and Bladon village (approximately 60m).	Y - residential dwellings through Bladon	High - Single carriageway road with speed restriction variances based on section (30mph and NSL). Throughout Bladon there is extensive frontage access to residential dwellings. Footways provided in high footfall locations and access to PRow (footpath).

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L6b	A4095 between Orchard Field Lane and Manor Road	Single Carriageway Road	Between 6m and 7.3m	Limited in places due to crest and bends in road	Y - Footways in parts separated from the carriageway by a grass verge	Y - On both sides of the carriageway	N - but there are designated layby areas provided in Bladon village	30mph for approximately 750m from its junction with Orchard Field Lane, then 20mph	Y - residential dwellings through Bladon, primary school, public house, and church	High - Single carriageway road with speed restriction variances based on section (30mph and 20mph). Throughout Bladon there is extensive frontage access to residential dwellings, a church, primary school, and public house. Footways provided in high footfall locations and access to PRow (footpaths).

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L6c	A4095 Main Road between Manor Road and Cassington Road	Single Carriageway Road	6m	Limited in places due to bends in road lined with hedgerow	Y - Footways on northern side of the carriageway	N	N	20mph for approximately 50m from its junction with Manor Road then 50mph	Limited - few residential dwellings	Low - Single carriageway road with speed restriction variances based on section (20mph and 50mph). Frontage to few residential dwellings, set back from the carriageway with good hedgerow screening between vehicles on the carriageway and people in their home.
L6d	A4095 Main Road between Cassington Road and Lower Road	Single Carriageway Road	7.3m	Good	Y - Footways on northern side of the carriageway	N	N	50mph	N	Negligible - No sensitive receptors.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	Single Carriageway Road	5m	Limited in places due to bends in road lined with hedgerow	N	N	N	NSL	Limited - access to some residential properties and small commercial areas	Low - Single carriageway road subject to the NSL. Few sensitive receptors including residential properties and small commercial areas. Sensitive receptors are set back from the carriageway. Access to PRow (footpaths).
L8	A44 Woodstock Road between A4095 and Langford Lane	Dual Carriageway Road	Dual 7.3m	Good	Y - Shared footways / cycleways on both sides of the carriageway, separated from the carriageway by a grass verge	N - save for approximately 70m southeast of the Bladon Roundabout	N	NSL for approximately 1.15km southeast of Bladon Roundabout, then 50mph	Limited - some residential dwellings	Low - Dual carriageway road with speed restriction variances based on section (NSL and 50mph). Frontage to some residential dwellings with shared footways/cycleways segregated from the carriageway by a verge. Access to PRow (footpath).

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	Dual Carriageway Road between junctions with Langford Lane and Cassington Road, then Single Carriageway Road.	Dual 7.3m then between 7.3m and 8m (part of the link currently undergoing improvements - A44 Loop Farm Roundabout to Cassington Road Scheme)	Good	Y - Shared footways / cycleways or wide footways on both sides of the carriageway, in parts separated from the carriageway by a grass verge	Y - On both sides of the carriageway, save for occasional small sections of road	N	50mph	Limited - some residential dwellings, public house, petrol station, allotments	Low - 50mph dual carriageway road then 50mph single carriageway road with frontage to some residential dwellings, public house, allotments, and business units. Shared footways / cycleways, in parts segregated from the carriageway by a verge. Good screening between vehicles on the carriageway and people in their home. Footway provision commensurate with footfall and use. Access to PRow (footpaths).

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L11	A44 between A4260 Frieze Way and A34	Dual Carriageway Road	Dual 7.3m (road currently undergoing improvements - A34 / A44 Peartree Interchange Scheme)	Good	Y - Shared footway / cycleway on the western side of the carriageway, and footway on the eastern side of the carriageway for approximately 50m from Loop Farm Roundabout	Y - On both sides of the carriageway	N	50mph	Limited - one residential dwelling	Low - Dual carriageway road subject to a 50mph speed restriction. No sensitive receptors however one cluster of four slight PIAs on southbound arm of A44 at Peartree Roundabout, with no identified common contributory factors.
L12	A34 Northeast of A44 Woodstock Road	Trunk Road - Dual Carriageway Road	Dual 7.3m	Good	N	N	N	NSL	N	Negligible - No sensitive receptors.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L13	A44 Woodstock Road between A34 and A40 Northern By Pass Road	Dual Carriageway Road	Dual 7.3m	Good	Y - Shared footway / cycleway on western side of the carriageway, and shared footway / cycleway on parts of eastern side of the carriageway.	Y	N	30mph	Limited - petrol station, car garage, small commercial area	Medium - Dual carriageway road subject to 30mph speed restriction. Limited frontage to a petrol station, small commercial area and car garage and footway provision commensurate with footfall and use. Northern Gateway being built out currently with associated pedestrian and cyclist facilities and activity.

L14	A40 between A44 Woodstock Road and Eynsham Road	Dual Carriageway Road for approximately 525m west of Wolvercote Roundabout then Single Carriageway Road	Dual 7.3m then 7.3m	Limited in places due to crests in road	Y - shared footway / cycleway on both sides of the carriageway separated by a grass verge in sections	N - save for approximately 600m to the west of Wolvercote Roundabout	N	30mph for approximately 700m west of Wolvercote Roundabout, then 40mph for approximately 700m, then NSL	Limited - petrol station, car garage	Low / Medium - Dual carriageway and single carriageway road with speed restriction variances based on section (30mph, 40mph and NSL). Receptors of low sensitivity including a petrol station and car garage. Good footway provision commensurate with footfall and use. One cluster of four slight PIAs on westbound arm of A40 at Wolvercote Roundabout, with no identified common contributory factors. Northern Gateway being built out currently to the east of the A34, with associated pedestrian and cyclist facilities and activity, therefore eastern section of Link 14 (to the east of the
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Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
										A34) is medium sensitivity and to the west of the A34 is low sensitivity.
L15	A40 to the West of Eynsham Road	Single Carriageway Road	8m	Good	Y - shared footway / cycleway on both sides of the carriageway separated by a grass verge in sections	N - save for in the vicinity of Eynsham Roundabout (approximately 250m)	N	NSL	Limited - petrol station	Low - Single carriageway road subject to the NSL. Receptors of low sensitivity including a petrol station. Good footway / cycleway provision commensurate with footfall and use. Crossing of PRow (footpath) across the carriageway.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	Single Carriageway Road	Between 6m and 7.3m	Limited in places due to bends in road lined with hedgerow	N	N - save for in the vicinity of Eynsham Roundabout	N	NSL	Limited - commercial area and agricultural area	Low - Single carriageway road subject to the NSL. Frontage access to receptors of low sensitivity including small commercial and agricultural area. Unsegregated crossing of PRow (bridleway) across the carriageway.
L16b	Lower Road between Gate 18 / 138 and Church Road	Single Carriageway Road	6m	Limited in places due to bends in road lined with hedgerow	N	N	N	NSL	Limited - one residential dwelling, agricultural buildings, Willow Cottage Nursery	Low - Single carriageway road subject to the NSL. Limited frontage access to one residential dwelling, small agricultural area and Willow Cottage Nursery, low footfall.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L16c	Lower Road between Church Road and A4095 Main Road	Single Carriageway Road	6m	Limited in places due to crests and bends in road lined with hedgerow	N	N	N	NSL	Limited - one residential dwelling, small commercial areas	Low - Single carriageway road subject to the NSL. Limited frontage access to one residential dwelling and small commercial areas. Access to PRow (footpaths).
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	Single Carriageway Road	Generally 7m with localised ghost island right turn lane	Good	N	N - save for in the vicinity of Hanborough Road and Eynsham Roundabout, and junction with Cassington Road	N	40mph	N	Low - Single carriageway road subject to 40mph speed restriction. No frontage access to sensitive receptors. Unsegregated crossing of PRow (bridleway) across the carriageway.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	Single Carriageway Road	Generally 7m with localised ghost island right turn lane	Good	Y - on western side of the carriageway for approximately 100m south of junction with Cassington Road, then again on western side of the carriageway for approximately 230m north of junction with B4044	Y - on both sides of the carriageway	N	40mph	N	Low - Single carriageway road subject to 40mph speed restriction. Adequate footway provision commensurate with footfall and use to Eynsham Village. Crossing of PRoW (footpath) across the carriageway
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	Single Carriageway Road	7.3m	Good	Y - Footway on southern side of the carriageway	Y - on northern side of the carriageway	Y - on southern side of the carriageway for approximately 75m	30mph	Y - Siemens manufacturers facility and car parks, Eynsham Allotment Association	Medium - Single carriageway road (designated as a bridleway) with frontage to some sensitive receptors including a large employment area and allotments. Some on street parking and footway provision commensurate with demand.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	Single Carriageway Road	6m	Limited in places due to bends in road lined with hedgerow	Y - Footway on southern side of carriageway between Oxford Cruisers junction and B4017 Cumnor Road. Footways in vicinity of residential dwellings through Farmoor, in parts separated from the carriageway by a wide grass verge (on the southern side of the carriageway).	N - save for in vicinity of junction with B4017 Cumnor Road	N - but there are two designated layby areas provided in the vicinity of Oxford Cruisers	30mph for approximately 600m from junction with B4017 Cumnor Road, then 40mph for approximately 500m, then 50mph	Y - residential dwellings through Farmoor Village, Oxford Language College, commercial area including Oxford Cruisers	Medium - Single carriageway road with speed restriction variances based on section (30mph, 40mph and 50mph). 30mph speed restriction throughout Farmoor village with frontage to residential dwellings and footway provision. Residential dwellings and footways are generally set back from the carriageway by a wide verge. Oxford Language College and commercial area well screened from the carriageway by hedgerow. Access to PRow (footpaths) and some cyclist movements.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L21	B4017 Cumnor Road between B4044 and Gate 1	Single Carriageway Road	6m	Limited in places due to bend in road lined with hedgerow, and a crest in road near junction with B4044	N - save for footways on western side of carriageway for approximately 375m south of B4044 junction and eastern side of carriageway for approximately 100m	N - save for in vicinity of junction with B4044	N	20mph for approximately 300m south of junction with B4044, then 40mph for approximately 230m, then NSL	Y - residential dwellings through Farmoor Village, Oxford Veterinary Specialists, Jumpers Farm, Nursery, Farmoor Reservoir (activities), Farmoor Water Treatment Works, small commercial areas	Medium - Single carriageway road with speed restriction variances based on section (20mph, 40mph and NSL). Some sensitive receptors including frontage to residential dwellings, village hall, nursery and commercial areas with footway provision commensurate with demand. Access to PRow (footpaths) and some cyclist movements.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	Single Carriageway Road	6.5m	Good	N - save for footways between junction with Orchard Road and Nobles Lane (approximately 175m)	N - save for in vicinity of junction with A420	N	50mph, but reduces to 30mph through Farmoor (approximately 80m) and Deans Court (approximately 225m)	Y - Valley Farm campsite, Woodend farm, some residential dwellings, Red House Farmhouse, Hill End Education Centre, Oaken Holt Nursing and Residential Home	Low - Single carriageway road with speed restriction variances based on section (50mph and 30mph). Frontage to some residential dwellings, commercial areas, accommodation and nursing and residential home, all set back from the carriageway and well screened by hedgerow. Footway provision commensurate with demand. Access to PRow (footpaths) and some cyclist movements.
L23	A420 between B4044 Eynsham Road and A34	Dual Carriageway Road	Dual 7.3m	Good	N	N - save for in the vicinity of Botley Interchange roundabout (approximately 250m)	N - but there are designated layby areas provided	NSL	N	Negligible - No sensitive receptors.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L24	A34 Southeast of A420	Trunk Road - Dual Carriageway Road	Dual 7.3m	Good	Y - on northeastern side of the carriageway only, starting approximately 475m south of Botley Interchange Roundabout (A420 Junction) to the Hinksey Hill Interchange Roundabout	N	N	50mph	Limited - approximately five residential dwellings on northeastern side of carriageway	Low - Dual carriageway trunk road subject to 50mph speed restriction. Some frontage to residential dwellings and footway provision commensurate for its use and footfall.
L25	A34 between A420 and A44 Woodstock Road	Trunk Road - Dual Carriageway Road	Dual 7.3m	Good	N	N	N	50mph in the vicinity of the Botley Interchange roundabout then NSL	N	Negligible - No sensitive receptors.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L27	Langford Lane between A44 Woodstock Road and The Boulevard	Single Carriageway Road	Generally 7m with localised ghost island right turn lanes	Good	Y - Shared footway / cycleway on southern side of the carriageway for approximately 215m from junction with The Boulevard, then continues as footway on southern side	N - save for between junctions with Evenlode Crescent and The Boulevard	N	NSL for approximately 525m from junction with A44 Woodstock Road then 30mph	N - save for emergency access to Oxford Airport	Low - Single carriageway road with speed restriction variances based on section (NSL and 30mph). Shared footway / cycleway along part of link and footway along remainder commensurate with demand.
L28	Banbury Road between the B4027 and Gate 5 / 66	Single Carriageway Road	5m	Good	N	N	N	NSL	N	Low - Single carriageway road subject to NSL. Limited use of non-motorised users along link.
L29	Stratford Lane between the B4027 and Gate 70	Single Carriageway Road	5m	Limited in places due to bend in road lined with hedgerow	N	N	N	NSL	Limited - The Oxford School of Drama	Low - Single carriageway road subject to the NSL. Limited frontage access to the Oxford School of Drama, low footfall.

Link reference	Description	Link type	Typical width	Forward visibility	Footways	Street lighting	On-street parking	Speed limit	Frontage access	Sensitive receptors
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	Single Carriageway Road	5.5m	Limited in places due to bend in road lined with hedgerow	N	N	N	40mph	Limited - Jericho Farm Barns (few residential properties) and Worton Park (accommodation, events hall, and business area)	Low - Single carriageway road subject to 40mph speed restriction. Limited frontage access to few residential properties, and Worton Park (accommodation, events hall and business area), all very set back from the carriageway with good hedgerow screening from vehicles on the carriageway. Access to PRow (footpath).

Figure 1.1: Traffic and transport study area and highway network overview

