

Preliminary Environmental Information Report

Volume 1, Appendix 3.4: Onshore Crossing Schedule



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Glossary

Term	Meaning
Development Consent Order	An order made under the Planning Act 2008, as amended, granting development consent.
Environmental Impact Assessment	The process of identifying and assessing the significant effects likely to arise from a project. This requires consideration of the likely changes to the environment, where these arise as a consequence of a project, through comparison with the existing and projected future baseline conditions.
Onshore HVDC Cable Corridor	The proposed corridor within which the onshore High Voltage Direct Current cables would be located.
Preliminary Environmental Information Report	A report that provides preliminary environmental information in accordance with the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This is information that enables consultees to understand the likely significant environmental effects of a project, and which helps to inform consultation responses.
Proposed Development	The element of the Xlinks Morocco-UK Power Project within the UK, which includes the offshore cables (from the UK Exclusive Economic Zone to landfall), landfall site, onshore Direct Current and Alternating Current cables, converter stations, road upgrade works and, based on current assumptions, the Alverdiscott Substation Connection Development.

Acronyms

Acronym	Meaning
DCO	Development Consent Order
HVDC	High Voltage Direct Current
PEIR	Preliminary Environmental Information Report
PRoW	Public Right of Way

1 ONSHORE CROSSING SCHEDULE

1.1 Introduction

- 1.1.1 This document forms Volume 1, Appendix 3.4: Onshore Crossing Schedule of the Preliminary Environmental Information Report (PEIR) prepared for the UK elements of the Xlinks Morocco-UK Power Project (referred to hereafter as 'the Proposed Development'). The PEIR presents the preliminary findings of the Environmental Impact Assessment process for the Proposed Development.
- 1.1.2 The purpose of this Onshore Crossing Schedule is to provide a mechanism to identify the indicative location of a range of obstacles along the proposed Onshore HVDC Cable Corridor and notes how they are proposed to be crossed. Figure 1.1 shows the indicative locations of the obstacles to be crossed. These will be updated post-PEIR, following consultation and refinements in design, and presented as part of the Environmental Statement.
- 1.1.3 There are two broad techniques considered, trenching and trenchless. Trenched crossings will involve a method of installation that requires open trench excavation, disturbing the ground surface. At trenched crossings, micro-siting will be applied, where possible, to reduce or avoid the level of disturbance to the obstacle. Trenchless techniques involve installation in which a duct is installed with little or no surface excavation. Where a decision is yet to be made on the crossing technique both trenching and trenchless techniques are identified.
- 1.1.4 Locations where a trenchless crossing is required will be secured as part of the Development Consent Order (DCO). Trenchless installation techniques would be used to install the cable ducts and electrical circuits where identified in the onshore crossing schedule unless otherwise agreed by the relevant planning authority, following consultation with the relevant statutory consultees.

1.2 Indicative Vegetation Crossing Schedule

1.2.1 **Table 1.1** sets out the indicative vegetation crossing schedule for the Onshore HVDC Cable Corridor and the crossing locations are shown on **Figure 1.1**.

Table 1.1: Onshore Crossing Schedule – Indicative Vegetation Crossings

Crossing Reference	ence Method		Further Details		
HE01	241834	127694	Hedgerow	Open Trench	
HE02	242055	127565	Hedgerow	Open Trench	
HE03	242133	127503	Hedgerow	Open Trench	
HE04	242142	127492	Hedgerow	Open Trench	
HE05	242162	127468	Hedgerow	Open Trench	
HE06	242234	127342	Hedgerow	Open Trench	
HE07	242237	127336	Hedgerow	Open Trench	
HE08	242212	126831	Hedgerow	Open Trench	
HE09	242207	126821	Hedgerow	Open Trench	
HE10	242164	126719	Hedgerow	Open Trench	
HE11	242139	126566	Hedgerow	Open Trench	
HE12	242139	126560	Hedgerow	Open Trench	
HE13	242121	126408	Hedgerow	Open Trench	
HE14	242081	126269	Hedgerow	Open Trench	
HE15	242006	126134	Hedgerow	Open Trench	
HE16	242001	126018	Hedgerow	Open Trench	
HE19	241771	125421	Hedgerow	Open Trench	
HE20	241699	125295	Hedgerow	Open Trench	
HE21	241669	125188	Hedgerow	Open Trench	
HE22	241645	125002	Hedgerow	Open Trench	
HE23	241624	124821	Hedgerow	Open Trench	

Crossing Reference	Easting	Northing	Vegetation Type	Proposed Crossing Method	Further Details
HE24	241625	124809	Hedgerow	Open Trench	
HE25	241881	124626	Hedgerow	Trenchless Crossing	
HE26	241888	124622	Hedgerow	Trenchless Crossing	
HE27	242133	124500	Hedgerow	Open Trench	
HE28	242313	124403	Hedgerow	Open Trench	
HE29	242320	124399	Hedgerow	Open Trench	
HE30	242543	124164	Hedgerow	Open Trench	
HE31	242833	124050	Hedgerow	Open Trench	
HE32	243065	124101	Hedgerow	Open Trench	
HE33	243071	124100	Hedgerow	Open Trench	
HE34	243581	124070	Hedgerow	Open Trench/ Trenchless Crossing	
HE35	243726	124126	Hedgerow	Open Trench	
HE36	244054	124120	Hedgerow	Open Trench	
HE37	244111	124140	Hedgerow	Open Trench	
HE38	244115	124144	Hedgerow	Open Trench	
HE39	244240	124209	Hedgerow	Trenchless Crossing	
HE40	244578	124490	Hedgerow	Open Trench	
HE41	244784	124300	Hedgerow	Open Trench	
HE42	244790	124298	Hedgerow	Open Trench	
HE43	244983	124266	Hedgerow	Open Trench	
HE44	245438	124327	Hedgerow	Open Trench	
HE45	245389	124563	Hedgerow	Open Trench	
HE46	245387	124572	Hedgerow	Open Trench	
HE47	245396	124763	Hedgerow	Open Trench	
HE48	245424	124798	Hedgerow	Open Trench	
HE49	246474	125162	Hedgerow	Trenchless Crossing	

Crossing Reference	Easting	Northing	Vegetation Type	Proposed Crossing Method	Further Details
HE50	246645	125217	Hedgerow	Open Trench	
HE51	246848	125251	Hedgerow	Open Trench	
HE52	247009	125231	Hedgerow	Open Trench	
HE53	247221	125211	Hedgerow	Open Trench	
HE54	247229	125213	Hedgerow	Open Trench	
HE55	247443	125278	Hedgerow	Open Trench	
HE56	247941	125025	Hedgerow	Open Trench	
HE57	247974	125000	Hedgerow	Open Trench	
HE58	248098	124945	Hedgerow	Open Trench	
HE59	248291	124714	Hedgerow	Open Trench	
HE60	248400	124600	Hedgerow	Open Trench	
HE61	248821	124523	Hedgerow	Open Trench	
HE62	248850	124553	Hedgerow	Open Trench	
HE63	248854	124564	Hedgerow	Open Trench	
HE64	248869	124763	Hedgerow	Open Trench	
HE65	248942	124867	Hedgerow	Open Trench	
HE66	248948	124873	Hedgerow	Open Trench	
HE67	249149	124942	Hedgerow	Open Trench	
HE68	249215	124979	Hedgerow	Open Trench	
HE69	249222	124981	Hedgerow	Open Trench	
HE71	249642	125010	Hedgerow	Open Trench	
HE70	249435	125046	Hedgerow	Open Trench	
TR01	242290	127049	Group of Trees	Trenchless Crossing	
TR02	241995	125881	Tree	Open Trench	
TR03/HE17	241967	125793	Tree	Open Trench	
TR04	241922	125687	Tree	Open Trench	
TR05	241834	125520	Tree	Trenchless Crossing	

Crossing Reference	Easting	Northing	Vegetation Type	Proposed Crossing Method	Further Details
HE18/TR06	241813	125487	Tree	Trenchless Crossing	
TR08	243803	124124	Tree	Open Trench	
TR09	244272	124344	Tree	Trenchless Crossing	
TR10	245662	124919	Tree	Trenchless Crossing	
TR11	246003	125011	Tree	Trenchless Crossing	
TR12	247738	125183	Tree	Open Trench	
TR13	249337	125012	Tree	Open Trench	
TR03/HE17	241978	125773	Tree	Open Trench	
TR04	241927	125686	Tree	Open Trench	
TR07	243264	124134	Tree	Open Trench/ Trenchless Crossing	
HE34	243592	124130	Hedgerow	Open Trench/ Trenchless Crossing	
HE39	244214	124246	Hedgerow	Trenchless Crossing	
TR09	244255	124356	Tree	Trenchless Crossing	
TR10	245643	124940	Tree	Trenchless Crossing	
TR11	245946	125070	Tree	Trenchless Crossing	
HE49	246224	125190	Hedgerow	Trenchless Crossing	
TR14	249809	125059	Tree	Open Trench/ Trenchless Crossing	

1.3 Indicative Road, Track and Public Right of Way Crossings

1.3.1 **Table 1.2** sets out the indicative road, track and Public Right of Way (PRoW) crossings for the Onshore HVDC Cable Corridor and the crossing locations are shown on **Figure 1.1**.

Table 1.2: Onshore Crossing Schedule – Indicative Road, track and PRoW crossings

Crossing Reference	Easting Northing Obstacle (Road, track, Proposed Crossing Method		Further Details		
RD13	245662	124919	A386 Road	Trenchless Crossing	A-Road
RD01	242137	127497	Road	Open Trench	Classified Unnumbered
RD02	242235	127339	Road	Open Trench	Road Unclassified
RD03	242210	126827	Road	Open Trench	Classified Unnumbered
RD04	242139	126562	Road	Open Trench	Classified Unnumbered
RD05	241825	125507	Road	Trenchless Crossing	A-Road
RD06	241624	124814	Road	Open Trench	Road Unclassified
RD07	241884	124624	Road	Trenchless Crossing	Road Not Classified
RD08	242314	124402	Road	Open Trench	Classified Unnumbered
RD09	243068	124101	Road	Open Trench	Road Unclassified
RD10	244114	124143	Road	Open Trench	Road Not Classified
RD11	244787	124299	Road	Open Trench	Road Unclassified
RD15	247226	125212	Road	Open Trench	Road Unclassified
RD16	248852	124556	Road	Open Trench	Classified Unnumbered
RD17	248945	124871	Road	Open Trench	Road Unclassified
RD18	249220	124981	Road	Open Trench	Road Unclassified
RD12	245388	124567	Road	Open Trench	Road
RD14	245988	125007	Tarka Trail	Trenchless Crossing	
TK01	241699	125295	Track	Open Trench	
TK02	244978	124266	Track	Open Trench Farmers Path	
TK03_2	246518	125196	Track	Open Trench	
TK03_1	246471	125160	Track	Open Trench	

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Crossing Reference	Easting	Northing	Obstacle (Road, track, PRoW, etc.)	Proposed Crossing Method	Further Details
RD13	245641	124939	A386 Road	Trenchless Crossing	A-Road
RD14	245913	125056	Tarka Trail	Trenchless Crossing	

1.4 Indicative Watercourse Crossings

1.4.1 **Table 1.3** sets out the indicative Watercourse crossings for the Onshore HVDC Cable Corridor and the crossing locations are shown on **Figure 1.1**.

Table 1.3: Onshore Crossing Schedule - Indicative Watercourse crossings

Crossing Reference	Easting	Northing	Watercourse	Proposed Crossing Method	Further Details
WA06	245823	124962	River Torridge	Trenchless Crossing	
WA01	242290	127049	Watercourse	Trenchless Crossing	
WA02	241771	125421	Watercourse	Open Trench	
WA04	243800	124124	Watercourse	Open Trench	
WA05	244272	124344	Watercourse	Trenchless Crossing	
WA07	249917	125054	Watercourse	Open Trench	
WA03	243264	124134	Watercourse	Open Trench/ Trenchless Crossing	
WA05	244255	124356	Watercourse	Trenchless Crossing	
WA06	245771	124995	River Torridge	Trenchless Crossing	
WA07	249869	125081	Watercourse	Open Trench	

1.5 Indicative Utility Crossings

1.5.1 **Table 1.4** sets out the indicative Utility crossings for the Onshore HVDC Cable Corridor and the crossing locations are shown on **Figure 1.1**.

Table 1.4: Onshore Crossing Schedule – Indicative Utility crossings

Crossing Reference	Easting	Northing	Utility Type	Owner	Proposed Crossing Method	Further Details
BTO01	242231	127348	British Overhead Telecom Cable	BritishTelecom	Open Trench	
BTO02	242203	126814	British Overhead Telecom Cable	OpenReach	Open Trench	
BTO03	242139	126566	British Overhead Telecom Cable	OpenReach	Open Trench	
BTO04	241816	125492	British Overhead Telecom Cable	OpenReach	Trenchless Crossing	
BTO05	241625	124805	British Overhead Telecom Cable	OpenReach	Open Trench	
BTO06	241875	124629	British Overhead Telecom Cable	OpenReach	Trenchless Crossing	
BTO07	243061	124102	British Overhead Telecom Cable	OpenReach	Open Trench	
BTO07	244110	124140	British Overhead Telecom Cable	OpenReach	Open Trench	
WU01	249239	124986	Gas Pipe Medium Pressure	Wales and West Utilities	Open Trench	
WPD08	244119	124147	High Voltage Cable 11kv	National Grid	Open Trench	
WPD10	244401	124565	High Voltage Overhead Line 11KkV	National Grid	Open Trench	
WPD09	244128	124156	High Voltage Overhead Line 11kV	National Grid	Open Trench	
WPD11	244996	124265	High Voltage Overhead Line 11kV	National Grid	Open Trench	

Crossing Reference	Easting	Northing	Utility Type	Owner	Proposed Crossing Method	Further Details
WPD12	245651	124916	High Voltage Overhead Line 11kV	National Grid	Trenchless Crossing	
WPD14	246999	125233	High Voltage Overhead Line 11kV	National Grid	Open Trench	
WPD15	247678	125213	High Voltage Overhead Line 11kV	National Grid	Open Trench	
WPD16	249217	124980	High Voltage Overhead Line 11kV	National Grid	Open Trench	
WPD02	242773	124068	High voltage overhead line 33kV	National Grid	Open Trench	
WPD04	243244	123957	High voltage overhead line 33kV	National Grid	Open Trench/ Trenchless Crossing	
WPD05	243368	124003	High voltage overhead line 33kV	National Grid	Open Trench/ Trenchless Crossing	
WPD07	244077	124123	High voltage overhead line 33kV	National Grid	Open Trench	
WPD13	245652	124916	Low Voltage Overhead Line	National Grid	Trenchless Crossing	
SWT01	241449	127878	Pipe	South West Water		
S01	243958	124122	Service		Open Trench	
SP01	249732	125014	Solar Panels		Open Trench	
SP02	249854	125016	Solar Panels		Open Trench	
BTO09	244782	124300	Telecom Cable	OpenReach	Open Trench	
BTO10	247220	125210	Telecom Cable	OpenReach	Open Trench	
BTO12	248853	124560	Telecom Cable	OpenReach	Open Trench	
BTO13	249220	124981	Telecom Cable	OpenReach	Open Trench	
BTO11	247787	125145	Telecom Cable Proposed	OpenReach	Open Trench	
WP01	242224	126853	Water Pipe		Open Trench	
WP02	242314	124402	Water Pipe Abandoned	South West Water	Open Trench	
WP04	242586	124136	Water Pipe Abandoned	South West Water	Open Trench	

Crossing Reference	Easting	Northing	Utility Type	Owner	Proposed Crossing Method	Further Details
WP09	247761	125198	Water Pipe Abandoned	South West Water	Open Trench	
WP11	248856	124582	Water Pipe Abandoned	South West Water	Open Trench	
WP03	242320	124399	Water Pipe Distribution Main	South West Water	Open Trench	
WP01	241794	125457	Water Pipe Main	South West Water	Open Trench	
WP07	243277	123955	Water Pipe Private	South West Water	Open Trench	
WP05	242660	124078	Water Pipe Trunk Main	South West Water	Open Trench	
WP08	247758	125196	Water Pipe Trunk Main	South West Water	Open Trench	
WP10	248851	124554	Water Pipe Trunk Main	South West Water	Open Trench	
WP06	243062	124102	Water Pipe Trunk Main	South West Water	Open Trench	
WP12	249197	124975	Water Trunk Main	South West Water	Open Trench	
WP13	249214	124979	Water Trunk Main	South West Water	Open Trench	
WPD01	242301	127088	WPD Overhead Line 11kV	National Grid	Open Trench	
WPD03	243055	124102	WPD Overhead line 11Kv	National Grid	Open Trench	
WPD05	243277	124137	High voltage overhead line 33kV	National Grid	Open Trench/ Trenchless Crossing	
WPD13	245634	124935	Low Voltage Overhead Line	National Grid	Trenchless Crossing	
WPD06	243420	124146	High voltage overhead line 33kV	National Grid	Open Trench/ Trenchless Crossing	
WL01	243132	124110	Well		Trenchless Crossing	























