

Stonestreet Green Solar

Environmental Statement

Volume 4: Appendices

Chapter 14: Noise

Appendix 14.5: Construction Phase Plant List

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Version 1

June 2024

APFP Regulation 5(2)(a)

Planning Act 2008

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





Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
<i>Work No. 1 - Solar photovoltaic generating station (PV panels installation)</i>				
1.1 PV Array Installation and Piling	Dump truck	C.5.16	104	1
	Tracked excavator	C.4.63	105	1
	Diesel generator	C.4.85	94	1
	Mini piling rig	C.3.18	105	1
<i>Work No. 2 – Balance of system and bess</i>				
2.1 Inverter Stations (including BESS)	Tracked excavator	C.02.14	107	2
	Wheeled loader	C.02.27	108	1
	Mobile telescopic crane	C.04.41	99	2
	Wheeled mobile crane	C.03.30	98	4
	Dump truck (tipping fill)	C.02.30	107	2



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
	Telescopic handler	C.02.35	99	2
	Cement mixer truck (discharging)	C.04.18	108	1
	Lorry	C.02.34	108	4
	Mini piling rig	C.03.17	104	1
	Hand-held welder (welding pipes)	C.03.31	101	4
	Generator for welding	C.03.32	101	1
	Lifting platform	C.04.57	95	4
	Site lift for workers	C.04.62	94	4
	Diesel generator	C.04.85	94	2
2.2 Intermediate Substations	Tracked excavator	C.02.14	107	1
	Wheeled loader	C.02.27	108	1



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
	Mobile telescopic crane	C.04.41	99	1
	Wheeled mobile crane	C.03.30	98	2
	Dump truck (tipping fill)	C.02.30	107	1
	Telescopic handler	C.02.35	99	1
	Cement mixer truck (discharging)	C.04.18	108	1
	Lorry	C.02.34	108	2
	Hand-held welder (welding pipes)	C.03.31	101	2
	Generator for welding	C.03.32	101	1
	Lifting platform	C.04.57	95	1
	Diesel generator	C.04.85	94	2



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
<i>WORK NO. 3 – PROJECT SUBSTATION</i>				
3.1 Enabling Works	Tracked excavator	C.02.14	107	2
	Generator	C.4.85	94	2
3.2 Piling	Tracked excavator	C.02.14	107	2
	Wheeled mobile crane	C.03.30	98	1
	Telescopic handler	C.02.35	99	1
	Lorry	C.02.34	108	2
	Crawler mounted rig	C.03.21	107	1
	Diesel generator	C.04.85	94	2
3.3 Civils	Tracked excavator	C.02.14	107	2
	Wheeled mobile crane	C.03.30	98	4



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
	Telescopic handler	C.02.35	99	1
	Lorry	C.02.34	108	4
	Mini piling rig	C.03.17	104	1
	Hand-held welder (welding pipes)	C.03.31	101	4
	Generator for welding	C.03.32	101	1
	Lifting platform	C.04.57	95	4
	Site lift for workers	C.04.62	94	4
	Diesel generator	C.04.85	94	2
3.4 Substation Construction	Tracked excavator	C.02.14	107	1
	Wheeled mobile crane	C.03.30	98	2
	Telescopic handler	C.02.35	99	1



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
	Lorry	C.02.34	108	2
	Hand-held welder (welding pipes)	C.03.31	101	4
	Generator for welding	C.03.32	101	1
	Lifting platform	C.04.57	95	4
	Site lift for workers	C.04.62	94	4
	Diesel generator	C.04.85	94	2
<i>Work No. 4 – Grid Connection and Sellindge Substation Extension</i>				
4.1 & 4.2 Cable Trenching	Tracked Excavator	C.4.63	105	1
	Backhoe Loader	C.4.66	97	1
	Articulated Dumper	C.4.9	105	2
	Backhoe Loader	C.4.66	97	2



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
4.1 & 4.2 Cable Install	Articulated Dumper	C.4.9	105	2
	Roller	C.5.27	95	1
4.3 HDD below HS1 / Network Rail (if required)	Directional drill (generator)	C.02.44	106	1
	Water pump	C.02.45	93	1
	Tracked excavator	C.02.14	107	1
	Tracked drilling rig with hydraulic drifter	C.03.15	111	1
Work 5 – Associated Works				
5.1 Cable Trenching	Tracked Excavator	C.4.63	105	1
	Backhoe Loader	C.4.66	97	1
	Articulated Dumper	C.4.9	105	2
	Backhoe Loader	C.4.66	97	2



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
5.2 Cable Install	Articulated Dumper	C.4.9	105	2
	Roller	C.5.27	95	1
5.3 HDD	Directional drill (generator)	C.02.44	106	1
	Water pump	C.02.45	93	1
	Tracked excavator	C.02.14	107	1
	Tracked drilling rig with hydraulic drifter	C.03.15	111	1
5.4 Fire Access Routes	Backhoe Loader	C.4.66	97	1
	Articulated Dumper	C.4.9	105	1
	Dozer	C.2.1	106	1
	Petrol Saw	C.4.70	122	1
	Tracked Excavator	C.5.35	103	2



Construction Phase Plant Lists				
Work Package	Plant	BS5228 Ref	*Sound Power dBA	Number
5.5 Goldwell Lane Cable Install	Dumper Idle	C.4.8	84	2
	Articulated dump Truck	C.5.16	109	2



5.6 Goldwell Lane Compaction	Vibratory tamper	C.4.35	91	1
	Vibratory Compactor (Asphalt)	C.5.29	111	1

Works 7 – Construction and Decommissioning Works

7.1 Installation of Temporary Haul Road	Backhoe Loader	C.4.66	97	1
	Articulated Dumper	C.4.8	84	1
	Drill	C.4.69	113	2
7.2 Use of Haul Road	HGV	C.2.14	108	20/hr
7.3 Primary Compound (All plant fully screened)	Diesel Generator	C.4.77	88	6
	Wheeled Crane	C.3.30	98	2
	Lorry	C.2.34	108	4
	Dumper Truck	C.4.5	91	2
	Excavator	C.4.65	99	2



7.4-7.7 Secondary Compound (All plant fully screened)	Diesel Generator	C.4.77	88	2
	Wheeled Crane	C.3.30	98	1
	Lorry	C.2.34	108	2
	Dumper Truck	C.4.5	91	1
	Excavator	C.4.65	99	1

* Sound power level calculated from sound pressure level at 10 m as presented in BS 5228-1:2009+A1:2014, Code of practice for noise and vibration control on construction and open sites – Part 1: Noise.