

BASIC ASSESSMENT REPORT

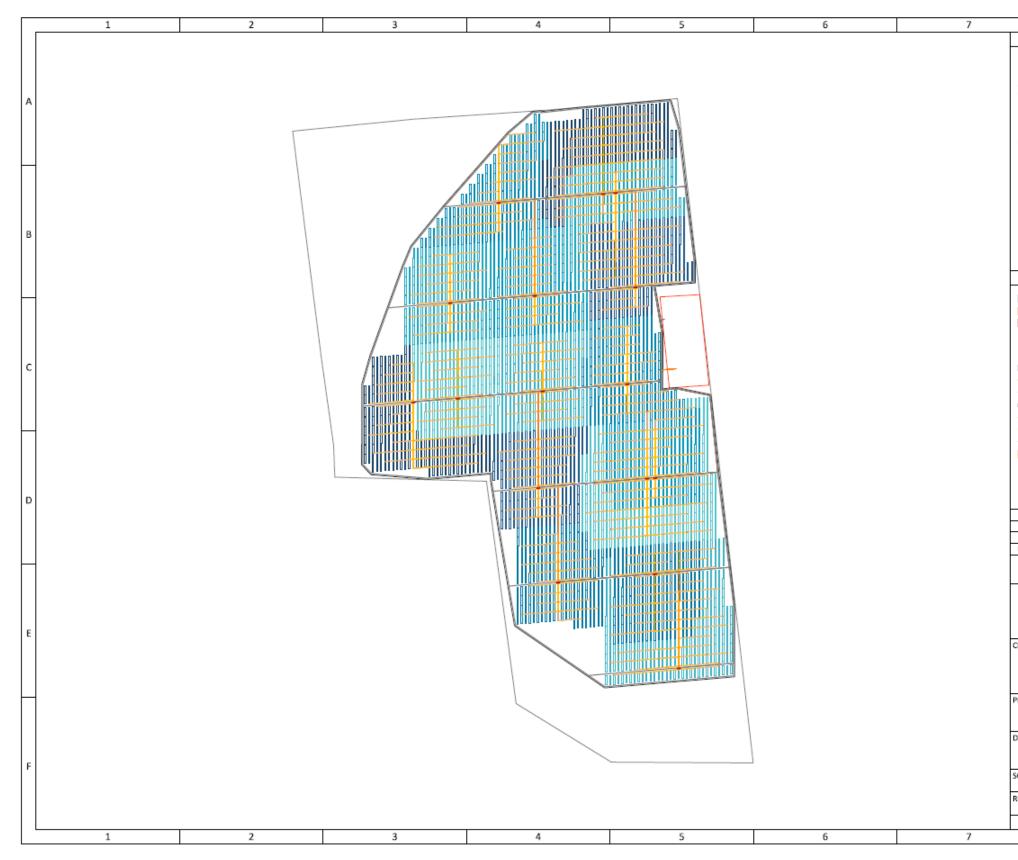
Basic Assessment for the proposed development of a 115 MW Solar Photovoltaic (PV) Facility and associated electrical infrastructure (i.e. Kenhardt PV 5), north-east of Kenhardt, in the Northern Cape

APPENDIX B: FACILITY ILLUSTRATIONS

SECTION F: APPENDICES

Basic Assessment for the for the Proposed Development of the Scatec Kenhardt Solar PV5 project and associated electrical infrastructure, Kenhardt, Northern Cape.

Map 1 – Project Facility and Engineering designs (Layout and footprint)



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	Notes			
PV Plant: Kenhardt Location: Northern Cape, South Africa UTM convergence: -0.1437 Altitude: 934.2 m Suitable area: 241.7 ha Perimeter fence: 6.03 km Rated Power: 80.0 MW Peak Power: 80.1 MW Ratio DC/AC: 1.08 Structure: Monoline 2V PV Module: Canadian Solar Inc. C53W-415P 1500V HE				A
Inverter: Gamesa Electric Gamesa E-2.5MVA-58-I Power Station: 5000.0 kVA, 0.66/33.0kV Pitch distance: 14.0 m Modules per string: 30 Number of PV modules: 207360 Number of string boxes: 576 Number of inverters: 32 Number of power stations: 16 Legend				в
Available area				
Available area Substation Power station Colors indicate solar field connection to each power station Mounting structure Roads Medium voltage trenches Low voltage trenches Fences Medium voltage lines String cables				с
Cables from string box to inverter Cables from string box to inverter String boxes				D
	Concept Lay	out		\vdash
LIENT: Scatec Solar Improving our future"				E
ROJECT:				⊢
Kenhardt PV 5 PRAWING: PV Plant Layout				
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