

**Basic Assessment for the Proposed Development of a 115 MW Solar Photovoltaic (PV) Facility and associated electrical infrastructure (Kenhardt PV6), near Kenhardt, Northern Cape**

Our Ref:



an agency of the  
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
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Date: Monday March 23, 2020  
Page No: 1

CaseID: 14912

## **Interim Comment**

**In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)**

Attention: Scatec Solar Africa

**Scatec Solar Africa (Pty) Ltd (the project developer, trading as the applicant Kenhardt Solar PV 6) with support from Veroniva (Pty) Ltd, are proposing to develop three 115 MW Solar Photovoltaic (PV) Facilities and associated electrical infrastructure (including a 132 kV overhead power line from each PV Facility to the Eskom Nieuwehoop Substation), near Kenhardt in the Northern Cape. The proposed projects are referred to as “Kenhardt PV4, Kenhardt PV5 and Kenhardt PV6” and are located on the remaining extent of Onder Rugzeer Farm 168 and the connection points to the Eskom Nieuwehoop Substation on the remaining extent of Portion 3 of Gembok Bult Farm 120. These projects are proposed approximately 80 km south of Upington and 20-30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province.**

The Council for Scientific and Industrial Research (CSIR) has been appointed by Scatec Solar (Pty) Ltd to conduct an Environmental Authorisation (EA) Application for the proposed 115MW Solar Photovoltaic (PV) Facility and associated electrical infrastructure (Kendhardt PV 6), north east of Kenhardt, Northern Cape Province.

A draft Basic Assessment Report (dBAR) has been submitted in terms of the National Environmental Management Act, no 107 of 1998 (NEMA) and the NEMA Environmental Impact Assessment (EIA) Regulations. The proposed activities include solar arrays covering 250 ha and associated infrastructure such as offices, operational and maintenance control centre, warehouse/workshop, ablution facilities, convertor stations, on-site substation, guard houses, approximately 12 km 132kV powerline, internal 33kV powerlines/underground cables, underground low voltage cables, approximately 20 km of access roads, fencing, stormwater channels and laydown areas.

Natura Viva CC and ASHA Consulting (Pty) Ltd have been appointed to provide heritage specialist input as part of the BAR process as required by section 24(4)b(iii) of NEMA and section 38(3) and 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA).

*Almond, J. E. 2019. Palaeontological Impact Assessment: Basic Assessment for the Proposed Development of a 100MW Solar Photovoltaic Facility (Kenhardt PV6) on Onder Rugzeer Farm 168 and associated electrical*

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Page No: 2

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*infrastructure, north-east of Kenhardt, Northern Cape Province.*

The proposed development area is underlain at depth by Precambrian basement rocks that do not contain fossils. These rocks are overlain by Late Caenozoic sediments and Pleistocene aeolian sediments of the Gordonia Formation which contain sparse fossil remains. The impact of the development on palaeontological heritage is assessed as very low and no significant impacts are expected. A Chance Fossil Finds Procedure is recommended to be included in the EMPr.

*Orton, J. 2019. Heritage Impact Assessment: Basic Assessment for the proposed construction of the Kenhardt PV6 Solar Photovoltaic Facility and associated electrical infrastructure, near Kenhardt, Northern Cape.*

No site visit was undertaken as the author had surveyed the area in 2015. A total of 14 heritage resources were identified within the PV 6 project area as a result of the 2015 survey. These include flakes quartz outcrops with associated Stone Age lithics and historical glass fragments, quartz handaxes, surface scatters of Stone Age lithics with ostrich eggshell and bone fragments all rated as resources of low heritage significance. Two LSA lithic scatters around the edge of a pan and a dense possible LSA scatter were assessed to be rated as heritage resources of higher significance. As per the maps on page 43 and 44 of the report, a total of five (5) heritage resources were identified within the powerline corridor. These include flakes quartz outcrops, surface scatters of Stone Age lithics and one mixed scatter of MSA, LSA and historical material along the side of a pan fragments all rated as resources of low heritage significance.

Recommendations provided in the report include the following:

- If the pan close to Nieuwehoop Substation is to be disturbed, then it should be checked for archaeological materials and a decision made as to whether mitigation is required;
- The two archaeological sites within the PV6 study area should be avoided. If avoidance is not possible then mitigation should be carried out prior to development;
- A pre-construction survey focusing on the well-defined water courses should be carried out to check for further significant stone artefacts scatters; and
- If any palaeontological or archaeological material or human burials are uncovered during the course of development, then work in the immediate area should be halted. The find would need to be reported to the heritage authorities and may require inspection by an archaeologist. Such heritage is the property of the state and may require excavation and curation in an approved institution.

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Page No: 3

The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit cannot accept the submitted HIA as no site visit was conducted for the proposed development. SAHRA APM unit notes the 2015 survey, however a new site visit should have been undertaken as erosion over the years may have uncovered additional heritage resources.

SAHRA requests that an updated HIA be completed, inclusive of a recent site visit.

As this will influence the timeframes of the BAR process, SAHRA advises the applicant to apply for an extension of the BAR process as per section 19(1)b of the NEMA Regulations in order to comply with this comment.

Further comments will be issued upon receipt of the above requested report.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

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Natasha Higgitt  
Heritage Officer  
South African Heritage Resources Agency

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Phillip Hine  
Manager: Archaeology, Palaeontology and Meteorites Unit  
South African Heritage Resources Agency

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Page No: 4

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**ADMIN:**

Direct URL to case: <http://www.sahra.org.za/node/534821>  
(DENC, Ref: )

**Terms & Conditions:**

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.