

08 July 2016

*Ilanga CSP 7 DEA Ref: 14/12/16/3/3/2/905*

*Ilanga CSP 9 DEA Ref: 14/12/16/3/3/2/904*

Dear Stakeholder

**ENVIRONMENTAL IMPACT ASSESSMENT PROCESS  
PUBLIC PARTICIPATION PROCESS  
PROPOSED ILANGA CSP 7 AND ILANGA CSP 9 FACILITIES AND ASSOCIATED  
INFRASTRUCTURE WITHIN THE KAROSHOEK SOLAR VALLEY DEVELOPMENT NEAR  
UPINGTON, NORTHERN CAPE PROVINCE**

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**NOTICE OF AVAILABILITY OF EIA REPORTS FOR REVIEW**

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**Emvelo Holdings (Pty) Ltd** ("Emvelo"), an independent power developer of concentrating solar power (CSP) plants in South Africa, is proposing the development of two Concentrated Solar Power (CSP) facilities and associated infrastructure to form part of the Karoshoek Solar Valley Development located approximately 30 km east of Upington. The projects are proposed within Portion 2 of Matjiesrivier 41 and Portion 4 of the Farm Trooilaps Pan 53, which falls under the jurisdiction of the //Khara Hais and !Kheis Local Municipalities and within the greater ZF Mgcawu District Municipality in the Northern Cape Province.

The two proposed projects are to be developed as stand-alone projects by Emvelo and will form part of the Karoshoek Solar Valley Development. The projects are planned to utilise tower technology and parabolic trough technology.

The purpose of the proposed CSP facilities will be to evacuate the generated power into the Eskom electricity grid. The project is proposed to be bid into the Department of Energy's (DoE) Renewable Energy Independent Power Producers Procurement (REIPPP) Programme.

**Ilanga CSP 7 (Tower):**

The Ilanga CSP 7 Facility is proposed to utilise the solar tower technology, using superheated steam, with a generation capacity of up to 150MW and will be constructed over an area of approximately 1519.19 ha in extent within the broader property.

The facility will include the following infrastructure:

- » Central tower up to 270m with a molten salt receiver on top of the tower.
- » Waste management infrastructure including evaporation dams and a wastewater treatment facility.

- » Access roads to the site and internal access roads.
- » On-site substation and associated 132kV power line linking the facility to the Karoshoek Solar Valley substation or to the National Grid.
- » Karoshoek Solar Valley substation and associated power lines 132 – 400kV lines connecting to the National Grid.
- » A water supply pipeline from the Orange River (including water treatment and storage reservoirs).
- » Operational buildings, including offices and workshops.
- » The solar collector field consisting of heliostats, all systems and infrastructure related to the control and operation of the heliostats.
- » The power block/power island comprising of a conventional steam turbine generator with an ACC and associated feed water system.
- » Molten Salt Circuit which includes the thermal storage tanks for storing low and high temperature liquid salt, a central solar thermal tower receiver, pipelines and molten salt to steam heat exchangers.
- » Auxiliary facilities and infrastructure consisting of the switch yard, step up transformers, up to 132 kV power evacuation lines, access routes, water supplies and facility start up generators.

**Ilanga CSP 9 (Trough):**

The Ilanga CSP 9 Facility is proposed to utilise parabolic trough technology, with a generation capacity of up to 150MW and will be constructed over an area of approximately 700 ha in extent within the broader property.

The facility will include the following infrastructure:

- » Power Island with steam turbine generator, auxiliary boilers, dry cooling and molten salt storage.
- » Access roads to the site and internal access roads.
- » On-site substation and associated 132kV power line linking the facility to the Karoshoek Solar Valley substation or to the National Grid.
- » Karoshoek Solar Valley substation and associated power lines 132 – 400kV lines connecting to the National Grid.
- » A water supply pipeline from the Orange River (including water treatment and storage reservoirs).
- » Waste management infrastructure including evaporation dams and a wastewater treatment facility.
- » Operational buildings, including offices and workshops.

***ENVIRONMENTAL IMPACT ASSESSMENT PROCESS***

In terms of Sections 24 and 24D of the National Environmental Management Act (Act No 107 of 1998), as read with Government Notices R982 to GN R985; an EIA process is being undertaken for these proposed projects. The National Department of Environmental Affairs (DEA) is the competent authority. In order to obtain authorisation, comprehensive, independent environmental studies must be undertaken in accordance with the EIA Regulations, 2014. The DEA accepted the Scoping Reports and Plans of Study for each project in April 2016. The applications have been assigned the following reference numbers:

- » Ilanga CSP 7: 14/12/16/3/3/2/905
- » Ilanga CSP 9: 14/12/16/3/3/2/904

Envelo has appointed Savannah Environmental as the independent environmental consultant to undertake the required EIA to identify and assess all the potential environmental impacts associated with the proposed project, and propose appropriate mitigation and management measures in an Environmental Management Programme (EMPr). As part of these environmental studies, Interested and Affected (I&APs) will be actively involved through the public involvement process.

#### ***AVAILABILITY OF ENVIRONMENTAL IMPACT ASSESSMENT REPORTS FOR REVIEW***

Environmental Impact Assessment (EIA) Reports for the proposed projects have been prepared by Savannah Environmental and are available for review and comment by Interested and/or Affected Parties (I&APs). The 30-day review period is from **08 July 2016 – 08 August 2016**.

The EIA Reports can be viewed at the Khara Hais (Upington) Public Library and the Grootdrink Public Library/Community Hall. The reports can also be downloaded from [www.savannahSA.com](http://www.savannahSA.com).

Please submit your formal comments by sending written correspondence in this regard by 08 August 2016. All comments received will be included in the final EIA Reports which will be submitted to the DEA. Comments can be made as written submission of fax, post or email.

Please do not hesitate to contact us should you require additional information and/or clarification regarding the proposed project. Our team welcomes your participation and looks forward to your involvement throughout this process.

Kind Regards

**MRS GABRIELE WOOD**  
**PUBLIC PARTICIPATION AND SOCIAL CONSULTANT**  
**SAVANNAH ENVIRONMENTAL**