NERSA  !Khi Solar One license application – public hearing

Postmasburg, 6 March 2012

!Khi Solar One – 50MW steam tower

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!Khi
Shepherd’s tree
„Witgatboom”
(Boscia albitrunca)
!Khi Solar One

- Located app 20km SW from the town of Upington – Kai Garib Municipality, NC Province (just off the D3276 Lutzputs road).
- Brownfields site.
- 600ha permitted.
- Eskom power line app 4km south of site
- River 10km south of site
Project details

!Khi Solar One

- Capacity – 50MW
- Steam storage capacity of 3 hours
- App 4500 heliostats with a collector surface area of app 580,000m²
- Plant scheduled for operation by end June 2014
**Khi Solar One**

- Total Abengoa Solar commitment across the KaXu and Khi projects greater than R 10 Billion.
- Ownership: 51% Abengoa, 20% Community Trust, 29% IDC
- Roughly 600 construction jobs over 24 months.
- 35 Permanent employees over 20 year operational phase.
- 100 Additional jobs due to services and supplies from the greater area.
- Roughly 190GWh annual production.
- 183 000 tons reduction in CO₂ emissions.
How it works

!Khi Solar One

- Receiver
- Solar Tower
- Heliostats
- Steam Turbine
- Generator 50.0 MWe
- Steam Storage

50.0 MWe
Thank you