


**PROPOSED
GERUS – MURURANI GATE
350 KV POWERLINE**



**ENVIRONMENTAL ASSESSMENT
PUBLIC PARTICIPATION PROCESS**

Gerus - Mururani Gate Power Line - Environmental Assessment

Agenda

- Welcome & Introductions
- Purpose of the Meeting
- Proposed Gerus – Mururani Gate Powerline
- Environmental Assessment Process
- Review Process
- Environmental Aspects associated with the Power Line
- Concerns / Issues / Discussion regarding Environmental Aspects
- Way Forward
- Closure

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Purpose of the Meeting

- Introduce the Project and Background
- Present the Technical Aspects of the Proposed Power Line
- Explain the Route Selection and Environmental Assessment Process (incl. Public Participation)
- Explain the Review Process
- Hear and Record Public Concerns

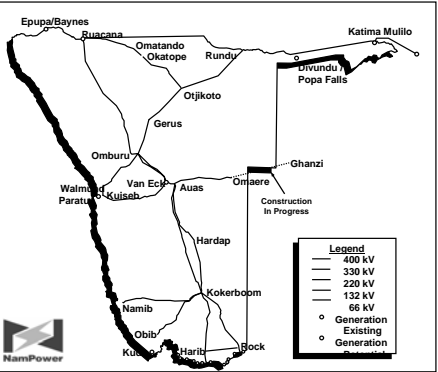
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Proposed Gerus – Mururani Gate Power Line

- Project Background
 - Proposed 350 KV transmission line
 - Gerus (near Otjiwaronga)
 - Otavi Region
 - South of Tsumeb and Grootfontein
 - Mururani Gate
 - High Voltage Direct Current (HVDC)
 - Transmission only

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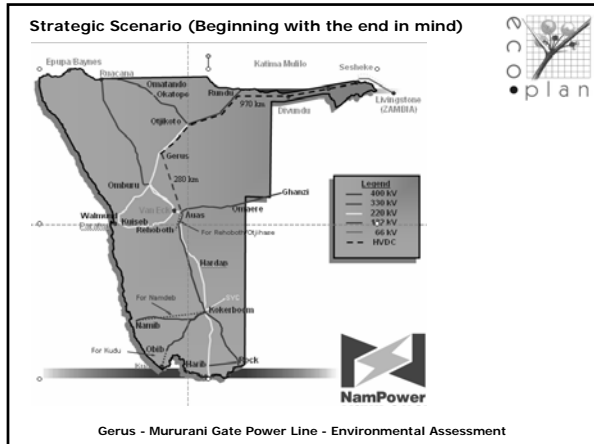
Current Transmission Network



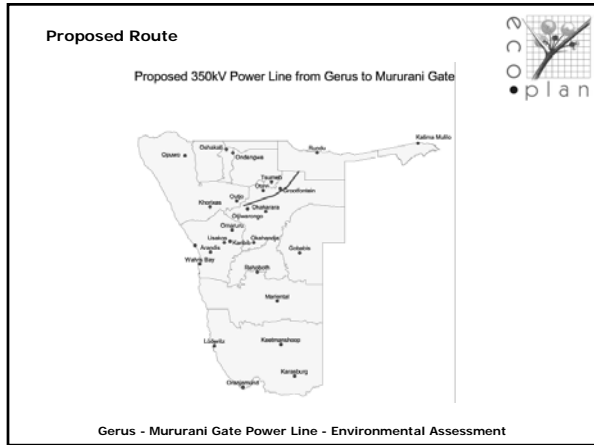
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- Motivation for Project
 - Supplement existing supply
 - Capture growth opportunities in northern Namibia by having sufficient transmission capacity available
 - Optimal use of resources to ensure lowest price to consumers
 - Alternative energy sources not always viably available, therefore powerlines and transmission required
 - Self sufficient in power generation and transmission
 - Efficient transmission of power with less energy losses
 - Possible export of power

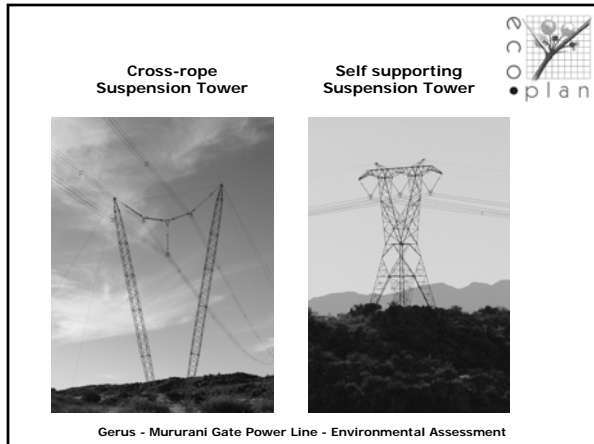
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- Proposed Route
 - Begin at Gerus (near Otjiwaronga)
 - Through the Otavi Region
 - South of Tsumeb and Grootfontein
 - Tie into existing line at Mururani Gate
 - Route Map on display
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- Technical Aspects
 - Requirements
 - Access for construction and repairs
 - Minimal land disturbance
 - Towers
 - Cross-roped Suspension Towers
 - Self supporting Suspension Towers
 - Servitudes
 - 55m servitude on either side
 - 12m clearance servitude
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Route Selection & Environmental Assessment



- Phase 1: Scoping Study
 - Route evaluation and selection: best route or corridor
 - 1:250 000 mapping – environmental aspects & specialist input
 - Helicopter Survey
 - Public Participation Process
 - Scoping Report
- Phase 2: Environmental Assessment
 - 1:50 000 mapping & specialist investigation and Report
 - EA report
- Phase 3: Environmental Management Plan
 - Impact mitigation and management measures
 - Environmental Specifications

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- Public Participation Process (PPP)

- Public Meetings
- Consultations with authorities
- Consultation with Land Owners and Farmers
- Other Interested & Affected Parties
- Written submissions
- Minutes & record of issues and concerns
- Registration of Interested & Affected Parties (I&AP's)
- Scoping Report available for public comment
- Finalisation of route
- Environmental Assessment on final route
- EA report available for public review

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- Environmental Assessment Process

- Environment:
 - Biophysical
 - Social & Economic (socio-economic)
- Scoping vs Environmental Assessment
- Input from PPP (I&AP's)
- Specialist Reports
- Identification, Assessment, Mitigation and Management of environmental impacts
- Compile EA Report and Environmental Management Plan (EMP)
- Submit EA and EMP Report MET

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Environmental Aspects



- Powerlines and conductors
 - Fatalities to large birds (migrations)
 - Visual impact (roads vs hidden)
 - Tourism
- Clearing and stripping for access, construction, servitude and management
 - Stripping of vegetation, trees & bush etc
 - New access tracks in places
- Disturbance of sensitive areas (e.g. steep ground, archaeological significant, cultural significance)
 - Lodges / Tourism
 - Vulture Feeding Areas
 - Hills and 'Koppies'

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- Constraints on the alignment

- Other infrastructure
- Tourist areas
- Straight lines
- Shortest distance (cost)
- Other

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- Some Mitigation & Management Measures
 - Route alignment (tourism, lodges etc)
 - Alternate technology – HVDC and HVAC
 - Route close to existing powerlines or roads and tracks
 - Bird Flappers / Balls
 - Avoid unnecessary disturbance of vegetation
 - Spacing of towers to avoid pans, depressions, watering holes where possible
 - No alignment over houses

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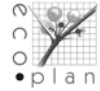
Concerns



- Concerns / Issues / Discussion regarding:
 - Route alignment
 - Environmental impacts
 - Farms / Property / Land Ownership
 - Mitigation and management measures
 - Other

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Way Forward



- Scoping Report
 - Route alignment
 - Specialist input
 - Public comment
- Environmental Assessment
 - Specialist input
 - Environmental Impacts – identify and assess
 - Mitigation and Management measures
 - Public comment
- Environmental Management Plan

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Thank You



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