

Technical Tour 2: 4 October 2019, 07:45 – 16:00

## Apollo HVDC Converter Station

Cost: R1250.00 per person departing Misty Hills



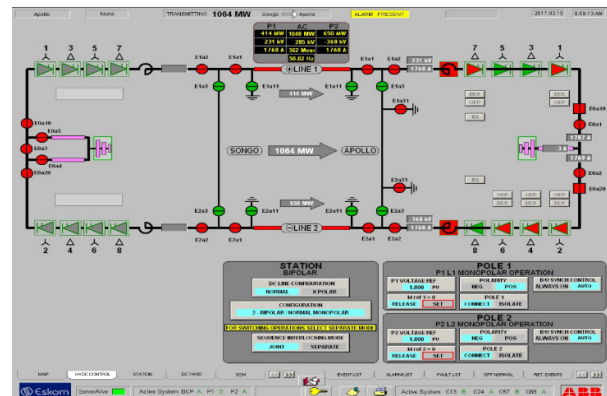
Travel from Misty Hills to the Apollo HVDC Converter station close to Pretoria. The Cahora Bassa HVDC transmission system is between the Songo Converter Station (Mozambique -HCB) and the Apollo Converter Station After, safety induction and receiving your personal protective equipment (excluding safety shoes), the tour will commence. On the return to Misty Hills, you will stop for lunch at the acclaimed Roots Restaurant in the Letamo Game Estate, Kromdraai, After lunch you will return to Misty Hills

## Background of Apollo Grid

- Cahora Bassa HVDC transmission system is between the Songo Converter Station (Mozambique -HCB) and Apollo Converter Station (South Africa - Eskom).
- Source of imported power is the Cahora Bassa Hydroelectric Generation Station at the Cahora Bassa Dam on Zambezi River (north of Mozambique).
- Songo station has 5 generators rated 480MVA (2076MW) that converts AC power at 220 kV to DC +/-533 kV. The station is capable of importing up to 1800 MW DC depending on number of Bridges in service with 2 poles to Apollo.
- Apollo currently supplies 1065MW (vs 1260 MW contracted) onto the 275 kV Transmission system, due to pole 1 rated at 400kV and pole 2 with Songo generators (2 & 5) on maintenance.



Main data:	
Commissioning year:	1977 - 79 Apollo refurbishment: 2008 Songo refurbishment: 2013-2014
Power rating:	1,920 MW
No. of poles:	2
AC voltage:	220 kV (Songo), 275 kV (Apollo)
DC voltage:	±533 kV
Length of overhead DC line:	1,420 km



## PROGRAMME

Date, Time	Activity
<b>Friday 4 October 2019</b>	
07:45	Assemble at Misty Hills hotel reception
08:00	Bus departs Misty Hills hotel reception
09:15 – 09:35	Arrival, Sign in and Safety & Security briefing
09:35 – 11:05	Presentation at Apollo Boardroom
11:05 – 12:00	Technical Tour
12:00 – 12:15	Refreshments
12:15 – 12:30	Assemble at parking area
12:30 - 13 :30	Bus departs Apollo HVDC Station to Roots restaurant
13:30 – 15:30	Lunch at Roots Restaurant
15:30 – 16:00	Returning to Misty Hills

### General

- All participants will need to submit a copy of their passport/ID to register for the technical tour.
- All participants will be required to carry a visitor pass and adhere to visitor restrictions and access limitations throughout the tour.
- Safety Equipment will be provided, but participants should wear closed shoes – no sandals or heels. Participants are also required to wear long pants, no shorts and skirts are allowed.
- Bookings can be made via the registration
- The technical tour is limited to 30 participants.

### Secretariat

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