6. Eastern Africa Green Power Transmission Network Project 6 – Guba (Ethiopia) – Khartoum (Sudan)

Project description and objectives

The Guba (Ethiopia)-Khartoum (Sudan) project is one of the proposed cross power interconnectors between five countries in the Horn of Africa under the theme ‘Eastern Africa Green Power Transmission Network Project’. The countries involved include Ethiopia, Djibouti, Eritrea, Sudan, South Sudan, and Somalia. This will form a large regional transmission network which would be part of the Eastern African Power Pool. The project objectives are to:

- Compliment ongoing efforts to foster regional power system integration in the broader Eastern Africa region through EAPP
- Facilitate power trade between Ethiopia and Sudan, and latter with Egypt and other countries as the line constitutes a key part of the North to South Africa power transmission corridor
- Optimal development of available generation resources in the region
- Supply countries in context with green power at a reasonable price.

Project status

The project is in the Feasibility stage (S2B)

The 2016 Feasibility Study confirmed the viability of a 500kV double circuit interconnector, which would complement the existing 230 kV interconnector (IGAD Regional Infrastructure Master Plan (IRIMP)).

Financial needs

Project Cost Estimates: USD 670 Million

Key parties

Private sector opportunities

This project is funded by the power utilities in the countries. The Project is also a huge project with possibilities for sub-contracting SMEs established by women and youths.

Implementation timing

- High Voltage AC with transfer capacity of 3000 MW
- The project have the potential to serve the existing ICT sector in both countries and the Transport sector in the future.