

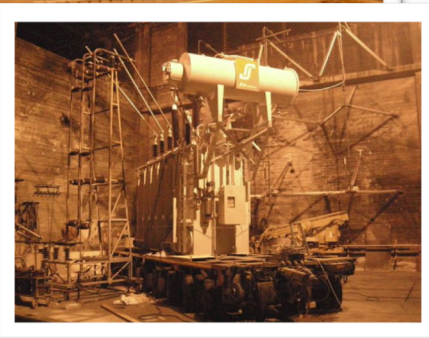


Mastering the transformation of electrical energy

**Gridco – Ghana Grid Company Ltd.
Tumu-Han-Wa Transmission Project
33 MVA – 161 / 34.5 kV – Three phase**



Qualification at JST High Voltage lab



Under short-circuit test at CESI lab

**Successfully short-circuit tested
at CESI Laboratory (July 2013)**



MAIN DATA

- **Type** : Substation Transformer
- **Technology** : Core type
- **Number of phases** : 3
- **Applicable standards** : IEC
- **Frequency** : 50 Hz
- **Cooling System** : ONAN/ONAF
- **Type of regulation** : On load tap changer HV neutral side

	Rated voltage	Power rating		Connection
High voltage	161 kV	33 MVA		Wye
Low voltage	34.5 kV	33 MVA		Delta
		HV	Neutral	LV
Power frequency test voltage		275 kV	140 kV	70 kV
Full wave impulse test voltage		650 kV	-	170 kV
Chopped wave impulse test voltage		-	-	-
Switching surge test voltage		-	-	-
Total weight	61 tons			
Untanking weight	35 tons			
Oil weight	14 tons			
Transportation weight (heaviest part)	58 tons			