



Abuja Electricity Master Power Plan

Abuja Electricity Master Plan has provided for a Power capacity of 1000 MVA. This power capacity is to be undertaken through three Major substations which are located in Katampe, Gudu and East Main Close to Ring Road III (RRIII). These substations are to step down the voltages from 330KV to 132KV and subsequently to lower voltages of 33 and 11KV through appropriate transformers for both commercial and residential purposes.

2. The plan has also envisaged the provision of twelve number 132/33KV sub-transmission substations. These substations are spread across phases one, two and three of FCT. Furthermore, 2, 3, or 4x15MVA transformers are planned for each 33/11KV substations depending on the load requirement at various district.

3. At present, there are 3 x 150MVA 330/132 Transformers installed in Katampe and an ongoing additional 2 x 150 MVA 330/132KV transformers in East Main. Also at the level of 132/33KV, there are the Kubwa – 2x60MVA, Apo - 2x45MVA + 1x60MVA, Katampe – 2x60MVA, Karu – 2x60MVA and Central Area – 2x 60MVA substations.

4. At 33/11KV level a total number of 44 number injection substation with capacity of 2 or 3x15MVA are planned for phases I and II of the FCC. So far 21 numbers have been completed while 4 numbers are still ongoing. The remaining 19 numbers are expected to be completed by the year 2015. In addition, injection substations have been installed in some parts of phase II and all the head quarters of the Area Councils in the FCT.

5. With the present installed capacity of 450MVA, and an annual growth rate of 27.4%, it is envisaged that the power demand by 2015 shall be 1382MVA. To be able to serve the FCT residence at a comfortable level, we need to complete the 2x150MVA, 330/132KV substations at East main and the 2x150MVA at Apo by the year 2015.