

## **Maintainability, Reliability and Efficiency of Systems and Operations at Zimbabwe's NDC**

The availability of power and internet affects the ability of National Data Centres (NDCs) to carry out their verification activities, including the accessing of IMS data and IDC products. Frequent, unscheduled power cuts and poor internet connection are some of the major constraints we face as we strive to meet the 98% data availability and fulfilling our verification for our seismic station. Zimbabwe have been experiencing a lot of challenges in the maintenance and upkeep of its Seismic Auxiliary station AS120 ranging from instrumentation, power supply and communication systems. The CTBTO with its support services section have been helpful in averting most of these problems. The upgrading of the power system from AC to DC is some of the effort that was done to ensure continuous uptime of the station. The NDC have come up with a proposal to use solar energy to power the seismic station. The proposal to go green at the NDC is made so as to improve on power reliability. The use of solar energy at the NDC would contribute to a safer, cleaner and reliable power supply. Solar energy does not involve moving parts and this help to reduce maintenance requirements.

**Primary author:** MARIMIRA, Kwangwari (Goetz Observatory)

**Presenter:** MARIMIRA, Kwangwari (Goetz Observatory)

**Track Classification:** Theme 3: Advances in Sensors, Networks and Processing