

PROJECT CASE STUDY

SOLAR-POWERED PRIMARY HEALTHCARE FACILITY WITH RADIOLOGY

NORTH WEST PROVINCE

Samsung Electronics South Africa as part of their CSI program, required a healthcare and education facility to be built for the North West Department of Health in South Africa. The facility offers primary healthcare services and includes a radiology department offering TB (tuberculosis) screening using the latest in digital radiology equipment. The facility is self-sustainable and utilizes renewable energy sources to reduce impact on the environment and to function in remote and rural areas.

LTE Medical Solutions designed, built, equipped and commissioned a pre-manufactured facility consisting of a 20-seater education center using Samsung's Smart School IT systems, three medical consulting rooms, a radiology department using the Samsung GR50 DR X-Ray bucky system, a dispensary, administrative office and reception areas. The facility uses a 20kWp hybrid solar grid-tied power plant with a 64kW/h battery backup. The facility was provided as a turn-key project and took 12 weeks to complete. The site is located in the rural village of Madibogo, North West Province South Africa and will serve the local community with a population of 22,556 people.

