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# Mafeteng Solar Farm

## Key Facts

The first ever Solar Farm in Lesotho. Phase I will supply 30MWP to the national grid and Phase II 40MWP.

- 🏢 **Client Name:** Tuwana Construction Pty Ltd
- 🏢 **Footprint:** 473 000 m<sup>2</sup> & 55Km 13KV transmission Line
- 🏢 **Country:** Mafeteng District at Ha-Ramarethole, Lesotho
- 🏢 **Budget:** M 70,000,000
- 🏢 **Commissioned:** April 2023
- 🏢 **Completed:** Work in progress

## Project Overview

LSP Construction constructed the first ever Solar Farm in Lesotho in the Mafeteng District at Ha-Ramarethole. Two Phases, Phase I - 30MWP and Phase II - 40MWP. Phase I currently in progress:

- Erection of support structures and photovoltaic panels at Ha-Ramarethole
- Expansion of the Ha-Ramarethole substation.
- Erection of a new 55 km 132kV overhead transmission line from Ha-Ramarethole to Ha-Mofoka.

## Project Detail

Project Motivation:

Solar energy is increasingly one of the most sought-after forms of energy in developed countries. But that already is a problem because developing countries like Lesotho, have over the years shown little appetite to invest in solar energy. While there are several plausible reasons why less developed countries often shy away from renewable energy initiatives; including the high cost of setting up such projects, it is clear that solar energy is the future for many countries. This is especially so for countries like Lesotho that have abundant sun throughout the year.

A First for Lesotho

LSP Construction constructed the first ever Solar Farm in Lesotho in the Mafeteng District at Ha-Ramarethole.

The project will help Lesotho optimise its energy structure by cultivating solar power expertise to improve the economy and Basotho's livelihoods. The first phase of the project will supply the national power grid with 30MWP of electricity; while the second phase will have a capacity of 40MWP.

The first Phase of the project is a 30MW Solar Power plant and consist of the following:

- Erection of support structures and photovoltaic panels at Ha-Ramarothole.
- Expansion of the Ha-Ramarothole substation.
- Erection of a new 55 km 132kV overhead transmission line from Ha-Ramarothole to Ha-Mofoka.

