

## **SolarInnovate Energy Solutions**

# **Are there any mobile base station sites in Cape Town**



## Overview

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What's new in Vodacom Western Cape?

The investment includes building 38 new 3G and 4G enabled base station sites, including 16 in townships and six in rural communities, and implementing LTE capacity upgrades to over 75% of base stations in the province. In addition to the new 3G and 4G base stations, Vodacom Western Cape also built 50 new 5G-enabled sites.

How much did Vodacom spend on base station installations?

Vodacom Western Cape has spent more than R1 billion to install 88 base station sites in its region over the past financial year, the mobile operator has announced.

Does Cape Town have a telecommunication policy?

In 2011 the City of Cape Town published a draft policy on telecommunication infrastructure open for public comment, on its revised Cellular Telecommunication Policy of 2002.

How bad is Vodacom's infrastructure in the Western Cape?

According to Vodacom Western Cape managing executive Carol Hall, the network operator's 3G and 4G population coverage in the region reached 99.5% and 97.6%, respectively. Vandalism of Vodacom's infrastructure in the region is a significant issue, with five to seven base stations suffering malicious damage in a typical week.

What telecommunication infrastructure should be included in a base station?

The telecommunication infrastructure will form part of the base station that may be attached to street lamps, traffic lights, road directional signage, camera poles and flag poles or similar support structure which may not exceed: 300mm diameter for the post or support structure to which the antenna is to be attached.

How RF communication is established between a cell phone and a base station?

In the case of cellular phones, two-way communication must be established between the cellphone and the base station. First, the base station acts as the source of radiation and then the cellphone. A simplistic view of RF communication when the base station acts as the radiating source is shown in Figure 1.

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