

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

How much power does Nepal Telecom use a year?

There are around 2430 BSs in Nepal installed by Nepal Telecom, which consume more than 14GW input power every year. The carbon footprint from the wireless communication is also increasing exponentially, which indicates the important power issue.

Does a green wireless network reduce the energy consumption of base stations?

The measured results revealed that the proposed model reduces the energy consumption of base stations by up to 18.8% as compared with the traditional static BSs, which is a step forward towards the implementation of green wireless communication.

1. Introduction

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