

## A-Core Container

# Nepal base station power load



## Overview

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How much energy is generated by Nea power plants in Nepal?

The annual energy generation from NEA power plants under Generation Directorate is 3242.483 GWh, which is about 29.29% of the total energy generation in Nepal (NEA Hydropower Stations, Subsidiary Companies and IPPs).

How much electricity does Nepal use?

Nepal's per capita electricity consumption and production are both among the lowest in the world. Nepal has only about 1200 MW of power generation capacity for its almost 30 million population [ 2 ]. Almost all installed capacity is run-of-river hydro, which is not available for operation during the dry season of December to April months [ 3 ].

Why is electricity load shedding a problem in Nepal?

Over the last ten years, electricity load shedding created severe welfare losses to households and posed a major barrier to Nepal's economic development. The problem started in 2008 and peaked in 2016 when the country faced up to 14 h of power cuts in the dry (winter and spring) season.

Which power plants meet the integrated Nepal power system (INPS) requirement?

Efficient and reliable operation of power plants is prominent to meet the power requirement of Integrated Nepal Power System (INPS). F/Y 2021/22 has been remarkable in energy generation from NEA owned power plants. The Kaligandaki, Modi and Puwa Khola hydropower stations achieved the all-time highest generation record.

What is the cumulative effect of power supply deficit in Nepal?

Following the CGE model assumption that Nepal has experienced a 20% deficit in electricity consumption over a consecutive period of nine years, the

cumulative effect of power supply deficit based on the VECM impulse response analysis comes to about an 8% decline in GDP. This is in line with the CGE model predictions. 6.

How has the load-shedding crisis affected Nepal's Economic Development?

Although the load-shedding crisis in Nepal has ended, it had a high economic cost and has drastically impeded Nepal's economic development and its goal to alleviate poverty.

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