

## Kongres Container

# Israel 5G base station electricity subsidy



## Overview

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How many Israeli companies are working on 5G?

There are currently over 25 Israeli companies working on 5G related tech, from giants like Intel to small early-stage startups. One of the veterans of the industry in Israel is Zion Hadad, who now heads startup RunEL NGMT.

Does 5G affect EMF levels in Israel?

Within the context of 5G development in Israel, the Ministry of Communications has analysed the recommendations on the relationship between the network and EMF levels and announced that it will act, if necessary, to ensure the rollout of 5G networks in the country while maintaining standards of public health.

What is 5G base station?

1. Introduction 5G base station (BS), as an important electrical load, has been growing rapidly in the number and density to cope with the exponential growth of mobile data traffic . It is predicted that by 2025, there will be about 13.1 million BSs in the world, and the BS energy consumption will reach 200 billion kWh .

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).

What is a minimal 5G BS energy consumption optimization model?

Therefore, the problem can be formulated as a minimal 5G BS energy consumption optimization model, i.e., the energy consumption reduced by reasonably switching off the idle or lightly loaded BSs and reasonably associate UEs with BSs (i.e., the BS switching state and BS-UE association state scheme).

Does Israel need a fibre optic network?

While other nations in the European region are operating fibre optic networks, Israel relies on infrastructure rolled out before 2010, which presents consequences for the capacity of data trafficking as more users engage with ICTs and as users require increasingly high data rates.

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