

## ContainerPower Energy Solutions

# Hybrid energy installation worker in Israeli base station room



## Overview

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How can Israel advance the energy transition?

Key issues that need to be tackled in order to advance the energy transition in Israel are the expansion of flexibility options, discussion on the long-term role of natural gas, increasing participation and awareness, and exploring the future role of power-to-X in the energy system.

What is a hybrid energy system?

A hybrid energy system integrates two or more electricity generation sources, often combining renewable sources (such as solar and wind) with conventional generators (biodiesel, natural gas, or diesel) and energy storage technologies like batteries and pumped hydro storage.

What is Israel's energy system?

This section discusses Israel's energy system's current state and trends in terms of supply, demand, infrastructure, ac- tor-network, and market developments. Israel's total primary energy supply in 2018 was 22.3 Mtoe (IEA, 2020a).

How do hybrid systems work?

Hybrid systems operate in an integrated manner to balance electricity availability, storage, and demand. Their functioning can be described in the following stages: Energy Generation: Renewable sources such as solar photovoltaic panels and wind turbines convert solar radiation and wind kinetic energy into electricity.

Who is the sole electric utility provider in Israel?

The sole electric utility provider in Israel is the IEC - a vertical- ly integrated, centralised and state-owned company that is regulated by the Ministry of Energy and the EA.

How can energy security be strengthened in Israel?

A smooth transition requires sector coupling between all end-user sectors. The expansion of renewable energies can make an important contribution to reducing Israel's dependence on energy imports. In this way, energy security, which is the most important pillar of Israel's energy policy, can be strengthened.

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