

Is the energy sector in Palestine a unique situation?

The energy sector, specifically electricity in the State of Palestine, is in a unique situation.

What are the energy sources in the Occupied Palestinian territories?

1Note prepared by the EuroMed and Middle East Unit for information only purposes for the DPAL meeting of 26-5-20152In the occupied Palestinian territories (oPt), energy sources consist of (i) the energy generated bypetroleum and naturalgas derivatives; (ii) electricity; and (iii) renewable energy.

#### What is the Palestinian energy strategy?

Accordingly, the Palestinian Energy Strategy is to generate 50% of power locally from gas-fired power plants, import 40% from neighboring countries, and generate 10% from renewable energy sources. By 2026, the plan states that 200 MW of electricity will be generated from solar energy (utility-scale solar PV farms and rooftop solar PV panels).

#### How much electricity does the Palestinians use?

The Palestinian territories are highly dependent on electricity provided by the IEC, around 88% of total consumption. 4The Palestinian energy market has limited options to develop indigenous sources of electricity and Israeli restrictions have prevented the construction of power networks in large parts of Area C which comprises 60% of the West Bank.

#### What is the Palestinian energy security plan?

It lays out a vision of improved energy security in the Palestinian territories based on expanding and diversifying power supply and provides a sequenced road map of actions to improve the current situation of the energy sector so it can meet the requirements of the development of the related sectors.

#### Where does Palestinian electricity come from?

Palestinians are heavily dependent on imported electricity from the Israelinetworks: 87 percent of electricity consumed is secured from Israel and around 4 percent from Egypt and Jordan. The remaining 9 percent is produced locally in Gaza and used to fuel the region's power plant on a continuous basis.

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Gaza suffers from a severe shortage of electricity as the capacity from the four sources (the National Israeli company, Egypt, Gaza power plant, and the renewable energy plants) reaches a maximum of 350 megawatts, distributed as follows: 122 megawatts from Israel, 140 megawatts from the power generation plant, 28 megawatts from Egypt and 55 ...

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The Palestinian Authority has been importing most of its electrical energy needs from neighbours mainly from Israel (66.6%), and Egypt (8.5%), the rest (24.9%) is domestic generation in the unique Palestinian power plant, which makes energy security an urgent need for Palestine's independence, as it illustrated in Fig. 2. The Gaza Strip has a ...

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Furthermore, about 34.7% of Palestinian households experience interrupted power supply [60]. To electrify these remote communities will help to solve the problem of power supply shortage. The implementation of a hybrid system that is based upon Photovoltaic (PV) to supply power to remote and isolated locations is considered a viable option.

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In Gaza, the deficit in power supply imposes a huge constraint on its residents. Despite outstanding national efforts to engineer reforms in the energy sector and developments on electricity transmission, distribution, and ...

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