

# The Gaza electricity crisis – FAQs

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## Where does Gaza get its electricity?

In “normal” circumstances, Gaza receives electricity from three sources: Israel, which sells Gaza electricity and deducts the payment from the tax money it collects on behalf of the Palestinian Authority (PA), Gaza’s sole power plant (located near Gaza City), and Egypt.

## How much electricity does Gaza currently get?

In past years, and until Israel implemented the cabinet’s [decision](#) to reduce the supply of electricity sold to Gaza in June 2017, Israel sold Gaza 120 megawatts of electricity; the power plant produced around 60 MW (that is, if enough fuel to operate it came in from Israel through Kerem Shalom), and Egypt provided an additional 23-28 MW. This brought the total supply to 208 MW.

Since June 2017, only 70 MW are being sold by Israel to Gaza on the direct lines from Israel. The power plant, which was completely out of commission between mid-April and late June following a dispute between the PA and de facto Hamas authorities in the Strip, resumed partial operations using fuel purchased from Egypt starting in late June 2017. From July – November 2017, a monthly average of 12.7 million liters of fuel entered Gaza, allowing the power plant to run two turbines and produce between 45-55 MW most of the time. The power plant doesn’t have the capacity to store large quantities of fuel following damage to its fuel reservoir tanks during Operation Protective Edge in 2014, which have not been repaired since. According to Palestinian officials, Israel is holding up the entrance of necessary spare parts and equipment. There have been frequent disruptions to supply of electricity on the direct lines from Egypt, due to what are described as technical malfunctions, and they rarely function at their full capacity of 28 MW, if at all.

From the July to now, the supply of electricity in the Strip has fluctuated between 125 - 148 MW depending on the functioning of the plant and power lines from Egypt, which translates to cycles of between around four to six hours of power, followed by 12 to 16-hour outages.

## How much electricity does Gaza actually need?

Estimates of demand run between 400-500 MW, depending on the time of year and how active industries could be in theory. The normal supply of 208 MW allowed for only about eight hours of electricity, followed by eight hours of blackouts, for a total of about 12 hours of intermittent supply per day. So even in “normal” circumstances, Gaza still received less than half of what it needs. Without a consistent supply of electricity, it is impossible to provide sufficient health, education and welfare services, to treat sewage, to desalinate water for consumption, to operate household appliances, to have working industries, businesses and a functioning

economy.

## Why can't Gaza produce its own electricity?

From 1967 to 2002, Gaza was dependent on electricity supplied by Israel and Egypt. In 2002, Gaza's power plant became operational, but it remains the sole power plant for a population of almost two million. The plant's production capacity was 140 MW when it was built, as it was only meant to provide electricity to Gaza City and its vicinity. At no point was it possible for it to meet the needs of the entire population of the Gaza Strip. The plant reached production of 90 MW, in 2006. That same year, the power plant [was bombed](#) by Israel, destroying six of its transformers and its fuel reservoir. Even after repairs, the plant today is capable of producing around 110 megawatts at most but shortages of fuel, whether for funding and/or political disputes have limited the production to around 60 MW. The power plant depends on the supply of fuel (about 300-350,000 liters of diesel are required daily for the plant to run at this capacity), usually purchased from Israel.

The power plant was again damaged by shelling during Operation Protective Edge, in the summer of 2014. Its primary fuel reservoir was damaged, and repair was delayed for several years due to Israel's [restrictions on the entry of equipment and parts](#) needed. Larger reservoirs remain unrepaired. Gaza's inability to produce its own electricity in sufficient quantities is a direct result of prolonged Israeli control and restrictions on entrance of materials and equipment, as well as limitations on economic activity.

## What is the background of the PA and Israel's decision to reduce the supply of electricity to Gaza?

From mid-April and up until the end of June, Gaza's power plant was completely out of commission. A [dispute](#) between the Palestinian Authority and the de facto Hamas authorities over fuel taxation impeded the plant's standard operations, when funds donated by Turkey and Qatar designated for purchase of fuel were exhausted. With the power plant not working, Gaza's already limited electricity supply was cut, leading to power cycles of four hours on, 12 hours off. With the power plant shut down, Gaza's only sources for electricity were Israel and Egypt. The PA announced that it no longer wants to pay for the electricity purchased from Israel, and asked Israel to reduce the amount of electricity sold to Gaza by 40 percent.

On June 11, Israel's Security Cabinet made a [decision](#) to reduce the supply of electricity sold and supplied to Gaza by Israel, in response to the PA's request. On June 19, Israel began implementing the cabinet's decision, eventually reducing supply to only 70 MW. Since the end of June, fuel for the power plant has been purchased from Egypt and entered Gaza through Rafah Crossing, allowing the plant to resume operations. It currently produces around 55 MW.

## Isn't it the PA's decision to cut supply? What does Israel have to do with it?

Even if the PA asked it to do so, Israel has its [hand on the switch](#) and is complicit in and accountable for the [damage](#) that has occurred in the Strip as a result of further interruption to supply. Israel [committed before the High Court of Justice](#) to maintain supply of electricity to Gaza in such a way as to not cause a humanitarian crisis.

## What are the implications of reducing Gaza's electricity supply?

Reduction in supply has meant putting Gaza residents at risk, and subsequently endangering the lives of Israelis as well. It meant leaving Gaza teetering on the edge of humanitarian crisis and heightened risk of ensuing violence and escalation and a host of other issues: 100 million liters of mostly untreated sewage being pumped from the Gaza Strip into the Mediterranean Sea daily; water desalination stations not operating; sewage not being pumped away from residential areas; generators over-extended; entire [hospital wings shut down](#) during blackouts, people who rely on life-saving equipment were put at risk. The reduction in electricity supply led to [beaches being closed](#) by health officials in Gaza and Israel due to untreated sewage dumped at sea, and [a reported rise](#) in water-borne illnesses. Without emergency supply of diesel fuel for generators [provided by the United Nations](#) and other actors to hospitals and other critical civilian infrastructure, the situation would have been even worse.

## Is Israel's obligated to supply Gaza with electricity?

Israel [acknowledged](#) that it has a minimal humanitarian obligation to provide electricity and fuel to the Gaza Strip and to refrain from any action that would cause a humanitarian crisis in the Strip, in the framework of a petition filed by Gisha and other human rights organizations against a proposal to cut fuel and electricity supply (HCJ 9132/07 Al-Bassiouni v. Prime Minister). The Supreme Court, in its verdict on the petition, held that Israel retains duties to Gaza, arising from "...the relationship that was created between Israel and the Gaza Strip after the years of Israeli military rule in the territory, as a result of which the Gaza Strip is currently almost completely dependent upon the supply of electricity from Israel."

Gisha's position is that Israel is not just a service provider, responding neutrally to a client's request. Given its [extensive control](#) over life in the Strip, Israel is responsible for enabling normal life for its residents. Israel is obligated to find solutions that will allow for the continued supply of electricity, and to take active steps toward increasing supply, to allow residents to maintain acceptable living conditions.

## What are the obligations of other actors? The PA? Hamas? Egypt? The international community?

All actors involved must refrain from taking steps that would deliberately or inadvertently harm civilians and reverse decisions that have already been made to this effect. Gaza residents must not be used as bargaining chips in their respective power struggles. The PA and Hamas should work together to see to the needs and protect the rights of those living under their charge, including by resolving their dispute over taxation of fuel and payment for electricity. Egypt should work to maintain delivery on the lines it supplies to Gaza. The international community as a whole should work to support the repair, maintenance and development of civilian infrastructure in a way that meets the needs of Gaza residents and influence those with direct control over Gaza residents to refrain from taking actions that deliberately or inadvertently harm civilians.

## What should Israel and other actors do?

As senior political and military figures in Israel [have stated](#), particularly since 2014, improving living conditions in Gaza and supporting economic development serves Israel's interests. In practice, Israel's policy of restrictions on Gaza contradicts its self-professed interests, putting the region as a whole at risk of another unnecessary round of hostilities. Instead of using the residents of Gaza as bargaining chips in a power struggle, all actors – Israel, the PA, Hamas, Egypt and the international community – must act immediately to bring Gaza's infrastructure to a level that meets the needs of its residents.

## Why should Israel supply power to Gaza given that Hamas is its enemy and is using electricity for militant activity?

See the question above regarding Israel's obligations to the civilian population in Gaza. Recall also that Gaza is home to two million Palestinians, not just militants. Israel's actions can't deliberately harm the civilian population. Actions which it takes to ensure its security must differentiate between civilians and militants, and also be proportionate. Stopping electricity because it is also used for militant activities meets neither of these tests. It's too far-reaching (doesn't respond to a distinct threat) and has massive implications for the civilian population.

## How much electricity is being “taken underground” for Hamas tunnels?

We don't know. What we do know is that supply falls far short of demand not because of the likely meager amounts of electricity used for militant activity but because two million people rely on electricity for hospitals, schools, industry and business, agriculture, civilian infrastructure and for home use. Israel [also knows this](#).

That said, Hamas, as the de facto government in Gaza, and the Palestinian Authority, of course also have to be accountable in their actions towards the civilian population and must work to increase supply with all the means at their disposal.

## How can I help?

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