

»» Project Information

Energy - Jordan

The path to affordable, reliable, sustainable and modern energy

Jordan's energy resources are very limited. Simultaneously, the energy demand in the country is continuously rising. With 94% (2017) of its energy supply being imported Jordan strongly depends on its neighboring countries. The volatile situation in the region puts Jordan's energy supply thus in an uncertain future.

To overcome this problematic situation and to support Jordan in ensuring a stable energy supply the German Government through KfW finances different projects in the energy sector with a total financing volume of EUR 76.5 million. One of the main goals is to reach the national target of producing 20% of energy out of renewable sources until 2025 and thus making use of the vast potential for renewables in the country. In particular, energy projects focus on dealing with the increased energy demand related to the high number of Syrian refugees as well as the enormous energy costs in the water sector, which is the largest consumer of electricity. An additional investment of EUR 70 million is currently in planning.

Not just the large influx of Syrian refugees in the country has increased the energy demand. An inefficient use of the limited resources due to old and outdated energy infrastructure worsens the situation and results in an annual growth of primary energy demand of 7%.

Therefore, an efficient and practical use of national energy resources along with long-term initiatives such as the increased use of renewable energy and the development of alternative energy supplies has to be

Project names	<ul style="list-style-type: none"> • Energy Efficiency in Public Buildings • Electricity supply for Syrian refugees and host communities I, II • King Talal Hydropower Plant (feasibility study)
Commissioned by	Federal Ministry for Economic Cooperation and Development (BMZ)
Country/Region	Jordan
Lead executing agency	Ministry of Public Works & Housing, Ministry of Energy and Mineral Resources, Jordan Valley Authority

Context

Jordan's energy sector faces two main challenges: the growing energy demand and the highly limited domestic resources to fulfill this demand. Although Jordan has a high potential in the energy production out of renewable energy resources, the country meets nearly all of its energy needs by importing oil and gas. Additional to the sustainability aspect, the rising global oil and gas prices and the volatile situation in the region, make it imperative to increase the use of renewable energies and alternative energy supplies.





Zaatari PV Plant. Source: KfW photo archive, photographer: Alia Begisheva

promoted. This will encourage and support Jordan in reaching its target to reach 20% of generated electricity from renewable energies by 2025 which is set out in the National Energy Strategy 2015-2025.

Project approach

The overall aim of the support in the energy sector is to contribute to a sustainable and secure energy supply in Jordan. KfW, on behalf of the German Government, supports Jordan therefore in using its energy resources more efficiently while likewise increasing national produced energy.

With about 300 sunny days per year, Jordan exhibits an extensive potential for solar energy production. This is why KfW, on behalf of the German Government, financed the construction of a 12.9 Megawatt solar power plant to provide additional energy and ensure net stability in the strained electricity infrastructure in Jordan's north. The large solar power plant was built in Jordan's biggest refugee Camp Zaatari, close to the Syrian border. To further support Jordan in meeting the rising energy demand in the host communities in the north, an additional 46 MW solar power plant, located south of Amman, is being built.

Moreover, as outdated infrastructure in public buildings provides a high potential to save energy, a further programme approach is to install energy efficient measures in public buildings. These include the installation of energy efficient measures for energy controlling, energy efficient lighting and cooling systems as well as rooftop solar plants. Eventually this will result in reduced electricity consumptions and less use of fossil fuels in Jordan's energy mix.

To contribute to the production of clean energy in the country, the construction of an additional power plant at

the river course and the rehabilitation of an existing, highly inefficient power station at the King Talal Dam, are currently in planning.

Impact

The programmes in Jordan's energy sector significantly contribute reaching the energy target of producing 20% of the electricity out of renewable energies until 2025. This also contributes to reaching Sustainable Development Goal Number 7 to ensure access to affordable, reliable, sustainable and modern energy for all. Furthermore, they ensure an increased net stability in the strained Jordanian electricity net.

Through the construction and implementation of the PV plant in the refugee camp Zaatari, the camp population of around 80,000 inhabitants has now access to electricity for up to twelve hours per day. The stable and permanent provision of electricity significantly facilitates the daily life for the refugees in the camp. Furthermore, the emissions of around 15,600 tons CO₂ per year are prevented and more than 75 refugees were employed for the construction work. Currently 3 technicians with refugee status are supporting the operation and maintenance of the plant.

The electricity produced by the PV plant south of Amman will be used to supply public health institutions in host communities in 7 governorates as well as the Zaatari and Azraq refugee camps. Part of the energy budget saved by the public institutions and the UN organization will be used for the improvement of the services for both the host communities and the refugees.

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