Renewable energy growth cairo

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From December 2015 to December 2018, a total of 28229 MW was added to the grid, resulting in a total installed capacity of 55 GW, including both conventional and renewable energy sources. This has been achieved through a fast-track project that worked on installing 3636 MW of electricity in 8.5 months and is worth USD 2.7 billion. Another project was signed with Siemens in March 2015 which added 14400 MW in 2.5 years by building 3 mega combined power cycle stations. By converting old simple cycle power plants to combined cycle, another 1850 MW were installed.

The government of Egypt invested around EGP 24 billion (around USD 1.5 billion) in the distribution grid between 2017 and 2020. It currently needs around EGP 19.5 billion (USD 1.2 billion) to upgrade its distribution networks. The government is also working on modernizing 47 distribution control centers around the country. There are 19 centers under construction: 14 with Schneider Electric, 1 with General Electric, and 4 with JICA.

As part of the efforts done by the government to regulate energy consumption, the Ministry of Electricity has started working on replacing 38 million old electricity meters with smart pre-paid ones. There are 10 million units installed and the rest will be installed in the coming 5 years.

Part of Egypt"s Vision 2030 is to increase local content. The Ministry of Electricity and Renewable Energy (MOERE) succeeded in reaching 30 percent local content for wind farms in 2018 and was expected to increase the share to 70 percent by the end of 2020. The ministry was expected to reach 50 percent local content for CSP projects also by the end of 2020.

Electric vehicles are one of the government"s sustainability priorities. As there is a surplus in electricity, the government is working with the private sector to make the subsector price-competitive. For up to 22 KW, it will cost 121 Egyptian piasters (USD 7.5 cents) as a selling price from distribution companies and the tariff proposed will be 169 Egyptian piasters/k.w.h (USD 10 cents) without the use of the place occupancy fees and 189 Egyptian piasters/k.w.h. (USD 12 cents) with the use of the place occupancy fees. Over 50 KW, it might reach 375 Egyptian piasters (USD 23.4 cents).

There is a huge focus from the government on water desalination projects, and as it requires electric power, the Ministry of Electricity and Renewable Energy is working closely with the Ministry of Housing and the aim is to have 2.8 million cubic feet of water per day in 2025.

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Power Africa is a market-driven, U.S. Government-led public-private partnership aiming to double access to electricity in sub-Saharan Africa. It offers tools and resources to private sector entities to facilitate doing business in sub-Saharan Africa"s power sector. The Electrify Africa Act of 2015 Institutionalized Power Africa. Learn more about the full Power Africa toolboxor otheropportunities offered by Power Africa.

Egypt enjoys excellent wind along the Gulf of Suez with an average wind speed of 10.5 m/sec. It is just one of 38 countries in the world with a published National Wind Atlas. Egypt"s wind-generated power capacity is expected to reach 7 GW by 2022, making it an important contributor to the renewable energy mix.

Since 2001, a series of large-scale wind farms with a total capacity of 1.2 GW were established in cooperation with Germany (KFW), Denmark (DANIDA), Spain (Siemens Gamesa), and Japan (JICA).

In the Gulf of Suez, a 540 MW project is under construction, with another 580 MW project in financing. In addition, a feasibility study is underway for a 200 MW project in the West Nile. More projects are under preparation in cooperation with Germany, AFD, EIB and the EU (200 MW), MASDAR (200 MW), Germany and AFD (200 MW), and Japan (200 MW).

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