

Solar Energy opportunities in Egypt

ACWA Power in a nutshell



29+
GW Power *



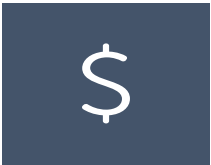
4.8
Mm³ per day
desalinated water *



51
Assets *



11
Countries



\$45+bn
USD of Assets
Under Management **



23%
Portfolio in Renewable Energy
based on share of project cost



3,500+
Employees

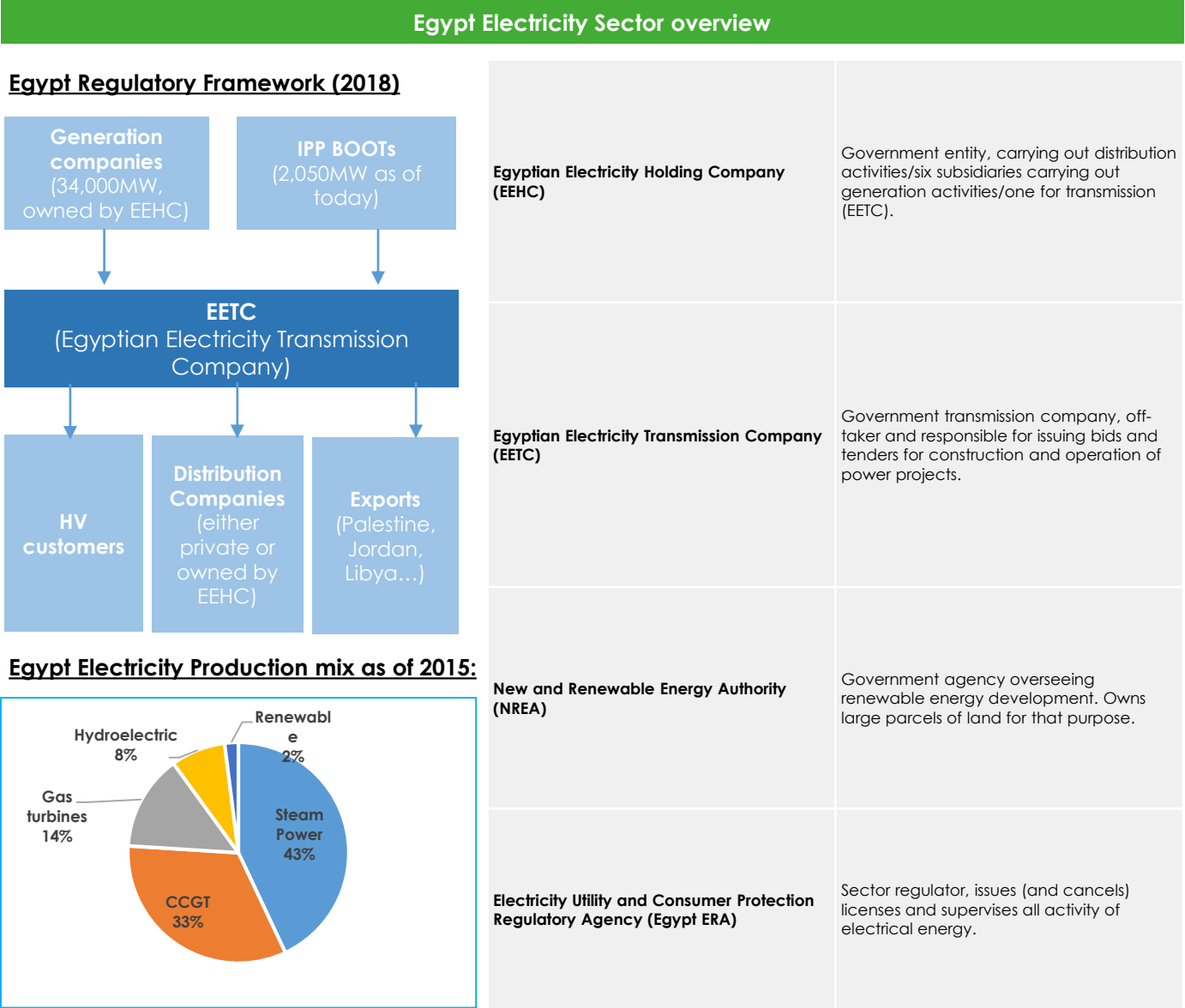


30+
Nationalities



~60%
Local Employment
in projects

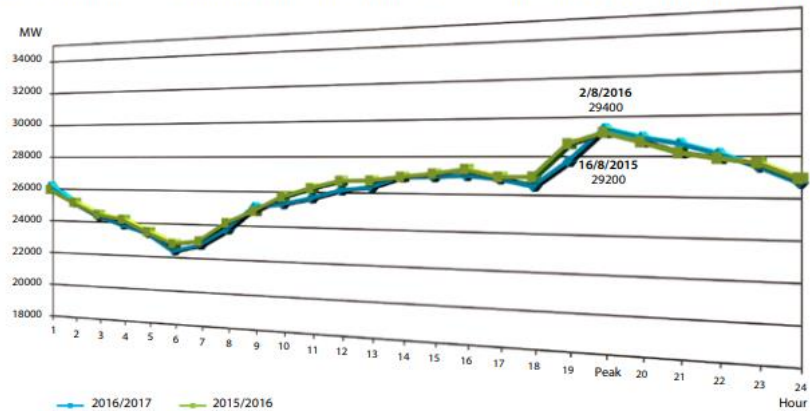
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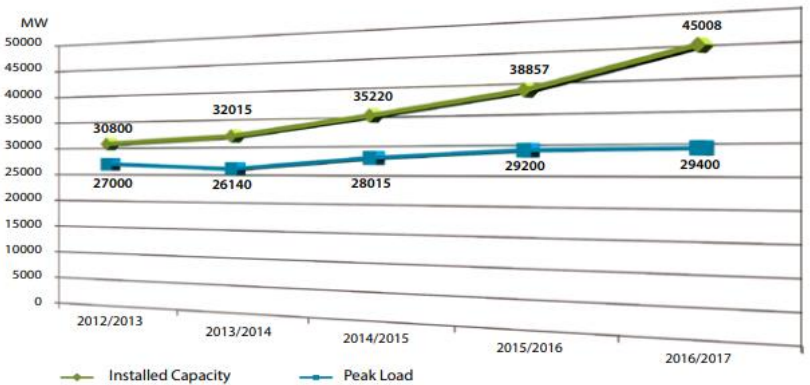
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Installed capacity vs. peak load

The Peak Load reached 29'400 MW in 2016/2017 compared to 29'200 in 2015/2016 at a variation rate of about 0.7%.



On 30/6/2017, the installed capacity reached 45'008 MW compared to 38'857 MW on 30/6/2016 at a variation rate of 15.8 %.

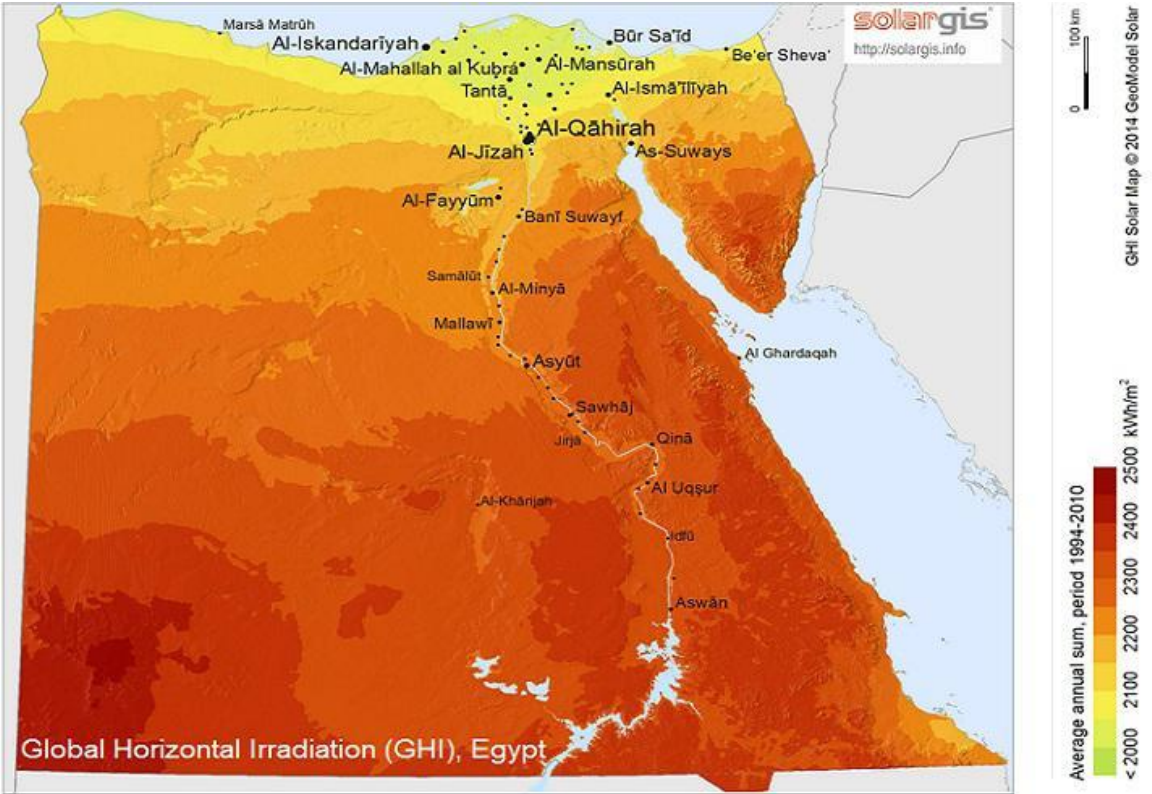


The average growth rate of the peak load is 2.2 % & installed capacity is 10% per year during the period from 2012/2013 till 2016/2017.

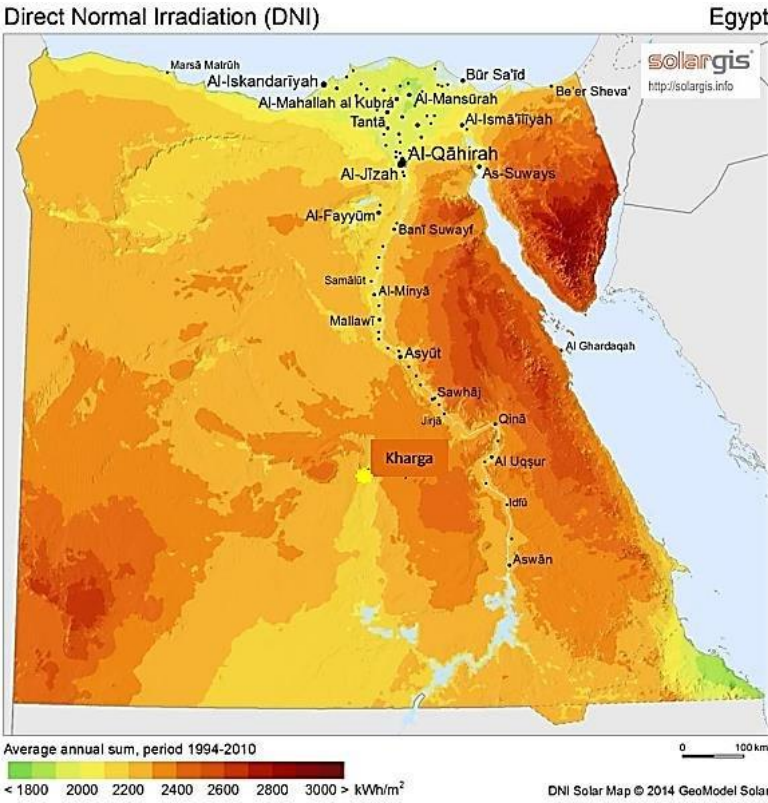
It is worth mentioning that the installed capacity cannot be utilized in full due to the ageing of some generating units, type & quality of fuel used, adverse impact of high temperatures in Summer on some gaseous units and the combined cycle units, dependence of hydro power plants on the amount of irrigation discharged water defined by the Ministry of Water Resources & Irrigation, as well as the impact of non-uniformity of wind speed and solar irradiance on the renewable energy.

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Solar (GHI) Map of Egypt



Solar (DNI) Map of Egypt



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Renewables Target

- Egypt Renewable Energy Plan was announced and approved by the Cabinet is to have **20% of all generated electricity from Renewable Energy by 2022.**
- The 20% would account for almost **15 GW of RE by 2022.**
- Egypt Gov is sponsoring the following schemes to achieve this target, and the pipeline is as follows:
 - **Bids (BOO): 1GW**
 - 250MW Wind in Gulf of Suez (awarded to ENGIE/Orascom/Tsusho)
 - **200MW PV in Kom Ombo**
 - 250MW Wind in West Nile
 - **200 to 600MW PV in West Nile**
 - **100MW CSP in West Nile**
 - **Feed-in Tariff (FiT) Program: 4GW**
 - **Solar PV FiT Program in Ben Ban: 1.8GW.**
 - Wind FiT Program in Ras Ghareb: 2GW.
 - Other FiT Programs
 - **Captive PPAs IPP Projects:** (Electricity Law (no. 87/2015) and Renewable Energy law (203/2014))
 - **Government Owned Projects: 3GW**
 - 1GW Wind between West Nile and Ras Ghareb.
 - 2GW Wind contracted to Siemens.

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