

Shigaya Renewable Energy Park

The Shigaya Renewable Energy Park is a 100-square-kilometer, state-owned initiative that, when completed, will produce the energy equivalent of 12.5 million barrels of crude oil. By 2030, through utilizing solar and wind technologies, the complex will produce an estimated 5 million megawatts of energy per year; enough energy to power 100,000 households. The project is being carried out in 3 phases, with the third phase culminating in the increase of its capacity to 2,000 megawatts, up from 70 megawatts in the first phase (TSK Groups).

of all Kuwait's Energy from Renewables by 2030

15%

Enough Renewable Energy Produced for
100,000
Households by 2030

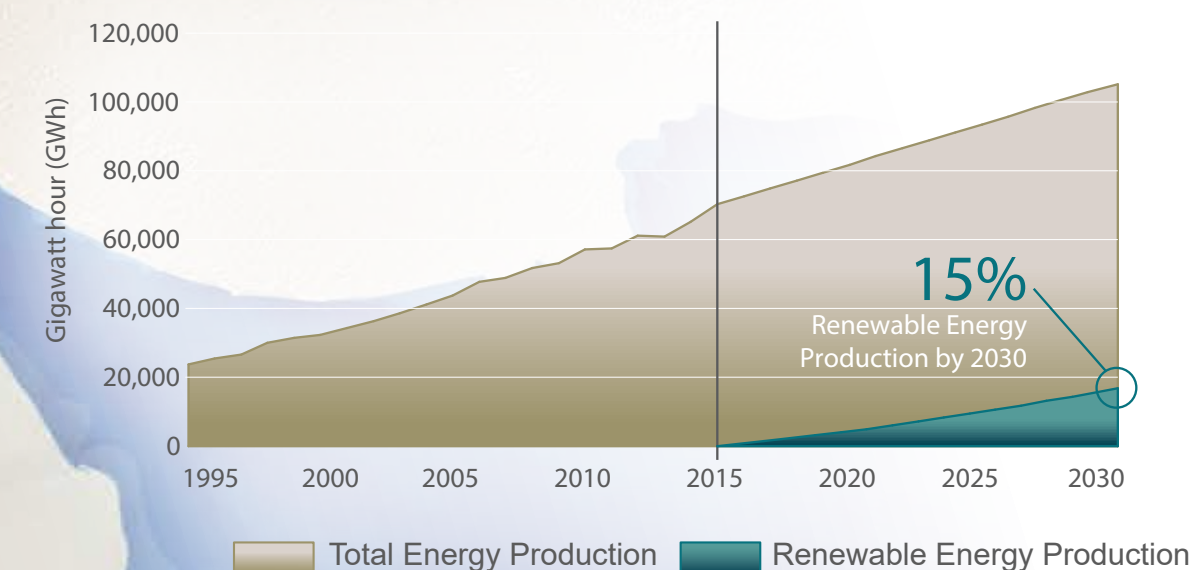
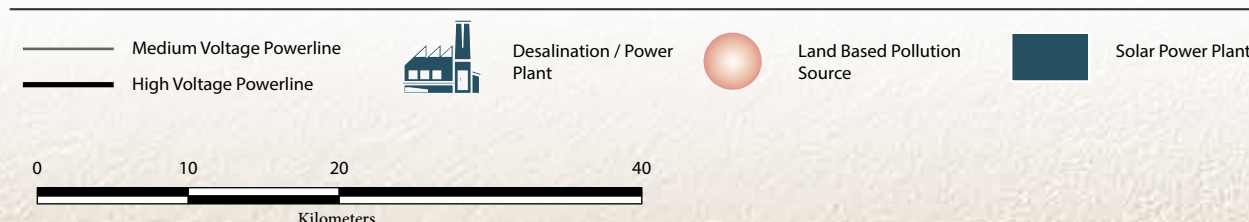
(Source: KISR)

ENERGY

POWER PRODUCTION AND RENEWABLE ENERGY FUTURE

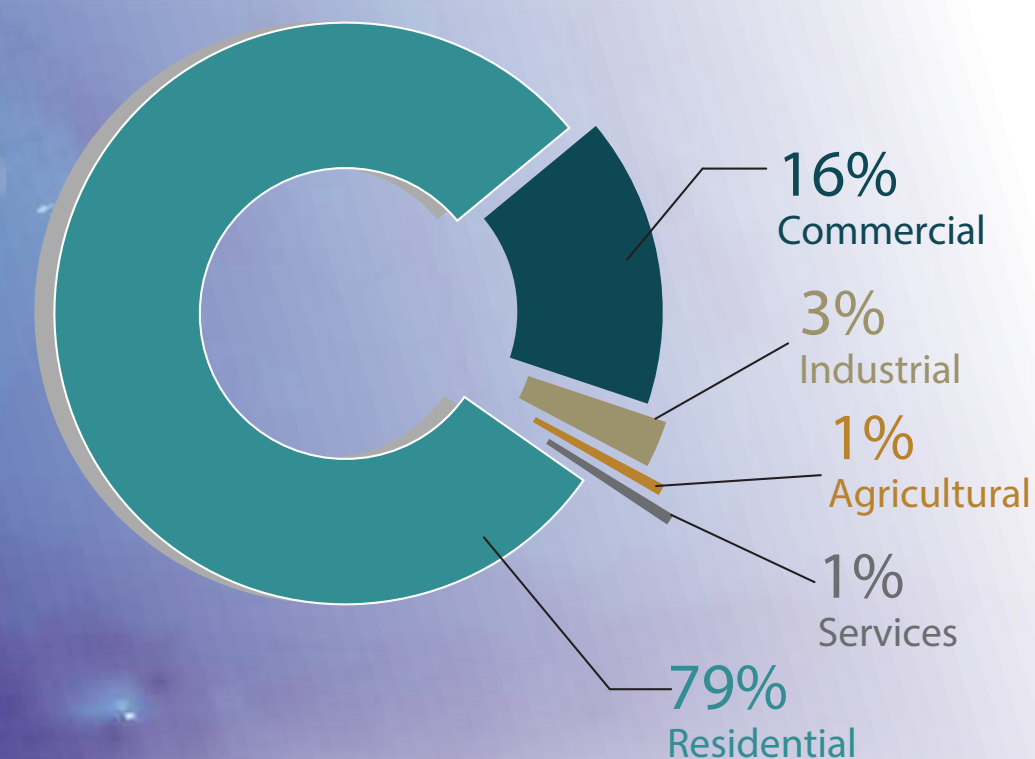
The activities of petroleum exploration and extraction as well as energy production and desalination processes have tremendous negative impact on Kuwait's terrestrial and marine environments. As a result, there is a renewed interest in developing more sustainable renewable means of energy generation. Kuwait has set a target of producing 15 percent of its energy needs from renewables by 2030. To this end, the Government—under the auspices of the Kuwait Institute for Scientific Research and the Ministry of Electricity and Water—has established the Shigaya Renewable Energy Park which is situated 100 kilometers north of the capital city. The Shigaya Park will generate more than 1.1 gigawatts of solar energy, 140 megawatts of wind energy and 700 megawatts of photovoltaic energy (Arabian Business, 2015).

Energy Production and Distribution



Renewable Energy 2030

A series of related endeavors are either under construction or in planning throughout Kuwait to achieve the 15 percent target of renewable energy consumption by the year 2030. The utilization of these renewable energy sources will help meet the country's future water and electricity demands, while decreasing Kuwait's carbon footprint (MEW, 2016).



Electricity Consumption by Sector, 2000 - 2013

Power production and distribution in Kuwait is under the sole responsibility of The Ministry of Electricity and Water (MEW). Fueled by rapid population and economic growth, electricity demand in Kuwait is projected to out-pace its power generation capacity. Moreover, Kuwait is one of the world's highest consumers of power on a per capita basis—this can be seen indirectly from the above graph, as the residential sector claims the largest share of power produced by MEW (MEW, 2016).

Kingdom of Saudi Arabia