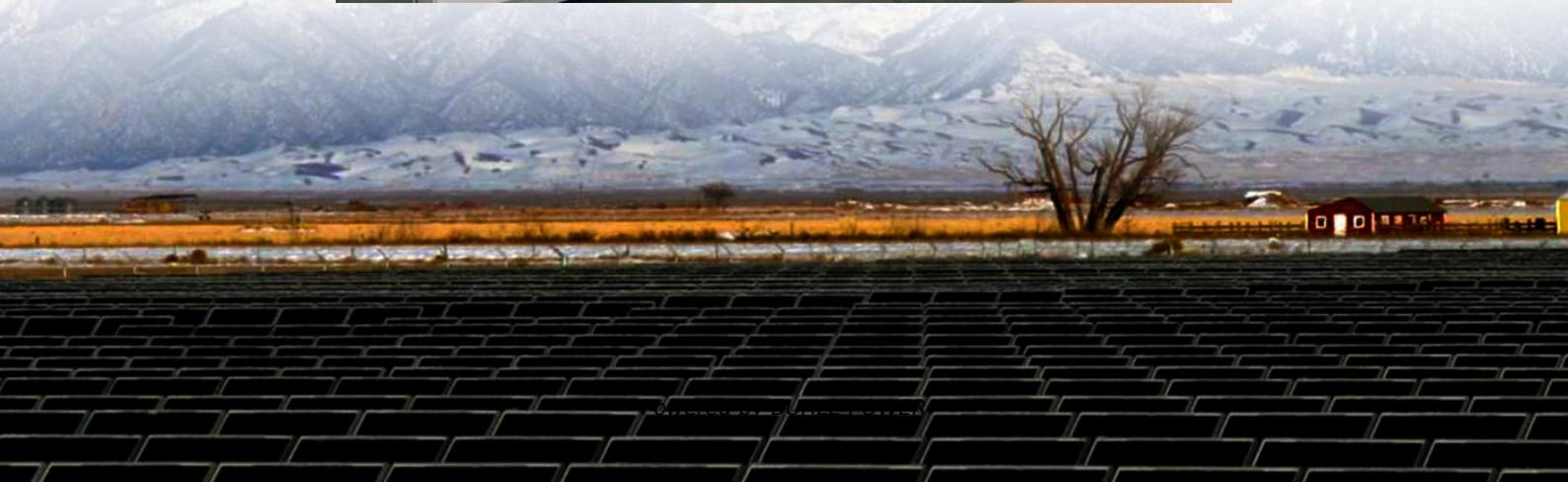




BUHLE POWER

Kuwait City Solar Container

1MW vs Diesel Power Generation





Overview

Does Kuwait need solar power in 2035?

Despite some progress in supporting solar generation, in the Business-as-Usual Case, the share of renewables in total primary energy demand remains low in 2035, only 3%. Electricity generation capacity in Kuwait increases by over 13.2 gigawatts (GW) over the Outlook period, reaching 32 GW in 2035, a 70% increase over capacity in 2018.

Is Kuwait facing a changing energy world?

Kuwait, like all oil-producing countries, is facing a changing energy world today. Shifting supply, demand and technology trends have ushered in an energy world where oil-price volatility and market uncertainty are the defining features.

Will Kuwait use natural gas?

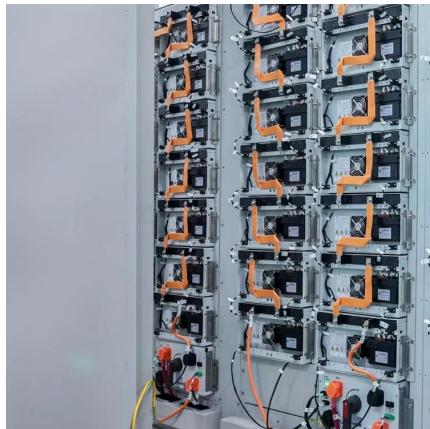
These plants will use both oil and gas for generation, but Kuwait will favor the use of natural gas in combined-cycle and steam plants, and the share of oil products in total generation is likely to fall to about a quarter by 2035. Renewable-energy capacity, mostly solar, will make up 16% of total generation capacity.

Why is Kuwait releasing a business-as-usual energy analysis & predictions?

With valuable support from the General Secretariat of the Supreme Council for Planning and Development, Kuwait is releasing its first ever economy-wide, in-depth energy analysis and predictions. In the Business-as-Usual case presented here, only current policies and plans are considered to have an impact on the projections.



Kuwait City Solar Container 1MW vs Diesel Power Generation



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Diesel Generated Electricity
The Cost of Solar-Generated Electricity
Diesel Generation vs Solar Generation
Targeting Off-Grid Customers
The chart below shows the comparison between the solar-only LCOE, in yellow, and the today's diesel generation cost in each GCC country, as dark circle. The extended "whiskers" lines in the diesel generation cost reflect the range of diesel prices observed in the last 5 years. With the exception in Saudi Arabia, solar energy is already the most affordable. See more on danieldomingues Journal of Engineering Research Translate this result [PDF]



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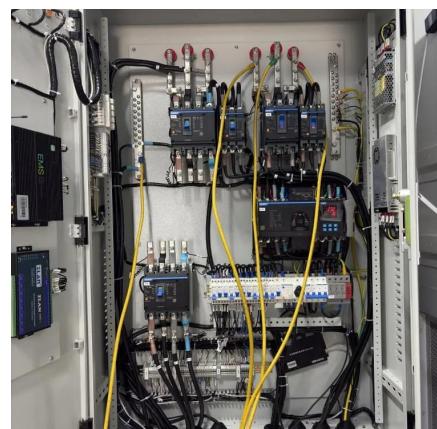
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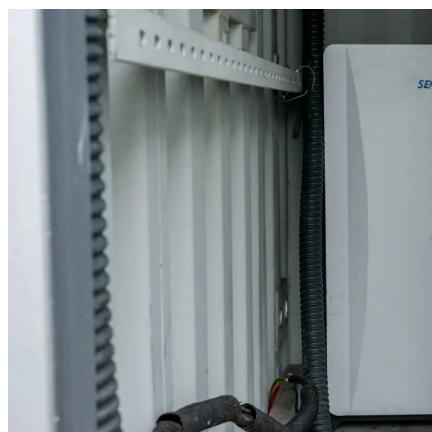
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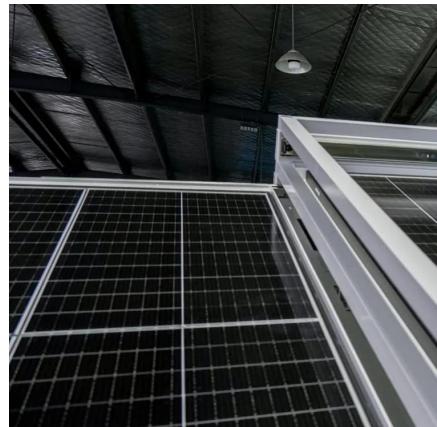
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