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Overview

Do photovoltaic modules perform well in the harsh climate of Kuwait?

This paper presents a comparative performance evaluation of eight commercially available photovoltaic modules (m-Si, p-Si, HIT and thin film with several technologies (CdTe, CIGS and u-Si)) in the harsh climate of Kuwait. The final energy yield of different kinds of modules was analysed to show the technology specific differences.

Where are photovoltaic technologies tested in Kuwait?

In this work, performance analysis and comparison of eight photovoltaic (PV) technologies were carried out under the local harsh climate conditions of Kuwait. The test facility is elevated 3 metres above ground level on top of carports at the Kuwait Institute for Scientific Research (KISR), alongside the seashore.

Which PV technology is best under Kuwait climate conditions?

Outdoor testing of 8 different PV technologies under Kuwait climate conditions. Impact of PV soiling due to dust deposit on modules temperature and performance. HIT modules are found to perform consistently better than other technologies. Glass modules are more resistant to soiling losses compared to epoxy PV surfaces.

Do crystalline silicon cells perform better in temperate climates?

Aste et al. (2014) made a comparative analysis of crystalline silicon cells (m-Si), micromorph cells (a-Si/ µ c-Si), and heterojunction (HIT) cells in temperate climates of Italy. The analysis shows that in warmer months micromorph a-Si/ µ c-Si silicon cells achieve higher performance than the other technologies tested.

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Performance and Cost Assessment of Three Different ...

Kuwait enjoys high level of solar radiation, more than 7.7 kWh/m2/day [1], thus the utilise of solar energy became a priority in the Kuwaiti government strategy aiming to decrease the oil ...

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