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Advantages and disadvantages of high-efficiency Iranian solar-powered container

Overview

Does Iran have a solar energy potential?

Iran's climate is diverse, and its central, southern, and southeast regions are situated in the world's ‘Sun Belt’ [16, 24]. Iran's solar energy potential map is presented in Figure 13, which illustrates the country's ideal capability for solar projects.

Why is Iran a major energy exporter?

Iran is one of the most potent energy exporters and fastest-growing energy consumers in the world. Its large amount of energy exported can directly impact the economy of importer countries.

Is solar energy a viable option in Iran?

The potential for PV is extremely high in Iran, mainly due to having about 300 clear sky sunny days per year on two-thirds of its land area and an average 2200 kWh solar radiation per square meter (Najafi et al. 2015).

Why is energy use in Iran so inefficient?

Energy use in Iran is inefficient mainly due to huge energy subsidies by the government. The country’s energy intensity is 36 and 27% higher than the global average and the Middle Eastern average, respectively (IEA 2016; The World Bank 2014).

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