

Principles of solar power generation in northern Vietnam

Is solar energy a good source of energy in Vietnam?

Among current renewable energy sources in Vietnam, solar energy has been considered as the most potential source, up to 300 GW [3]. Even, the solar radiation in Vietnam has been better than other countries at similar potential like Thailand, the Philippines, Malaysia, Spain, or Italy [9,11].

Does Vietnam have a solar energy policy?

Solar energy has been mentioned in Vietnam's policies since 2007, but it was not activated until 2017 in the form of regulated FIT prices. Thanks to these policies, solar power projects have increased rapidly, from insignificant in 2015 to exceeding the target nearly 10 times in 2019.

Is solar power a viable option for Vietnam?

Solar power generation is an increasingly attractive option for Vietnam thanks to recent cost reductions, fast construction timelines, and the contribution solar power can make to ensuring energy security and environmental sustainability.

Can photovoltaic projects be implemented in Vietnam?

This paper reviewed the potential and actual implementation stage of photovoltaic projects in Vietnam. Moreover, the barriers and challenges of institution, technique, economy, and finance have been considered explicitly for the future development of solar energy in Vietnam.

Does Vietnam have a solar power development plan?

Currently, Vietnam just has a solar power development plan at the provincial level, especially concentrated in some provinces and cities with good solar potential. In addition, these provincial plans just have been applied to grid-connected solar power plants, not to rooftop solar power projects [29,31].

What is the LCOE of solar PV power in Vietnam?

According to [50], in Vietnam, the LCOE of solar PV power is the third highest, ranked below gas turbine (DO), and oil-fired power (FO), provided that the capacity factor of fossil fuel plants is 70% or more, see Figure 19. Figure 19 gives a comparison of the LCOE from selected key technologies in Vietnam.

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