

عنوان مقاله:

Optimizing energy conversion procedure of PMSG wind turbines with no mechanical sensors

محل انتشار:

پنجمین کنفرانس بین المللی مهندسی برق و کامپیوتر با تاکید بر دانش بومی (سال: 1396)

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خلاصه مقاله:

Wind is the cleanest eco-friendly energy with no pollution and wind turbines can work efficiently when appropriately installed to control the great amounts of this energy. Energy conversion technologies are the key for successfully reducing man-made greenhouse gases. Apparently, the corresponding models have disregarded this that greenhouse gas emission is the potential product of all kinds of energy conversion. Therefore, in the present study it is attempted to first generally introduce energy conversion procedure of PMSG wind turbine systems, and then represent recommended strategies gathered from present literature for obtaining the maximum energy, and last but not least, explain the potential disadvantages of such kind of technology which finally leads to proposing an all-inclusive strategy for converting energy with the least damage to human life and natural environment including birds. The methodology used in this research is descriptive in nature. The results indicate that the PMSG wind turbines with no mechanical sensors have proved to perform efficiently under different environmental conditions.

کلمات کلیدی:

wind turbines, mechanical sensors, Energy conversion, PMSG

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