

# AI Supported Maintenance and Reliability System in Wind Energy Production

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**Abstract:** *Now a days the technology is advancing at an unbelievable rate. To the point many of us aren't able to efficiently keep up. With the ever- increasing sophistication of Artificial Intelligence [AI]. The environmental impact of the wind power is relatively minor when we compared to that of the fossil fuel power. When Compared to other low carbon sources, wind turbines have one of the lowest global warming potentials per unit of electricity energy generated per power sources. Among the renewable energy arts wind energy plays a significant role and, as forecasted its ratio within the total energy production will rapidly increase. Wind turbines are relatively complex electro-mechanical systems, their smooth functioning is an important economical factor. This is why the monitoring and diagnosis of wind turbines and wind farms gained extreme importance in the past years.*

**Keywords:** Wind Power

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