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A REVIEW STUDY ON ENVIRONMENTAL ISSUES ASSOCIATED WITH WIND ENERGY

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ABSTRACT

Regions require a complete understanding of the environmental impacts caused by wind farms. In this article, previous studies were summarized to evaluate the environmental problems created by wind farms. This paper explored available mitigation strategies for reducing these negative environmental effects. The goal of this document is to offer wind energy planners and developers with up-to-date information on environmental problems connected with wind energy development, as well as mitigation methods. Fossil fuel combustion is thought to be one of the main contributing elements towards global warming. In order to cut dependencies on fossil fuels, energy researchers, industrial professionals and policy-makers focused on renewable forms of energy. Wind energy, which is considered one of the most mature renewable energy sources, has seen tremendous growth in recent years. Many nations have shown interest in using wind power, although many are worried about the wind farms' environmental effect. The continued expansion of the wind energy sector in many areas of the globe, particularly in developing and environmentally fragile nations.

KEYWORDS: *Animals, Environmental, Energy, Noise, Wind Energy.*

REFERENCES:

1. Dai K, Bergot A, Liang C, Xiang WN, Huang Z. Environmental issues associated with wind energy - A review. Renewable Energy. 2015.
2. Kaldellis JK, Apostolou D, Kapsali M, Kondili E. Environmental and social footprint of offshore wind energy. Comparison with onshore counterpart. Renewable Energy. 2016.
3. Shafiullah GM, M.t. Oo A, Shawkat Ali ABM, Wolfs P. Potential challenges of integrating large-scale wind energy into the power grid-A review. Renewable and Sustainable Energy Reviews. 2013.
4. Ho LW, Lie TT, Leong PT, Clear T. Developing offshore wind farm siting criteria by using an international Delphi method. Energy Policy. 2018;
5. Harvey N, Dew REC, Hender S. Rapid land use change by coastal wind farm development: Australian policies, politics and planning. Land use policy. 2017;
6. Wang C, Prinn RG. Potential climatic impacts and reliability of very large-scale wind farms. Atmos Chem Phys. 2010;
7. Sheikh RQ, Yadav V, Kumar A. Stabilization of red soil used as a sub-base material. Int J Sci Technol Res. 2020;
8. Bailey I, Darkal H. (Not) talking about justice: justice self-recognition and the integration of energy and environmental-social justice into renewable energy siting. Local Environ. 2018;

9. Martínez E, Sanz F, Pellegrini S, Jiménez E, Blanco J. Life-cycle assessment of a 2-MW rated power wind turbine: CML method. Int J Life Cycle Assess. 2009;

10. Zhou C, Liu X, Gan L, Zheng Y, Zhong Q, Ge K, et al. Assessment and Countermeasures for Offshore Wind Farm Risks Based on a Dynamic Bayesian Network. J Environ Prot (Irvine, Calif). 2018;

11. Liu J, Guo C, Vasileff A, Qiao S. Nanostructured 2D Materials: Prospective Catalysts for Electrochemical CO2 Reduction. Small Methods. 2017.

12. Senapati R, Nayak B, Kar SK, Dwibedi B. HPV Genotypes distribution in Indian women with and without cervical carcinoma: Implication for HPV vaccination program in Odisha, Eastern India. BMC Infect Dis. 2017;

13. Isha, Rana P, Saini R. Performance of different bit loading algorithms for OFDM at PLC channel. In: Proceedings - 2012 2nd International Conference on Advanced Computing and Communication Technologies, ACCT 2012. 2012.

14. Tripathi L, Singh R. Anticonvulsant and neurotoxicity evaluation of some novel cyclohexyl -[4-substituted benzylidene/2-oxo-1,2-dihydro-indol-3-ylidene] thiosemicarbazides. Asian J Chem. 2011;

15. Mathur G, Ghai W, Singh RK. A totalitarian technique for wormhole detection using big data analytics in iot network. Int J Sci Technol Res. 2020;

16. Chandel SK, Goyal R, Singla S. Utilization of construction waste as partial replacement of aggregates in cement concrete. Int J Innov Technol Explor Eng. 2019;

17. Sihag J, Prakash D, Yadav P. Evaluation of Soil Physical, Chemical Parameter and Enzyme Activities as Indicator of Soil Fertility with SFM Model in IA–AW Zone of Rajasthan. In: Advances in Intelligent Systems and Computing. 2020.

18. Kumar S, Wahi A, Singh R. Synthesis and preliminary pharmacological evaluation of 2-[4-(aryl substituted) piperazin-1-yl]-N-phenylacetamides: Potential antipsychotics. Trop J Pharm Res. 2011;

19. Wani IA, Sheikh IM, Maqbool T, Kumar V. Experimental investigation on using plastic wastes to enhance several engineering properties of soil through stabilization. In: Materials Today: Proceedings. 2021.

20. Saidi AHKS Al, Hussain SA, Hussain SM, Singh AV, Rana A. Smart Water Meter using Power Line Communication (PLC) Approach for measurements of Accurate Water Consumption and Billing Process. In: ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions). 2020.

21. Virk JPS. Use of genetic Algorithm in capacitor placement and sizing for optimal power system operation. In: Proceedings of the IASTED International Conference on Modelling and Simulation. 2011.

22. Khatri M, Kumar A. Stability Inspection of Isolated Hydro Power Plant with Cuttlefish Algorithm. In: 2020 International Conference on Decision Aid Sciences and Application, DASA 2020. 2020.

23. Wani PA, Wahid S, Rafi N, Wani U. Role of NADH-dependent chromium reductases, exopolysaccharides and antioxidants by Paenibacillus thiaminolyticus PS 5 against damage induced by reactive oxygen species. Chem Ecol. 2020;