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Combat the global warming by generating renewable sources of energy

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Electricity generation accounts for more than 50% Global Warming emission with the majority generated by coal fired power plants in the world. Natural gas power plants produce more than 10 % total emission on the earth.. In contrast to this most renewable energy sources produce very little global warming effects. The natural gas emits CO₂ between 0.6 to 2 pounds carbon dioxide equivalents / kwh, coal emits CO₂ between 1.4 to 3.6 pounds equivalents /kwh. Wind emits 0.02 to 0.04 pounds of CO₂ /kwh. Solar emits 0.07 to 0.2 pounds CO₂ /kwh, Geothermal 0.1 to 0.2 pounds/ kwh, and hydro power 0.1 to 0.5 pounds CO₂ / kwh. Electricity generation from Biomass can have a wide range of Global Warming Emission depending on methods of harvesting. Thus the supply of renewable energy would allow us to replace carbon intensive energy sources significantly in the world. In modern day's power sector is the most important sector for the economical growth and prosperity of any country. However human activities over loading our atmosphere with carbon dioxide and other global warming emission which trap heat steadily and increases the planets temperature and creates significant harmful impacts on our health, environment and climate. Here in this article the author has made an attempt to bring out the status of renewable sources of energy like Hydro power, Solar and Wind energy and their contribution to combat the effects of environmental degradation. A special emphasis has been given in respect of Indian context.

Biography

Dr. PN Darde has done his M.Tech from IIT. Delhi and Ph.d from University of Delhi in Civil engineering. He is a member of several professional bodies and has worked in various capacities. He was General Manager, NHPCL, Chief Engineer for Hydro Projects. Before joining the University, he was Director/ Principal/ Dean at Hindu College of Engineering Sonapat. He was also Associate Professor, Water Resources Engineering at Arba Mincha University, Ethiopia. He is widely travelled and had a few overseas assignments also. He has authored several books and has also taught at Delhi College of Engineering for 12 Years on Hydraulic Structures and Irrigation Engineering. His major expertise is in the planning, design and execution of Hydropower Plants.

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