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Energy Environment Symbiosis: Way forward towards a Vikshit Bharat

Sustainable and Inclusive development of a nation like India is about developing a method of resource use that aims to meet human needs across the entire socio-economic spectrum while preserving the environment so that these needs can be met not only in the present, but in the indefinite future. Energy is the primary resource closely linked to the economic growth while preservation of ecology preserves our life. After nearly a century of unbridled techno- industrial growth, the world is facing twin energy related threats, On the one hand, to maintain the growth momentum, humanity needs to provide adequate energy availability to all at affordable costs and on the other hand, the fast spiraling deterioration of environment due to ever increasing energy consumption has resulted in severe climate crises. In fact, unless human wisdom quickly combines with our cumulative scientific and technical knowledge to find a solution, sustainability will become an issue. Global recognition of these issues means the drive for new and clean energy generation, supply, distribution and consumption technologies is real and it is here to stay. The challenge is how to achieve energy self sufficiency or strategic energy independence with non carbon sources and consistent with the tenets of social equity and strict compliance of environmental ethics. ; elements of sustainable energy culture. The next three or four decades are going to stress on renewable non carbon energy sources for more than 80% of human activities with major research and innovation focus on new energy, new materials, net zero practice and radical steps towards carbon sequestration utilization and storage. The talk will be a semi popular one stressing on this central theme.

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