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## Dynamics of India's Energy Security: Implications on Environment and the Society

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The conomic development, growing industrial sector and the large equilation have made immay a significant curron for Iridia, However the uneven acceptance of modern energy and the fastil faller concentrated energy into are the might related behind its energy another. It is third target energy mix are the might related behind its energy another. It is the target energy mix and contained and related modern energy recourses. Coal is the major source in the power and related modern energy recourses. Coal is the major source in the power and related modern energy recovers. The energy mix of the country includes hydrocarbon resources are major share. The consumption of freat four fail may be the memorial business of memorial major fails of the country includes hydrocarbon resources are major share. The consumption of freat four fails not be transported and positive fundamental and contains. So the paper analyses major issues of Indian energy choices and its implications on people, environment and climate.

Keywords: Energy Security, energy min, fossil fuel resources, environment, energy choice

## Introduction

The concept of energy security is a complex one and energy has played a significant role for social and economic development of the humanity. Conventional ergy security concept implies the access of resources without any disruption. Since, the invention of fossil fuel resources, the major powers compete each other for the availability and control over the resource or resource rich area. Affordable and adequate quartity of energy is crucial for the basic needs of every society and it resembles in national and foreign policies of every nations. Global warming and climate change warnings influenced energy security approaches and conservation, efficiency measures, limited use of fossil fuels and the importance of clean source came into mainstream energy discourses. However the world still consumes more than 80% of energy from fossil fuels (WEC 2016). In this oil, contributes a significant role not only because of its highest share of world energy mix but also due to its influence in the world

economy by the supply disruptions and the volatile price. Energy is vital for the human being from primitive stage of development to the daily needs of the modern society. It touches all aspects of human well being and the lack of availability of it reduces the progress of the individual as well as society At the same time abundant availability of energy resources became a curse for several regions like Sudan, Nigeria and Congo etc (Gary & Karl 2003). Instead of economic and social development violent conflicts and environmental degradation are prominent in these areas (Coller 2007). Above all the production, extraction, transportation and consumption of hydrocarbon sources affect human health and environment severely. So there is a need of human and environmental security aspect in this energy landscape The approach focus on all human beings including future generations are entitled to benefit from modern energy services and at the same time be protected from their negative side effects (Karlsson-Vinkhuyzen & Joi lands 2013: 507-23). Linkage with climate

change is also another factor in the energy security concept. Limiting the green house gas emissions will be the major challenge in the sector (Verrators & Ladislaw 2007). It is a complex concept which includes access to continuous alfordable clean energy resourchs for substantiable well benny of the humanity. India's tenergy Landscape.

The economic development and the growing population are the two determinants behind the growth of energy demand from India. It largely depends on industrial growth and electricity production. According to IEA it accounts 25% of the rise in global energy demand by 2040 and the demand will be addressed by strong dependence on coel for next decades. Now India's energy mis includes a large share of coal (50%) and others include oil (29%), Gas (6%), Nuclear (1%), Hydro (6%) and Renewables (3%) are the main sources in India's energy mis (8P 2019).

India's consumption of traditional energy sources increased 3.3% including crude petroleum 5.24%, natural gas 6.12% and electricity 6.50% (CSO, 2018). Coal is the most significant energy source in India which is used in electricity generation and industrial sector abundantly. The cheap availability is the major attraction but the low quality of domestic coal forces the country to import high quality coal. From 2007-08 to during 2015-17 the crude oil import increased from 121.67 to 213.93 MTs and it reveals India's higher dependency on import. India's energy statistics shows the gross crude oil import increased by 12,57% and 8.5 % of natural gas in 2015-16 to 2016-17. The total installed capacity for electricity generation grew with a compound annual growth rate (CAGR) of