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Golden Research Thoughts



ON LOCAL PUBLIC: A REVIEW OF LITERATURE AND REFLECTION OF FUTURE OPPORTUNITIES



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ABSTRACT

ower sector is a vital part of industry in India and it has been a subject of serious discussion and study for academic as well as professionals. As it contributes to the economic development of the region. Power generating industries as an economic phenomenon has been subject of special research interest by many researchers. By the end of the 1990s, results of research conducted in developed countries showed that power industries generate a high growth rate of gross domestic product or gross value added and employment As a result, there has been lot of formal discussion and scholarly research on the various effects of power sector across the globe. Though there are a large number of studies

available to review the power sector effect across various countries, it is useful to make references of some studies which are relevant to the study area. Therefore, a brief review of some of the relevant studies is under taken in this research paper.

KEYWORDS: Economic effect, employment, local property value, income.

INTRODUCTION

In India, development of the power sector has received special emphasis in the planned economic development of the country over the past four decades. The great relevance of power sector

is further highlighted by the fact that the demand for electricity has been increasing more rapidly in India than elsewhere in the world, although India's per capita power consumption is low. Thermal power plants are the largest suppliers of electricity in India, followed by hydro, nuclear, gas, and dieselbased generating plants. Thermal power plants hold the highest share of installed power generation capacity in the country. The share of thermal plants in total power generated in the country is even higher than their share of generation capacity. The economic benefits of new thermal power units can be measured through increased employment, value addition in asset, local investment and business and wages or salary accrued during both the construction and operational phases of new coal units.

A study was done by Mullin &Zenia (1997) on closing of Yankee Atomic Electric Company' nuclear power plant, it reveals that the decisions to close nuclear power plant are highly unlikely to consider the local impacts.. Closing of plant brought joblessness, low rate of taxes and weak economic base. (Joskow, 1998) stated potential impact of structural and regulatory policies of electricity sector on economic development and distribution of income.

Allen Blackman & Xun Wu (1998) analysed foreign direct investment in china's power sector which enhance the productivity of Chinese power plants. The increase in power generation fetch the great employment in the said region. (Muhammad Iqbal Khan & Ather Maqsood Ahmed, 1999) found that electricity generation in Pakistan would boost the agriculture and industrial production. (Daniel Bouille, Hilda Dubrovsky & Crescencia Maurer, 2001) analysedhow public benefits were addressed in the reforms of Argentina's electric power sector during the 1990s. Public benefits refers to social and environmental concerns that have important implications for social welfare including increasing rural access to electricity, tariffs paid by poor households, employment in the electricity sector, the efficient use of energy, development of renewable energy, and global climate change. (Bacon, 2001) found in his study that the poor performance of the state run electricity sector in terms of high costs, inadequate electricity services for population and insufficient supply makes other dependent industries weak which indirectly create impact on economy and results unemployment in state. (Phoenix Economic Development Group, 2002) a group of experts was constituted to conduct a study to examine the economic impact of wind power in Kittitas County. The key findings of the study was wind power projects will not negatively impact on local property value, the construction of plant will have significant economic benefits for local residents, plant operation will provide additional annual economic benefits by over \$4 million annually, government also will get additional tax revenues which result the strong economic growth of the said area. (Mariita, 2002) found that Olkariaproject had an impact on community, to some extent improved the living standards of the Maasai. (K. R. Shanmugam & Praveen Kulshreshtha, 2002) stated that electricity infrastructure is vital to country's economic development and growth.

As per R. K. Schwer and M. Riddel(2004) there will be direct and indirect employment impacts from constructing and maintaining renewable energy generation facilities. New jobs can be created in the retail market, service sector and other sectors that support consumption activities of local residents. The study of (Nuclear Energy Institute, 2004) stated that power plant provides job to the local community directly and indirectly. Additional benefits to the area are higher tax revenue, increase in labour income and charitable contribution by power plant to the local community. (Edgard Gnansounou, Denis Bedniaguine & Jun Dong, 2005) stated that in electricity sector clean development mechanism offers attractive business opportunities for investment in greenhouse gases alleviation projects which brings good economic benefits for industries and developing countries. As per (Natàlia Caldés, Manuel Varela & Rosa Saez, 2006) the total direct employment generated by power plant would be 220 while the indirect employment generated would reach 47,000 equivalent full-time jobs of one

year of duration. The study conducted several types of economic effect like direct effect, indirect effect and induced effect. (L. Stoddard, J. Abiecunas & R. O'Connell, 2006) Analysed concentrating solar power (CSP) plant and its potential economic return, energy supply impact and environmental benefits for the California. A group of economist (Urban-Econ Development Economists, 2006) studied the potential impacts of the construction and operation of the proposed coal fired power station on the net welfare of the local communities and economic development in the area.

Alex L. Rosaen & Anderson Economic Group, LLC (2008) found that the proposed power plant will attract new firms to the area, creating economic impact as the indirect employment created as workers.(S. Reategui & S. Tegen, 2008)stated that The plant creates direct and indirect impact on employment their corresponding payrolls salaries and spending activities. The study shows significant economic impacts on employment, property tax, landowner revenue, and local economic activities during the construction and operational periods. (Wise Energy for Virginia Coalition, 2009) summarised that construction period of Dominion Virginia Power's Coal-Fired Power Plant generated 5,700 job costing \$419 million in total labour income and \$720 million in gross state product.(N. Calde's, M.Varela, M.Santamarı'a & R.Sa'ez, 2009) analysed the total indirect effect generated during the construction and operational phase would reach 445Mh, of which 285Mh are indirect national demands and 160Mh are indirect demands generated nearby area of the Spanish territory.

A group of researcher Economic & Policy Resources, Inc. and Kavet, Rockler & Associates, LLC (2010) found that Vermont Yankee power plants shutdown showed the negative impact on employment about loss of 1,060 jobs. Kinyari (2010) interpreted positive and negative socio economic impacts of proposed MSD power plant. A group of researchers, Stanley McMillen, Nandika Prakash, Alissa DeJonge & Dale Shannon (2011) determined the economic impacts of construction and operation of new and replacement nuclear power plant on population. (The Conference Board of Canada, 2012) Analysed that electricity sector contributes to Canadian economic activity and employment. (The World Economic Forum, 2012) Stated that the energy sector contributes biggest share in GDP of most countries. The energy sector contributes economic growth by two ways, it creates job and value by extracting, transforming and distributing energy services. Energy sector hired high skilled employees with high pay, as a result high salaried employees contribute more spending per capita to the economy than the average workers. A group of researcher of India Brand Equity Foundation (2013) concluded that power is considered as base industry for other various sector such as manufacturing, agriculture, commercial enterprises and railways etc. (ModinatO. Olusoji & Olusegun O. Oloba, 2014) stated that private power sector enhance the economic growth by providing direct and indirect employment and earning.(Shunichi Hienuki, Yuki Kudoh & Hiroki Hondo, 2015)found that employment created in the operation and maintenance stage is 66% of the total, indicating that power generation can generate long term employment opportunities in service sectors.

CONCLUSION

The above review indicates, power generation sector created favourable environment for economic development. They have provided a stable base for growth of economic condition of local public. Some studies have found out the commendable role played by power plant in generation of direct and indirect employment opportunities at the time of construction and operational period. The power plant would provide direct and indirect business opportunities to the local population. Individual, small, medium and large sized businesses are expected to benefit from the contracts offered by the power plant. Individual and small business are expected to benefit from direct and indirect business like selling goods and services to workers, letting out house, supplying materials to the power

plant or providing transport services to both goods and people. Establishment of power plant fetched value addition in income and land. It also help to improve the standard of living of local resident. The literature shows the impact of power sector on local community near plant site is more positive than other region. This recommends up the need for a special study to analyse the impact of power plant on economic condition of local public.

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