# "The Concept Of Corporate Environmental Performance (CEP) – A Review Of Literature"

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### ABSTRACT

Environmental responsibility is the reason for the survival of many species in the world. The humans are not apart from this, as they are the ones who have to take this responsibility to the full extent. What we learn from our mistakes, help us to evolve and respect the decisions we make. The same applies to the firms, whose sole responsibility is not restricted to earning profit but also to give its share of that profit towards serving the environment. This attempt has resulted in sanctioning by the Government, the Section 135 of the Companies Act, 2013 clearly stating to set aside up to 2% of its capital investment for Corporate Environmental Responsibility (CER). While brownfield projects would be required to earmark 0.125% to 1% of additional capital investment for CER purposes, the slab for green-field projects ranges from 0.25% to 2% of the capital investment ([17]). This study thus attempts to unravel the theories, variables adopted and adapted by the researcher in their study toward environmental performance in the nature of firms' financial performance. The previous studies have resulted in multiple relationships that the environmental performance has with the firms' financial performance. They had emerged with positive, negative, mixed, or no relationship between them. The study also gives the review on the varied relationship that exists between the corporate environmental responsibility and corporate financial performance of the firm. This study provides an insight on the past studies which will help to build further research with more prominent results.

Keywords: Environmental performance, firms, relationship, financial performance.

# **1. INTRODUCTION:**

The company can have all the requirements to make a profitable business throughout the year with its business strategy, profit maximization, optimum utilization of resources and such. The word CSR and CER has become potential strategy used to attract the best talent in this era. CER is, in many ways related to CSR, as both of them influence environmental protection. CER, however, is strictly about consideration of environmental implications and protection within corporate strategy. The main elements that cover the environmental implications of a company's operations are: a) Eliminate waste and emissions, b) Maximize the efficient use of resources and productivity, c) Minimize activities that might impair the enjoyment of resources by future generations. Over the past years many authors have

diagnosed the relationship that exists between the environment and the financial performance of the firm. The previous studies have revealed two approaches on the literature: a) Costconcerned approach and; b) Value- creation approach. They had emerged with positive, negative, mixed, or no relationship between them. The study also gives the review on the varied relationship that exists between the corporate environmental responsibility and corporate financial performance of the firm. This study provides an insight on the past studies which will help to build further research with more prominent results.

1.1 Corporate Environmental Responsibility, Sustainability and Corporate Environmental Performance:

Corporate Environment Responsibility (CER) refers to company's duties to abstain from damaging natural environment. The term derives from Corporate Social Responsibility (CSR). The World Commission on Environment published the Brundtland Report in 1987 to address sustainable development. Since then managers, scholars and business owners have tried to determine why and how big corporations should incorporate environmental aspects into their own policies. ISO 14063 is the international standard for environmental management and communication.

Brundtland (1987) defined sustainability as "meeting the needs of the present generations without compromising the ability of future generations to meet their own needs." The tripe bottom line term was developed by Elkington (1998) to emphasis on the three aspects – profits(economic), people(social) and planet(environmental). According to Global Reporting Initiative (GRI) (2011) "environmental dimension of sustainability concerns an organisation's impacts on living and non-living natural systems, including ecosystems, land, air and water". GRI covers performance indicators related to inputs (materials, energy, water) and outputs (emissions, effluents, waste), biodiversity, environmental certifications and expenditure.

The ISO 14063 defines Corporate Environmental Performance (CEP) as "the results of an organisation's management of its environmental aspects". The concept of CEP was first utilized by Judge and Douglas (1998) who defined it as an effectiveness of a firms' commitment to reach environmental excellence. Xie and Hayase (2007) developed a two-dimensional construct consisting of Environmental Management Performance (EMP) and Environmental Operational Performance (EOP).

# 2. OBJECTIVE OF THE STUDY:

This paper attempts to fulfill the following objectives:

• To provide an empirical study analysis of the previous literature on the concept of CER, sustainability and CEP.

• To understand the relationship between environmental performance and financial performance based on the related theory.

• To establish the understanding of findings, conclusions and limitations of studies related to the research through the review of the previous literature.

• To establish a gamut for future research in this area.

# **3. RELATED APPROACH TO THE LITERATURE REVIEW:**

With the recent events that have gripped the entire nation, the soul concern of each being is to protect and preserve its living beings. The companies play a major role in its entirety. The economy has affected with a big down, wherein the culprit is humanity itself. The role play for each being is being introduced with their task from time to time, but in no vain. This can be termed as human nature or animal instinct whichever applies. The way company performs

towards the environment depends upon its positive impact on environment and society. Hansen and Mowen (2007) argue that successful treatment of environmental concerns is becoming a significant competitive issue and meeting sound business objective and resolving environmental concerns are not mutually exclusive. Clarkson et al. (2011) provide empirical evidence to support this argument.

Egri and Ralston (2008) covered that Corporate Responsibility is well established international management literature and has a social and an environment aspect. Cunningham (2009) provide that significant changes in global climate and environmental conditions result in a growing public awareness of the second element of corporate responsibility, making corporate environmental responsibility an important topic for both the business world and academic literature. This research is gaining momentum from the popular approach on the literature review:

a) Cost-Concerned Approach: High environmental activities require high cost investment leading to decrease in firm earnings with decline in market value.

b) Value-Creation Approach: Green (Environmental) initiatives taken by firms provide them with an increased competitive advantage, which contributes to higher profitability for the firm. (Hassel et.al 2005)

#### **4. LITERATURE REVIEW:**

The research goal is to examine the frequency of CER research in international management journals from 2001 to 2019 and to assess its impact for future researchers in theory and practice. From the year 2001, there have been shortcomings on the number of articles based purely on CER; averaging three articles per year, the number however rose to a fair increase per year on an average. With the rejection of the Kyoto Protocol by the US the IPCC released The IPCC Third Assessment Report to assess scientific, technical and socio-economic information relevant for the understanding of climate change(). In the recent year of 2019 where Earth Day and National Cleanup Day was organized to coordinate cleanup event held in all 50 US states and US territories. This helped the research to outline the umbrella of CER and the changes it has undertaken in that specific time period, and whether or not these particular events influence the CER research.

Lockett et al. (2006) revealed that environmental concerns and ethics as one of the most popular Corporate Responsibility(CR) research issues combined with an increasing proportion theoretical papers relative to empirical studies and an overwhelming majority of quantitative studies. Egri and Ralston (2008) also noticed that an emphasis on ethics and governance more than social and environmental concerns with empirical studies outnumbering theoretical studies with a focus on wealthy, western countries. But the study lacked a balance between quantitative and qualitative studies as revealed by Lockett et al (2006). For conducting the study, a review of papers is conducted on the relationship between financial performance and environmental performance of the firms. Many researchers have used various financial performance measurements like (ROA) return on assets, (ROS)return of sales, (ROI)return on investments. In the past, researchers have found that Tobin's Q measurement gave a favourable relation to the financial performance of the firm. Many a research work has showed negative relation and at times no or mixed relation among the financial performance and environmental performance.

This study being focused on only the environmental aspect of the literature, the research and the results of the study is exclusively on CER addressing only the initial research objectives.

The environmental performance of the firm may have positive, negative, mixed or no relationship with the financial performance of the firm. It was noted that firms with high

environmental ratings had positive relationship with their financial performance (Murphy, 2002).

For better understanding the study has been designed on the basis of the relationship that exist between the financial performance and environment of the firm.

### 4.1 Positive Relationship:

In the past the researchers have argued the lack of the CER knowledge is one of the factors which derive a negative or no relation between the firms' attributes and the environment. The firms attributed to establish the firm's reputation with the stakeholders & customers-potential or existing.

Fuji et.al (2013) showed a significant positive relationship between financial performance and environmental performance based on  $CO_2$  emissions. Helm (2010) found a positive relationship between employees' pride and perceived corporate reputation, and employees' job satisfaction and perceived corporate reputation.

Many researchers have attributed that stakeholder management has a positive relationship with the financial success of the corporation (Hilman & Keim, 2001). Table 1 shows the positive relation that has been researched by the past studies.

Authors	Financial	Environmental	Control	Findings	<b>Further Research</b>
	Variable	Variable	Variable	_	
Clarkson	Enterprise	Toxic	Liquidity,	The	The application of
et.al	Value	Substances	R&D ratio,	application of	voluntary
(2011)		Emission	growth,	voluntary	disclosure theory
			ROA,	disclosure	to a cross-
			capital	theory to a	sectional
			expenditure	cross-sectional	comparison of
			ratio.	comparison of	environmental
				environmental	disclosures may be
				disclosure may	partly unsuitable,
				be partly	as firms disclosure
				unsuitable, as	strategies may be
				firms'	influenced more
				disclosure	by internal factors
				strategies may	than by attempts
				be influenced	to distinguish themselves from
				more by internal factors	themselves from other firms.
				than by	other mins.
				attempts to	
				distinguish	
				themselves	
				from other	
				firms.	
Gotschol	Financial	Environmental	_	Green supply	The data is limited
et.al	score	score		chain	to only Italian
(2014)				initiatives are	firms. The data set
				more effective	is not suitable for
				and more	a longitudinal
				economically	analysis and

King & Lenox	Tobin's Q	Toxic Chemicals	Size, capital expenditure	sustainable than internal actions. A firm's attributes and	therefore limits the interpretability of the effect order of the reciprocal causality between green actions and economic performance. The study should explore how
(2001)	<b>T</b> . 1 : 1 : 0	emission	ratio, growth, leverage, R&D ratio, regulatory stringency, permits.	different strategies for environmental improvement may moderate the apparent link.	underlying firm characteristics affect the relationship between relative environmental performance and financial performance.
Konar & Cohen (2001)	Tobin's Q	Toxic Chemical emission, environmental lawsuits	Replacement costs of tangible assets, market share, age of assets, capital expenditure, R&D expenditure, growth, advertising expenditure, import penetration	A positive correlation between environmental performances with the intangible assets value of the firms. The degree of these effects will differ from industry to industry with larger losses accruing to the traditionally polluting industries.	The environmental reputation is a proxy for good management.
Nakao et. al (2007)	Earnings per share Tobin's Q	Environmental management score	Growth, advertising ratio, R&D ratio, leverage, capital ratio	Information based environmental policy measures are effective to encourage the ongoing transition	This theory of two-way positive interaction appears to be only a relatively recent phenomena.

				towards a more sustainable market economy.	
Wahba (2008)	Tobin's Q	ISO 14000/1 environmental certificate	Capital investment ratio, leverage, number of employees, firm age, ownership structure, industry	A firm's capital intensity can be controlled, measured as the capital expenditure to total sales revenue ratio.	

# 4.2 Negative Relationship:

With every research conducted on the relation between firms' performance and environmental performance, studies have shown even negative relationship (Thornton, et.al, 2003). The lack of little or no knowledge is also responsible for the firms to ignore to contribute towards environmental performance. This has led to finding a negative impact on the firm's financial performance. Konar and Cohen (2001) showed a negative correlation between bad environmental performances with the intangible assets value of the firms. The degree of these effects will differ from industry to industry with larger losses accruing to the traditionally polluting industries. The previous studies have identified the following factors to be responsible for creating a negative impact on the financial platform by the environmental score:

- Socially irresponsible behavior of the firm towards environmental performance.
- Higher environmental costs / expenses would result in lower profitability.

• Short term investments provide immediate returns to the stakeholders. The environmental effort gives only long term benefits.

Authors	Financial	Environmental	Control Findings		<b>Further Research</b>
	Variable	Variable	Variable		
Gracia	ROA,	Climate	R&D ratio,	An inverse-	It is necessary to
Sanchez	Market to	governance	leverage,	linear effect	consider other
&	book	index (emission	size,	on firm	indicators of
Prado-		reduction)	industry	performance	corporate
Lorenzo				by the	performance
(2012)				greenhouse-	different to the
				gas emission	financial perspective
				effect.	and the impact that
					these factors have
					on value creation.
Lioui	ROA,	Environmental	R&D	A negative	The focus of the

• No or minimal legal proceeding towards penalizing firms. Table 2 shows the negative relation that has diagnosed by the various researchers

					· · ·
and	Tobin's	strength,	expenditure,	correlation	frame work should
Sharma	Q	environmental	size,	between the	be extended to other
(2012)		concern	leverage,	firms'	indirect effects
			ROA, year,	financial	related to ECSR.
			industry	performance	
			5	with	
				environmental	
				performance	
				as investors	
				perceive	
				environmental	
				initiatives as	
				potential costs	
				or penalties.	
Sarkis &	ROS	Pollution	Size,	A negative	There is a need to
Cordeiro		prevention	leverage	relation exists	conduct industry-
(2001)		ratio, end-of-		between	by-industry studies
		pipe ratio		financial	that would
				performance	accurately capture
				with the	the variances in
				pollution	cleanup costs and
				prevention	proactivism.
				and end-of-	
				pipe	
				efficiencies	
				which is	
				larger and	
				more	
				significant for	
				the pollution	
				prevention	
				efficiencies.	
				These would	
				be pertinent	
				for pollution	
				prevention	
				approaches	
				for long term	
				but not for a	
				short term	
				performance	
	l		l	1	

## 4.3 Mixed or No relationship:

In certain significant study the results have showed no or mixed relationship between the financial performance and environmental performance of the firms. Horvathova (2012) showed while the effect of environmental performance on financial performance is negative for environmental performance tagged by 1 year lag, it becomes positive for 2 years lag with

Porter hypothesis in the long run. Some other research showed mixed responses with the usage of dual analysis on the part of the research (Nakao et. al 2007). In certain research work there has been no relation between environmental performance and stock prices (Deegan, 2004). Table 3 shows the case of mixed or no relation that has been concluded by the previous researchers:

Authors	Relations hip	Financial Variable	Environme ntal Variable	Control Variable	Findings	Further Research
Cavaco & Crifo (2014)	Mixed	ROA Tobin's Q	Environment al score	Sales, total assets, debt ratio, R&D ratio, advertising ratio, industry, country, year, HR score, business behavior score	The different dimensions (HR dimensions & business behavior dimensions) of CSR should be taken into consideratio n for an in- depth investigatio n of the relationship between CSR and financial performanc e	The research should look into the various dimensions of CSR and deeply investigate the sub- criteria behind each broad domain.
Delmas, et.al (2013)	Mixed	Tobin's Q	Environment al processes environment al outcomes	Total assets, debt ratio, growth, capital expenditure ratio, year, industry	Processes that companies put in place to do 'good' and reduce future environmen tal impacts constitute one dimension, whereas actual current negative releases	Further research should examine and incorporate the social dimensions , integrating it into future analyses of CSR.

Earnhart & Lizal (2007)	No relation	ROA ROE ROS	Toxic substance emission	Ownership, size, turnover, asset structure, industry, total liabilities, equity, debt	that are 'bad' for the environmen t constitute a different dimension Better pollution control neither improves nor undermines financial success. In other words, it gave lower costs and greater profitability for the firms	Further research should expand the time period of analysis in order to assess whether the evolution of Czech transition economy alters the link from air pollution control to financial performanc
Elsayed & Paton (2005)	Mixed	Tobin's Q ROA ROS	Environment al score of Management Today (reputation)	Size, R&D ratio, advertising ratio, industry, leverage, capital ratio	Firms invest in environmen tal initiatives until the point where the marginal cost of such investments equals the marginal benefit.	e. Further studies should not ignore the existence of firm effects which are likely to lead to incorrect inferences.
Fuji et.al (2013)	Mixed	ROA ROS Capital productiv ity	Environment al efficiency	Size, R&D ratio, capital ratio, capital investment	Positive relationship between financial performanc e and	Further research should investigate the differences

					$\begin{array}{c} \text{environmen} \\ \text{tal} \\ \text{performanc} \\ \text{e based on} \\ \text{CO}_2 \\ \text{emissions,} \\ \text{and no} \\ \text{relation} \\ \text{between} \\ \text{ROS,} \\ \text{capital} \\ \text{productivity} \\ \text{with the} \\ \text{environmen} \\ \text{tal} \\ \text{performanc} \\ \text{e.} \\ \end{array}$	between the environmen tal efforts of firms in the service sector in addition to the manufactur ing sector.
Gallego- Alvarez et. al (2014)	No relation	ROA	CO2 emission	Economic crisis, Kyoto protocol, sector, total assets	The companies should continue to invest in sustainable projects in order to enhance relations with their stakeholder s, leading to higher economic profits.	Future research should consider the possibility of including a broader time period and the behavior of the firms before, during and after the period of economic crisis.
Horvatho va (2012)	Mixed	ROA ROE	Toxic substances emission	Size, leverage, sales, industry, environme ntal certificatio n	The effect of environmen tal performanc e on financial performanc e is negative for environmen tal	Future research should consider for more than one accounting period for study as the Porter hypotheses considers

					performanc e tagged by 1 year lag, it becomes <b>positive</b> for 2 years lag with Porter hypothesis in the long run	the results for a long run.
Lucato et. al (2017)	No relation	Gross margin, net revenues, ROS, profit	Eco- efficiency	Size	Larger the size of the company, the worst is its environmen tal performanc e as measured by their eco- efficiency level	The inclusion of an indicator that measures the environmen tal impact of the analysed industrial operations could present new insights that would give more density to studies performed.
Misani & Pogutz (2015)	Mixed	Tobin's Q	Carbon emission reduction, carbon performance score	Country, year, industry, size, corporate governance score, patents, R&D ratio, leverage	Firms do not generally internalize the costs of poor carbon performanc e, but those stand out in both environmen tal outcomes and processes achieve the financial	Further research should consider the effects of specific regulatory contexts in more depth, as the CO2 emissions costs are affected on historical and institutional conditions.

					benefits	
Muhamm ad et. al (2015)	Mixed	ROA Tobin's Q	Toxic substances emission	Size, leverage, current ratio, dividend yield, environme ntal awards, environme ntal manageme nt team, environme ntal supply chain manageme nt	A <b>positive</b> relationship between environmen tal performanc e during the pre- financial crisis period (2001- 2007) and no relationship between environmen tal performanc e and financial performanc e during the financial crisis (2008-	The manageme nt should seek resource productivit y model rather than the pollution control model as environmen tal impact for further research. This proxy is given a way for further detailed research.
Nishitani et. al (2017)	Mixed	Profit, sales, productiv ity improve	GHG emissions, pollution emissions	Size, market orientation, type of firm, industry, supply chain area	2010) Environme ntal performanc e enhances financial performanc e but environmen tal managemen t alone should not be solely responsible to improve the environmen tal performanc e	Further research should be considered on corporate environmen tal manageme nt in developing countries.

Semenov a & Hassel (2016)	Mixed	ROA Tobin's Q	Environment al management environment al policy environment al risk	Size, leverage, growth, age	Environme ntal managemen t had varied impacts on operating performanc e at high and low environmen tal risk of the industry while environmen tal policy had a stronger signal on market premium in industries with low	focus on the theoretical implication s of the results and extend the underlying arguments of the natural

#### 4.4 Relationship Between Environmental Performance And Financial Performance:

Prior researches have observed that many firms had provided theoretical base for their environmental contributions pertaining to social, economic and governance. These situations changed with the compulsion of the government through CSR and CER guidelines ([17]). Only selective and large scale industries, firms and institutions have successfully attempted to practically contribute towards CSR and CER initiatives. Clarkson et.al (2011) have argued that poor environmental performance (high polluting firms) make more voluntary disclosures on environmental performance. In other words, high environmental reporting does not generally mean high environmental performance. Magness (2006) researched that firms that maintain themselves in public eye through press release activity disclose more environmental information than other firms. They also take external finance following the year in which the environmental incident in supposed to appear posing non-financial information. Clarkson et.al (2011) revealed that firms with higher pollution tendency disclose high environmental information and also rely on definite disclosure that GRI views as inherently more objective and verifiable. This requires more vigilant and mandatory reporting requirements with improved implementation.

### 5. DISCUSSIONS AND RECOMMENDATIONS:

As discussed in the beginning of the research, the study is purely based on the approaches that the researchers have adopted or adapted in their research work in identifying the relationship between environmental performance and firms' financial performance. In this context, the study discovered that strict law enforcement in required to ensure mandatory, transparent, verifiable and credible reporting by the firms with reliable proof and

documentations. The various databases like KPMG, ProwessIQ, KLD, Nikkie and such should also ensure authentication of the information given by the firms in regard to environmental performance and score them accordingly. The stakeholders should rely on the firms' maximum environmental performance which in turn will garner them better returns for their investments.

The research has considered only limited research papers for review. Further research is required in the field of social, economic and governance on the financial performance of the firm. This research has undertaken and revealed only the relationship between environmental performance and firms' financial performance. Future research is required on the other financial performance indicators apart from Tobin's Q, ROA, ROE, etc. to test the reliance for better investigation. The research should also be conducted more in developing countries and even underdeveloped countries for more coverage.

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