

A Study On Consumer Perception Towards Green Marketing Communication With Special Reference To Pepsico India

By

Ms. Neha Bhagat

Research Scholar, Amity School of Communication, Amity University, Rajasthan Email id: neha.bhagat2187@gmail.com

Dr. Tanushree Mukherjee

Associate Professor, Amity School of Communication, AmityUniversity, Rajasthan Email id: tmukherjee@jpr.amity.edu

Abstract

In the unprecedented times of Global warming, the biggest threat to the world is to save the planet. Saving and conserving the natural and depleting resources is one of the important tasks of humanity. Communication about the danger of climate change has accelerated because of the earnest and selfless efforts of young minds like Greta Thunberg and Ridhima Pandey. The responsibility of generating awareness does not only lie on the shoulders of the activists but equally on the business and organisations as well. The brands are changing their marketing communication strategy to remain ahead of their competitors and in this attempt, they are also putting efforts to make the consumers aware about this escalating threat. In this prevailing scenario, it would be interesting to understand if the consumer perception towards the brand changes based on its green marketing initiatives and strategies. The paper makes a study on varied green marketing communication strategies executed by one of the leading FMCG brand of India- PepsiCO India. The paper discusses about how PepsiCo has increased its rate of targeting the consumers who are nowadays more concerned about the protection and conservation of environment and who are called as "Green Consumers". The research methodology used in the study is survey method. Questionnaires were distributed to all the respondents in the age group of 18-49 years and who are familiar with the marketing communication strategies of PepsiCo. As a part of the study, the researcher employs convenience sampling method and data of 97 respondents have been analysed. The findings of the research indicate that the Green Marketing Communication Strategies of PepsiCo. has played a significant role in influencing the consumer's perception about the brand and their purchase decision about it indicative of the fact that many more such popular brands like Pepsi should just not only engage in Green Marketing Practices but it should also adopt strong Marketing Communication Strategies to disseminate information about it amongst the customers.

Keywords: Green Marketing Communication, Green Consumer, Global Warming, Green Marketing

Introduction

The mankind is suffering from a permanent struggle for innovation in every field at the cost of deterioration of the environment. In the aspiration of development and leading a better life, they are venturing into developing technology and products that may serve their need but these ventures are destroying the environment and is causing Global warming. The human needs and desires are unlimited to the limited resources. The sense of responsibility lies on the shoulder of every human being. It becomes important to be aware about the

Social Science Journal

environment and surroundings and at the same time making and spreading awareness is equally important. Geen Marketing can be explained as an attempt by the marketer to build strategies targeting the environmental consumers. (Polonsky, 1995) . It also means those products in market that are less toxic in comparison to others and have a longer life and made with reusable material (Ottman, 1992). Companies have started producing environmental friendly products and the demand for the consumption from the consumer has also risen. (Webster, 1975) found out that consumers who are socially conscious try to do something about reducing pollution and acknowledge that their buying behavior will impact the environment. In a bid to create a differentiating mark in the market, the companies have been leaving no stone unturned to attract the attention of the target customers and to win their hearts and manufacturing eco-friendly products have been a significant part of it. However along with introducing major changes in the product or its packaging, its also necessary that the companies in order to earn the reputation of being an environmentally friendly company and to win the hearts of its stakeholders, it should also conceptualise innovative marcom strategies to spread the word effectively and to generate a widespread awareness amongst the masses. Thus, not only the products but companies all over the world are practicing green marketing practices to spread awareness about the grave issue and make consumers aware about the reasons behind environmental damage and its alarming consequences. Companies are either conducting awareness campaigns or changing their packaging or sometimes renovating the product to make it environment friendly. The Green marketing was highlighted in the late 1980s and early 1990s but in 1975, The American Marketing Association conducted their first ever workshop on "Ecological Marketing". Forthe Global economy, new trends involve adding the aspect of green marketing in their strategy targeting green consumer and creating a new market opportunity. It has been observed that companies in India are venturing into Green Marketing Practices and their activities revolve around the green initiatives. The term has also been described as an organization's efforts at designing, promoting, pricing and distributing products that will not harm the environment (Fuller, 1999).

According to e2exchange.com, the companies besides focussing on green marketing practices which centres around manufacturing environment friendly products, it should also be equally active in green positioning which means communicating the green branding initiatives of the companies and the outstanding attributes of its eco-friendly products.

The site discusses about the significant phases in the area of Green Marketing by emphasising on certain key words which revolve around creating an awareness about its significance ranging from Green Design to Green Pricing to Green Positioning to Green Packaging and Green Disposal. In the growing worldwide concern about the accelerating negative consequences of climate change, it becomes the prime responsibility of every organisation that besides coming forward with designing environment friendly products, it should take firm step towards building environmental sustainability by creating authentic stories and narratives about the brands doing commendable work in the area so as to create widespread awareness amongst the public finally leading to its strong reputation building.

In the midst of some brands taking concrete steps in this direction, a major area to focuss on is whether such marketing initiatives with a social impact influences the perception of the consumers towards the brand and whether customers develop a liking towards such brands which are very much in the forefront of green marketing leading to lead generation.

Social Science Journal

Literature Review

Green marketing refers to the management process that aims to meet the needs of customers and society in a profitable and sustainable manner by identifying and anticipating those needs. According to Peattie and Crane (2005), it involves avoiding products that can harm living organisms, contribute to environmental degradation during production or use, and consume excessive non-renewable energy. Factors such as increased accessibility to environmental information, companies promoting green products through advertising, growing environmental concerns, and the endorsement of green products by social and environmental organizations have all contributed to the encouragement of green consumerism, as supported by extensive research (Elkington, 1994; Ottman, 1992).

Earlier research has found that companies aim to enhance consumer awareness of the environmental characteristics of their products in order to promote purchase behavior, thereby creating awareness of green marketing specifically in relation to products (Prakash, 2002). The precise relationship between environmental awareness and environmentally conscious behavior remains uncertain. Previous studies conducted by Bonni and Oppenheim (2008), Maheswari and Malhorta (2011), and Tolliver-Nigro (2009) have indicated that environmental awareness has a limited impact on behavior. The level of awareness and understanding regarding the positive impacts of environmentally-friendly products on the environment can influence consumers' decisions to purchase and use such products (Murthy, 2010).

According to J.L. Wiener and A. Sukhdial (1990), individuals' perceived level of personal involvement in environmental protection plays a crucial role in their reluctance to engage in ecologically beneficial actions. The authors emphasize that although many people may express significant concern for the environment, they often believe that the responsibility for preserving and safeguarding it lies primarily with the government and/or large corporations. This viewpoint is likely to impact customers' willingness to invest in environmentally friendly products.

Objectives:

To explore PepsiCo's Green Marketing Communication Strategies.

- ☐ To examine the relation between PepsiCo's Green Marketing Communication and consumer's brand perception.
- ☐ To examine the difference in consumer brand perception and consumer purchase decisionbased on demographic characteristics in regard to PepsiCo's Green Marketing Communication.

Hypothesis

H1: There is a significant relation between PepsiCo's Green Marketing Communication and consumer brand awareness and perception

H2: There is a significant difference in consumer brand perception related to PepsiCo's GreenMarketing Communication based on demographic characteristics.

Research Methodology

The present study is descriptive in nature. The study employs quantitative research

Social Science Journal

methodology and conducts survey as a part of it. The researcher uses purposive convenience sampling method and administers structured questionnaire to the respondents in the age group of 18-49 years and who are familiar with the marketing communication strategies of PepsiCo.

Sample size selected for study was 100 out of which 97 responded and the data has been analysed accordingly on SPSS using Exploratory Factor Analysis, Cronbach's Alpha, Ttest and One way Anova.

Result And Findings

Table 1

Purpose	Statistical Measures Used
Construct Validity	Factor Analysis: Exploratory Factor Analysis
Reliability	Cronbach's Alpha

Five Point Likert scale was used in the questionnaire which is considered to be the most favourable range for carrying out Exploratory Factor Analysis. This study is basically exploratory in nature and the researcher carried out EFA to arrive at a factors that affect the brand awareness of PepsiCo's Green Marketing Communication Campaign.

Since the items of the measurement instrument were adopted from previous studies and were modified according to the suitability of the research objectives, Exploratory Factor Analysis (EFA) was first performed to examine the items categorization. Furthermore, to check the reliability of multiple question on likert scale, coefficient alpha reliability was also conducted on statements.

The data collected was analysed on SPSS version 21. For factor analysis, those items that had verylow loading of less than 0.5 were deleted. Statements that were crossloaded were also deleted. This test also provides for that the correlation matrix has significant correlations among at least some of the variables. In this case the Bartlett's test of Sphericity reached statistical significance, which supported the factorability of the correlation matrix.

Table 2: KMO and Bartlett's Test

	- WOLU - V 111/10 W.W. D.W. W.W. D. 1 C.W.						
Kaiser-Me	yer-Olkin	Measure	ofSampl	ing Adequacy.	.875		
			Approx.	Chi-Square	2447.260		
Bartlett's	Test	ofSphericity		df	561		
				Sig.	.000		

Df- Degree of freedom, Sig- Significance

KMO is done to test and determine the robustness of the partial correlation (i.e., how the variables explain each other). A KMO level near 1.0 is considered desirable, whereas values less than 0.5 are considered unsatisfactory (Kaiser, 1974). Most experts now consider that such a KMO of at least 0.80 is sufficient for factor analysis to begin. In our results, for the dependent factor, we have a KMO value of 0.899(refer table 2.1) This indicates that the degree of information among the variables overlap greatly or showing thepresence of a strong partial correlation.

The initial instrument consisted of a total of 34 items (14 items on Awareness and perception towards Green Marketing Communication, 9 items on Consumer Awareness towards PepsiCo Green Marketing and 11 items on Consumer Brand Perception towards



PepsiCo Green Marketing). The KMO measure was .875 but from the 34 items 6 items' loading were not suited for the study therefore the items AP1, AP7,AP13, AP14,CA5,SC11 were removed and the result of the KMO test improved to .899 and is mentioned below in the table 2.1 and 2.2.

Table 2.1: KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure		ofSampling Adequacy.		.899	
			Approx.	Chi-Square	2057.264
Doutlott's	Toot	of Cub ani aity		df	378
Bartlett's	Test	ofSphericity	Sig.		.000

Df- Degree of freedom, Sig- Significance

Table 2.2: *Total Variance Explained*

Comment	Initial Eigenvalues			Extra	Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	
1	12.264	43.798	43.798	12.264	43.798	43.798	7.219	25.783	25.783	
2	2.829	10.105	53.903	2.829	10.105	53.903	5.084	18.156	43.939	
3	2.009	7.174	61.078	2.009	7.174	61.078	4.799	17.139	61.078	
4	1.537	5.491	66.568							
5	1.131	4.039	70.607							
6	.874	3.120	73.728							
7	.721	2.575	76.303							
8	.689	2.461	78.764							
9	.635	2.269	81.033							
10	.597	2.133	83.166							
11	.532	1.899	85.065							
12	.501	1.788	86.853							
13	.446	1.592	88.444							
14	.382	1.363	89.808							
15	.344	1.230	91.038							
16	.324	1.157	92.195							
17	.322	1.151	93.346							
18	.269	.962	94.308							
19	.260	.929	95.236							
20	.236	.842	96.079							
21	.209	.746	96.825							
22	.189	.677	97.501							
23	.161	.576	98.078							
24	.150	.537	98.614							
25	.139	.498	99.112							
26	.103	.367	99.479							
27	.079	.282	99.761							
28	.067	.239	100.000							

Extraction Method: Principal Component Analysis.

The above table 2.2 explains the total variance in the remaining factors. The below points explainthe same.

Table 3: *Mean, Standard Deviation and Reliability*

Construct	Mean	Variance	Standard Deviation	Reliability
Awareness and Purchase (No.of Items 10) Consumer	36.2784	48.411	6.95782	.885
Awarene sstowards Brand(No. of Items 8)	24.6701	46.078	6.78804	.906

Results from the reliability analysis presented in Table 3 indicated that the overall mean score, standard deviation and variance with the Cronbach's alpha values as .885, .906 and 944.

The Descriptive statistics for measurement scale for relationship depicted in the table 3.1 below. Six items (S1,S7,S13,S14,S19 and S34) were dropped from the relationship benefits scale during scale purification due to factor loading less than .5 and cross loadings.

Table 3.1: Descriptive Statistics for Relationship Benefits

S.No	Coding	Items	Factor Loadings	CronbachAlpha
		Awareness and Purchase		
1	AP5	I tend to be more loyal to productsfrom companies that sell eco-friendly FMCG products	.722	
2	AP10	My purchase habits are affected by my concern for environment	.696	.885
3	AP4	I am aware of the eco-friendly FMCG products and its advantages.	.672	.005
4	AP6	I am aware of Eco-friendly productsutilization increases the quality of	.651	
5	AP8	green environment. It is important to me that the products I use do not harm the environment	.644	
6	AP2	I actively seek out environmental information about the product I buy.	.641	
7	AP12	I am willing to pay little extra to buyproducts that do not harm environment	.640	
8	AP11	I think that every person should urge his/her friends to use products that do not pollute or harm the environment	.627	
9	AP9	I would describe myself asenvironmentally responsible Green consumer	.625	



10		I buy eco-friendly products as it ispackaged in		
10	4 D2	reuse, recycle, and	5 01	
	AP3	refillable containers to protect theenvironment	.581	
		With the new communicationstrategy		
11	CDDC	PepsiCo is making people	021	
	CBP6	aware about the environmentconcern.	.831	
		I am satisfied with the PepsiCo eco-friendly		
12	CD D1	products because of its	01.5	
	CBP1	green environmental commitment.	.815	
		I am satisfied with eco-friendly		
13	CBP3	products as it offers less packagingand recyclable.	.799	
	0210	I would buy PepsiCo products afterseeing the	•••	
14		Green Marketing		
	CBP8	Communication	.775	
		I appreciate the marketingcommunication		
15		strategies offered by		
10	CBP5	PepsiCo	.767	
		With PepsiCo green initiatives my		.944
16	CBP7	perception towards the brand haschanged	.757	.,
		I am satisfied with the quality of eco-friendly		
17	CBP2	products by PepsiCO	.756	
18	CBP9	I support the noble cause PepsiCois doing	.755	
10	CDI	The durability of eco-friendly products is	.755	
		satisfactory when it is compared with non-eco-		
19	CBP4	friendly	.692	
	CDI	products.	.0,2	
		Do you feel that green marketingcommunication		
20		initiatiatives of PepsiCo has helped in influencing		
	CBP10	your brand image of the company	.599	
		imer Awareness towards Brand's Green Marketi		
21	CA1	I am aware that PepsiCo is goinggreen	.791	
	0111	PepsiCo delivers		
22	~ . •	environmentally sound productsthat satisfy	-0.4	
	CA2	customer and society	.781	
		PepsiCo is successful in attracting customers due to)	
23	CA3	its green marketing initiatives	.734	
24	CA7	I know what is PepsiCo Positive	.669	
	011,	I prefer PepsiCo's green productsover other brands		
25	~	even if I have		
· -	CA4	to pay more	.666	.906
•	~ · · ·	I buy PepsiCo eco-friendly products as it is	- -	
26	CA9	packaged in reuse, recycle,	.659	

and refillable containers to protectthe environment.

27 CA6

PepsiCo is one of the leading companies who is working forsustainable development. .567

28 CA8

I am willing to give up the quality of the product I am buying if it is made of recycled materials. .511

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.^a

a. Rotation converged in 6 iterations.

Hypothesis Testing

H1: There is a significant relation between PepsiCo's Green Marketing Communication and consumer brand awareness and perception

Table 4

Correlations						
		AP	CA			
	Pearson Correlation	1	.300**			
	Sig. (2-tailed)		.003			
AP	N	97	97			
	Pearson Correlation	.300**	1			
	Sig. (2-tailed)	.003				
CA	N	97	97			
	**. Correlation is significant at th	ne 0.01 level (2-tail	led).			

For the above hypothesis testing, correlation was done by using SPSS. The result is shown in thetable 4. The result shows that there is a correlation is significant at 0.30 at 1% level of significance.

Therefore it can be said that there is a significant relation between Pepsico's Green Marketing Communication and Consumer's Brand Awareness and Perception. Thus H1 is supported.

H2: There is a significant difference in consumer brand perception related to PepsiCo's GreenMarketing Communication based on demographic characteristics.

Table 5

		(Group Statistics		
	Gender	${f N}$	Mean	Std. Deviation	Std. ErrorMean
CBP	Male	50	3.43	.797	.113
<u>CDr</u>	Female	47	3.97	.519	.076

Social Science Journal

The table above shows the Independent sample t-test. The significance value is less than 0.05,so we conclude that there is a significant difference in consumer's brand perception related to PepsiCo's Green Marketing Communication of both male and female. It can also be concluded that gender effect is significant in Consumer Brand Perception related to PepsiCo's Green Marketing Communication (Table 5). Since the mean of male is less than the mean of female, it can be inferred that female consumers have a significant brand perception of the green marketing communication of PepsiCo.

Table 5.1

		Independent Sample	les Test		
				Equal variances assumed	Equal variances not assumed
	Levene's Test for	F		7.261	_
	Equality of Variances	Sig.		.008	
		t		-3.911	-3.961
		df		95	84.764
Cons		Sig. (2-tailed	l)	.000	.000
umer		Mean Differen	nce	538	538
Brand	t took for Equality of	Std. Error Differ	ence	.138	.136
Awar	t-test for Equality of Means	95% Confidence	Lower	811	808
eness		Interval of the Difference	Upper	265	268

An independent-samples t-test was conducted to analyse whether there is a significant difference in consumer brand perception related to PepsiCo's Green Marketing Communication with respect to both Male and Female. There were significant differences (t (95) = (-3.911, p = 0.00)) in the scores with mean score for Male (M = 3.43, SD = 0.797) was lower than and Female (M = 3.97, SD = .519). The magnitude of the differences in the means (mean difference = -.538, 95% CI: -.811to -.265) was significant. Hence, H2 was supported.

Examining Differences among Demographics on the basis of age

One-way ANOVA is used to analyse as to whether there is a significant difference in consumer brand perception related to PepsiCo's Green Marketing Communication with respect to age. For the purpose of the study four age categories were are considered i.e, 18-25, 26-33, 34-41 and 42-49. However, the results of One-way ANOVA are presented in the table 6.

Consumer Brand Perception						
ANOVA						
Sum of Squares df Mean Square F Sig.						
Between Groups	2.248	3	.749	1.443	.235	
Within Groups	48.310	93	.519			
Total	50.558	96				

The alternate hypothesis for one-way ANOVA is

H2: There is a significant difference in consumer brand perception related to PepsiCo's Green Marketing Communication based on demographic characteristics.

The p value computed above is more than 0.05 so, the alternate hypothesis is rejected

Social Science Journal

and we can say that there is a no significant difference in Consumer Brand Perception across different age groups. So, a person belonging to a particular age group feels the same way than other people belonging to another age group. So H2 is rejected.

Conclusion

The Objectives set for the study have been achieved by using SPSS and have been appropriately presented in the paper. Furthermore, the hypothesis framed for the study have been statistically tested using EFA,T-Test, Anova and Correlation. Initially KMO is done to test and determine the robustness of the partial correlation and to check the reliability of multiple question on likert scale, coefficient alpha reliability was also conducted on statements. The objective of the paper is to explore PepsiCo's various green marketing communication strategies and its relation with brand perception and to examine the difference in consumer brand perception and consumer purchase decision based on demographic characteristics in regard to PepsiCo's Green Marketing Communication. To test the hypothesis the questionnaire was circulated to 100 respondents out ofwhich 97 responses were analysed. The result of the KMO and Cronbach alpha are presented in the Table 2.1, 2.2,3,3.1.

To test the hypothesis Correlation and T-test was applied. It was found out that there is a significant relation Pepsico's Green Marketing Communication and Consumer's Brand Awareness and Perception. It was also concluded that the gender effect is significant in Consumer BrandPerception related to PepsiCo's Green Marketing Communication. PepsiCo has engaged itself in promotion of green marketing strategies in the recent years and it is concluded that these strategies are playing a significant role in influencing Consumer's perception and brand awareness.

References

- Elkington, J. (1994). Towards the Sustainable Corporation: Win-Win-Win Business Strategies for Sustainable Development. *California Management Review*, *36*(2), 90–100. https://doi.org/10.2307/41165746
- Bonni, S. M., Oppenheim, J. M., 2008, "Helping green products grow," The McKinsey Quarterly, October, Vol 2, pp. 1-8.
- Fuller, D. (1999). Sustainable Marketing: Managerial-Ecological Issues. SAGE Publications, Inc. https://doi.org/10.4135/9781452220611
- J.L.Wiener, & A.Sukhdial. (1990). Recycling of solid waste: directions for future research. *AMA Summer Educators' Conference Proceedings*, 389–392.
- Ken Peattie; Andrew Crane. (2005). Green marketing: legend, myth, farce or prophesy? *McGill Journal of Dispute Resolution/La Revue de Règlement Des Différends de McGill*, 8(4), 357–370. https://doi.org/info:doi/
- Maheshwari, A., Malhotra. G., 2011, "Green Marketing: A study on Indian youth, International Journal of Management and Strategy, Vol, 1.No.II,(3).
- Murthy, P., 2010, Strategic Green Marketing for Survival, Available at SSRN 1650560.
- Ottman, J. A. (1992). Industry's Response to Green Consumerism. *Journal of Business Strategy*, 13(4), 3–7. https://doi.org/10.1108/eb039498
- Polonsky, M. J. (1995). A stakeholder theory approach to designing environmental marketing strategy. *Journal of Business & Industrial Marketing*, 10(3), 29–46. https://doi.org/10.1108/08858629510096201
- Prakash, A. (2002). Green marketing, public policy and managerial strategies. Business



Strategy and the Environment, 11(5), 285–297. https://doi.org/10.1002/bse.338
Webster, Jr., F. E. (1975). Determining the Characteristics of the Socially Conscious Consumer. Journal of Consumer Research, 2(3), 188. https://doi.org/10.1086/208631

Tolliver-Nigro, H., 2009, "Green Market to Grow 267 Percent by 2015," Matter Network, June 29