In response to the challenges posed by the operations in the sector, oil and gas firms are embracing corporate social responsibility as a means to counter negative public sentiments (Akujobi 2009), as there exists a potential for CSR practices to lead to enhanced corporate performance, through its potential to build corporate image, gain employees loyalty, improve operational competency and ultimately increase profitability. Yet, most corporate social responsibility studies such as Akujobi (2009), Idemudia (2014) and Okike (2007) have dominantly focused on the impact of CSR on the society without showcasing the possible influence of CSR practices on the organisation's performance (Idemudia 2014).

INTRODUCTION

The oil and gas sector has been termed a controversial sector for several decades. This is because there has been persistent, widespread engagement in unprincipled business practices that entail adverse social, environmental, and ethical consequences (Du and Vieira 2012, Woolfson and Beck 2005). Previous studies by Ekpenyong and Udofia (2015) and Fadun (2014) have documented the negative social and environmental consequences of the operations of oil and gas firms, such negative effects as global warming, deterioration in air and water quality for host communities, and the resource curse that has afflicted many countries with abundant oil resources.

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It is believed that firms that are unable to show a commitment to ecological protection leave their stakeholders, especially their host community with a negative perception of the firm's operations. While Adegbite et al. (2012), Adeyanju (2012) and Mullerat and Brennan (2005) have proven a relationship between firms' commitment to ecological protection and society welfare, there is still a gap between ecological protection through transparent operations and provision of eco-efficient solutions and the firm's corporate image. The existence or otherwise of this relationship is very critical in the Nigerian environment which is characterised by lack of environmental laws and regulations, poor understanding of ecological issues, and lack of commitment to protecting and managing the environment (Akujobi 2009). Therefore, it becomes pertinent to ascertain empirically the extent to which a firm's investment in ecological protection can influence its corporate image.

1. Literature review

1.1. Ecological protection

Ecological protection as a construct of corporate social responsibility, involves a firm's investment in energy conservation, efficiency, waste minimisation, pollution prevention and recycling (Tudor et al. 2008, Du et al. 2011). Umukoro (2009) defines ecological protection as the firm's duty to cover the environmental implications of its operations, products and facilities, eliminate waste and minimise practices that might adversely affect the sustainability of a country's resources. The firm's commitment to ecological protection advocates for the use of clean technology to create less pollution in the firm's production process. It includes changing inputs, equipment, process parameters and working procedures to ensure less waste is produced, whilst ensuring the use of safe materials in production, environmental issues discourse with host communities and pollution prevention (Visser et al. 2010).

In developing countries, which are usually characterised by weak environmental frameworks, the lack of adequate environmental laws and regulations makes it possible for corporate organisations (especially those involved in extractive industries) to carry out operations that have negative effects on the environment, lives and properties of their host communities (Subai 2009, Motilewa and Worlu 2015). However, firms that show commitment to environmental protection by going beyond that which is stipulated by environmental regulations, gain such benefits as enhanced relationships with the local community, suppliers and consumers and highly motivated employees, thereby creating a positive corporate image across the firm's entire stakeholders (Rangan et al. 2012).

1.2. Corporate image

Corporate image depicts the perception the firm's stakeholders have about the organisation (Karadeniz 2009, Yeo and Youssef 2010, Zaba-Nieroda 2011). Similarly, Bateman and Snell (2014) associate corporate image with people's judgment of a company's acceptance, appropriateness and desirability, stemming from the company's goals and methods that are consistent with societal values. It is believed that corporate image creates trust and deters competitors from entering and penetrating the market, thereby serving as a source of competitive advantage.

Carroll and Shabana (2010) posit corporate image as a major motivation for firms to adopt CSR initiatives – it is generally believed that stakeholders prefer to be associated with firms that place emphasis on community development and ecological protection.

1.3. Ecological protection and corporate image

A firm's commitment to corporate social responsibility through ecological protection entails maintaining or restoring the quality of the environment by preventing the emission of pollutants or reducing the presence of polluting substances in the environment (OECD 2003). Due to the fact that social issues are becoming more popular on the global scale, protection of the ecological system is seen as a major aspect of CSR. This is particularly necessary in the oil and gas sector, which has proven to be a huge concern to the environment in several countries.

In Nigeria, multinational oil corporations such as Shell, Exxon Mobil and Chevron, amongst others, have for several years combatted with environmental protection challenges (Onakoya et al. 2013). On the world level, these same organisations have frequently gone through rigorous measures to ensure the environment in which they operate is protected from pollution. In 1995, Royal Dutch Shell decided to sink the obsolete oil platform 'Brent Spar' in the North Sea. The massive protests against this action from many European civilians, NGOs, other MNE's and governments, was detrimental to Shell's reputation. This example brings to the forefront the influence a commitment to ecological protection has on the firm's image (Isaksson 2012, Jegede et al. 2016).

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employees, thereby creating a positive corporate image across the firm’s entire stakeholders (Rangan et al. 2012, Ibidunni et al. 2018).

2. Methodology

The study adopted the mixed methods approach where quantitative and qualitative methods (survey and interview) were used in order to enhance greater validity of the research by ensuring that there are no gaps in the information or data collected and to provide more information from the firms’ various stakeholder groups, rather than limiting the study to information from one stakeholder group. Quantitative data through the use of questionnaire, were gotten from employees of the organisations, while qualitative data through the use of interviews, were gotten from other stakeholder groups (consisting of stockholders, suppliers, contractors and community members).

2.1. Sampling

The study population consists of the stakeholders of the top four oil and gas firms quoted in the Nigerian stock exchange. For the quantitative research, copies of structured questionnaire were distributed to 350 employees of the selected firms. The selection of 350 employees was based on the Yamane (1967) formula, given the total number of employees in all four firms were 1748.

For the qualitative research, 30 semi-structured interviews were conducted for the other stakeholder groups (stockholders, suppliers, contractors and community members). The selection of 30 respondents was based on the work of Saunders et al. (2009), where it is stipulated that a sample size of twenty (20) to thirty (30) respondents be adopted when using semi-structured interviews, to give the researcher time to carry out in-depth analysis of the responses.

2.2. Measures

The research benefitted from the works of extant scholars in the field of ecological projection (and more broadly corporate social responsibility) and corporate image of firms. More specifically the works of Tudor et al. (2008), Visser et al. (2010), Rangan et al. (2012) and Carroll and Shabana (2010) were essential in drafting the quantitative and qualitative research instruments.

2.3. Reliability and validity of the scale items

The content validity was used for this study. Content validity is a question as to whether or not the instrument contains all the necessary elements that enables the researcher measure correctly the attributes of interest. To certify content validity, the questionnaire items were generated from established prominent authors in the field such as Tudor et al. (2008), Visser et al. (2010), Rangan et al. (2012) and Carroll and Shabana (2010). More over, other experts on the research area were given access to the draft questionnaire in order to provide feedback on the effectiveness of each question in measuring the constructs. Their comments were noted and effected in the final draft of the research instrument. The reliability test used for this research is the internal consistency method. The coefficient alpha (α) or Cronbach alpha is the most popularly used measure of internal consistency (Pallant 2005). The Cronbach Alpha internal consistency of the items of the questionnaire was analysed using the reliability procedure in SPSS version 22. The Cronbach alpha value (α) for the research instrument was 0.892, which surpassed the benchmark of 0.7.

3. Results and discussion

Out of the 350 copies of questionnaire distributed, only 336 were retrieved and analysed for this study. Across the four firms, male respondents were 194 (57.7%), while female were 142 (42.3%). Respondents under 25 years were 20 (5.9%), 25-35 years were 144 (42.9%), 36-45 years were 136 (40.5%) and 46 years and above were 36 (10.7%). 75 (22.3%) respondents were senior managers, 68 (20.2%) were analysts, 108 (32.3%) respondents were supervisors and 85 (25.3) respondents were in the category of other workers.

3.1. Quantitative results

The standard multiple regression analysis was used to identify the influence of ecological protection on corporate image. The result reflects the influence of each item of ecological protection on corporate image.

Table 1 shows the combined influence of the independent variables (safe materials in production, environmental issues discourse, energy and water conservation, recycling and pollution prevention) on corporate image (the dependent variable) of the firms. Based on the result, ecological protection made significant joint influence on corporate image as R square value = 0.808 indicating that the total contribution or influence made by all the independent variables was 80.8%. This signifies that ecological protection had significant joint influence on corporate image of oil and gas firms. The result in the Table further establishes that the composite influence of ecological protection did not occur by chance as it gives the F-ratio value of 152.332 which signifies the strength of the four independent variables (under ecological protection) as potent predictors of corporate image of oil and gas firms and it reveals that having an explicit policy not to use materials from the illegal exploitation of natural resources
Table 1. Standard multiple regression of ecological protection and corporate image (source: Researchers’ Field Survey 2018)

<table>
<thead>
<tr>
<th>Coefficients</th>
<th>Standardised Coefficients</th>
<th>df</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Beta</td>
<td>Std. Error</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The firm has explicit policy not to use materials from the illegal exploitation of natural resources</td>
<td>.573</td>
<td>.050</td>
<td>2</td>
<td>128.747</td>
</tr>
<tr>
<td>The firm participates in local or regional committees discussing on environmental issues</td>
<td>.317</td>
<td>.052</td>
<td>1</td>
<td>36.533</td>
</tr>
<tr>
<td>Reduction of environmental impact in terms of energy conservation is very vital to the firm</td>
<td>.215</td>
<td>.075</td>
<td>1</td>
<td>8.133</td>
</tr>
<tr>
<td>The firm is committed to waste minimisation and recycling</td>
<td>.283</td>
<td>.058</td>
<td>1</td>
<td>24.008</td>
</tr>
<tr>
<td>The firm invests in pollution prevention</td>
<td>.219</td>
<td>.049</td>
<td>4</td>
<td>19.804</td>
</tr>
</tbody>
</table>

R = 0.899
R² = 0.808
Adj. R² = 0.803
F-value = 9, 326 = 152.332, Sig. = 0.000 (p < 0.01)

Predictors: (Constant), Ecological Protection: safe materials in production, environmental issues discourse, energy and water conservation, recycling and pollution prevention
Dependent variable: Corporate image

is a major predictor of corporate image which has the highest beta value of (beta = .573, p < .005, Sig. = .000) than other variables: participation in environmental issues discourse scaled (beta = .317, p < .005, Sig. = .000), commitment to waste minimisation and recycling scaled (beta = .283, p < .005, Sig. = .000), investment in pollution prevention scaled (beta = .219, p < .005, Sig. = .000), while Energy and water conservation scaled (beta = .215, p < .005, Sig. = .002). This means that safe materials in production and legal exploitation of natural resources makes the strongest unique contribution in influencing corporate image.

3.2. Qualitative analysis

Theme: Assessment of the firms’ efforts towards Ecological Protection

The qualitative findings on the firm’s efforts to improve the environment through a commitment to ecological protection revealed that despite the backlog of technology in Nigeria, oil and gas firms have policies in place to protect the environment. Although various external stakeholders believe that more can be done especially in the aspect of sustainable oil exploration and gas flaring, it is generally perceived that the firm’s engagement in ecological protection enhances the firm’s image and reputation.

They ensure that policy initiatives that are put in place help protect the environment.

Firm 3/Contractor

They’re doing a good job to create an eco-friendly environment.

Firm 2/Community member

To the best of my knowledge, the firm is doing a lot in improving the environment but I think more can be done especially in the aspect of sustainable oil exploration

Firm 1/Contractor

Encouraging, but not forceful enough to break communal restraints.

Firm 1/Community member

They are reducing gas flaring in their operations, but they need to put in more efforts to eradicate oil spillage.

Firm 3/Contractor

They have been involved so far in fumigation and evacuating the dungs in the community I reside.

Firm 4/Community members

4. Theoretical and managerial contribution

The multiple regression analysis revealed that commitment to ecological protection has a significant effect on the corporate image of oil and gas firms. The implication of this finding is that oil and gas firms that have explicit policy not to use materials from the illegal exploitation of natural resources, firms that participate in local or regional committees discuss on environmental issues and are committed to waste minimisation, recycling and pollution prevention are rewarded by increased investors’ confidence, strengthened relationship with the government and host community, increased employee participation and reduced pressures from third parties.

The qualitative findings on the relationship between ecological protection and corporate image revealed that despite the backlog of technology in Nigeria, oil and gas firms have
policies in place to protect the environment. Although various external stakeholders believe that more can be done especially in the aspect of sustainable oil exploration and gas flaring, it is generally perceived that the firm’s engagement in ecological protection enhances the firm’s image and reputation. This finding is in line with that of Camilleri (2012), Kurucz et al. (2008) and Isaksson (2012) where it was observed that the firm’s commitment to ecological protection through innovative ecological practices has a synergistic improvement on their reputation and standing amongst their stakeholders.

In the developing country’s perspective, the result of this study is in consonance with the findings of Muthuri and Gilbert (2011) and Subai (2009), where it was posited that all corporate social responsibility issues, firms operating in Africa give ecological protection 74.0% priority because of its ability to enhance their corporate image in the face of increased global anxiety as to the state of the environment, such as the concerns surrounding oil spillage, exposure to radiation and other ecological hazards. In the Nigerian context this finding is inline with the studies by Ejumudo et al. (2012) and Ndu and Agbonifoh (2014) where it was propositioned that stakeholders of oil and gas firms operating in the Niger Delta specifically, are highly gratified when firms carry out CSR practices with the aim of eradicating environmental pollution.

Conclusions and recommendation

This study has shown that the firms’ commitment to ecological protection through their policy to avoid the use of materials from the illegal exploitation of natural resources, commitment to waste minimisation and recycling and pollution leads to increased investors’ confidence, strengthened relationship with the government, host community and reduced pressure from third parties. However, the external stakeholders of oil and gas firms believe that more can be done especially in the aspect of sustainable oil exploration and gas flaring. Therefore, it is recommended that oil and gas firms intensify efforts in activities that ensure ecological protection of host communities and thus build stakeholders confidence in the firms’ corporate image.

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References


