Impact of Deficient Electricity Supply on the Operations of Small Scale Businesses in North East Nigeria

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Key Words  
Small Scale Businesses, Deficient Electricity, Private Provision, Economic Development, North East Nigeria

Abstract  
Electricity supply in Nigeria is often erratic. Consumers of electricity (residential, commercial and industrial consumers) suffer untold hardships as the State Owned Enterprise; the Power Holding Company of Nigeria (PHCN) has been unable to supply reliable power. This is despite massive injections of funds by the Federal Government into the operations of the company over recent years. The failure has significantly impacted negatively on the operations of the business sector especially the small scale subsector that operates with little capital and are thus in most cases unable to afford a back-up facility to ensure un-interrupted power supply for their operations. The study examined the impact of deficient electric power supply on the operations of small scale businesses operating in north east of Nigeria. From the population of small scale businesses, a sample was selected through the use of stratified random sampling to ensure the effective representation of the population of small scale businesses in north east Nigeria. Results from data analysis indicates the severity of electricity supply outages and the costs imposed by power supply outages on the operation of this class of businesses in the region. The paper therefore recommends the need for policy attention towards revitalizing the electricity sector of Nigeria for enhanced supply of electricity to the national economy. When this is achieved, the small business sub-sector will be in a position to effectively lead in the drive towards industrializing the Nigerian economy.

1.0. Introduction  
Nigeria is hugely endowed with energy resources that include oil, natural gas, coal, biomass, solar, wind and hydro resources among others (Iwayemi, 2008; Onuaha, 2010). However despite this huge endowment Nigeria is also an energy deficient country whose economy suffers tremendously from the shortage of energy supply (Iwayemi, 2008). The shortage imposes huge cost on the economy and compels widespread private provision by different classes of energy users (Lee and Anas, 1998; Adenikinju, 2005). Additionally Nigerians often spend many productive hours queuing for petroleum products in the fuelling stations to buy fuel at government regulated prices because fuel supply scarcity has been a recurrent feature of the Nigerian energy market. Fuel scarcity in the economy and failing electricity supply create dual energy crisis for Nigeria (Iwayemi, 2008). Investment in back up generating facility is widespread and imposes significant costs on the economy. Small Scale businesses suffer the most from Nigeria’s energy poverty as they spend a large proportion of their capital (about 20-25% of their investment) on back up generating facilities (Lee and Anas, 1991; Foster and Steinbuks, 2008). In fact Iwayemi, (2008) links most of the country’s economic woes including its...
inability to industrialize to the dismal performance of the energy sector. However power supply outages are not peculiar to developing countries alone considering the recent black outs in California and other parts of north eastern United States of America. Though it has been the cardinal policy of government electricity policy and consumers desire to have power supply reliability, keeping the light on is an extremely difficult challenge (DOE, 2003) especially in a developing economy.

Ukpong, (1973); Iyanda, (1982); Lee and Anas, (1991, 1992); Uchendu, (1993); Ajayi (1995), Adenikinju, (2005); Oseni and Pollit, (2013) have examined the cost of power outages and unreliable supply of electricity on firms and document firms survival strategies in Nigeria and Africa. This study builds on the previous studies by focusing on the small scale businesses in the North East Nigeria for many reasons. First the small scale businesses have a lot of contributions to make towards the development of the Nigerian economy in terms of providing employment and income opportunities for the people. Based on experience, these types of businesses provide the surest path to industrialization. Additionally the choice of small scale business is informed by the fact they are the dominant businesses found in the North East region of Nigeria. Finally like other parts of Nigeria, the North East region also suffers from epileptic supply of electricity. The study is therefore expected to bring to the fore the challenges small scale businesses face due to unreliable supply of electricity in the region as a way of attracting the needed policy attention that could go to alleviate their plight. It is also expected to highlight on the investment potentials for electricity generation, transmission and distribution infrastructure that the private sector could take opportunity of in closing the prevailing deficit. This is especially important considering the recent introduction of electricity market reform in Nigeria.

The objective of the study is;
To determine the impact of deficient electricity supply on the operational performance of small scale businesses in north east Nigeria.
Consequently the research intends to test the hypothesis that:
Deficient electricity supply does not significantly constrain the operational performance of small scale businesses in north east Nigeria.
The rest of the paper is organised as follows: section two presents the literature review and the methodology to be used in the conduct of the study. Data analysis and hypothesis testing are performed in section four while section five presents the concluding parts of the study.

2.0 Conceptual and Empirical Discussions

2.1 The State of Power Supply in Nigeria

The dismal performance of the Nigerian electricity supply industry is well noted (Adenikinju, 2005; Iwayemi, 2008; FGN, 2008; FGN, 2010 among others). Nigeria’s quests for industrialization have been hampered by erratic and inadequate electric power supply (Olugbenga, Jumah and Phillips, 2013). This is largely due to inadequate generation, transmission and distribution infrastructure. Though a lot of resources have been expended to expand the industry’s infrastructure (the amount spent from 1999 to 2004 was higher than that spent on the power sector between 1981 to 1998), Nigerians still experience inadequate and unreliable electric power supply characterised by high voltage variations, recurrent black outs and brown outs and pervasive reliance on self generated electricity (Iwayemi, 2008). Because of the pervasive dependence of the electricity consumers on generators, the Nigerian economy has being described as a generator economy (Ekpo, 2009) exemplified by high operational costs and poor competitiveness. Thus Nigeria’s persistent electricity crises have hampered the
industrialization process of the country due largely to production stoppages and high operational cost. These have undoubtedly significantly undermined the growth and development process of the economy (Udah, 2010). The huge transmission and distribution losses and low capacity utilization (about 40%) in the industry define the dismal performance of the electricity sector as indicated in the diagram below.

![Figure 1: Indicators of Electricity Crisis in Nigeria 1970 to 2004](image)

**Source:** PHCN and NEPA as cited in Iwayemi, (2008)

Consequently power outages have become the norm in Nigeria. In fact in 2004, major manufacturing firms experienced 316 outages. This increased by 26% in 2005, followed by an explosive 43% increase between 2006 and 2007 (Iwayemi, 2008). Due to the incessant power supply challenges, in 2005 the Government promulgated reform of the industry by opening the sector for private investment especially in the generation segment of the market (FGN, 2010). The reform has however failed to enhance the quantum and reliability of power supply in Nigeria. The result is the frequent power supply failure that has made electric power supply to be very unreliable and inadequate.

Electricity supply reliability has become an important public policy issue due to the enormous costs being born by electricity users due to unreliable and inadequate electric power supply. Ensuring electricity supply reliability has also occupied important space in private investment and operating decisions (DOE, 2003). Consumers of electricity require infrequent occurrence of outages or other power supply disturbances which usually interfere with their use of electrical appliances (for domestic consumers) or halt their production or operational activities. Even at macro level, unreliable power system poses serious challenges to the socio-economic and political structure of an economy. Some of these challenges manifest in the loss of welfare, pressure on governance, and loss of output among others (Oseni and Pollit, 2013). Poor electricity supply in Nigeria and indeed the rest of Africa has posed the greatest challenge to productivity, investment growth and competitiveness (Renneika and Svenson, 2002; ADB, 2009). For example an average firm in Nigeria in 2007 experienced an outage of 8.2 hours, 26.3 times in a typical month translating into about 216 hours on average every month (Oseni and Pollit, 2013). Business firms respond to unreliable supply of electricity in a variety of ways which include choice of business, choice of location, output reduction, factor substitution and self generation.
However, self generation has been the most widely adopted strategy (Lee and Anas, 1989; Adenikinju, 2005). Firms invest in back up capacity to generate their own electricity during power outage. Reinikka and Svensson (2002) found that unreliable and inadequate electric power supply (which compelled firms to invest in back up generations) greatly reduces firms’ investment in other productive activities. In Nigeria, it has been estimated that firms self generate their electricity at a cost that ranges between 16 to 30 times higher than the publicly provided electricity (UNDP/World Bank, 1993). Thus the unreliable supply of electricity imposes enormous costs on the firm. Such costs include raw materials damages, equipments spoilage and lose of productive man-hours and forgone sales, disruption of production, reduced profits and management attention among others. As a strategy of mitigating the costs of unreliable or inadequate power supply firms invest in back up facilities to generate owned electricity in house. As a result many firms are forced to maintain back-up generation capacity. However self generation of electricity generally costs more than the grid supplied electricity. This cost differential limits the potentials of self generation as a permanent substitute or solution to power supply unreliability. Figure 2 presents the economic costs of electric power outage (as a percentage of GDP) in some selected African countries, Nigeria has the highest with more than 3.5% of GDP (Eberhard, et al, 2009).

![Figure 2: Economic Costs of Power Outages in Selected Countries](source: Eberhard, et al (2009) reported in Foster and Pushak, (2011))

The distribution of cost imposed by the frequent power outages is disproportionately high for the small scale businesses. Small scale businesses spend about 25% of their investment costs on back up generating plant (Lee and Anas, 1991). Even the large industrial concerns also suffer hugely from electricity supply shortages bedevilling the country. The Manufacturer’s Association of Nigeria (MAN) Survey, (2005) reports that the cost for generating power supply by Nigerian firms for production activity amounts to about 36% of firms’ costs of production. Iwayemi, (2008) also estimated that 20% of investment in large industrial projects is usually allocated to alternative source of electricity supply. In fact it is reported that banks insist on provision for captive generating plants before any loan request is considered worthy of being granted (Ajayi, 2005).

The nation’s difficult business environment largely been caused by inadequate power supply is aptly described by the World Bank (2004:135) report that ‘manufacturing firms in Nigeria consider inadequate infrastructure particularly power supply as their most severe constrain...’ Table 1 depicts electricity supply to different industrial axes of the country in
percentage. The Bauchi, Borno, Benue and Adamawa axis received 52.5% of its power needs in 2003, 19.75% in 2004, 57.55% in 2005 and 60.60% in 2006 receiving on the average about 34.1% of the electricity needs of the region (MAN, 2007)

<table>
<thead>
<tr>
<th>S/N</th>
<th>ZONE</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Oyo, Osun, Ondo, Ekiti Axis</td>
<td>53.00</td>
<td>39.60</td>
<td>26.65</td>
<td>33.30</td>
</tr>
<tr>
<td>2.</td>
<td>Edo/Delta Axis</td>
<td>39.30</td>
<td>18.30</td>
<td>64.60</td>
<td>45.70</td>
</tr>
<tr>
<td>3.</td>
<td>Anambra/Enugu Axis</td>
<td>43.10</td>
<td>24.13</td>
<td>25.65</td>
<td>23.70</td>
</tr>
<tr>
<td>4.</td>
<td>Kano State Axis</td>
<td>24.50</td>
<td>28.75</td>
<td>40.40</td>
<td>39.15</td>
</tr>
<tr>
<td>5.</td>
<td>Bauchi, Borno, Benue, Adamawa, Plateau Axis</td>
<td>52.50</td>
<td>19.75</td>
<td>57.55</td>
<td>60.60</td>
</tr>
<tr>
<td>6.</td>
<td>Ogun Axis</td>
<td>22.30</td>
<td>46.25</td>
<td>54.35</td>
<td>50.60</td>
</tr>
<tr>
<td>7.</td>
<td>Imo/Abia Axis</td>
<td>33.20</td>
<td>28.30</td>
<td>41.85</td>
<td>31.90</td>
</tr>
<tr>
<td>8.</td>
<td>Kaduna Axis</td>
<td>44.00</td>
<td>31.25</td>
<td>46.25</td>
<td>27.40</td>
</tr>
<tr>
<td>9.</td>
<td>Rivers Axis</td>
<td>45.50</td>
<td>8.00</td>
<td>40.65</td>
<td>44.50</td>
</tr>
<tr>
<td>10.</td>
<td>Lagos Axis</td>
<td>48.30</td>
<td>39.18</td>
<td>52.70</td>
<td>52.25</td>
</tr>
<tr>
<td><strong>Average Per Year</strong></td>
<td><strong>40.56</strong></td>
<td><strong>31.30</strong></td>
<td><strong>45.40</strong></td>
<td><strong>41.70</strong></td>
<td></td>
</tr>
</tbody>
</table>

Table 1: PHCN Electricity Supply to Industrial Axes of Nigeria

2.2. Small Scale Businesses

Small scale businesses are very crucial to the economic development of any nation. They make substantial contributions to the economy through many channels. For example small scale enterprises are known to make about 55% of GDP and 65% of employment in high income countries. In the low income countries small scale businesses contribute over 60% of GDP and about 70% of total employment (Fan, 2003; Ariyo, 2006). Their economic contribution in Nigeria falls below expectation due largely to the harsh economic environment (Osotimehin, Jegede, Akinlabi and Olajide, 2012). The shallow infrastructure base of the economy means that small scale businesses just like other business types face serious operational challenges and must have to provide for most of their infrastructure needs if they have to optimize their operations.

2.3. Empirical Review

Adenikinju (2005) undertook an analysis of the economic costs of power outages in Nigeria using the revealed preference approach. He estimated the marginal cost of power outages to businesses in Nigeria to be in the range of $0.94 to $3.13 per kWh of lost electricity. Reinikka and Svensson (2002) analyzed the impact of poor provision of infrastructure on firm performance in Uganda using a discrete choice model on business survey data. They concluded that unreliable power supply causes firms to substitute complementary capital (for backup generators) as a response to deficient public services. Estimating investment equations on the same data, they found that poor complementary public capital significantly reduced private investment. Lee and Anas (1991) in their study on manufacturers responses to infrastructure deficiencies in Nigeria reported four different response patterns adopted by manufacturing firms which include self sufficiency (where the firm provides all its infrastructure needs), standby private provision (the firm has its own facilities which it turns to when public supply is absent or quality and reliability fall below acceptable standards), public source as standby (the firm relies on its own facilities and turn to public supply when the quality and reliability improves) and captivity (where the firm relies entirely on the public service despite the quality and reliability of such supplies). Lee, Anas, Verma and Murray, (1996) in their study of reasons for self generation of electricity by manufacturing firms in Nigeria, Indonesia and Thailand found that because of economies of scale in internal electricity generation enjoyed by larger
firms, small scale businesses are at disadvantage and therefore suffer more from electricity supply unreliability than larger firms. Idah, (2009) undertook an empirical study on the effect of electricity supply on industrial development in Nigeria and found that the dismal performance of the electricity sector has contributed in retarding the industrial development of Nigeria. He therefore concluded that fixing the electricity sector is central to the realization of industrial development of Nigeria.

2.4. Methodology and Data Analysis

The research surveys existing small scale businesses/firms in Adamawa, Bauchi, Borno Gombe, Taraba and Yobe States that are into manufacturing, service provision and trading. The research surveys responding firms on their experiences with frequent power supply failure. The research also analyses the impact of the incessant power supply failure on the operations of the responding firms and document their response pattern. From the population of small scale businesses sample was drawn using the simple random sampling technique from the population of SMEs in the North east region. The research generates primary data through the use of structured questionnaire personally distributed to the respondents by the researchers and their assistants.

The questionnaire contains items on the general information of the company (such as the number of employees of the company, turn-over, sectoral classifications among others etc), respondents’ experience with power interruptions, respondents’ satisfaction with the status of power supply as used by Bliem, (2009). Other important items covered in the questionnaires include the estimate of the costs of power supply deficiency on the respondents operations and the response pattern adopted to deal with the dismal power supply as employed by Adenikinju, (2005), Lee and Anas,(1998); Rennika and Svenson (2002) among others. The instrument was subjected to reliability and validity tests (face and content validity). The data collected was subjected to descriptive analysis (such as percentages, mean, frequency standard deviation) and inferential analysis using regression analysis as suggested by Hairs, Anderson, Tatham and Black (1998). Simple bivariate regression analysis was used to analyse the impact of the IV (deficient electric power supply) on the DV (operations of small scale businesses, response pattern). From a population of 468 firms (Federal Ministry of Industry, 2013) a total of 312 questionnaires were distributed to small scale businesses in the region out of which about 245 were retrieved. About 4 questionnaires were returned unfilled. 241 questionnaires were entered into the data file. 7 questionnaires were found to be defective, data and descriptive analysis.

Table 2 presents descriptive data about the firms surveyed. About 32% of the firms were engaged in manufacturing activities which include bottled and sachet water, block making, bread and confectionaries among others. 35.5% of responding firms are engaged in service provision such as computer and media services, transportation services, barbing and hair dressing, restaurants among others. The remaining 33.3% are engaged in trade. In terms of employment only 9% of the firms surveyed employ more than 50 persons. More than half of the firms have less than 10 persons in their employment. In terms of capital invested about 82% of the responding firms invest less than 27, 000 dollars. Up to 18% of responding firms reported investing more 27,000 dollars. On annual turn-over, 73.5% of firms reported having a turn-over of less than 14 thousand dollars while only 7% have turn-over in excess of 136 thousand dollars. On the duration of business 56% are less than 5 years while 44% have been in business for more than 5 years. Firms were asked to rate their electricity needs into low, medium and high. About 20% indicated low, while 44% and 36% indicated medium and high respectively. This means
that frequent power outages being experienced in the country imposes significant costs on the significant number of small scale firms. On the respondents experience with power outage, about 17% experienced outage less frequently while 44% experience frequent power outage.

On the other hand, 36% indicated they experienced power outage most frequently. On the costs invested in the acquisition of back up generating facility for in-house generation of electricity as a proportion of the firm’s investment, 30% invest about 5% of their total investment on back up facility while 65% spent about 6-10% of their investment to self provide due to unreliable power supply. On the other hand 5% of the responding firms spent more than 10% of their total investment on the acquisition of generating facility. Cost of generator as a proportion of investment in equipment, 60% spend between 20-29% while 30% spend between 30-50% and 10% spend above 50% of total investment in equipment. Length of managerial experience is found to influence the mitigation decision of firms faced with unreliable supply of electricity (Oseni and Polit, 2013). Accordingly firms responded as thus; 46.5%, 6-10 years, 43.2% and above 10 years 10.3%

As a way of gauging the willingness to pay (WTP) for improved electricity, firms were asked to state their monthly electricity bills. About 59% pay less than 55 US dollars per month while 36% 56-105 dollars and 111 and above. On the other hand monthly expenditure on fuelling and generator maintenance gulps between 111 to 250 dollars for 32% of the respondents and 255-388 dollars for 50% of respondents while 394 dollars for the remaining 18% of the sampled respondents. Finally respondents were asked to state the number of days they stay without light from the public supply in a month. 31% reported 5-10 days without electricity in a month, 41% reported 11-15 days and 28% reported 16 days and above.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Manufacturing</th>
<th>Service</th>
<th>Trade</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line of Business</td>
<td>31.2</td>
<td>35.5</td>
<td>33.3</td>
<td>100.0</td>
</tr>
<tr>
<td>Number of Employees</td>
<td>55.6</td>
<td>35.5</td>
<td>9.0</td>
<td>100</td>
</tr>
<tr>
<td>Capital Invested</td>
<td>71.8</td>
<td>20.5</td>
<td>7.7</td>
<td>100</td>
</tr>
<tr>
<td>Turn over</td>
<td>73.0</td>
<td>20.9</td>
<td>5.6</td>
<td>100</td>
</tr>
<tr>
<td>Duration of Business</td>
<td>56.0</td>
<td>44.0</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Electricity Needs</td>
<td>19.7</td>
<td>44.4</td>
<td>35.9</td>
<td>100</td>
</tr>
<tr>
<td>Experience with Power Outage</td>
<td>17.1</td>
<td>46.6</td>
<td>36.3</td>
<td>100</td>
</tr>
<tr>
<td>Cost of Generator as %of total investment</td>
<td>29.9</td>
<td>65.0</td>
<td>5.1</td>
<td>100</td>
</tr>
<tr>
<td>Cost of Generator as Proportion of Investment in Equipment</td>
<td>59.8</td>
<td>29.9</td>
<td>10.3</td>
<td>100</td>
</tr>
<tr>
<td>Length of Managerial</td>
<td>46.5</td>
<td>43.2</td>
<td>10.3</td>
<td>100</td>
</tr>
</tbody>
</table>
Table 2: Descriptive Data.
Source: Field Data, (2015)

Table 4 presents the model summary and regression ANOVA statistics. The model depicts an $r$ value of .543. This indicates that the independent variable explains variation in the dependent variable by about 54%. A change in the IV will cause a change in the DV by about 54%. Thus a small scale business operation is constrained by deficient and unreliable electricity supply in the north east Nigeria. In other words improvement in electricity supply in the region will improve operational performance of small scale businesses in the region.

<table>
<thead>
<tr>
<th>Experience Variable</th>
<th>Less than 55 dollars</th>
<th>56-105.5 dollars</th>
<th>111 dollars and above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monthly Electricity Bill</td>
<td>59.0</td>
<td>35.9</td>
<td>5.1</td>
</tr>
<tr>
<td>Variable</td>
<td>111-250 dollars</td>
<td>255-388 dollars</td>
<td>394 dollars and above</td>
</tr>
<tr>
<td>Monthly Expenditure on fuelling and maintaining backup generator</td>
<td>32.1</td>
<td>50.0</td>
<td>17.9</td>
</tr>
<tr>
<td>Variable</td>
<td>5-10 days</td>
<td>11-15 days</td>
<td>16 days and above</td>
</tr>
<tr>
<td>Number of Days without power in a month</td>
<td>30.8</td>
<td>40.6</td>
<td>28.6</td>
</tr>
</tbody>
</table>

Table 4: Model Summary and ANOVA Statistics
Source: Field data, 2015

Table 5 presents the model regression coefficients. The table shows $p$ value at 0.000 implying that the influence of the model is significant. The influence of the model is therefore significant and not by chance.

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
</tr>
<tr>
<td>1</td>
<td>(Constant</td>
<td>2.110</td>
</tr>
<tr>
<td></td>
<td>UPS</td>
<td>0.412</td>
</tr>
</tbody>
</table>

a. Dependent Variable: FO

Table 5: Model Regression Coefficients
Source: Field data, 2015

Table 5 indicates the model’s reliability statistics. With a Cronbach’s alpha of .69 and Cronbach’s Alpha on standardized items at .70 the model reliability is highly reliable.

<table>
<thead>
<tr>
<th>Cronbach’s Alpha</th>
<th>Cronbach’s Alpha on Standardized Items</th>
<th>N of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.687</td>
<td>0.704</td>
<td>2</td>
</tr>
</tbody>
</table>

Table 6: Reliability Statistics
Source: Field data, 2015

On the basis of the result of the analyses shown in the tables we will test our hypothesis.
The hypothesis states that:
Deficient electricity supply does not significantly constrain the operational performance of small scale businesses in the north east Nigeria.
Table 5 shows a p value of 0.000.
Decision rule: Reject Ho if P < 0.05
Accept Ho if P > 0.05

With this decision rule the null hypothesis is rejected which states that Deficient electricity supply does not significantly constrain the operational performance of small scale businesses in the north east Nigeria and the alternate hypothesis which states that Deficient electricity supply significantly constrains the operational performance of small scale businesses in the north east Nigeria is accepted

3.0. Discussion and Conclusions

From the data analysis conducted it is clear that small scale businesses suffer from inadequate and unreliable supply of electricity in the north east sub-region which imposes costs in many ways. Most of the small scale businesses invest resources to complement the publically provided but insufficient electricity supply in the region. They are compelled to invest significant amount of their resources as back up facilities to self provide electricity when the publically provided power becomes unreliable or of lower quality. It was also discovered though small scale businesses made such investment they deny themselves investments in other capital. Additionally all firms invest adequately to provide for all their electricity needs due to the paucity of resources. These findings confirm such studies as Lee and Anas (1991); Lee et al,(1996); Rennieka and Svennson (2002) Adenikinju,(2005); Oseni and Pollit, (2013) which document the enormous difficulties being experienced by businesses in Nigeria and other parts of Africa due to inadequate and unreliable electric power supply. Thus an inadequate and unreliable supply of electricity imposes costs and therefore constrains on firms’ operational performance.

In conclusion, firms suffer tremendous costs due to serious supply deficit of electricity in Nigeria which greatly hampers businesses especially the small scale subsector. The Nigerian Government needs to consider the issue of power supply reliability very seriously by facilitating both private and public investment in electricity infrastructure. This will go a long way in enhancing the performance of the small scale businesses and thus the ensuring the industrial development of Nigeria.

References


