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EFFECTS OF STIMA LOAN DEPOSIT AND COST ON THE PROFITABILITY OF KENYA POWER

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ABSTRACT

The purpose of this paper was to establish the effects of stima loan deposit and cost on Kenya Power profitability. The increase in Kenya Power customer base has been a major challenge as majority of the customers especially the rural customers cannot afford to connect to the power grid due to high connectivity costs. Descriptive research design was used for this study and the target population was all 47 County managers in Kenya where respondents were selected using stratified sampling technique. The sample size used was 42 respondents and primary data was obtained by use of questionnaires whereas secondary data was obtained from the Kenya Power, Coast region. The study recommends that the Kenya Power should lower the amount required as deposit so as to increase the uptake stima loan by customers and that stima loan processing fee should be factored as major income to the Kenya Power as it increases profitability of the company, also the management of Kenya Power should charge connection fee relative to proximity to transformer.

Key words: Stima Loan, Loan Deposit, Cost, Repayment Period

Introduction

Credit financing expands a market by increasing the demand of a product. For companies with less market share, credit financing can be very beneficial. Generally the more cash flows from increased sales, the higher will be the Net Present Value of the credit financing decision. Therefore any decision that increases the firms cash inflows increases the value of the firm. However, the provision of credit financing entails negative effects such as credit risk or late payment, which may damage firm profitability. Credit risk is the possibility that the actual return on an investment or loan extended will deviate from that, which was expected. Higher default risk may lead to lower profitability due to a greater likelihood of uncollectible amounts owed by customers. Capital depletion through loan losses has been the proximate cause of most financial institution failures (Adeyemo, 2009).

The main sources of credit risk include, limited institutional capacity, inappropriate credit policies, volatile interest rates, poor management, inappropriate laws, low capital and liquidity levels, directed lending, massive licensing of banks, poor loan underwriting, reckless lending, poor credit assessment, no non-executive directors, poor loan underwriting, laxity in credit assessment, poor lending practices, government interference and inadequate supervision by the central bank (Sandstorm, 2009). To minimize these risks, it is necessary for the financial system to have; well capitalized banks, service to a wide range of customers, sharing of information about stabilization of interest borrowers. rates. reduction in non-performing loans, increased bank deposits and increased credit extended to borrowers. Loan defaults and nonperforming loans need to be continuously monitored and systems and procedures put in place to follow up on defaulters (Bank Supervision Annual Report, 2009).

According to Chadbourne & Parke, (2009), affordability of electricity is clearly a key issue in

Sub Sahara Africa (SSA). High connection fees, in particular, are a main barrier for the many low income households. Both grid and off grid electrification schemes are looking for new ways to make connections more affordable. This may include targeted subsidies or a variety of deferred payment options when a connection fee is paid over time, pre-financed directly by the utility/service provider or through cooperation with a financial institution.

The trade-off between increase in the market share through credit financing and the collectability of the loaned amounts affects firm's liquidity and its eventual profitability. A firm may report large profit and still suffer liquidity problem if bulk of its transactions are in account receivable and collection policy is not effective. In order for credit policies to be effective they should be continuously analyzed and changes made to take into account changing internal and external environment. These changes should be directed increasing profits within towards the corporation's tolerance for risk. That often means increasing the volume of sales in creditworthy customers. An institution should review significant and frequent policy exceptions to determine the potential impact on its credit risk profile as well as the effectiveness of guidelines (Sandstorm, 2009). According to Treacy & Carey (2008), credit risk rating in large U.S. Banks and development finance institutions are becoming increasingly important in credit risk management. They argued that credit rating summarizes the risk of loss due to failure by a given borrower to pay as promised. Credit rating agencies gather and analyze all sorts of pertinent financial and other information, and then use it to provide a rating of the intrinsic value or quality of a security as a convenient way for investors to judge credit quality and make investment decisions. The purpose of ratings is to measure credit risk in terms of probability of default, expected losses or likelihood of timely payments in accordance with contractual terms.

However, the credit management crisis is a worldwide problem. In Kenya, empirical and case

studies have been carried out on credit risk management in the agricultural, financial and publishing sector respectively. Njiru (2008) studied Credit Risk management by Coffee Cooperatives in Embu District while Kabiru (2009) studied on the relationship between credit risk assessment practice and the level of nonperforming loans of Kenyan Banks. In addition, Mutwiri (2007) studied the use of 6C's credit risk appraisal model and its relationship with the level of non-performing loans of commercial banks in Kenya and Osman (2008) studied the credit management policy of Nation Media group focusing largely on its distributors.

Statement of the Problem

In Kenya, for instance, many financial institutions have collapsed due to among other factors, poor lending policies. Institutions such as African Credit Finance, Trade Bank, Post Bank Credit and Euro Bank are a few examples. Additionally, Kenya Commercial Bank and National Bank of Kenya Ltd also underwent restructuring to save them from imminent collapse due to nonperforming loans. The increase in bad debts provisions continued to erode the banks profitability in Kenya and the growth in bad debt provisions has also led to corresponding decrease in after tax profit (attributable earnings), (Financial Standard, 2009). The bad debts problem transcends across industries in all the sectors of the economy from service, agriculture, financial, hospitality to educational institutions. In this regard, as established from the Annual Report and Accounts (2009) KPLC is not an exception.

Firms adopt several strategies in order to remain competitive. Corporate strategy defines the markets and the businesses in which an organisation chooses to operate. It is concerned with how the company serves its customers at a reasonable profit usually to maximize corporate value or shareholders wealth. The greater a company's customer base, the greater is the additional value all factors held constant. KPLC's 'Stima loan' scheme is such a strategy which aims to increase its customer base and hence electricity sales. Kenya Power has set its 5 year Corporate Strategic Plan, to achieve a customer base of 5 million by 2020 from the current total of about 2.7 million, (KPLC, 2015). However, increasing its customer base has been a major challenge as majority of the customers especially the rural customers cannot afford to connect to the power grid due to high connectivity costs. High cost of electricity installation has been cited as the major challenge hindering majority from connecting to the power grid. This partly explains why only a small proportion of population particularly in rural Kenya have access to electricity.

The main challenge experienced so far by the Kenya Power is the high current default rate being about 36.6%, (KPLC, 2012). One direct consequence of loan default is that it has caused considerable reduction in the loanable amounts in the revolving fund and such a default rate may affect sufficiency and sustainability of the fund. This may limit the organisations ability to access more funds from its financiers to scale up the Stima loan Project. This research therefore aimed to fill the gap of knowledge by establishing whether Kenya Power whose primary business is not the provision of credit financing can enhance its profitability through the Stima Loan Scheme.

Objectives of the study

- To establish the effects of loan deposit amount of Stima loan on the profitability of Kenya Power.
- To determine the effects of cost of Stima loan on the profitability of Kenya Power.

Materials and Methods

Theoretical Review

Financial Inclusion Theory

Financial inclusion refers to the process of ensuring access to appropriate financial products and services needed by all sections of the society in general and vulnerable groups such as weaker sections and low income groups in particular, at an affordable cost, in a fair and transparent manner, by mainstream institutional players (Chakrabarty, 2011). An inclusive financial sector that provides 'access' to credit for all 'bankable' people and firms, to insurance for all insurable people and firms, to savings and payment services for everyone (United Nations, 2008). Inclusive finance does not require that everyone who is eligible use each of the services, but they should be able to choose them if desired.

Kempson et al., (2009) report that financial exclusion is most prevalent amongst those on low incomes. Unemployed people living on social security payments from the state are therefore especially vulnerable, as are low income households from ethnic minority communities who may also have relatively low levels of engagement with the financial services industry. Kempson et al., (2008), supported by evidence from the Family Resources Survey 2005-2010, report that uptake of financial products and services is lowest amongst African-Caribbean, Black, Pakistani and Bangladeshi households in UK. However, for some members of these groups religious beliefs may provide a partial explanation for this apparent exclusion.

Transaction Cost Theory

Transaction cost theory can be applied to credit management, specifically regarding the economic rationale for integrating, or internalizing the credit management function within firms, or entering into market transactions whereby a third party specialist manages the credit operation (Coase, 2007). According to Williamson (2009), it is the superior ability of the firms to reduce human opportunism through hierarchical controls, rather than market mechanisms, that justify the very existence of organizations. He identifies two further conditions under which organizations are superior to sophisticated markets, (i) when transaction outcome are highly complex or uncertain, and (ii) when reputations of transacting parties are hard to establish. Given the routine nature of credit management activity and the availability of credit ratings through credit information companies, it might appear that large elements of credit management activity could be conducted more efficiently through the market than through internal mechanisms. Those elements of the credit function that remain inhouse are assumed to be more cost effective than entering into separate contracts with external agents to carry out such duties.

Smith and Schnucker (2008) focus on the transaction costs in the factoring decision, while Mao and Sarndal (2004) broaden the activities to include credit insurance, credit reporting, credit collection and captive finance subsidiaries. This is particularly the case where the credit sale involves a specific investment (whether in time or money) in meeting customer requirements (Williamson, 2009; and Smith, 2007). Given the large amount of capital employed in accounts receivable risky assets, the choice of credit management policies, and whether they are conducted internally or through the market, has important implications to the value of the firm.

Three sources of cost advantage were classified by Petersen and Rajan (2007) as follows: information acquisition, controlling the buyer and salvaging value from existing assets. The first source of cost advantage can be explained by the fact that sellers can get information about buyers faster and at lower cost because it is obtained in the normal course of business. That is, the frequency and the amount of the buyer's orders give suppliers an idea of the client's situation; the buyer's rejection of discounts for early payment may serve to alert the supplier of a weakening in the credit-worthiness of the buyer, and sellers usually visit customers more often than financial institutions do.

Research Methodology

Research Design

The research design appropriate for the study was descriptive research deign. Kiptoo (2008) asserted that a descriptive research design is appropriate where a detailed analysis of a single unit is desired as it provides a focused insight into a phenomenon.

The population of this study was composed of all the County managers in the country i.e 47 County managers. These employees were chosen upon because of their involvement in the day to day process of Kenya Power. A stratified sample of personnel was drawn for the purpose of administering questionnaires. Stratified sampling is a method by which subjects are grouped according to strata such as age, gender or other characteristic. The researcher used simple random sampling to obtain a sample size of 42 respondents.

Qualitative and quantitative research methods were complimentarily used in order to have a more objective interpretation of data. Data was collected by use of the questionnaire which was used to solicit ideas related to the research problem from the respondents. Questionnaires were administered personally in the regional offices. Specifically, the questionnaires aimed at obtaining background information on Stima loan scheme. The firm's financial reports and accounts as well as operations manual and procedure were also used as a source of secondary data.

Quantitative data obtained was expected to be reliable and covered the financial year 2010-2011 when the Stima loan project began, all through to financial year 2015. Qualitative data was analyzed using descriptive statistic such as frequencies, mean, variance and standard deviation. The SPSS (version 20) computer software was used in the analysis. A multiple regression analysis was applied to establish how deposit amount, cost of loan affect profitability of Kenya Power.

Eq (1) $Y = \theta o + \theta_1 X_1 + \theta_2 X_2 + \varepsilon$

Results and Discussion Regression Analysis Model summary

The model summary table shows the ability of the regression line to account for the total variation in the dependent variable.

Model	R	R Square	Adjusted R Square	Std. Error of Estimate		of	the
1	.782ª	.612	.579	.2337			

a. Predictors: (Constant), Deposit amount, Loan cost

From the determination coefficients, it can be noted that there was a strong relationship between dependent and independent variables given an R values of 0.782 and R-square values of 0.612. This shows that 61.2% of the total variation in profitability was attributed to the

changes in the explanatory variables (Deposit amount, Cost of Ioan).

Analysis of variance

Table 1: Model goodness of fit

Та	ble	2:	AN	OVA
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	Sum of Squares	df	Mean Square	F	Sig.
Regression	4.952	4	.338	.623	.002 ^b
Residual	9.085	37	.254		
Total	14.037	41			
	Regression Residual Total	Sum of SquaresRegression4.952Residual9.085Total14.037	Sum of SquaresdfRegression4.9524Residual9.08537Total14.03741	Sum of SquaresdfMean SquareRegression4.9524.338Residual9.08537.254Total14.03741.41	Sum of SquaresdfMean SquareFRegression4.9524.338.623Residual9.08537.254.Total14.03741

a. Dependent Variable: Profitability

b. Predictors: (Constant), Deposit amount, Loan cost

Analysis of Variance (ANOVA) was used to make simultaneous comparisons between two or more means; thus, testing whether a significant relation exists between variables (dependent and independent variables). This helps in bringing out the significance of the regression model. The ANOVA results presented in Table 2 shows that Table 3: Regression Coefficients the regression model has a margin of error of p < .005. This indicates that the model has a probability of less than 0.2% of giving false prediction; this point to the significance of the model.

Model Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	-	В	Std. Error	Beta		
1	(Constant)	4.032	1.550		.012	.006
	Deposit amount	0.350	.296	.028	.170	.004
	Loan cost	0.267	.376	.251	1.508	.002

a. Dependent Variable: Profitability

Regression analysis was used to measure the relationship between individual independent (Deposit amount, Cost of Ioan) and dependent variable (Profitability).

$Y=4.032+0.350X_1+0.267X_2+\mathcal{E}$

Conclusions

According to the equation, taking all factors constant at zero, profitability will be 4.032. The data findings also showed that a unit increase in deposit amount lead to a 0.028 increase in profitability and a unit increase in cost of loan lead to a 0.251 increase in profitability.

The study concluded that initial deposit influenced the uptake of connectivity by customers, also the deposit size depended on repayment of other stima loan from customers. On whether deposit amount was sufficient enough to approve stima loan, the study concluded that it wasn't enough. Also deposit amount required depended on customer's income level.

The study concluded that stima loan processing fee increased profitability of Kenya Power, also it concluded that connection fee highly depended on proximity to transformer. The cost of power purchase by customers affected the total cost of loan uptake by customers. Also the cost of power purchase by customers affected the total cost of loan uptake by customers. Low interest rates enables regular repayments by customers and that interest income from stima loan increases profitability of Kenya Power.

Recommendations

Firstly, the study recommended that the Kenya Power should lower the amount required as deposit so as to increase the uptake of stima loan by customers. The company should analyze the repayment trend over specified period of time so as to establish the deposit size viable for both the company and customers. Also deposit amount required should be relative to the customer's income level.

The study recommends that stima loan processing fee should be factored as major income to the Kenya Power as it increases profitability of the company, also the management of Kenya Power should charge connection fee relative to proximity to transformer. The company should set low interest rates to enable regular repayments by customers since interest income from stima loan increases profitability of Kenya Power.

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