

HEAD OFFICE BUILDING FOR SKYE BANK PLC

LAGOS, NIGERIA

A RESEARCH FOCUSED ON ENERGY EFFICIENCY IN COMMERCIAL BUILDINGS

BY

DARAMOLA, AYOTILEREWA ADEBOYE

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BEING A DESIGN THESIS SUBMITTED TO THE DEPARTMENT OF
ARCHITECTURE, COLLEGE OF SCIENCE AND TECHNOLOGY, SCHOOL OF
POSTGRADUATE STUDIES, COVENANT UNIVERSITY, OTA, OGUN STATE,
NIGERIA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD
OF DEGREE OF MASTER OF SCIENCE IN ARCHITECTURE (M.Sc ARCH.)

MAY, 2018

DECLARATION

I, Daramola, Ayotilerewa Adeboye, of the Department of Architecture, College of Science and Technology, School of Postgraduate Studies, Covenant University, Ota. Hereby declare that this thesis work has been a personal academic undertaking carried out by me under the supervision of Dr. A. P. Opoko of the Department of Architecture, Covenant University, Ota, and that all contributory references have been duly acknowledged.

.....

Student's signature

.....

Dr A. P. Opoko

Supervisor's signature

ACCEPTANCE

This is to attest that this dissertation is accepted in partial fulfilment of the requirements for the award of the degree of **Masters of Science (M.Sc) Degree in the Department of Architecture**, College of Science and technology, Covenant University.

.....

Secretary, School of Postgraduate studies

.....

Signature and Date

.....

Dean, School of Postgraduate studies

.....

Signature and Date

CERTIFICATION

This thesis titled Head Office Building for Skye Bank Plc Lagos, Nigeria: a research focused on energy efficiency in commercial buildings by Daramola, Ayotilerewa Adeboye meets the regulations governing the award of the degree of Master of Science in Architecture of Covenant University, Ota, and is approved for its contribution to knowledge and literary presentation.

.....

Supervisor

.....

Signature & Date

.....

Head of Department

.....

Signature & Date

DEDICATION

I dedicate this project to my Almighty Father in Heaven, GOD and also to my beloved father
on earth Lt. Col Hope Kayode Daramola (Rtd.).

ACKNOWLEDGEMENT

I am most grateful to the Lord Almighty, for the tender mercies and grace shown to me by qualifying me to be here at this particular time.

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TABLE OF CONTENTS

Declaration.....	i
Acceptance.....	ii
Certification.....	iii
Dedication.....	iv
Acknowledgement.....	v
Table of Contents.....	vi
List of Figures.....	ix
List of Plates.....	xi
List of Tables.....	xiv
Abstract.....	xv
CHAPTER 1.....	1
Introduction.....	1
1.1 Background and Brief Description of Bank Head Office.....	1
1.2 Statement of The Problem.....	2
1.3 Aim and Objectives.....	3
1.5 Rationale and Justification of The Study.....	3
1.6 Client and Users.....	5
1.7 Scope of The Study.....	6
1.8 Site Location.....	6
1.9 Research Methodology.....	6
CHAPTER 2.....	8
2.1 Definitions and Descriptions.....	8
2.1.1. Bank.....	8
2.1.2. Head Office.....	9
2.1 .3. Energy Efficiency.....	9
2.2 Commercial Buildings.....	9
2.3 History of Banking in Nigeria.....	10

2.3.1	Types of Banks.....	11
2.4.1	Types of Skye Bank Plc Buildings.....	14
2.4.2	Functions, Spaces and Relationships Between Spaces in Bank Head Office.....	14
2.4.3	Spaces and Relationships Between Spaces in The Bank Head Office.....	15
2.5	Specific Problems in Banks.....	16
2.6	Unique Solutions to Specific Problems in Banks.....	17
2.7	Conceptual Approaches to The Design of The Bank Head Office.....	17
CHAPTER 3.....		24
	Energy Efficiency in Commercial Buildings.....	24
3.1	Introduction.....	24
3.2	Energy Efficiency.....	26
3.2.1	The Principles of Energy Efficiency.....	27
3.3	Advantages of Implementing Energy Efficiency in Office Design.....	29
3.4	Ways Adopted to Achieve Efficiency in the Head Office.....	31
3.4.1	Strategies of Energy Efficiency in the Design.....	31
1.	Passive Design Strategies.....	31
3.4	Relationship Between Issue of Interest and Building Type.....	39
CHAPTER 4.....		40
4.2	Case Study 1.....	40
4.3	Case Study 2.....	63
4.4	Case Study 3.....	74
4.5	Case Study 4.....	84
4.6	Case Study 5.....	93
CHAPTER 5.....		100
5.1	Criteria for Choosing the Site.....	100
5.2.1	Brief History of Lagos State.....	101
5.2.2	The Proposed Site.....	105

5.3	Features of The Site/ Site Analysis	106
CHAPTER 6.....		109
6.2	Functional and Space Criteria.....	109
6.2.1	Reception.....	109
6.2.2	Banking Hall.....	109
6.2.3	Multilevel Parking.....	110
6.2.4	Office Spaces.....	112
6.2.5	Meeting Rooms.....	114
6.2.6	Landscape and Parking.....	114
6.2.7	Supporting Facilities.....	114
6.3.1	Energy Needs.....	114
6.3.2	Water Needs.....	115
6.3.3	Waste Management System.....	115
6.3.4	Fire Protection.....	115
6.3.5	Security.....	116
6.3.6	Vertical Circulation.....	116
6.3.7	Building Materials.....	117
6.4	Climatic Factors.....	117
6.5	Site Considerations.....	117
CHAPTER 7.....		118
7.1.1	Design Philosophy, Concepts and Justification.....	118
7.1.2	Concept.....	118
	References.....	124
	Appendix.....	129

LIST OF FIGURES

Figure 2.1	A typical example of a bullpen office plan.	19
Figure 2.2	The Executive core office plan.	20
Figure 2.3	The Office Landscape concept	21
Figure 3.1	Strategies for passive design	32
Figure 3.2	A diagram showing PV Cells in use.	35
Figure 3.3	Showing the working principle of a Ducted wind turbine.	36
Figure: 4.2	Basement Plan	44
Figure: 4.3	Site Layout of Access Bank Head office.	44
Figure: 4.18	Google map Extract of the Building	63
Figure 4.19	A sketch of the typical floor layout.	64
Figure: 4.20	Google Map Extract of the site	73
Figure: 4.21	Ground floor Plan.	76
Figure: 4.22	First Floor Plan	77
Figure: 4.23	Second Floor Plan	78
Figure: 4.24	Third Floor Plan.	79
Figure: 4.25	Extract from google map showing HSBC headquarters.	84
Figure: 4.26	Floor plans of the bank.	86
Figure: 4.27	Extract from google map showing the location of the building.	94
Figure 4.28	Ground floor plan of the edge	95
Figure 4.29	The Edge site plan	96
Figure: 4.30	sustainable strategies of the building	98
Figure 4.31	The form of the building	99
Figure: 5.1	A map extract of Victoria Island Lagos	103
Figure: 5.2	A google map extract of the site.	105

Figure:5.3	A Detailed Sketch of the site.	106
Figure: 5.4	Precipitation.....	107
Figure: 5.5	A Temperature Graph of the site.....	109
Figure 5.6	Acoustic site zoning	108
Figure 6.1	Examples of Multilevel car parks.....	111
Figure 6.2	Calculation for Office space.....	113
Figure 7.1	Initial bubble diagram of core	119
Figure 7.2	Site zoning.....	119
Figure 7.3	Development of the core design	120
Figure 7.4	The bubble diagram for the site and building layout.....	120
Figure 7.5	The brief.....	121
Figure 7.6	Conceptual sketch of the main entrance.....	121
Figure 7.7	The proposed vertical Zoning.....	122
Figure 7.8	The proposed Ground floor layout	123
Figure 7.9	The proposed 9 th floor layout.	123

LIST OF PLATES

Plate 3.1	An Image of a Ducted Wind Turbine.....	37
Plate: 3.2	Aldo Leopold Center. Showing its rainwater collection roof and gutter.	38
Plate: 4.1	Access Bank Headquarters.....	40
Plate: 4.2	Access bank Welcome Lounge.....	42
Plate: 4.3	Access Bank Recreational Centre.	42
Plate: 4.4	A view of the Conference room	51
Plate: 4.5	A typical reception found on every floor	52
Plate: 4.6	Interior of the office.....	52
Plate: 4.7	The Gallery.....	53
Plate: 4.8	Exterior views.....	54
Plate: 4.9	The reception showing the wall tiles and Aluminium strips.....	55
Plate: 4.10	The water treatment plant.....	56
Plate: 4.11	The Water storage tank in the basement.....	57
Plate: 4.12	The water storage tank for firefighting and water pump.....	57
Plate: 4.13	The Machines for waste treatment	58
Plate: 4.14	Waste treatment plant	58
Plate: 4.15	Stair Lobby	59
Plate: 4.16	Stair case.....	59
Plate: 4.17	Generator House.....	61
Plate: 4.19	Side view	62
Plate: 4.18	Skye bank Plaza.....	62
Plate: 4.20	The Reception.....	65
Plate: 4.21	The Lift Lobby	66
Plate: 4.22	Conveniences.....	66

Plate: 4.23	Interior of the Office.....	67
Plate: 4.24	An unpartitioned Office.....	67
Plate: 4.25	An Unpartitioned office space.....	68
Plate: 4.26	Water storage tank.....	69
Plate: 4.27	Lift control room on the 18 th floor.....	70
Plate: 4.28	The ground floor reception desk	70
Plate: 4.29	The stair case	71
Plate: 4.30	The Generating Plant.....	72
Plate: 4.31	Electrical services room.	72
Plate: 4.32	Skye Bank Plc head office.....	73
Plate: 4.33	Skye Bank Plc Head office from Akin Adesola Street.....	74
Plate: 4.34	Head Office Extension 2.	74
Plate: 4.35	Head office Extension 1	75
Plate: 4.36	Interior of the office space.	80
Plate: 4.37	The Main Entrance.	81
Plate: 4.38	The interior of the banking hall and the lift.....	82
Plate: 4.39	HSBC bank Headquarters Hong Kong	83
Plate: 4.40	Daylit atrium.	87
Plate: 4.41	Interior of the bank	88
Plate: 4.42	The left and right lions at the entrance of the building.....	82
Plate: 4.43	Escalators provide vertical circulation	90
Plate: 4.44	Night Lighting scheme.	92
Plate 4.45	The Edge, Amsterdam	93
Plate 4.46	Cosy office furniture	97
Plate 4.47	Conference rooms	97

Plate: 5.1	A map Showing Lagos	101
Plate 6.3	Examples of Lift sizes	116

LIST OF TABLES

Table 1: Head office functions of Skye Bank Plc and their locations.....	4
.....	5
Table 2: Departments in Skye Bank Plc.	15
.....	17

ABSTRACT

Energy generation and distribution are major challenges in the country, consequently many users rely on private generation plants which are not only expensive but have negative impact on the environment health and wellbeing of the people. There is need for search for alternative energy sources and more energy efficient buildings which constitute a major consumer of energy. This thesis Head Office Building for Skye Bank Plc Lagos, Nigeria therefore explored energy efficiency in the design of commercial building using the qualitative research method. The research objectives included conduction of case studies to identify spatial requirements and design criteria of a bank head office, identification of energy efficient principles, examination of the application of energy efficient principles in the design of corporate buildings, provision of energy efficient solution to solve energy challenges observed in the present head office facilities, and lastly proposal of a befitting energy efficient head office design for the bank. Secondary data was obtained through literature review while primary data was obtained from five case studies. Data analysis was by content analysis. Findings which included the functional spaces within the bank head office, approaches adopted by other architects in the design of office buildings, alternative m and lastly practical applications of energy efficiency principles in commercial building provided information which guided the design of the proposed head office building.

Keywords: Bank, head office, architecture, energy efficiency, passive design.