

**DATA COLLECTION ISSUES
(DATA SOURCES, STATISTICAL
UNITS AND APPROACHES TO
DATA COLLECTION) PROBLEMS
AND SOLUTIONS.**

By
Salami R Ayodele
National Bureau of Statistics

INTRODUCTION

- ▣ Traditionally energy is regarded as engine of economic progress.
- ▣ Key factor to industrial development.
- ▣ It provides vital services that improve quality of life.
- ▣ Nigeria is blessed with abundant energy resources.

▣ Renewable energy resources are:

- Hydropower
- Solar
- Biomass
- Fuel wood
- Hydrogen
- Wind

- ▣ Non renewable energy resources are:
 - Oil
 - Natural gas
 - Tar Sand
 - Coal
 - Nuclear
- ▣ **Oil Exploitation**
 - Six major Multi-national oil companies in joint venture with NNPC.
 - Some indigenous Nigeria enterprises also engaged in upstream oil activities.
 - Four Refineries are located
 - ▣ Port-Harcourt
 - ▣ Warri (2)
 - ▣ Kaduna

- ▣ NNPC manage the four refineries with total capacity of 445,000 barrel/day
- ▣ **Gas**
 - Nigeria has about 1,100km of various diameter of gas pipeline with transmission capacity of about 1.800 MMSCF/day.
 - Nigerian liquefied Natural Gas (NLNG) has facilities with capacity of 5.78 million tones per annum for liquefaction and exportation of natural gas.
- ▣ **Coal**
 - For many years:
 - ▣ It is source of power generation.
 - ▣ It is use for driving locomotive engine
 - ▣ It is located at Enugu, Kogi, Gombe and ten other states.

▣ Electricity:

- Power Holding companies of Nigeria (PHCN) is the major supply of National grid with installed generation capacity of 6,000MW
- Other Independent power plant (IPP) are:
 - NESCO in Jos.
 - Agip Power Station in warri
 - Rivers state Turbine Gas Plant in Rivers
 - AES in Lagos.

▣ Data Source

- Some of the institution and organization visited for Data collection are:
 - ▣ Power Holding Company Nigeria Plc (PHCN).
 - ▣ NESCO
 - ▣ National Electricity regulatory Commission
 - ▣ Agip Power Station
 - ▣ Rivers state Turbine Gas Plant
 - ▣ Federal water Board
 - ▣ All states water Boards
 - ▣ Ministry of Solid Minerals
 - ▣ Oil companies in Nigeria

- A templates was design with the following Indicators
 - Gross Output/Revenue
 - Intermediate Consumption
 - Operating Surplus
 - Compensation of Employee
 - Taxes on production
 - Taxes on products (VAT)
 - Subsidy on production
 - Subsidy on products
 - Consumption of fixed Capital e.t.c.

▣ Problem

- PHCN installed capacity is 6,000MW but supply less than 3,000mw
- Inadequate supply of energy restricts social-economic opportunities, basic human need, limits economic growth and affects the quality of life.
- Nigerian Mining Coal corporation stopped Production since 2001 as currently undergoing privatization
- Unfriendly community relations which often disrupts gas and oil supplies to power plants and refinery project
- Weak indigenous private sector showing down the effect of liberazation and privatization of the sector
- Non disclosure of information by oil companies.

▣ Solution

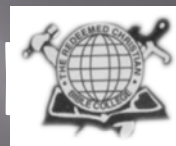
- Government alone cannot provide all the funding in the energy sector. Private sector and foreign investors must be involved.
- Institutionalization of the National Energy Policy and its master plans through Act(s) of the National Assembly. The Energy Policy Act(s) would allow for reasonable continuity in policy and sustenance of the liberalization and privatization policy of, as well as facilitate the attraction of foreign direct investments into, the energy sector.
- Increased Government investment in the downstream oil and gas and the power sub-sectors, in the short term only, in order to mitigate the short term shortfall in supply.
- Adoption and enforcement of simple energy demand management techniques like energy efficiency and conservation.

▣ Solution Cont.

- Development and transparent administration of financial and fiscal incentives to the private sector.
- Strengthening of bilateral and regional cooperation to facilitate energy development.
- Diversification of electricity generation sources to include coal, renewable energy and nuclear power.

The End

**NATIONAL BUREAU OF
STATISTICS**



December, 2008