

GHANA'S NUCLEAR POWER PROGRAM

we have therefore been compelled to enter the field of Atomic energy, because this already promises to yield the economic source of power since the beginning of man. Our success in this field would enable us to solve the many sided problems which face us in all the spheres of our development in Ghana and in Africa. - November 25th 1964, Dr. Kwame Nkrumah



GHANA ATOMIC ENERGY COMMISSION

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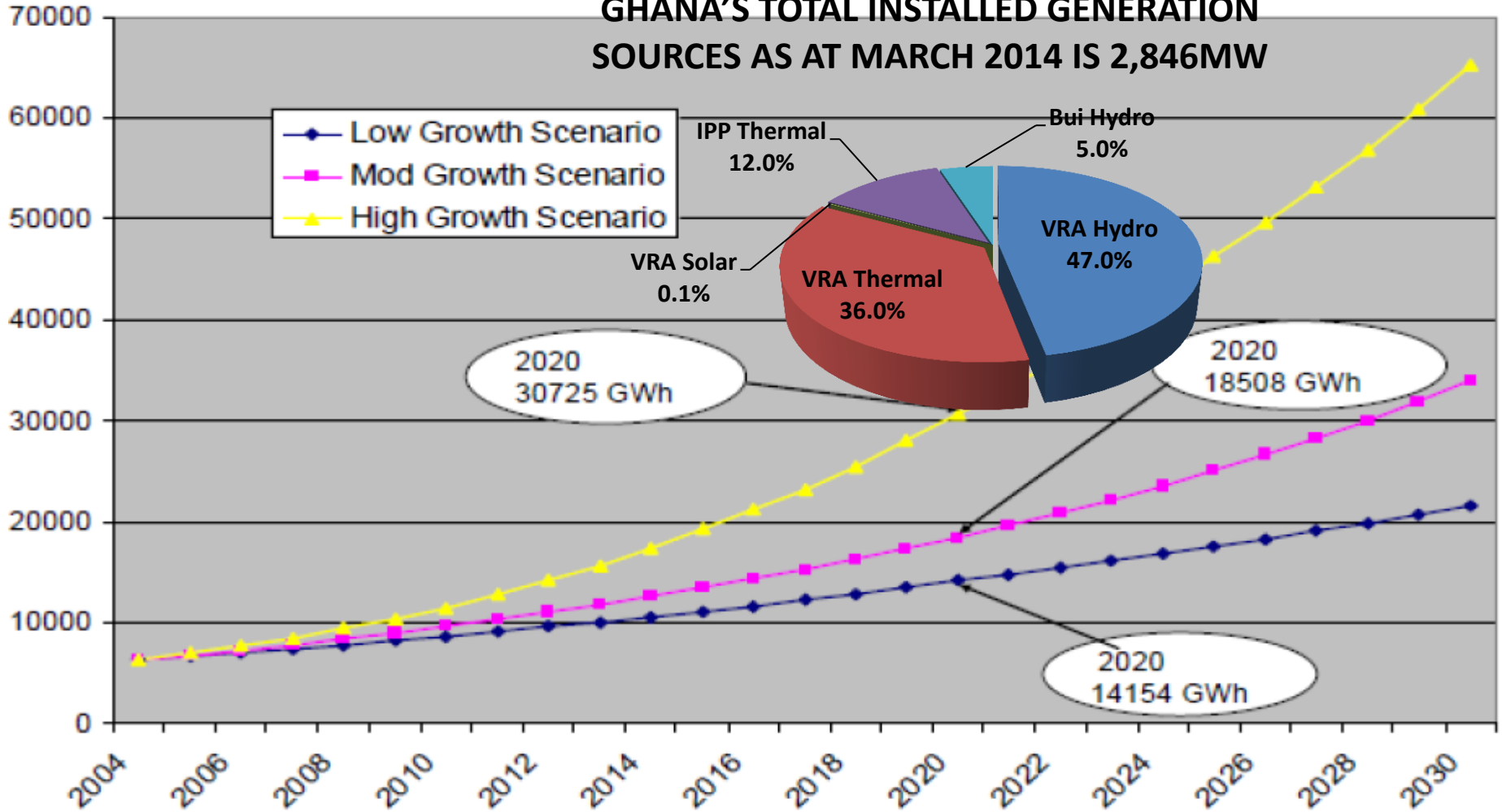
www.gaecgh.org

B. J. B Nyarko

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GHANA ELECTRICAL ENERGY DEMAND PROJECTION

GHANA'S TOTAL INSTALLED GENERATION SOURCES AS AT MARCH 2014 IS 2,846MW



In 2012 energy supplied was 12,122GWh with installed capacity of 2546.5MW –

<http://vrghana.com/resources/facts.php>

Based on the current install capacity, It is estimated that, about 13,548GWh of electrical energy can be supplied this year. (ie, all power plants operational throughout the year)

GHANA'S NUCLEAR POWER PROGRAMME

- ▶ Ghana's quest for nuclear power for electricity generation dates as far back as the early 1960's
- ▶ In 2008, the Government of Ghana took a cabinet decision to add nuclear power to the energy mix of the country
- ▶ In 2010, Ghana added nuclear power to the national energy policy
- ▶ A nuclear power unit was then established at the Ministry of Energy and Petroleum in 2012
- ▶ Ghana's Nuclear Energy Programme Implementation Organisation(Ghana's NEPIO) was inaugurated the same year(2012)
- ▶ Ghana's NEPIO is chaired by the Deputy Minister for Power.

ACHIEVEMENTS AND ONGOING ACTIVITIES

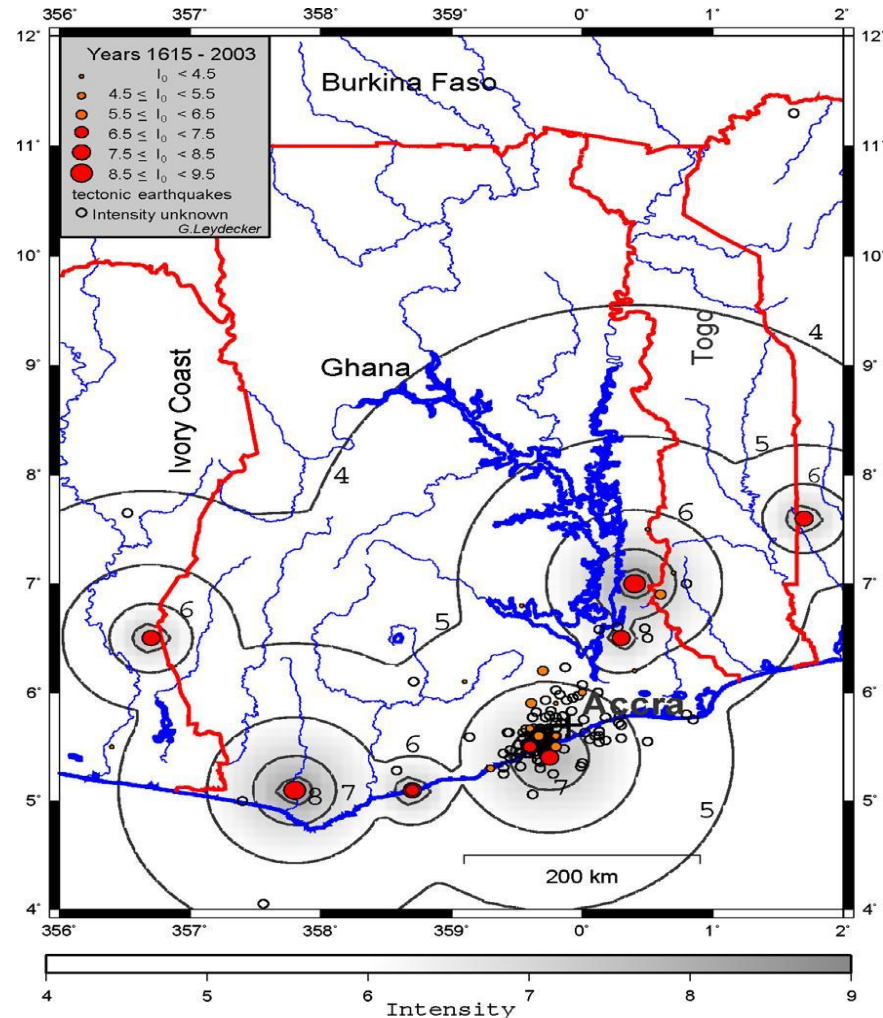
- Several activities, in line with the IAEA milestones are being undertaken. The following are some of the activities being undertaken;
 - Public education on the nuclear option through radio and television programmes and newspapers
 - Development of licensing procedures by the Radiation Protection Board is ongoing
 - Draft of nuclear power plant technology assessment guides is being developed
 - Creation of a Nuclear Power Centre at GAEC to coordinate and harmonise the activities of the eight (8) technical groups of GNPPPO.

ACHIEVEMENTS AND ONGOING ACTIVITIES

- Currently MOUs and agreements between Ghana and interested countries are being developed and reviewed
- Draft nuclear power plant technology assessment is being developed.
- Zoning of suitable areas for nuclear plant siting to commence.
- The formation of the Nuclear Regulatory Authority Bill has been approved by cabinet, awaiting submission to parliament to be passed into law
- Co-operations between Ghana and other developed countries in terms of Nuclear power generation are ongoing in which BOO, BOOT, or bilateral agreement is being considered

Nuclear Power Plant Siting Strategy

- Regional analysis conducted
 - Regional criteria are national issue based
 - Criteria used:
 - ✓ Seismology
 - ✓ Water Availability and Quality
 - Results lead to Southwestern Coastal Ghana, West of the Akwapim-Togo range, and also Coastal regions stretching between Dangme to Sogakope



Thank
You