The role of power sector in achieving sustainable development

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LET'S TALK
POWER

GENERATION  TRANSMISSION  DISTRIBUTION  CONSUMERS
Other important components of our power industry include:
NERC
NBET
NAPTIN
Sustainable Development refers to economic development that is conducted without depletion of natural resources.

The United Nations intends to globally achieve these sustainable goals. How do we adapt them to our environment?
Despite the diverse human and natural resources we have, we are still described as a developing nation.
How do we advance from where we are to the point where we need to be, not temporarily but permanently?

- How do we tap into the current prosperous growth profile of the world?
- How do we maintain it?
• China’s economy grew by 6.9% in 2017 alone
• India is projected to be the world’s fastest growing economy this year
• Germany is a proven world leader
• USA is reporting record economic growth indices

WHAT DO THEY HAVE IN COMMON?
# Power production by country

<table>
<thead>
<tr>
<th>Country</th>
<th>Electricity production(GWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>6,142,490</td>
</tr>
<tr>
<td>United State of America</td>
<td>4,350,800</td>
</tr>
<tr>
<td>India</td>
<td>1,400,800</td>
</tr>
<tr>
<td>Germany</td>
<td>648,400</td>
</tr>
<tr>
<td>Nigeria</td>
<td>25,695</td>
</tr>
</tbody>
</table>
Many have attributed their accelerated development to:

- Sound policies
- National resolution
- Religious awakening
- Industrialization
While all these are true, we seem to keep forgetting the fact that all these would not have been possible without the availability of energy; ELECTRICAL ENERGY.
Enormous energy consumption has been always been associated with prosperous societies...

The quantity of electrical energy consumed by a country determines the level of economic activities which lead to growth and development. Domestically, commercially and industrially we require energy to get work done.
If as a country we are serious about achieving sustainable development then it’s high time we got serious with the energy that is currently driving the world’s industry.

Dubai health care city is powered by about 7000 megawatts of electricity, that is more that we currently have access to as a country.

We will be able to improve the state of our health – for instance, with the current health industry trends if only we can consistently power the equipment needed.
Other areas where availability of power will do us a world good include:

- Our homes
- Our industries
- Communication/entertainment
- Rural/urban population drift
- Security
- Science and technological researches
With the proliferation of money making ideas, many enterprises have gone under just because of excessive cost of operation that could have been reduced with availability of power.

Major firms that pulled out of Nigeria in the past years have stated high cost of generating their power as one of the reasons for their eventual decision.
As of today, the maximum power that can be wheeled through our grid is less than 10,000 megawatt.

As a comparison, China has a power plant with installed capacity of over 22,000 megawatt.
To achieve the level of development we crave,

We urgently need to fix the power sector; from generation down to the distribution where we can utilize it for our prosperity.
• More investment should be made towards acquiring appropriate power facilities.
• Efforts should also be geared towards training a generation of engineers, technologists, technicians and craftsmen that will cater to the technical and managerial needs of the industry in Nigeria.
Thank you