

## Discussions to Advanced Industrial Project in Africa III

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**Abstract:** The future trends from military to nuclear power industry are analyzed in detail. Put forward to the implementation of military, high technology and nuclear power and put their possibilities into practice. Specific response measures are pointed out in these three respects, indicating that they are urgently needed to run the factory products. In addition, the nuclear power plant shall be established in Africa in order to promote new and non-contamination energy. Due to its low labour and undeveloped industry many opportunities will await us to mine its countless challenges. Like South Africa they can live together with better status because of their development. So if endeavor is imported many new projects will be found by us together. Let us continue to pay attention to Africa for better benefit and common development.

**Keywords:** Africa, industry, development, discussion, advanced, OEM, nuclear power plant, nuclear energy, biomass energy generator.

### 1 INTRODUCTION

Africa is a laggard continent. Its agriculture, industry and service has been lied in need to be developed. There are someone who searched agriculture production like tomato and find its profit is potential. Others proposed the suggestion that agriculture mechanization is a good method for promoting efficiency. There is someone who suggested the investment to plan in automobile manufacture and sale. The mobile manufacture has been prevail which lies in world tendency and positively proceed. Since it is laggard in industry the related factory has advantage to develop by its advantageous atmosphere. It may leap some space to the most prevail styles. Due to its low price source and labour Africa may attract investment easily which is an advantage to African advanced industry.

In this study the main production which listed as above has been analyzed and discussed and find the these common three field development is a feature in

future. According to the fact situation the turn will be determined and discussed for African development. For the sake of saving environmental green and low carbon energy the new low contamination generator will be invested necessarily. This study mainly discuss that the nuclear power plant may be proceeded there [1-3].

Since Africa is wide and big continent there are many opportunity and challenge it shall be discussed thoroughly in all three industries. Now the situation is more and more development due to other countries attention and profit. Including China etc. The world manufacturer and agency shall proceed its advantage to there in terms of its best manufacture and market. If it can use the Africa fitly they can make much anticipated profit. Therefore emphasizing Africa may give us a big present and due to low price and not development which is a potential big market and jumps development in terms of the local they may provide many challenges.

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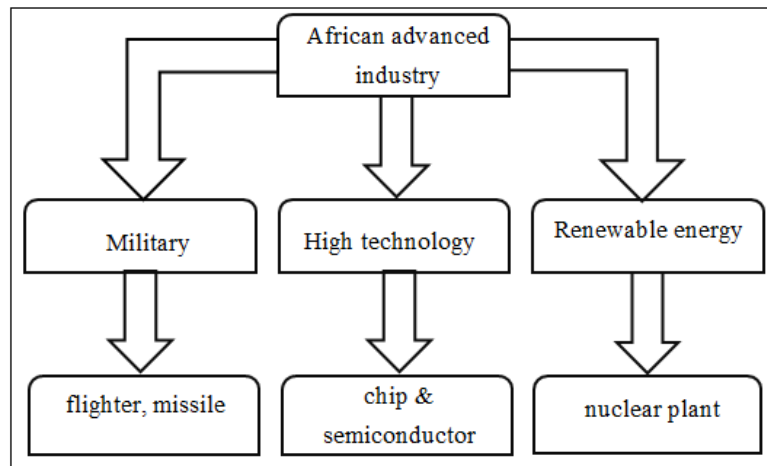


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**Figure 1: The arrangement in African advanced industry**

## 2 DISCUSSION

As seen in Figure 1 the African advanced industry includes three respects they are military, high technological project and renewable energy etc. The core has been high technological one that may affect the military and renewable energy. The base has been military whose effect may guarantee and ensure the other proceed because it is one country force. The nuclear power plant is for the future since it can conserve the earth green source for next next generation. Meantime it can be renewable after a certain time. If we can use reasonably its contamination will be covered and diluent whose exponent may be under control. Therefore the key problem is the reasonable use and exploiting mineral element whose wielding must be under certain percentage. The OEM (original equipment manufacturer) are the former manufacturer who produces components and parts for their buyer. We must let in special OEM be an important manufacturer who need to be active and positive because they hire many workers. Therefore the advanced one shall educate OEM and help them to become a technological and sale main producer. It is now situation of supplier chain reformation so that the OEM as a supplier is needed to wield their role and capability at most. Only if the rapid and enough supply can the factory guarantee and ensure the produce continuously and profitable. Now the price increases due to the deficient supply which calls economic crisis in west since the product is severely deficiency in 2019 pandemic. Firstly the normal factories and products are deficient due to the pandemic so the quantity of product is less than normal. Secondly management of potential customer is not good too. Thirdly the mechanism of market is not improved. All of them result in the price of product increasing since the cost increase highly to sell. The price per product is high too in pandemic. Therein the superposed inflation happens too.

So the educating technologist becomes an important matter. We can go to OEM factory to organize periodic training their engineer and worker.

Therein their technological level may be promoted on the other side their products have certain innovation to satisfy the ultimate demand by customer. Only when OEM and manufacturer has same technological level they may realize win-win strategies which is trade one between bilateral countries. The same utility may happen in OEM and main factory which meets the currently occurring supplier side reformation. Only if OEM realizes common profit with the main factory may they have change to subsidiary position as low suppliers and chance to utilize their price in order to realize the common profit with development. The periodic time may be short like two hours everyday. After one month the efficient checking may be proceeded to watch their grasping degree such as examination. If the result is not good the restudy may be done again. Therefore the whole level shall be promoted after two months and we can also check the most excellent ones like one~three for us to train more to be specialist in internal factory. Certainly the outside ones may become a new one to join company to compete with internal.

The aircraft carrier as an important military weapon has been taken from the second world war. Up to now it occupies a dominant position in regional safe because it can carry the fighter and missile to play a threat role on this area. Dozens of fighters and helicopters may play an important attacking and defence role. China has three aircraft carriers in East Sea and south sea to defense other aggression by now. It will establish another two in two years. The trade can be proceeded under these military force smoothly since its suppression is wielded. For the sake of security of the trade navigation path and smoothing procedure it gets along with other countries in the end to guarantee the path. The high technology includes the semiconductor like chip that is integrated circuit plate. It can regulate the currency in order to gain its different circuit information to complete its logical course in short time like a second. It has a function to decide determination like human brain in terms of logical programme and reserved data base. Like neural net it

may deal the matter with the logical routes of input, hidden layer and output. It can complete the complicated problem in short time which saves much more cost than human being. Their components are needed to manufactured in OEM and other supplier. The military enterprise increases whose supplier becomes survived and realize common development with it. Therefore the whole related industrial existence will be necessary and significant because it can bring about the hiring problem. Therein the unemployed quantity will be decreased and it may keep up with the advance step in world.

Nuclear power plant may wield its function to continue in coastal region. The cooled water has been flown into sea for the sake of the low solution of contamination. If the contaminant includes more heavy metal it will contaminate the seashore even the world human live. Like Fukushima in Japan its units happened explosion that causes the radiation Uranium to release to water as the result the batch of high concentration Uranium contamination water flown to the Pacific ocean. So the protection measure must be made in advance before the plan and design is started. Furthermore the land is not fitted to this plant since the low water amount. The nuclear contamination has been a urgent problem to solve with their large volume reserved water that will be poured into the Pacific ocean since it attains the limited volume. It will cause the nuclear leaking contamination diffuse all over the Pacific ocean. So the nuclear leak must be paid attention to in schedule of design.

Nuclear reactor has deuterioxide (heavy water,  $D_2O$ ) and light water ( $H_2O$ ) one, the later has low price and high efficient which is current method. The light water ie. general water only uses enriched Uranium and its technology has not formed threat of nuclear diffusion relatively. The deuterioxide may use directly no enriched Uranium to react and its used fuel may obtain material of nuclear weapon with metal Plutonium. Meantime the biomass energy generator includes the thermal dynamics generating technology with biomass and the sold, liquid and gas of its transformation. Its generator may be adopted with different one of coal gas, fuel gas and steam turbine in terms of difference fuel, temperature and power. Its feature has been running independently meanwhile its advantage is low contamination and clean health. The transforming technology has been thermal chemical transformation. [3] nuclear power can produce 6 hundred million watt electricity in one set whose energy is not little. It can cover big territories in a city. Furthermore there are several sets in a nuclear power plant. Therefore the capacity is huge enough to accommodate territories of a

city like Beijing, Shanghai and Guangzhou etc. in China. In future it shall be much more quantity in seashore in China and Africa. It is believed that nuclear power generator will occupy the whole area in world. It must be playing more effective in the whole world in future including Africa. We may trust the future is more wonderful and perspective at all. For the benefit of world human being the projection and determination may be perspective too.

The high temperature water and steam will flow to turbine in steam generator in order to rotate it to generate the electricity to convey. Then the cooled water recycles into fuel chamber through pump continuously. The heavy water reactive speed will be controlled by fuel rode and graphite tube. When reactive speed has been increased the high power electricity may be created otherwise when it has been decreased the low one will be formed. Currently the light water and enriched Uranium is dominant for nuclear electricity in nuclear power plant. The biomass energy will play a little role for wielding biological reserved energy to transform the heat and electricity with thermal chemistry. Biomass as a little generator may play a certain role in middle and little scale generator in current and in future. It can absorb amount biomass from the nature which includes in straw burning etc.

### 3 CONCLUSIONS

The advance industrial arrangement in Africa has been set in this study. They are military, high technological project and renewable energy. The military is base and then the trade enterprise can be proceeded meanwhile high technology is the key. At last renewable energy is at all which may support all of them. Its role has been the deeper construction and mechanism transformation. For the perspective we shall create more advanced and sophisticate plan to make the world including to Africa more advanced at all. The rapid decision must be regulated and signed by authority of government in future. The promoting suppliers of OEM etc. level are urgent in 2019 pandemic in order to decrease superposed inflation and increase products.

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