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MATRIC NO: 17/eng06/048

DEPARTMENT:Mechanical engineering

Eng 384 Class Test2

1. You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country.  As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria

Answer

In order to execute resource optimization and make sure that it is continuously being carried out, energy audits and water audits can be done which track the energy needs of an organization and track the water consumption by the organization respectively. The audits not only provide feedback about the status of optimization within the organization, but also help in tracking the development in this area and accordingly set targets. Even though these audits are a bit time consuming but they are highly necessary as they help the organization stay aligned with their set targets.

Optimization of resource usage not only decreases the amount of waste generated, but also leads to greater profits and creates opportunities for recycling and reusing the wasted resources. In a lot of cases, resource optimization leads to a reduction in carbon footprint which is vital due to the currently degrading environmental conditions. Since India agreed to ratify the second commitment period (2013-2020) of the 1997 Kyoto Protocol for the reduction of Greenhouse Gases and thus reduce the carbon footprint, the need for cutting emissions and correspondingly minimizing waste through resource optimization has gained more importance. The rising trend of green technologies has facilitated in optimization as well as cutting down on energy usage and reducing emissions.

The whole world is currently progressing at an unbelievable rate and the environment is getting affected due to that very progress Resource optimization, hence, has become necessary not only for generating greater profits and minimizing wastage of resources, but also for sustainability.  “Recycle and Reuse” has become the motto for every major organization and new ways to optimize resource usage are constantly being researched and put into use. Since the progression of technology is inevitable, there will always be a great need for effective resource optimization processes which contribute to both- organization’s profits as well as sustainability.