

Assignment No : 4

Group Discussion

Topic : Energy Conservation

Energy conservation is the effort to reduce wasteful energy consumption by using fewer energy services. This can be done by using energy more effectively (using less energy for continuous service) or changing one's behavior to use less service (for example, by driving less). Energy conservation can be achieved through energy efficiency, which has a number of advantages, including a reduction in greenhouse gas emissions, a smaller carbon footprint, and cost, water, and energy savings.

Energy conservation is an essential factor in building design and construction. Energy can only be transformed from one form to another, such as when heat energy is converted into vehicle motive power or when water flow's kinetic energy is converted into electricity in hydroelectric power. However, machines are required to transform energy from one form to another. The wear and friction of the components of this machine while running cause losses of very high amounts of energy and very high related costs. It is possible to minimize these losses by adopting green engineering practices to improve the life cycle of the components.

Energy conservation day has been celebrated on December 14 every year since 1991.

It may be argued that we can harness solar, wind and water resources for generating electrical energy. But it must be realized that conservation of electrical energy is also equally important. At present we are using electric power for entertainments like cinema and T.V. In case the monsoon fails, there would be an acute shortage of hydro-electric power.

People should realize that energy of any form should not be wasted. It should be utilized for the welfare of mankind. One cannot imagine a world starved of energy. It is our duty to think about the future generations of mankind. It is our duty to conserve energy for the future. Conservation of energy is as important as trying to find new methods of generating energy.