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Q) The Use of aluminium and its nature of properties presents an excellent potential for increasing the Sustainable use of Energy. Explain.

In today's rapid global Economic growth, the need for sustainable development is also growing. According to the United Nations Sustainable development goals 7 - of Affordable and Clean Energy, there is need for sustainable development in use of Energy also production of clean Energy.

Also UN's SDG 11 - Sustainable Cities and Communities had made people, industries look for Alternative sources which are Eco-friendly.

Thus, the intervention of Aluminium has given a far-reaching solution, as it stands out to be third most abundant material on Earth.

Aluminiums though are not cost-effective and being used by many countries in various fields. Few of application are:

- 1) Green Buildings
- 2) Electric Vehicles
- 3) Aluminium Packaging.

1) Green Buildings: These are buildings which have gained popularity in recent times which ~~are~~ tend to use all the natural resources like light, air and so on to maximum by the design of their construction.

Usage of Aluminium in this building makes it stronger structurally also enhances the solar efficiency and minimises air leakage.

2) Electric Vehicles: Aluminium due to its properties like crash absorbent, durability, corrosion-resistant, easily formable and recyclable is expected to be greatly helpful in manufacture of vehicles.

Also the light-weight of the Aluminium reduces the mass of the vehicle. The thermal and anti-corrosion properties ^{helps} in battery ~~framing~~ frames. These vehicles are expected to reduce Carbon Emissions.

3) Aluminium Packaging: ~~Since~~ The ability of this non-toxic material to be rolled into shapes makes this a wonderful packaging material. In India since the recent ban on single-use plastic Aluminium packaging is seen as an alternative for packaging.

With all these properties and wide range of uses aluminium stands out to be a greater usage and helping reduce Carbon emissions.