

Decarbonization is a challenge that can be solved with multiple technologies in the country elaborate.

Decarbonization is the process in which reducing Carbon dioxide,  $CO_2$  that emitted from various sources to atmosphere. Flash floods in uttarakhand, Grid failure in Texas in 2021 is the result of unsuccessful decarbonization.

Multiple technologies are used to decarbonize.

1. Electric vehicles: The New technology innovation to decarbonize the environment to some extent. Also Hybrid vehicles, Hydrogen vehicles etc..

2. Ethanol blended Fuels: 10% ethanol blended petrol is a solution to decarbonize. & also the flex fuels.

~~3. Flex fuel~~

3. Reducing GHG emissions: Multiple technologies like Solar energy, wind energy, that used to reduce GHG emission helps to decarbonize the atmosphere.

4. Energy Conservation: It should be conserved by reducing wastage & losses.

Frequent floods, & forest fires are the evidence of ~~decar~~ multiple challenges associated with technologies.

1. Associated with charging of electric vehicles: Energy used to charge ev produces from Coal power plants emit GHGs.

2. Huge cost: To produce green hydrogen, ethanol blended petrol, CNG, LNGs etc.

Thus, Decarbonization is a challenge that can be solved with multiple technologies also need to address the issues with multiple technologies. There by India can achieve carbon neutrality.