

Que

In the context of climate change, India needs to reorient its strategy towards energy mix in order to provide sustainable power supply to consumer. Analyse.

Ans.

Government of India planned to install 175 GW of renewable energy capacity by 2022. This includes 100 GW from solar, 60 GW from wind, 10 GW from Bioenergy & 5 GW from small hydro project.

Government Initiatives

* Solar Energy

↳ Production Linked Incentive Scheme - to promote manufacturing solar panel within country & reduce import dependency.

↳ ONE SUN ONE WORLD ONE GRID programme of International Solar Alliance - to utilize solar energy capacity of different region through a single grid.

↳ PM-KUSUM - to solarisation of Agricultural water pump.

*& Wind energy

According to National Offshore Wind Energy Policy framework, Government planned to install wind power project in India's Exclusive Economic Zone along coastline.

*& Bio - Energy

Rice husk, straws, coconut waste, cotton, wool coffee waste were utilised for power production

*& Small Hydro projects

According to New Hydro power policy, capacity of less 25 MW ~~is~~ of a Hydro project is considered small Hydro project. Potential benefits → less Capital int.
↳ Viable in Ecological fragile Ecosystem

*& Issue with the Government policy are

↳ Despite increased renewable energy production, Government promote fossil fuel extraction - Ex
Go coal block auctioned & provision of construction of new thermal project

↳ No discouragement from Government to reduce private vehicle for commutation.

↳ According to New Hydropower policy, mega Hydropower project received "RENEWABLE ENERGY" status - despite the concern regarding social & Ecological consequences of them

↳ Mega solar power project, itself require huge land, this will also have social & Ecological impact. Also no Environment Impact Assessment [EIA] required for the same.

WAY FORWARD

i) Government should enhance production of solar Rooftop energy against Mega solar park because it No need of land Acquisition - prevent forced Eviction

ii) More job Opportunities - According to recent study rooftop solar provide 30 times more job than solar mega project

iii) Source of Additional Income to Household - by selling surplus power to Grid.

iv) Ensure uninterrupted Power supply

↳ Building Energy efficient infrastructure - to reduce the demand of energy.