

6th Feb, 2023

[GS-2]-IR; [GS-3]-Energy.

1. India's G20 presidency is an opportunity for new efforts in Shaping International cooperation on Energy transition. Explain

Just Energy transition partnership, initiative of developed countries in glasgow climate summit to fix developing economy like South Africa, later extended to India, Indonesia, Vietnam, Senegal to accelerate process of coal phase out

Challenges - coal phase out (vs) Energy transition to Renewables

1. Intra-generational & inter generational Issues.

i) coal linked (fossil fuel) employment will be affected.

ii) will reduce expenditure on ^{status} welfare programmes.

iii) Increase inequality between coal rich & other regions.

2. Central Electricity Authority - study highlights, India's

energy needs is about to double by 2030 with rising population (1st in population according to world population prospects)

So Decarbonisation can't be at cost of growth.

Efforts taken by India

1. Panlhammit targets

- net zero by 2070
- 500GW of Energy from non-fossil source by 2030
- 450GW of Renewable energy by 2030

2. Legislations - i) Energy conservation amendment Act
↓ current
[for energy conservation efforts]

Fiscal incentives [productive linked incentives], carbon market etc.

Prerequisites for just Energy transition

1. must address. [Demand = supply] → Solarisation of agri.
[Accelerate Renewable adoption] → Electrify diesel. Power and Microsmall medium enterprises
↓
③ Increase Rural productivity to increase energy demand
← Reduce Rural urban Divide
← Reduce Intergenerational Issues

2. Domestic components manufacturing & cost competitiveness must be focus. eg currently Indian components 20% costlier than China's.

3. Realign current use of coal resources.

- i) Reduce coal transportation. - then. Coal power plants near mines → will reduce 1/3rd of cost on coal plant owners - which can be financed on emission reduction system.

India being chair of G20 can be a role model, with such broader framework to be considered for phasing out process & shape International cooperation on Energy transition.