

1. India needs renewable energy from various sources in order to meet COP26 commitments.

elaborate:  
India has set various targets to achieve net zero by 2070. Thus India needs renewable energy from various sources in order to meet the conference of parties 26 (COP26) commitments.

### India's Commitments

→ India aims at reducing carbon intensity of India's economy by more than 45% by

2030.

→ Renewable energy capacity to 500 GW by

2030.

→ Net zero emission by 2070

→ 50% of India's energy requirements through renewable energy by 2030

→ Cut down carbon emission by 1 billion

ton.

### Various sources to meet COP26 commitments

To achieve net zero emission by 2070, India must go beyond sun, wind etc. It must concentrate in key areas like construction, nuclear energy and hydro electric power.

## Construction:

- India ~~generates~~ <sup>emits</sup> 6-7% CO<sub>2</sub> from construction industry.
- Thus it is need of the hour to change its strategy to mitigate CO<sub>2</sub> emissions.
- Green cement can be used for construction and green hydrogen can be used for steel production process.
- Thus Government have taken steps to reduce cost of green hydrogen.

## Nuclear energy:

- Achieving Net Zero by 2070 is very difficult without nuclear energy.
- It is clean, reliable energy.
- As of now India has <sup>targeted for</sup> nuclear energy capacity of 22, 480 MW by 2031.

## Hydroelectric energy:

- India have capacity of 1,48,000 MW whereas installed utility - scale is just 20,000 MW.
- Thus government must look for various means for acquiring land and providing rehabilitation.
- Because this energy is safe, sustainable, clean and reliable.
- Thus India must concentrated on various sources which will aid in mitigating CO<sub>2</sub> emissions and generate energy through various renewable sources.