

Climate change is the most pressing issue for human beings of the world. Several species are closing to extinction.

Several sectors which are major contribution for CO_2 emission are under scrutiny. Data sector is one which is newly coming under major CO_2 emitting sectors.

What is Data centre?

Data centres are an entities entity which warehouses / stores data which contain infrastructure to facilitate the information for information driven entities.

What is wrong with Data centre?

Data are not easily stored. They require power, computer and special cooling mechanism to work efficiently. This require resources.

Data centres in China emits CO_2 more than entire Australian electricity consumption by of 2018 by 2023.

The Data centre uses water towered cooling system as well for cooling which requires enormous source water resources.

US department survey reveals major entity of data centres uses 660 Billion litres of water for its use.

Usage of water and emission of CO_2 is going to affect the sustainability of its goals for years to come.

Solution?

- There are evolving technology which tries to re utilize heat produced by data centres to cool the mechanism
- Project Thrive by IBM is example of that.
- Offsetting certain investment made by these entities on Renewable energy could be one option. eg: Australia has these option.
- Using Bureau of Energy efficiency to rate the environmental impacts of these building.
- Asking these sectors to 100% Renewable energy driven is also another option.
- India also needs holistic Renewable energy policy targeting different sectors.