

A study published in the journal science have showed earth have crossed five dangerous tipping points & due to  $1.1^{\circ}\text{C}$  global temperatures caused by human activities.

The calls for developing & green transferring technology to support climate actions have become louder here. Technology alone cannot deal with in mitigation climate actions.

### Technological Optimism :-

— COP26 observed technological solutions ~~can~~ ~~to~~ ~~have~~ brought in :-

\* Non-emitting electricity generated by hydropower, renewables or nuclear fusion (Green energy)

\* Carbon Capture & Storage (biomass)

— COP26 observed :-

\* currently we have 4 kWh/day ← of electricity required 32 kWh/day as per

\* currently we have 6 kg of CCS per person per yr

Tech-centric mitigation conversations leave forest and its subjects which are the best carbon removal instruments.

- Forests absorb net 76 billion tonnes of CO<sub>2</sub> a year.
- Climate crisis is intertwined with other complex issues, which insist on multipronged, interconnected climate solutions.

- The conservation of forests along with other nature-based solutions can provide up to 37% of the emissions reductions, ~~are~~ naturally preserved forests are 40% more effective than monoculture-planted ones.

- Large proportion of the required CO<sub>2</sub> removals could be achieved by conserving natural sinks, improving biodiversity protection & restoring ecosystem.

- \* Preserving earth's cyclical processes by protecting terrestrial ecosystems

- \* Transformative agricultural practices under the leadership of indigenous people & local communities is far more equitable & cost effective of tackling climate crisis.

- Human consumption & activity have exceeded the ~~see~~ regenerative capacity of our planet. At best Technology can assist us on pathway to sustainable, regenerative & equitable world.