



Reworking net-zero for climate justice

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(MainsGS2: Bilateral, regional and global groupings and agreements involving India and/or affecting India's interests & Conservation, environmental pollution and degradation, environmental impact assessment.)

Context:

- Global transformation is affecting the planet. But there is no uniform transformation across the world.
- Global temperature increased sharply only after 1981 with little contribution from the developing countries as their industrialisation and urbanisation had yet to begin.

India stressed climate justice:

- In 2015, at the UN General Assembly when the Sustainable Development Agenda 2030 was adopted and at the Paris Conference, Indian Prime Minister stressed a reframing of climate change to climate justice.
- He argued that just when countries such as India were becoming major industrial and middle class nations, they should not pay the price for the pollution caused by the West.
- The Paris Agreement, explicitly recognises that peaking will take longer for such countries and is to be achieved in the context of “sustainable development and efforts to eradicate poverty”.
- This balance is now being upset for a common target and timetable, with non-governmental organisations (mostly foreign funded) in support and negotiators (mostly public servants) opposing the pressure.
- India will meet its Paris Agreement target for 2030, its per-capita emissions are a third of the global average, and it will in future remain within its share of ecological space.

Treaty's inequality:

- The inequity is built into the Climate Treaty.
- Annual emissions make India the fourth largest emitter even when India contributes a mere 3% compared with 26% for the United States and 13% for China.

- According to the United Nations, while the richest 1% of the global population emits more than two times the emissions of the bottom 50%, India has just half its population in the middle class and per capita emissions are an eighth of those in the U.S. and less than a third of those of China.

Focus needs to be on drivers, trends and patterns of resource use:

- The diplomatic history of climate negotiations shows that longer term goals without the strategy to achieve them solve a political problem and not the problem itself.
- The focus on physical quantities, emissions of carbon dioxide and increase in global temperature, measures impacts on nature whereas solutions require an analysis of drivers, trends and patterns of resource use.
- The current framework considers symptoms, emissions of carbon dioxide, and was forced onto developing countries to keep the discussion away from the causes of the problem.

Change wasteful behaviour in the West:

- Models on which global policy recommendations for developing countries are based consider achieving 'reasonable' not 'comparable' levels of well-being.
- This shows that early capping of energy use will not affect their growth ignoring costs on the poor.
- The different means to achieve the goals are not on the agenda because the rising prosperity of the world's poor does not endanger the planet and the challenge is to change wasteful behaviour in the West.

Role of infrastructure:

- The vaguely worded 'net zero' emissions, balancing emissions and removals, could be disastrous for development latecomers like India.
- The current frame fails to recognise that more than half the global cumulative emissions arose from infrastructure, essential for urban well-being.
- First, infrastructure has a defining role in human well-being both because of the services it provides outside the market and the way it shapes demand distinct from manufacturing (production) and lifestyles (consumption).
- Second, the global trend is that in an urbanised world, two thirds of emissions arise from the demand of the middle class for infrastructure, mobility, buildings and diet.
- There is no substitute to cement, steel and construction material, and worldwide they will need half the available carbon space before comparable levels are reached around 2050, while developed countries use most of the rest.
- For developed countries, peaking of emissions came some 20 years after infrastructure saturation levels were reached and net-zero emissions are being considered some two decades even later to take advantage of aging populations and technology.

- Third, because of its young population and late development, much of the future emissions in India will come from infrastructure, buildings and industry.
- India cannot shift the trajectory much to reach comparable levels of well-being with major economies. For example, China's emissions increased three times in the period 2000-2015, driven largely by infrastructure.

New framework:

- A global goal-shaping national strategy requires a new understanding.
- India must highlight unique national circumstances with respect to the food, energy and transportation systems that have to change.
- For example, consumption of meat contributes to a third of global emissions. Indians eat just 4 kg a year compared with around 68 kg per person for the European Union and twice that in the U.S. where a third of the food is wasted by households.
- Transport emissions account for a quarter of global emissions, are the fastest growing emissions worldwide and have surpassed emissions from generation of electricity in the U.S., but are not on the global agenda.

Use of coal:

- Coal accounts for a quarter of global energy use, powered colonialism, and rising Asia uses three-quarters of it as coal drives industry and supports the renewable energy push into cities.
- India with abundant reserves and per-capita electricity use that is a tenth that of the U.S. is under pressure to stop using coal, even though the U.S. currently uses more coal.
- India wants to eliminate the use of oil instead with renewable energy and hydrogen as a fuel for electrification, whose acceleration requires international cooperation around technology development and transfer.

Way forward:

- In the Paris Agreement, 'climate justice' was relegated to the preamble as a political, not policy, statement. It needs to be fleshed out with a set of 'big ideas'.
- The first is a reframing of the global concern in terms of sustainable development for countries with per capita emissions below the global average, in line with the Paris Agreement.
- Second, the verifiable measure should be well-being within ecological limits.
- Third, international cooperation should centre on sharing technology of electric vehicles and hydrogen as a fuel, as they are the most effective response to climate change.