

Decarbonisation “Reshaping The Shape of India”



Rajesh - Gurugram

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Attaining the one extreme pave the way for another wave to enhance its amplitude as embarks its commencement. Human’s growth in current context came from intensive and extensive usage of carbon. Continuation of accustomed trend and acclimatized behaviour now made each one of us resonated with Decarbonisation as the only way in hand holding and co-existence of creature and nature. The deep contemplation on assessing the extremities of emitting carbonisation in meeting self- centred belly needs of human and again reckoning with correct rationale of science “usage of awareness & knowledge to bring human comfort” unfolds carbonisation as enabler to decarbonisation. It allows traversing on various uncharted territories of innovation as alternate to industrial usage, energy storage and each step ahead with cautious & caution to sink in decarbonisation era.

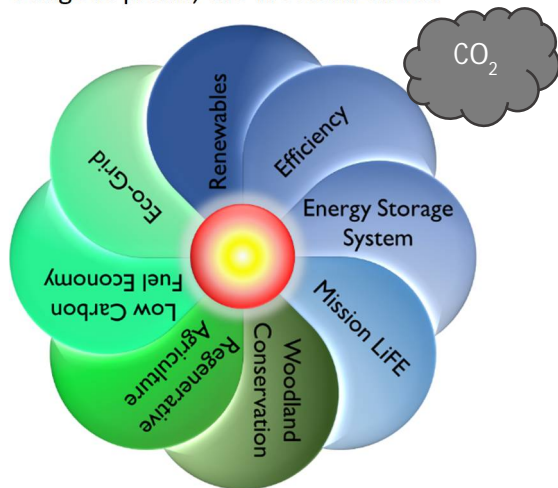
Today’s time zone is much dynamic to impart static to our existence as last hundred years, we disrupted ecology and now with ecology manifestation, we need to evolve new approach to make ecology static. The outside in voice of us only culminated in extraction on linearity of usage and throw away in today’s time with shortage of basics to survive as well great caution on way to dispose of invites austerity and a fresh look to ride on technology concurrence to environment being imperative. Each curse has unique look-in to explode the look-out that brings the balancing act against all unbalancing which that we cumulatively traversed till date to only comply with natural sinusoidal wave. On always running chaotic ends with pause of introspection in ‘VOICE of ECOLOGY’ as ‘Victory Over Inner Conscious to Exist & Evolve’ is the only way out to response

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Free flow to occupy the space now being restricted with all inventions are on to assess the Shape with its divergence from today’s context of rationale to converge with the Reshape of India in avoidance extinct from flaws of earlier shaped-in to exist and again explode with divergence on evolve with ecology. The most conscious species, human, has inundated with outcome of unconsciousness environment for others to extinct. Thereby, climate change indicators are divergence parameters that’s shape today’s context of any country. Aggravated exposure of Earth can be well understood from much disruption of Global mean surface temperature, Land surface temperature, Global CO₂ emissions & Global precipitation.

Water bodies are far worst impacted with abrupt surges in Arctic Sea ice content, Antarctic Sea ice content, Snow Cover, Glacier mass balance and Sea level rise. Much inequality from invasion of mankind brought the 70% of earth’s surface water covered to more challenger indicators similar to ‘fire’ relevance as Sea Surface Temperature Mean & Ocean Heat Content to almost no solution mode or recovery back. Thereby, bringing resilience environment to the earth through first stabilising water bodies and minimisation to sensation of fire is paramount to have some distinct degradation in Climate Change Indicators. Working and exercising on entropy to enthalpy as source of energy to efficiency ripples logic of application to a step ahead in Reshape the surroundings for greener and sustainable way forward for all species along nature.

The current manifestation of climate change through multiple indicators is primarily attributable to the anthropogenic factors. Natural disasters and extreme weather events created over \$270 Bn worth of economic losses to world in 2020. India seems to be at the watermark of climate change – rather than single events, it is the increased frequency of extreme weather occurrences which breaks the back of our capability to cope with natural disasters. Average temperature in India by the end of the 21st century is projected to increase by about 4.4 °C relative to average during 1976-2005. As well, remains vulnerable to sea level increase, which threatens its low-lying small islands, major coastal cities & declined precipitation for June to September by 6% during 1951-2015, particularly over the Indo-Gangetic plains, the Western Ghats.



Radical analysis gauging through ‘detection and attribution’ to ‘impact assessment’ & ‘mitigation policies’ is key to decarbonisation society. Today’s surge on renewable energy and energy efficiency must go hand in hand in writing the most unique development to ride over current scale & pace of climate change. Transitioning from fossil energy system to fully electrified may cut up to 40% of final energy consumption. Since, electrical vehicles convert 77% of electrical energy to the wheels whereas conventional vehicles convert about 12%-30% of the stored energy in gasoline to power of wheels. Annual energy efficiency investment is up 45% since 2020, with particularly strong growth in electric vehicles and heat pumps outpacing gas boilers.

An analysis shows that every 1 °C increase in the average daily temperature above 24 °C drives a rise of about 2% in electricity demand in India. Doubling efficiency progress, although challenging target, could cut energy bills by one-third and make up 50% of CO₂ reductions by 2030 (would reduce CO₂ emissions by 7 Gt). Establishing of a mini (eco) grid precipitates rapid acceleration of a wide range of economic, social and community benefits which gets helped by customized Local Low Carbon Economic Action Plan. Power from the ECO-POWER STORE distributes to the market place, businesses, medical clinics, schools and homes benefitting the whole community.



ECO-APP

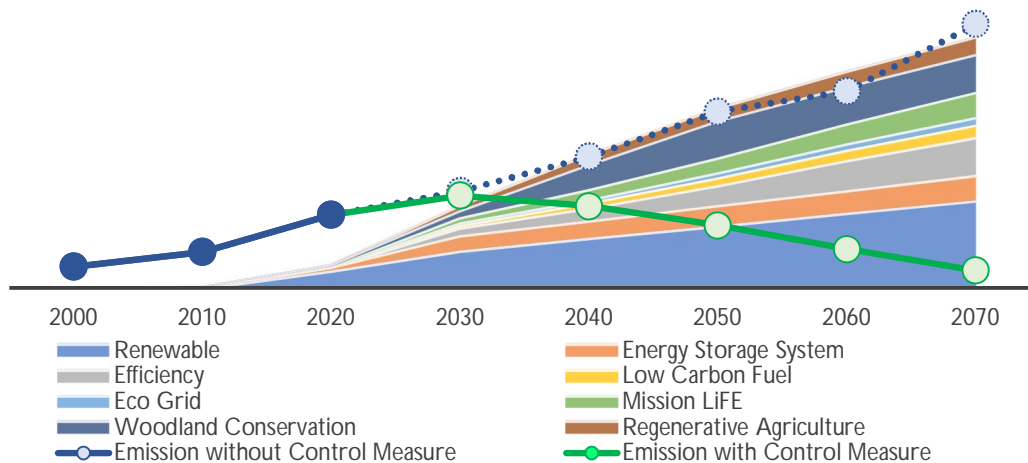
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Mission LIFE means Lifestyle for Environment to adopt environmentally sustainable lifestyles. This commensurate ‘Upcycling’ in supporting local economies as small businesses by reducing single use plastic that’s get pileup from Arctic to Antarctic, reducing waste generation, reducing e-waste, and at same time saving energy, saving water, adopting sustainable food system, adopting healthy lifestyles. Upskilling encourages creativity and innovation by finding inventive ways to give new life to discarded products. It drives control on per capita carbon footprint as sustenance always been part of our tradition, culture, values and as well at least 80% of villages & local bodies are aimed to become environment-friendly by 2028.

The Overall carbon emissions = Population x GDP per capita x Energy Intensity of GDP x Carbon Intensity of Energy where carbon intensity of energy = CO₂ emission/energy consumption is the only controlling factor. In which technology plays a key role in India's net zero transition in declining overall emission intensity of GDP in reshaping decarbonisation horizon. Power sector contributes 40% of India's total GHG emissions and it's expected to rise by 11%, reaching 1.114 Gt in 2030 accounting 10% of global power sector emissions and average emission factor from 0.71 Kg CO₂/kWhnet expects to reduce to 0.430 by end of 2031-32. Reaching to this efficient factor calls for well-designed and tailored combinations.

Most rapid metamorphosis of energy sector is energy storage system. Embracing instantaneous resource to be in consistent "Storage" on renewable expects to response answers to all puzzle of power scenario. This storage requirement in terms of percentage of peak demand may attain 5.8% and energy demand 1.55% for year 2026-27 whereas for 2031-32, it is to be read as 20.18% for peak demand & 6.18 % for energy demand for year 2031-32. Mammoth energy capacity for India necessitates evolutions of various hybrid mode of storage in becoming the most unique outcome in electricity. Obvious choice among alternatives as mechanical, electrochemical, thermal, electrical and chemical shall be levelized capital cost among contemporaries.



Addition of heat enthalpy on production and storage of energy may contribute more substantial quantum in overall mapping of decarbonisation representing true lever index in the context of India's Decoupling Elasticity. 14% of GHGs are emitted by the agriculture sector in India where nature-based solutions through regenerative agriculture benefits from greater yields, reduced expenditure on inputs and lower environmental impacts, thereby, enormous social impact transforming livelihoods including on the climate through lower greenhouse gas footprints. Woodland conservation can potentially offer a rapid pathway to nearly 0.90 gigatonne of CO₂ removal per year once the necessary scale is reached.

Each event along species originates from magnanimous of earth, water, fire, air, sky. Only working on these basic is the solution mode in avoidance extinct from carbonisation to exist and evolve with ecology on fulcrum of decarbonisation after exercising on energy, efficiency to be in economics and environment of prosperity in co-existence of nature and humans in complementing and supplementing to each other forever. All climate indicator's output is heat that brings adversity to our existence. Either regulating these higher enthalpies to others usable energy mode to us or usage of curse of carbonisation to decarbonisation, application of blueprinting decarbonised methodologies as above shall be serving twin objective of Advanced Economics and achieving Green Pathway to India.

Mercury drops to 7.1°C in city, Banka shivers at 4.9°C

Prabhat.Shukla@timesgroup.com

Patna: Cold weather conditions persisted across the state with temperature registering a sharp fall on Saturday, according to the Patna Meteorological Centre. In the state capital,

COLD WAVE GRIPS STATE

mercury dropped to 7.1°C, the lowest so far this winter, and 1.8°C below the normal of 8.9°C. The city's maximum temperature also declined to 13.8°C from 23.6°C recorded three days ago.

Other parts of the state saw even colder temperatures with Banka recording a temperature of 4.9°C. Fog also reduced visibility at several places in the morning. "Dry weather persisted across the state in the last 24 hours. A 'cold day' was recorded in Patna, Muzaffarpur, Motihari, Darbhanga, Samastipur, Vaishali and Gopalganj. The state recorded a maximum temperature of 22.2°C in Forbesganj and a minimum temperature of 4.9°C in Banka. The average maximum temperature was recorded at 18.7°C and the minimum at 8.2°C.

Trains delayed: Dense fog continued to affect the normal traffic movements on the New Delhi-Kanpur-Prayagraj-DDU-Patna route on Saturday. All long-distance mail and express trains originating from New Delhi were delayed by 10 to 15 hours when they reached Patna Junction on Saturday. TNN

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Fog effect: Three flights cancelled, 13 delayed

Faryal.Rumi@timesgroup.com

Patna: Flight operations at the Jayaprakash Narayan International Airport remained disrupted

MANY FLYERS HIT

ted even on Saturday as dense fog engulfed the city. Three flights were cancelled and at le-

ast 13 flights suffered delays as the visibility reduced to only 100 metres in the morning hours. All three cancelled flights belonged to IndiGo.

The cancelled flights were Delhi-Patna (6E-2769), Hyderabad-bound 6E-6719 and Kolkata-Patna (6E-6917).

The first flight of the day, UK-717 of Vistara between Delhi



A girl protects herself from cold

and Patna landed here at 11.50am instead of 10am.

A weatherman at Patna Meteorological Centre said the general visibility dropped to 100 metres at 8.30am on Saturday, and reached 400 metres around 11.30am. "Throughout the day, the visibility was around 1,000 to 1,200 metres. Similar foggy condition will be seen in Patna on Sunday as

well," he said. Himanshu Sinha, a flyer who was traveling to Delhi, said, "Vistara flight from Patna to Delhi was delayed and people were inside the bus with closed door for more than 20 minutes. The bus was completely packed, and there was no space to breathe. I requested the driver to open the door, but no one responded."

'Provide medical help to people hit by cold'

VK Tripathi | TNN

Patna: Taking note of the prevailing weather conditions, Patna district magistrate (DM) Chandrashekhar Singh asked all the health facilities, including primary and community health centres, to remain in alert mode and provide medical help to those hit by the cold wave.

Exposure to the cold caused various ailments and it needed immediate medical attention. The DM said the civil surgeon was directed to ensure that doctors and paramedical staff

DM'S ORDER

were present on duty in each shift and attend to people affected by the cold.

The total number of those provided night shelter for evading cold wave conditions shot up to 14,288 on Saturday. These shelters are equipped with carpets, beds, blankets, and other basic amenities.

All the 23 night shelters were being looked after by caretakers deputed in three shifts.

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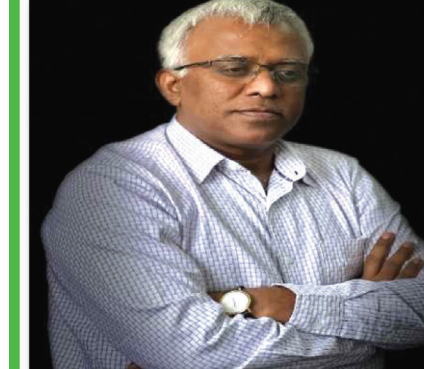
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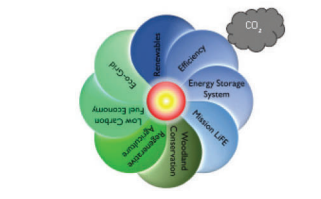
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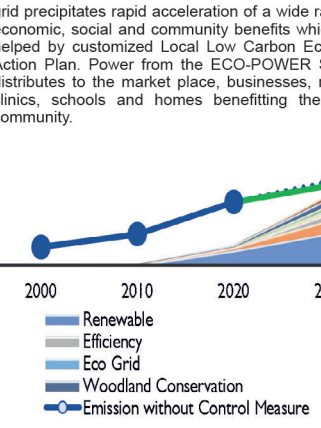
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ADVERTORIAL

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