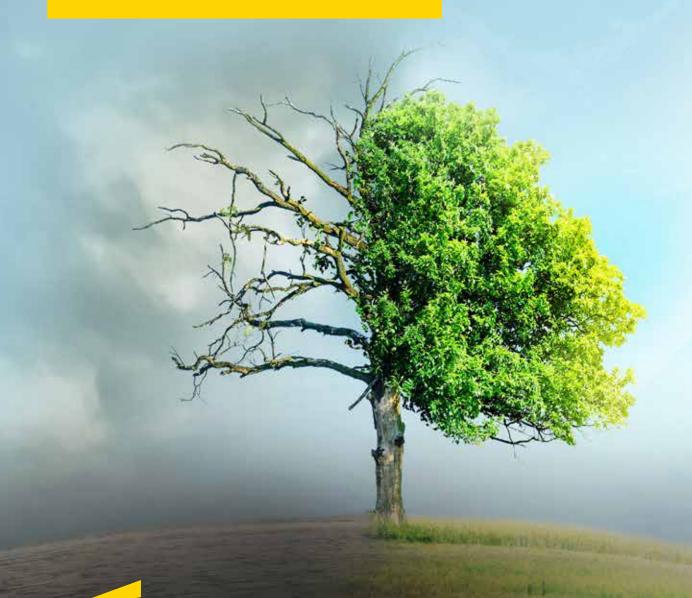


A White Paper on Navigating India's Climate and Sustainability Transition

June 2024









Presented by
Times Network & EY (Ernst and Young)
at India Climate Summit 2024

Foreword

India is witnessing the real and undeniable threats of the climate crisis - weather change, environmental hazards, instability and increased natural disasters. With the constantly rising threat of climate change, India has undertaken the mission to counter the threat with an aspiration towards a net-zero economy by the year 2040. It is not enough to just discuss the crisis that is befalling upon the nation, but imperative that India takes action towards this aspiration.

Times Network has taken the initiative towards climate action for the nation through an impact-focused platform – India Climate Summit, with a mission to not only discuss climate issues, but to charter the pathway towards a sustainable nation. Bringing together all major climate stakeholders from the political, business and social landscape, India Climate Summit will drive an actionable agenda.

Keeping in mind that knowledge is the first step towards action, Times Network and EY join hands to uncover the criticality in the mission and bring forth the true effects of climate change on the business and socio-economic landscape of India through this white paper. Additionally, with our commitment towards climate action, the white paper also features implementable solutions towards mitigating climate change.

We thank you for your support in this mission of national importance and invite you to take a stride towards driving real and measurable change towards a new India - Climate Conscious India.



Vineet Jain Managing Director, The Times Group





The entire world is experiencing a shift characterized by a string of severe and complex problems influenced by a number of unprecedented crises. These issues come in the form of relentless disaster risks, geo-political turmoil, global financial instabilities, environmental hazards, and widespread trust deficit. This has been the status quo for a substantial period of time and the situation is deteriorated further by the global average temperature, which has climbed beyond 1.2° C compared to pre-industrial levels; a threshold beyond human tolerance.

Since time immemorial, India has demonstrated remarkable resilience in the face of various predicaments. The country has showcased dynamic global leadership, putting sustainability and the push towards a decarbonised future right at the centre of its agenda. However, individual and national efforts need to be amplified and complemented by a global initiative. To overcome these crises, it is of utmost importance that we unify and capitalize on solution-oriented methodologies. We need to identify effective solutions to these existing global challenges; and this necessitates a platform where Indian leaders can engage in thorough discussions and negotiations with global counterparts.

In this spirit of thought leadership, we aim to deliver a comprehensive analysis that brings in a global perspective and juxtaposes it with India's ongoing march towards sustainability. This will shed light on how our nation aspires to make its mark and contribute to the health of our planet, both at a national and corporate level. This collaborative approach forms the basis of our pursuit of a healthier and more sustainable world.

Sustainability is everybody's business.

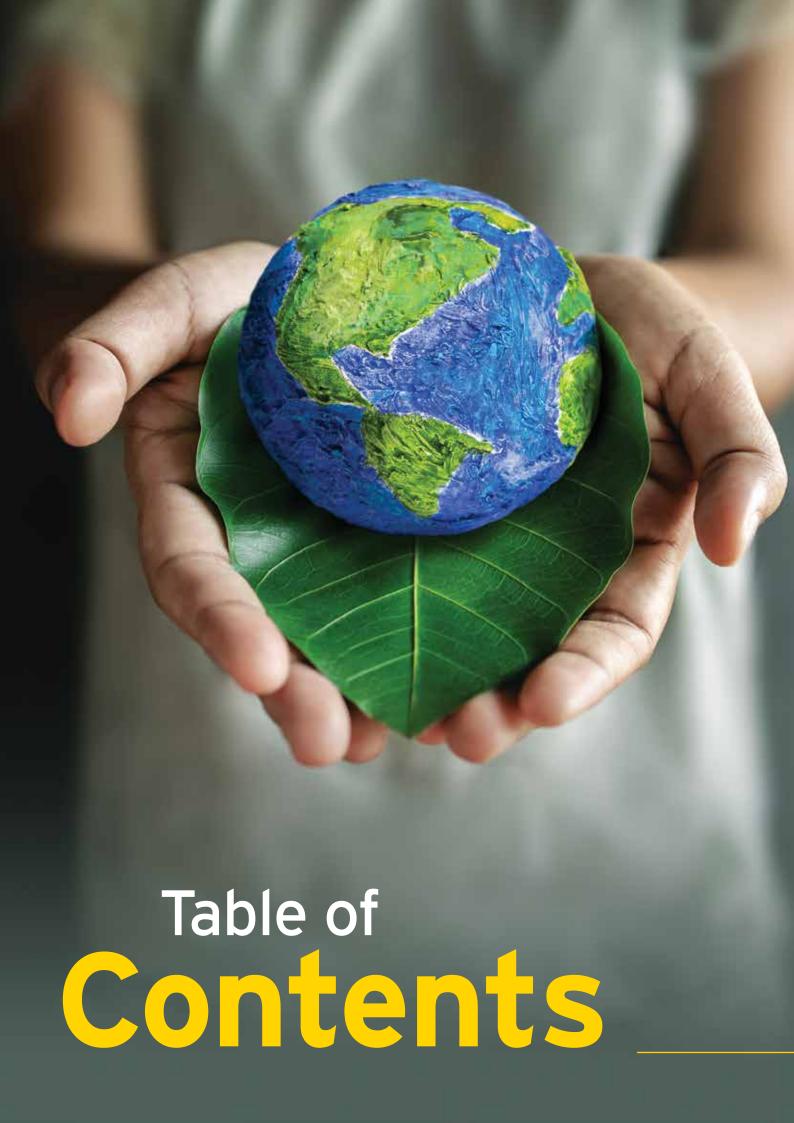
EY is committed to helping business create value for sustainability as well as helping sustainability create value for business - reframing how business approaches sustainability and putting it at the center of how value is created.

We call this Value-Led Sustainability – a way of protecting and creating new sources of value – for business, people, society and the world as a whole. And that makes it everybody's business. To navigate this transformative path, India must seize the opportunities presented by sustainable practices across multiple fronts, like energy transition, sustainability mobility, eco-friendly agriculture, sustainable finance, and innovative technology.



Nitesh Mehrotra EY India Partner | Sustainability and ESG Foreword





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Executive Summary

Climate change presents a unique set of challenges to India's policy framework.

Managing to uplift the living conditions of an approximately 1.8 billion populace while concurrently playing a vital role in reducing the world's greenhouse gas (GHG) emissions is a formidable task.

Despite the numerous policies that have been put in place to foster the growth of renewable energy sources and gradually transition away from coal, there is a pressing need to further accelerate these processes to meet India's net-zero goal by 2070. Recognizing that short-term growth might be impacted negatively by the reduction of GHG emissions, the broader perspective reveals the far graver cost of inaction over the impending decades.

As India tries to meet the housing needs of its burgeoning population, striking a balance between economic development and environmental sustainability is primordial. Investments in renewable energy, enhancements in energy efficiency, and the transformation of transportation networks are the crucial components of this balance. The role of financial institutions in launching innovative funding mechanisms for sustainable projects is pivotal here, along with a strategic reassessment of tax frameworks and energy pricing to align with the transition to a greener economy.

The presented research also underscores the necessity of bridging the financing gap and managing climate adaptation. This report concludes on the note that the path to sustainability does not merely lie in prioritizing and regulation enforcement, but also pushing financial resources to make India a climate resilient country.





We are at +1.2°C global warming and need to dramatically change the way we perform our economic activities

Pre-industrial era

Today's level
Paris agreement

Paris agreement

Today's level
Paris agreement

Paris agreement

Today's level
Paris agreement

Today's

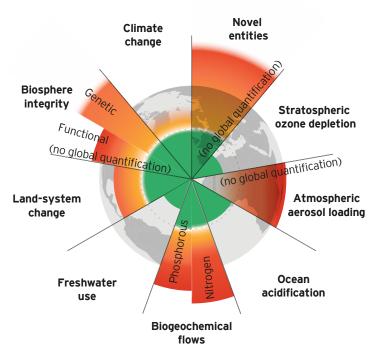
What is the climate action urgency?

2023 recorded the three hottest days on average in 100,000 years!

The difference between 1.5°C and 2°C is massive, 3°C is existential

	1.5°C	2°C	>3°C
World population at risk from extreme heat	14%	37%	2.6x worse
Tropical coral reef destroyed	70-90%	>99%	~100%
Species losing >50% range	8%	18%	3x worse
Climate feedbacks	Low risk	High risk	Amazon collapse, permafrost loss, methane hydrate destabilization

How do we get back within the planetary boundaries?

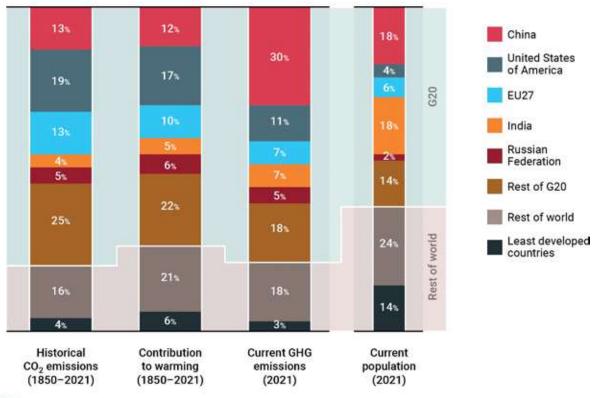


Source: Planetary boundaries - Stockholm Resilience Centre

Current & historic contributions to climate change

Current and historic contributions to climate change

(% share by countries or regions)



environment programme

Source: UNEP Emissions Gap Report 2023

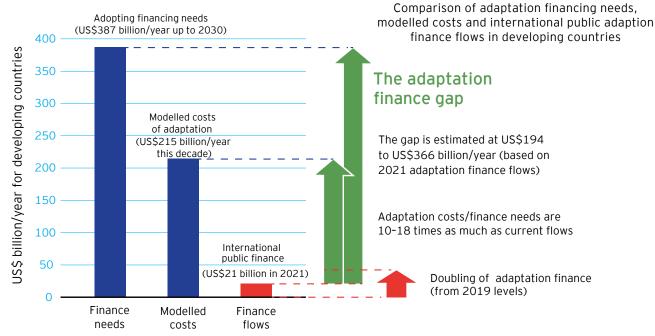
- ► Both Russia and the US emit more than double the world average of 6.5 ton of CO2 equivalent (tCO2e), while those in India remain under half of it.
- ► Globally, the 10% of the population with the highest income accounted for nearly half (48%) of emissions, with two-thirds of this group living in developed countries. The **bottom 50% of the world population contributed only 12% of total emissions.**
- ▶ Nearly 80% of historical cumulative fossil and LULUCF CO2 emissions came from G20 countries, with the largest contributions from China, the United States of America and the European Union, while least developed countries contributed 4%.



Sectoral adaptation costs

- Resilience building in energy and transport sectors will cost US\$56 billion/year, with costs increasing significantly towards 2050
- Coastal protection and beach nourishment to cost US\$56 billion per year between 2020 and 2030
- Riverine flood protection to cost US\$54 billion per year between 2010 and 2050
- Universal early warning systems to cost US\$16 billion annually

- Addressing climate impact on chronic hunger to cost US\$16 billion per year between 2015 and 2050
- Controlling climate-related disease and heat-related mortality to cost US\$11 billion per year
- Addressing changes in fish catch potential to cost US\$5 billion per year in the 2020s, rising towards 2050s



Note: Values for needs and flows are for this decade, while international public finance flows are for 2021.

Domestic and private finance flows are excluded.

Source: UNEP Adaptation Gap Report (2023)

Sectoral emissions in India

Under current practices, more than half of India's projected carbon dioxide emissions in 2040 will come from buildings, appliances, factories and vehicles that do not yet exist.

Road Ahead

- ▶ India aims for 40% of its installed electricity capacity to be renewable or nuclear by 2030.
- ► Plans to increase tree cover to create an additional cumulative carbon sink of 2,500-3,000MtC02e by 2030 roughly on a par with its total emissions across one year.
- ► India's emissions intensity in 2030 will be around 50% below 2005 levels, far ahead of the 33-35% target.
- ► The government currently projects there will be 238GW of coal capacity in 2027, as India still remains a heavily coal powered country
- ► The price of solar has fallen by almost two-thirds since 2014, while the price of onshore wind has halved

Global perspective: GDP & life

The world stands to lose up to 7% to 10% of GDP by midcentury from the physical risks of climate change if global warming stays on its current trajectory

Climate investments

Over US\$270t

in climate investments is needed to meet 2050 net-zero targets

GDP benefit

7%-10%

of potential GDP losses can be mitigated by closing the investment gap by 2050

Susceptible population

3.6 billion

people already live in areas highly susceptible to climate change

Adaptation finance gap

5%

of total climate finance makes up for climate adaptation goals. Developing countries

US\$212b

per year is required by developing countries for adaptation finance. US\$56b were tracked for adaptation in 2021-2022.

Cost to health US\$2-4b

per year by 2030 is estimated to be the direct damage to health cost

Death due to climate change

250,000

additional deaths are expected per year between 2030 to 2050 due to climate change Heat deaths **70**%

increase in heat-related deaths of those over 65 years of age in the last two decades

Source: Swiss Re Business Repa<mark>rd (2023),</mark> WHO – Climate Change (2023), Global Centre on Adaptation – State and Trends in Climate Adaptation (2023)



India's total emissions (2015-2022)

Power	9,093.30M Tonnes CO2e100	30.85%
Agriculture	6,809.13M Tonnes CO2e100	23.10%
Manufacturing	5,682.66M Tonnes CO2e100	19.28%
Transportation	2,495.50M Tonnes CO2e100	8.47%
Waste	1,778.04M Tonnes CO2e100	6.03%
Buildings	1,568.09M Tonnes CO2e100	5.32%
Fluorinated gases	422.30M Tonnes CO2e100	1.43%
Fossil Fuel operations	1,430.56M Tonnes CO2e100	4.85%
Mineral Extraction	198.98M Tonnes CO2e100	0.67%

Emissions total exclude LULUCF. Emissions from forestry and land use change are excluded from the country totals.LULUCF: Land use, land-use change, and forestry

Source: Climate Trace

India
emissions
profile

29.48hillion toppes CO2e 10

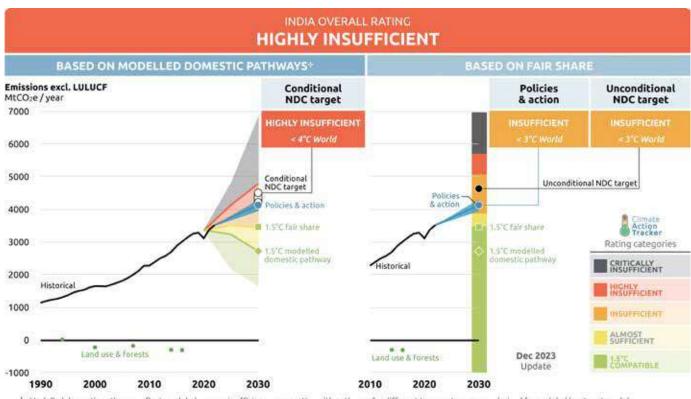
- ► The rapid growth in fossil energy consumption has also meant India's annual CO₂ emissions have risen to become the **third highest in the world.** However, the average Indian household consumes a tenth as much electricity as the average household in the United States.
- ► The industrial sector would account for the largest share of India's final energy use at 54.6% by 2050.
- ► The share of solar energy in the generation mix would increase from being negligible in 2015 to 26% in 2050 and 46% in 2100
- ► The industrial sector would account for the largest share of India's final energy use at 54.6% by 2050.
- ► Transport sector's share in final energy would grow much faster than any other sector and would account for 31% of India's energy demand by the end of the century.



Impact of climate change in India: key projections

- ► Length of heatwaves will increase by 2,515%, driving heatrelated **deaths 25 times higher** than 1990.
- Extreme river and flooding will cost over 6,00,00,000 crore in damages.
- Rising sea levels, coastal erosion and changing storm patterns will expose 21 million people exposed to devastating floods by 2050
- ▶ India stands to lose 5.21% of its GDP by 2050. That rises to 9.9% by 2100.
- ► India could face annual average losses of between \$132 billion and \$224 billion under moderate-to-worst-case climate change scenarios

Source: G20 Climate Risk Atlas (2021)

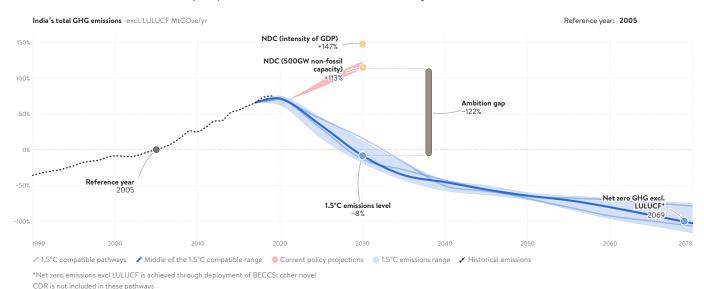


+ Modelled domestic pathways reflects a global economic efficiency perspective with pathways for different temperature ranges derived from global least-cost models

Source: Climate Action Tracker - India Summary (2023)

India's pathway to limit global warming to 1.5°C?

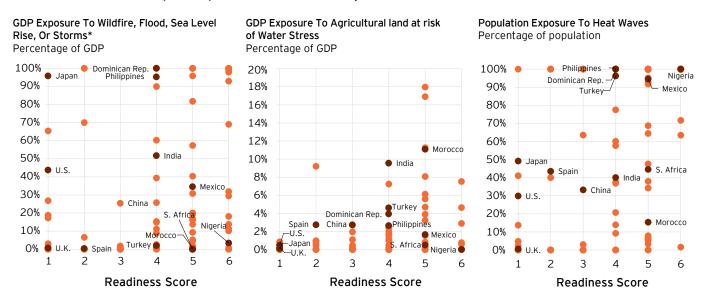
For India's domestic emissions to be in line with 1.5°C, they would need to peak soon and reduce as early as possible, aiming for a 2030 emissions level of 1.6 GtCOe/yr, equivalent to 16% below 2005 levels (range of 23-1%) below 2005 levels.



Source: Climate Analytics - 1.5°C National Pathway Explorer

Physical risk

Under A Moderate Stress (RCP4.5) Scenario And Readiness, 2050



Source: S&P Global - Weather Warning: Assessing Countries' Vulnerability To Economic Losses From Physical Climate Risks

In an exploratory scenario analysis of the vulnerability and readiness of 135 countries to climate change over the next 30 years, S&P Global Ratings finds that physical climate risks could expose 3.3%, 4%, and 4.5% of world GDP to losses by 2050 under climate pathways RCP2.6 (Paris Agreement), RCP4.5 (current policies), and RCP8.5, assuming no adaptation and all risks materialize simultaneously.

Countries In South Asia In 2050 Under A Moderate Stress (RCP4.5) Scenario

Percentage of GDP exposure to one or more physical risks, agricultural land to water stress, and population exposure to heat waves

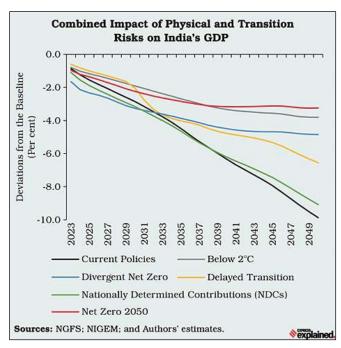
Sovereign	Readiness assessment	Total GDP exposure (wildfire, flood, sea level rise or storms)	GDP exposure based on agricultural land at risk of water stress	Agricultural land exposed to water stress	Population exposure (heat waves)
Bangladesh	4	90%	0%	O%	21%
India	4	52%	10%	62%	40%
Pakistan	5	20%	17%	81%	48%
Sri Lanka	5	5%	5%	73%	100%

Note: Wildfire, flood, sea level rise, or storms--storms exposure taken as baseline only. Region classification based on World Bank data. Data sorted by greatest exposure to acute physical risks (column 3: high to low).

Readiness of South Asian countries is also in the medium to lower part of the range. India and Bangladesh are assessed to be better prepared to face those risks owing to stronger economies and institutions.

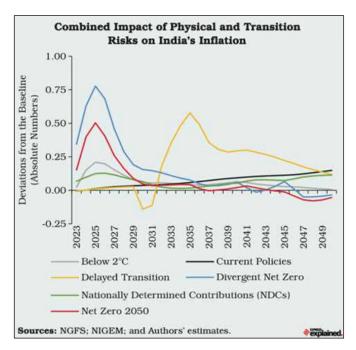
Source: S&P Global - Weather Warning: Assessing Countries' Vulnerability To Economic Losses From Physical Climate Risks

Transition risk



Policy actions have a negative impact on India's GDP, no matter what. However, global scenarios of "current policies" and "nationally determined contributions (or NDCs)" have the highest negative impact on output, whereas rapidly moving towards Net Zero by 2050 will contain the hit to GDP.

Source: Indian Express (2023)



Moving towards net zero by 2050 will spike inflation far more in the immediate future than continuing current policies

Scenario analysis

India's vulnerability to climate change introduces policy concerns regarding growth and inflation. . Scenario analysis suggests that the Indian economy could experience significant impacts, with Indian companies playing a huge role. While a lenient mitigation plan might increase inflation and decrease output, risk-mitigating domestic policies and global efforts can help limit these adverse impacts.

Framework	Total adopters/supporters/ early adopters	No. of supporters/adopters (India)	% supporters/adopters (India)
TCFD	4929	102	2.07 %
TNFD	319	2	0.63 %
SASB	3217	30	0.93 %
SBTi	7381	289	3.92 %

- India has been ranked the world's fifth most vulnerable country to climate change impacts, indicating an urgent need for adopting adaptation strategies. By 2030, climate change would significantly affect agricultural productivity and water availability in major river basins.
- ▶ One-thirds of the Indian Companies also recognize Climate Strategy as one of the top three material issues.

Environmental management is one of the top three material issues for 38% of Indian companies as per S&P Global, compared with about 20% globally.

▶ About one-quarter of major Indian companies have a plan to adapt to the physical impacts of climate change, higher than the global average.

Source: S&P Global (2023)

India Inc's response to climate change

- Fewer than 20% of the world's top 1000 companies had science-based targets aligned with a 1.5 degrees Celsius pathway.
- ▶ Almost 40% had no net-zero commitment.
- ► A survey of over 100 Forum partners with a cumulative market value of over \$20 trillion and revenue of \$8 trillion in 2022 reported that the impact of climate change is
- equivalent in cost to 10% of annual sales and 4% of market value.
- ▶ 57% Indian CxOs consider climate change a "top three priority" compared to 42% of global CxOs.
- ► Nearly 40% of India-headquartered companies conduct physical risk assessments, based on analysis of S&P global environmental, social and governance data.

Alignment	Current temperature alignment	No. of companies	% Mix	
Aliano d (27%)	<1.5°C	157	22	
Aligned (27%)	1.5-2°C	39	5	
	2-2.7°C	2	0	
Misaligned (16%)	>2.7°C	4	1	
	2-3°C	108	15	
	3-4°C	37	5	
Strongly Misaligned (56%)	4-5°C	30	4	
	>5°C	340	47	
	Grand Total	717	100	

Source: World Economic Forum (2024), Fortune India (2024), S & P Global (2023)

Sustainability reporting journey @ India Inc

MCA issued the National

Voluntary Guidelines (NVG)

on Social, Environment and

Economic Responsibilities

March 2019

Conduct (NGRBC)

NVG was revised into

National Guidelines on

Responsible Business

2011-12

2009-10

Issuance of 'Voluntary Guidelines on Corporate Social Responsibility'

2019-20

SEBI **made BRR applicable to top 1,000 companies** by market capitalization

2023-24

Reasonable assurance on core BRSR KPIs - Top 150 companies (by market cap)

2024-25

Value chain related ESG disclosures on a 'comply-orexplain' basis for top 250 listed companies [BRSR Core]

2012-13

SEBI introduced the Business Responsibility Report (BRR) for top 100 companies

May 2021

BRSR replaces the existing BRR and is applicable to the top 1000 entities to report on **voluntary basis** for FY 2021-2022

2025-26

Limited Assurance on Value chain related ESG disclosures on a 'comply-or-explain' basis for top 250 listed companies

2016-17

SEBI made **BRR applicable to top 500 companie**s by Market Capitalization

2022-23

BRSR is mandatorily required to be reported **by top 1,000 companies**.

No assurance mandated

2026-27

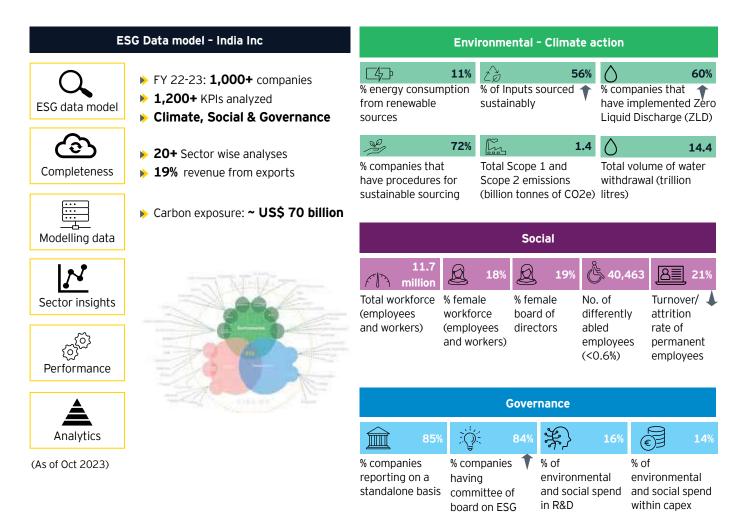
Reasonable assurance on core BRSR KPIs - Top 1000 companies

■ Past
■ Present
■ Future



ESG dashboard @ India Inc

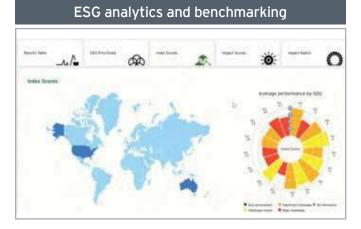
[FY 22-23 ESG performance - across key sectors]



How can emerging technologies/AI create real time alerts?

















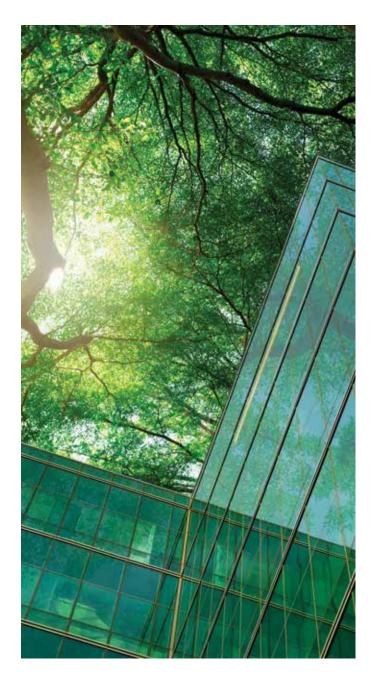
India: mitigation overview

- India's total greenhouse gas emissions have increased by 182% (1990-2019). In the same period, its total methane emissions have increased by 10%.
- ▶ India's energy mix was still dominated by fossil fuels (74%), and the carbon intensity has remained almost constant at around 58 tCO2/TJ over the last 5 years. The share of renewable energy in total primary energy supply was 13%, mostly composed of biomass.
- ▶ Despite achieving substantial progress in installing renewable energy capacity, securing the fourth position globally in 2022, India's dependence on fossil fuels is still on the rise as it directs coal and gas-fired power plants to operate at peak capacity to meet the rise in seasonal electricity demand brought on by record-hot summers.

What is India doing to tackle climate change?

- ► India's domestic policy on climate and environmental action includes protecting regional glaciers, greening the railway system, reducing single-use plastic and producing clean cooking fuel. India aims to reach net zero by 2070 and has been able to decouple its economic growth from its emissions. According to the 2022 IPCC report, it has a good track record of low emissions per capita in comparison to other major world economies.
- ▶ India has condensed the targets of its Nationally Determined Contributions (NDCs) for the achievement of the Paris Agreement into a set of 'enhanced targets' to reach net zero by 2070.
- ► A just transition approach to phasing out coal which would aim to address regional disparities and manage job losses in an equitable and inclusive manner - is yet to be embedded in Indian policy.

Source: London School of Economics - Graham Institute (2022) Source: Climate Transparency Report (2022)



Mitigation targets: Nationally Determined Contributions (NDCs)

Nationally Determined Contributions (NDCs) are crucial for mitigation as they represent countries' commitments to reduce greenhouse gas emissions under the Paris Agreement, aiding global efforts to combat climate change.

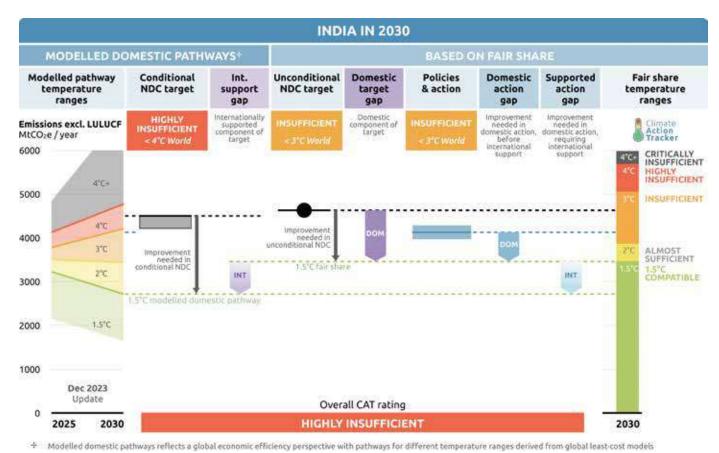
Targets

- ▶ India now stands committed to reduce Emissions Intensity of its GDP by 45 percent by 2030, from 2005 level and achieve about 50 percent cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030.
- Atleast 50% of non-fossil-fuel electric power capacity by 2030.

Actions

- ► Promotion of greater use of renewables in the energy mix along with the expansion of renewable installed capacity
- ► Enhancing energy efficiency
- ▶ Development of resilient urban centers
- Waste to energy
- ► Sustainable green transportation network
- ▶ Planned afforestation

Source: Press Information Bureau (2022)



Source: Climate Action Tracker - India Summary (2023)





India: adaptation overview

Impacts of a changing climate



Between 2017 to 2021, the average summer temperatures experienced by people in India were 0.4°C higher than the 1986-2005 average global mean temperature increase of 0.3°C.

Changes in the ability to work due to exposure to excessive heat

167 billion
Labour hours lost
39% increase

In 2021, heat exposure in India led to the loss of 167 billion potential labour hours, a 39% increase from 1990-1999

Loss of earnings from heat-related labour capacity reduction



159 billion

5 4% of GDE

Extreme heat can make it unbearable or even dangerous to work in a range of economically important sectors. The potential income loss in 2021 - in the service industry, manufacturing, agriculture, and construction sectors - from labour capacity reduction due to extreme heat was USD 159bn in 2021 in India, or 5.4% of its GDP.

Romanello et al., 2022; World Meteorological Organization, 2022

- More than 80% of India's people live in districts that are at risk of climate-induced disasters. India was an early adopter of the climate change adaptation and awareness strategies. It has also fostered the debate on global warming in international politics.
- ► Indian rice production could decrease by 10-30%, and maize production could drop by 25-70% with temperature increases in a range of 1°C-4°C.
- ➤ Approximately 33% of India is drought prone and 50% of these areas face chronic drought These droughts have not only intensified but also increased in frequency over the last few decades.

Source: World Bank (2023) & Climate Transparency (2022)

Barriers towards India's climate risk adaptation

- ➤ The country needs to auction around 40 GW of renewable energy projects annually, but to date has only been able to auction about 20 GW annually. Additionally, the Parliamentary Standing Committee on Energy (2021-22) indicated that investments in the renewable energy sector have been, at most, half of what is India's 2030 target of 500 GW renewable energy.
- ➤ Abating emissions in the industrial sector, particularly for heavy industries, is significantly more challenging than in other sectors given the capital-intensive nature of the sector and the high energy-intensity of many production processes.
- ➤ There appears to be less effort to decarbonize the agriculture industry relative to other industries in India, largely due to its unique position in the Indian economy. With small farms and low margins, the cost to adopting new technologies that lower emissions are high.
- Shifting away from coal is a formidable challenge, and the Indian government is taking a multipronged approached. The Indian economy relies heavily on coal which powers over 70% of electricity generation, and accounts for almost 40% of India's CO2 emissions.

Source: International Monetary Fund (2023)

Adaptation targets: Nationally Determined Contributions (NDCs)

Nationally Determined Contributions (NDCs) are crucial for mitigation as they represent countries' commitments to reduce greenhouse gas emissions under the Paris Agreement, aiding global efforts to combat climate change.

ADAPTATION POLICIES

National Adaptation Strategies

			Fields of action (sectors)												
Document name	Publication year	Agriculture	Biodiversity	Coastal areas and fishing	Education and research	Energy and industry	Finance and insurance	Forestry	Health	Infrastructure	Tourism	Transport	Urbanism	Water	Monitoring & evaluation process
National Action Plan for Climate Change (NAPCC)	2008	/	>	>	>	~		/	/	/		>		/	NA

Nationally Determined Contribution (NDC): Adaptation

TARGETS

No specific target for adaptation in NDC.

ACTIONS

Actions are planned in relation to agriculture, water, biodiversity, coastal areas and fishing, education and research, energy and industry, health, infrastructure.

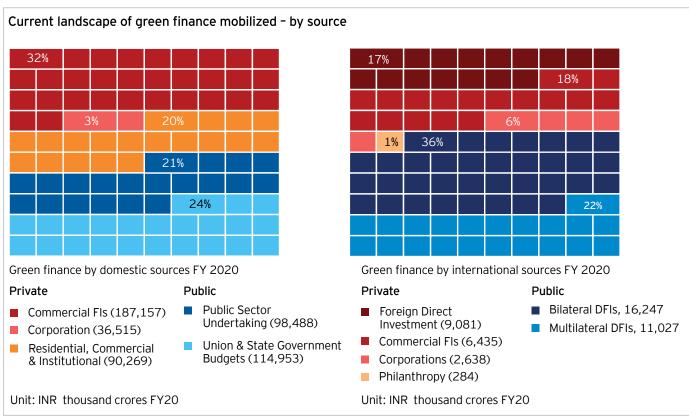
► The GoI will use the proceeds raised from Sovereign Green Bonds (SGrBs) to finance and/or refinance expenditure for

- ▶ India has also focused on creating a regulatory environment that promotes sustainability, led by regulators like the Securities and Exchange Board of India (SEBI) and the Reserve Bank of India (RBI). In 2022, India approved the country's first Sovereign Green Bonds (SGrB) Framework, the proceeds from which will be used to finance green projects under themes like renewable energy and climate change adaptation. Alongside this, the RBI also issued a host of enabling guidelines to mobilize financing for tackling the challenges associated with climate change.
 - the green projects in categories including renewable energy, ed the energy efficiency, clean transportation, and climate change ework, adaptation

Source: How India can balance growth and sustainability in its net zero journey (2023)

Climate adaptation gap in India

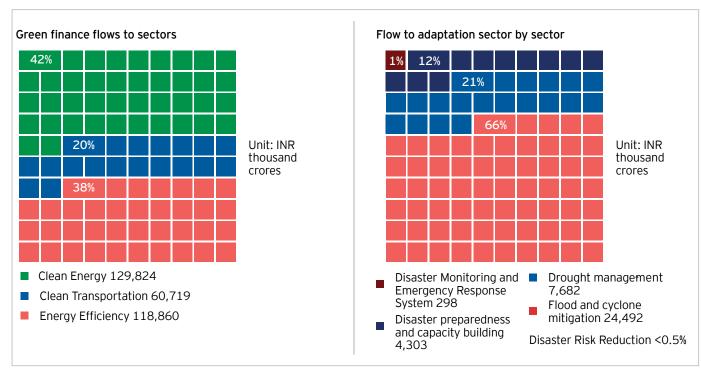
- Climate change threatens to cost the Indian economy approximately US\$35 trillion in absence of any mitigation measures.
- ▶ India's green finance flows are far below the country's needs. In 2019/2020, green finance amounted to INR 3,09,000 crore (~US\$44 billion) per year, only a quarter of what India requires. According to the study 'Landscape of Green Finance', India needs approximately INR11 lakh crore (US\$170 billion) 55 per year to meet its climate goals.



Source: How India can balance growth and sustainability in its net zero journey (2023)

Since FY17-18, green finance flows have increased by 150% in FY19-20. Public sector flows grew by 179%, and private sector flows by 130%. Going forward, the mobilization of private sector finance should outpace that of the public sector. Domestic players consistently accounted for approximately 85% of the total flows over the four-year period from FY17 to FY20. Reporting remains limited, especially in the private sector, affecting the understanding of the current level of green finance mobilization. While there was a decrease in domestic flows to green finance from FY19 to FY20, international sources of finance increased by around 27%. The growth can be attributed to a significant increase in finance flows from commercial financial institutions and bilateral development finance institutions, demonstrating growing confidence in India's commitment to meeting its NDCs. However, green finance still represents only about 3% of total FDI inflows to India.





- ► The funds allocated for mitigation were evenly distributed between clean energy and energy efficiency sectors, with clean transport receiving a smaller share.
- ▶ Domestic sources dominated the financing of energy sectors, with public and private contributions playing significant roles.
- ▶ Solar projects received the largest share of investments in the clean energy sector.
- ► Clean transportation received substantial funding from public sources, while the private sector drove financing in the energy efficiency sector.
- ▶ Funding for electric vehicles showed significant growth.

Most funds for adaptation sectors came from domestic sources, specifically from the central and state government budgets. Closing the green financing gap requires increased private sector finance and improved reporting. While public sector finance has shown promising growth, private sector finance mobilization must outpace it to meet India's ambitious climate goals.

Source: How India can balance growth and sustainability in its net zero journey (2023)



Reserve Bank of India proposal for climate-related disclosures

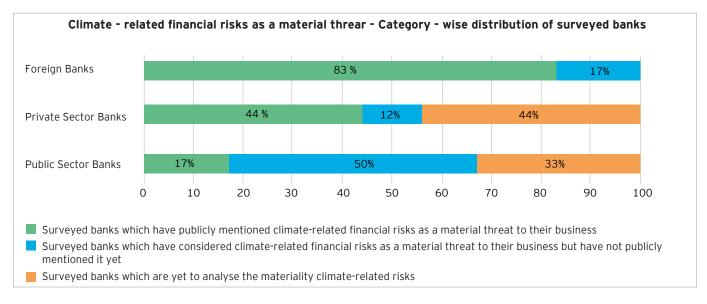
The Reserve Bank of India (RBI) has proposed a framework for the management and disclosure of climate-related financial risks. The framework reflects RBI's evolving focus on environmental risks affecting financial stability. The proposals intend to highlight the physical and transition risks that could have significant effects on banks and non-banking finance companies (NBFCs). RBI's disclosure framework encourages firms to align their strategies with climate goals and includes adopting the Task Force on Climate-related Financial Disclosures (TCFD) recommendations. The proposal suggests a 'comply or explain' approach, promoting more informed decision-making by stakeholders. The shift towards emphasising climate risk management ensures financial stability and fosters sustainable economic growth.

Implementation Timeline

	Governance, Strategy and Risk Management	Metrics and Targets				
SCBs, AIFIs, Top and Upper layer NBFCs	FY 2025-26 onwards	FY 2027-28 onwards				
Tier IV UCBs	FY 2026-27 onwards	FY 2028-29 onwards				
Disclosure requirements for the other REs shall be announced in due course						

From the 2025-2026 tax year forwards, the regulations will be enforced upon commercial banks, financial institutions, and sizable financial corporations. Large cooperative banks will fall under these rules a year later. These rules mandate that these institutions include these disclosures as part of their financial reports and also make them accessible online.

The draft outlines specifications on how banks should elaborate their application of scenario analysis, internal targets establishment, and their progress in fulfilling any legal targets. The required disclosures should encompass scope 1, 2, and 3 of greenhouse gas emissions, which cover emissions directly tied to the bank's operations, emissions related to its energy consumption, and emissions for which the bank is indirectly accountable throughout its value chain.



Source: RBI Climate Risk Survey (2022)



Useful links

- ► EY ESG Compass Innovation to transform sustainability journey
- ► Sustainability in business | Insights & trends (ey.com)
- ▶ EY Sustainability Reporting Maturity Assessment
- ➤ Taskforce on Climate Related Financial Disclosures Report (ey.com)
- Corporate Sustainability Reporting Directive (CSRD) maturity assessment | EY India
- What right questions CFOs need to answer for ESGdriven transformation (ey.com)
- How can data build the roadmap for a sustainability revolution (ey.com)
- ► EY annual report 2023 | Value Realized | EY Global

- ► Transformation Realized: How can sustainability and ESG metrics create competitive differentiation? (ey.com)
- Green finance is gaining traction for net zero transition in India (ey.com)
- Why HR leaders need to put people at the center of the sustainability agenda (ey.com)
- How to accelerate transition finance for net zero | EY Global
- Sustainability in business | Insights & trends | EY Clobal
- 2023 EY Climate Risk Disclosure Barometer | EY -Global
- ► How can we accelerate climate action? | EY Global



ESG Compass



CSRD Maturity
Assessment



ESG Maturity Assessment



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