





Climate Finance – The Concept

Global Climate Finance – Overview

Indian Climate Finance –
The Overview

Summary of Key
Challenges and
Recommendations

- What is the Concept of Climate Finance?
- Where the concept came from?
- Why is it required?

- What has happened so far?
- What is the current situation?
- Where does Climate Finance is Coming from?
- Emerging instruments like municipal bonds and green bonds.
- Using carbon credits for climate finance.
- What are some of the issues and challenges faced by these instruments?

- What has happened so far?
- Existing situation of climate finance initiatives in India by Goi and states
- Hidden governments and schemes
- Municipal bonds, green bonds, carbon credits
- Identifying key challenges and opportunities

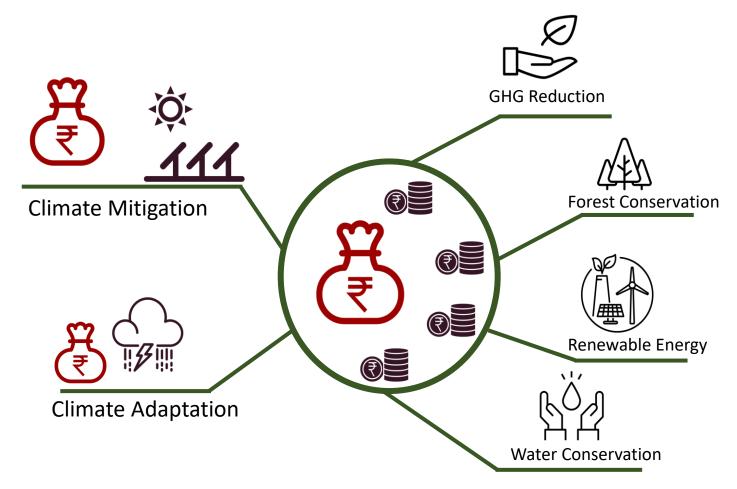
- How can we leverage climate finance by unlocking these tools?
- How can we strengthen ULB to unlock its capability to finance climate projects?

Climate Finance –

The Concept

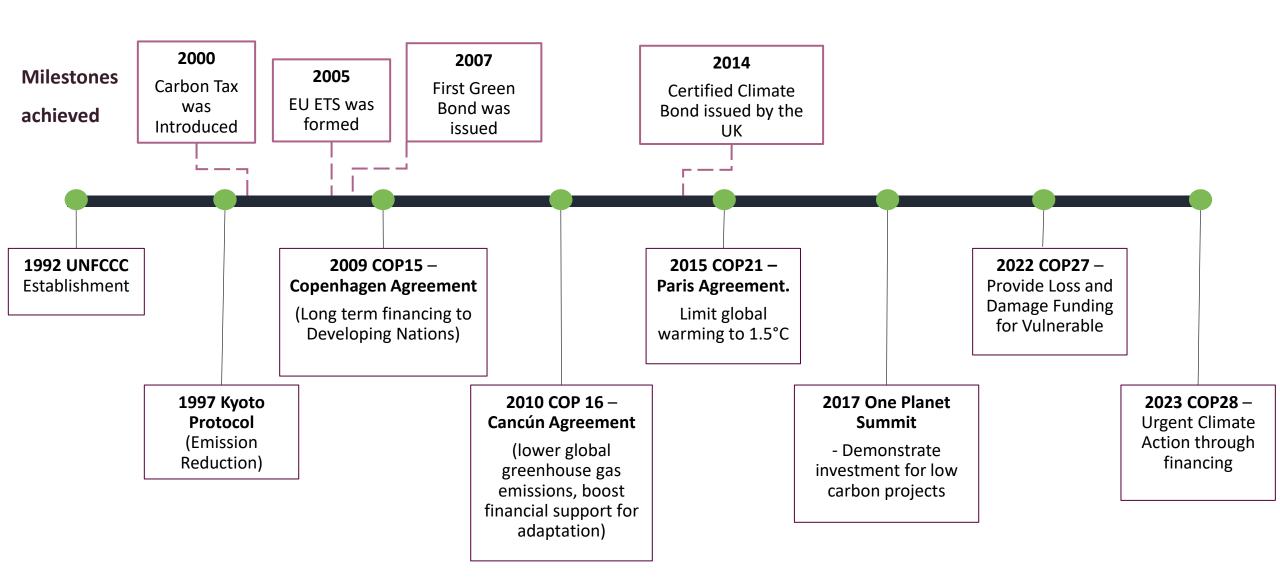
What is Climate Finance?

As per United Nations, Climate finance is **regional**, **national**, **or intermediary** funding provided by **public**, **private**, **or other sources** of funding and used for climate change adaptation and mitigation.



Source: Primer on Climate Financing, UN 2022

Evolution of Climate Finance



Source: UNFCCC





7.6 trillion USD Demand

0.65 trillion USD Supply

Mobilisation

Multilateral and Bilateral Institutions
And Special Climate Adaptation and
Mitigation Funds

which is 8.5% of the total demand.

Thus, there is a need to look into the sources for Financing Climate Adaptation and Mitigation Projects

Source: Climate Funds Update Report, 02-2022

Aim

To review climate finance, its allocations and its utilization of the WASH sector

Objective

- To explore the global climate finance landscape for WASH
- To understand climate finance allocations and utilization in the Indian funding landscape through various instruments
- To identify and address issues and opportunities in climate finance.

Scope & **L**imitations

 The study focuses on the global and Indian climate finance landscape based on the secondary data available.

Methodology

disbursed and various schemes,

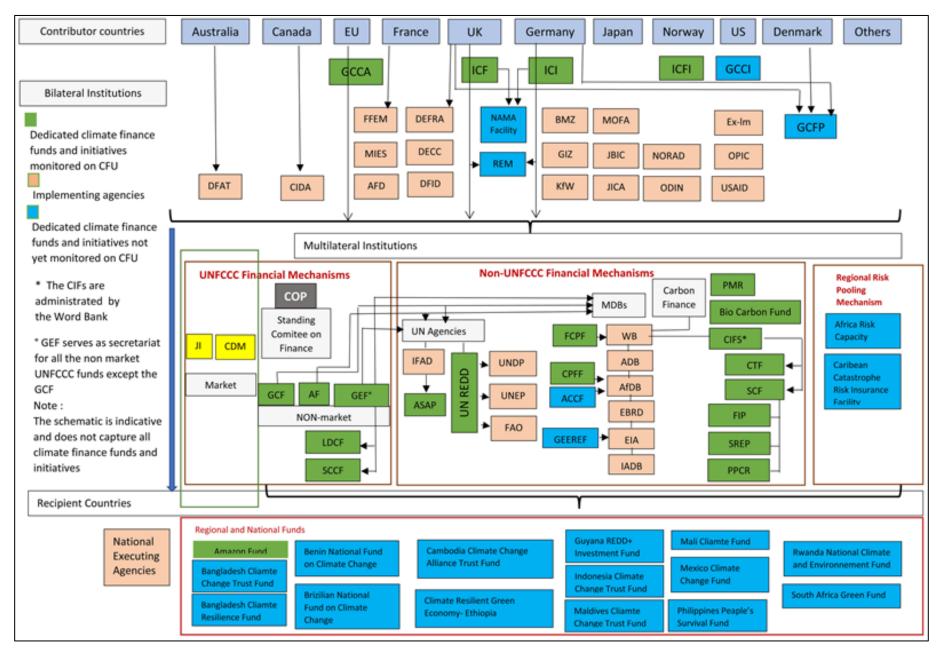
funds etc



Global Climate Finance –

Overview

Global Climate Finance Architecture



Bilateral Institutions

 Financial institution set up by one individual country to finance development projects in a developing country

Multilateral Institution

 Financial institutions established by multiple member countries and falls under international law

There are also many funds that are set up for financing the climate projects

Source: (Ezouine Drissorcid, 2019)

Green Climate Fund Accounts More among All Funds!

GCF

- The Green Climate Fund offers developing nations financial support for reducing GHG emissions and adapting to climate change.
- Countries must be parties to the UNFCCC to be eligible to access GCF resources

CTF

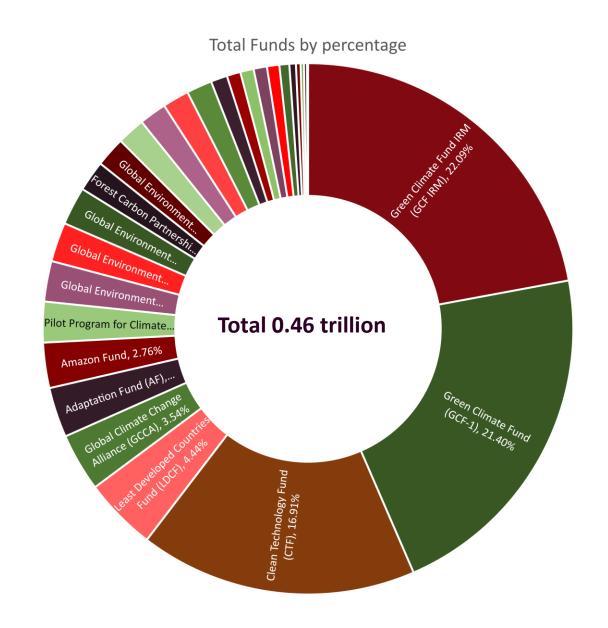
- The Clean Technology Fund
 (CTF) provides grants and
 concessional loans to fund
 investments in renewable energy,
 energy efficiency and other
 climate-friendly technologies.
- The fund is designed to support developing countries in making the transition to a low-carbon economy.

LDCF

- Least Developed Country
 Fund (LDCF) is a financing mechanism to help the 48 least developed nations with climate change adaptation.
- Its main objectives are to strengthen the resilience of vulnerable communities and lessen their sensitivity to climate change

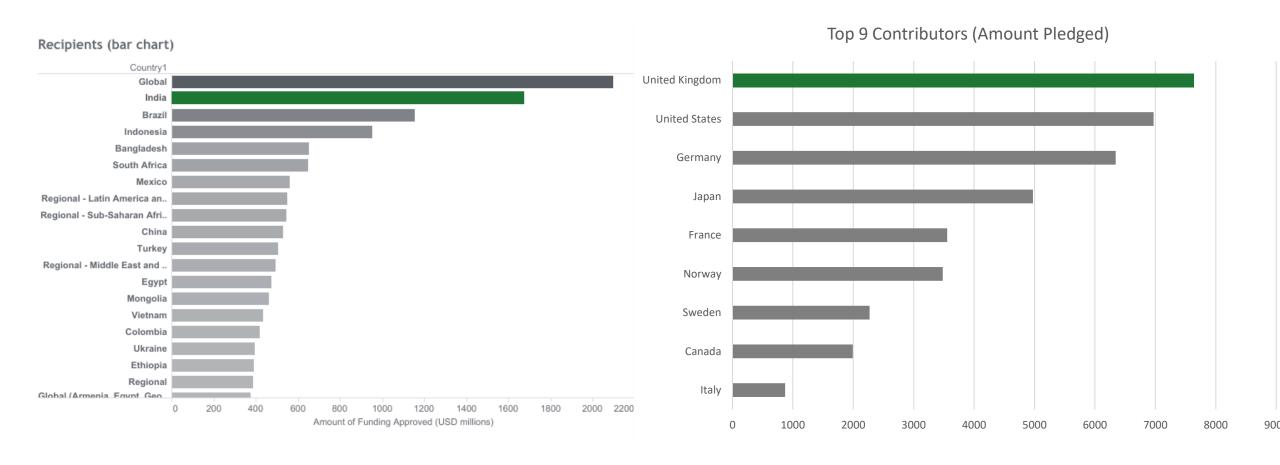
GEF

- Global Environment Facility
 (GEF) provides grants to developing nations for initiatives to improve the environment on a global scale
- All UN member nations are eligible for funding through GEF.
- A country must also be classified as a Small Island Developing State, a Low-Income Economy, or a Least Developed Country.



Source: Climate Funds Update Report, 02-2022

The landscape of global urban climate finance 2017/18

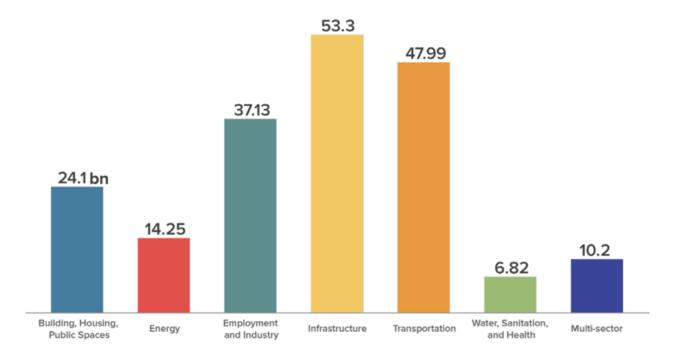


India is the highest receiver of the overall climate funds. Till 2021 India has received 1680 million USD through various funds like Green Climate Fund.

The UK is the highest contributor among all. Till 2021 the UK has contributed 6971 million USD

The landscape of global urban climate finance 2017/18

32% infrastructure24% climate mitigation measures12% energy11% WASH



Following type of projects get funding in the WASH sector

- Water Filtering and Recycling
- Water Supply Infrastructure
- Rainwater Harvesting
- Sanitation Systems
- Wastewater Management

Source: Climate Funds Update Report, 02-2022

There are Four Main Instruments for Unlocking Climate Finance





- Grants and Loans for climate finance come from national governments, regional and international public institutions, and other public bodies
- 46.5%.of climate finance was done through grants out of which 18% comes from Grants and 28.5 Comes from Loans



Labelled Bonds

- (Green Bonds, Social Bonds, Sustainability Bonds, Transition bonds), Transition Finance (Just Transition Fund, Energy Transition Mechanism).
- It is a debt instrument at a lower interest with a special purpose, generally it is issued by banks and other private investors.
- **38**% of climate finance was done through Bonds.



Carbon Markets and PPP

- Carbon pricing involves setting a price on carbon dioxide emissions
- 15% of climate finance was done through PPP and Carbon market.



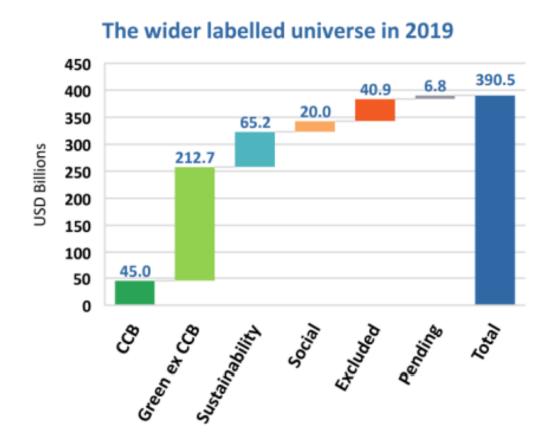
Equity

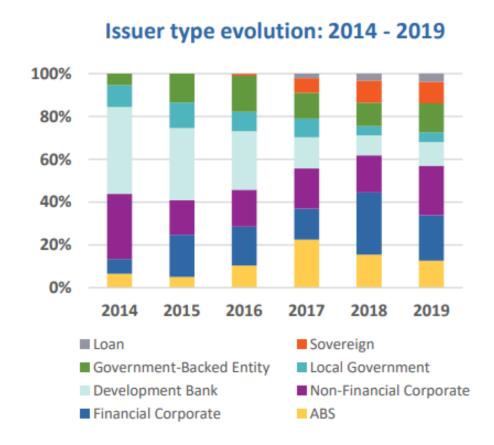
- (Institutional Investors, Venture Investments in low Carbon Hydrogen, Blended Finance.)
- **0.5%** of climate finance was done through Equity

Source: Climate Funds Update Report, 02-2022

Labelled Bonds as a Climate Finance Instrument!

- Labelled bonds are debt instruments that are used to **raise funds** to finance projects with a specific purpose, such as green projects, social projects, sustainability projects, and transition projects.
- They are issued by a government or a company and are typically backed by a guarantee from the issuer





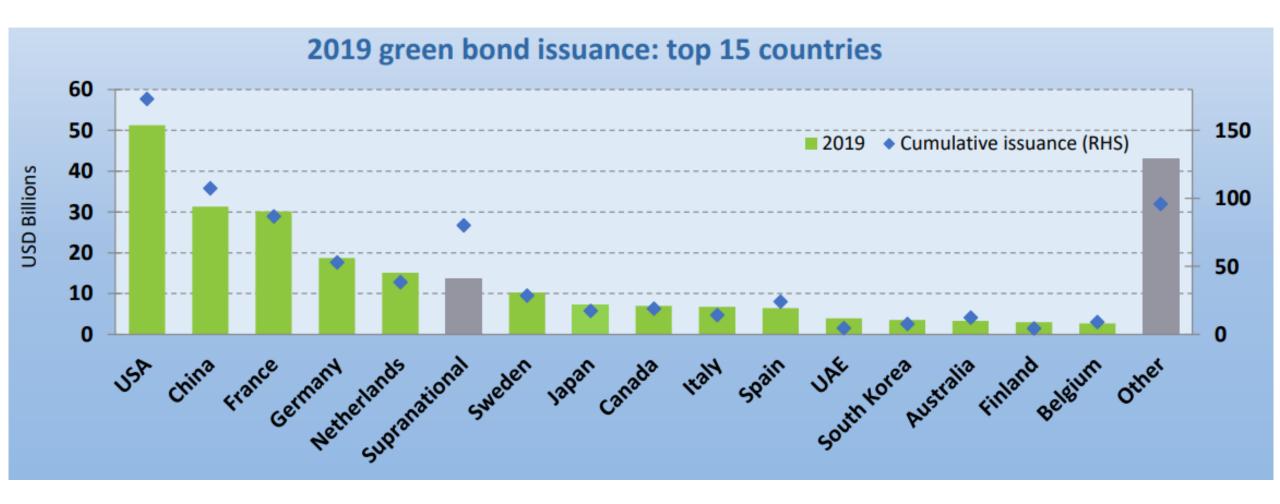
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Green Bonds Are Revolution in Climate Finance – Green Bond Market Grows 10X in 5 Years



Source: Climate Funds Update Report, 2022

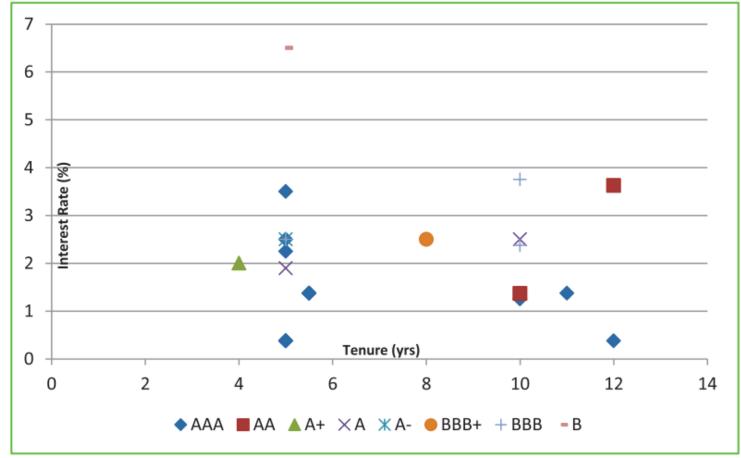
India Does Not Belong to Top 15 Countries of Green Bond Issuance!



As green bond Global green bond and green loan issuance hit an adjusted USD257.7 billion in 2019, setting a new high.

Better the credit rating of the issuer lesser the interest rate.

EU Green Bond Market Rating



It is seen that if the issuer falls under the AAA category the interest rates are reduced with an increase in tenure but it is not seen in other credit categories.

Source: EU ULB Bond market, 2019

Carbon Trading is One of the Best Tool as a source of revenue

The permits that **allow** a factory or a country to **emit a specific amount of carbon dioxide** or other greenhouse gases are known as **carbon credits**, commonly referred to as carbon offsets.

Leftover allowance for sale **TRADE** CAP as credits Excess CO2 Carbon credits Money

The carbon credit market is predicted to grow to \$2.4 trillion between 2020 and 2027 at a CAGR of 31% globally.

Carbon Credit can be Earned by the Projects that Reduces GHG Emissions such as

- Forestry and Land Use
- Renewable Energy
- Agriculture

- Industrial manufacturing
- Waste Disposal
- Metal Production

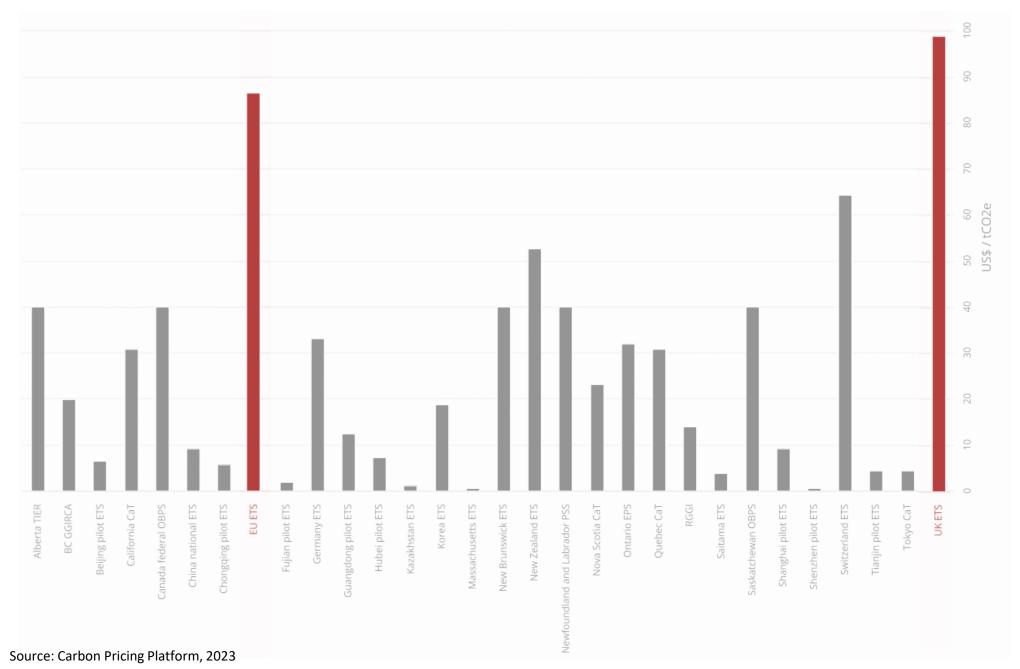
- Chemical industries
- Transport and Logistics
- Others

1 = 1

carbon credit

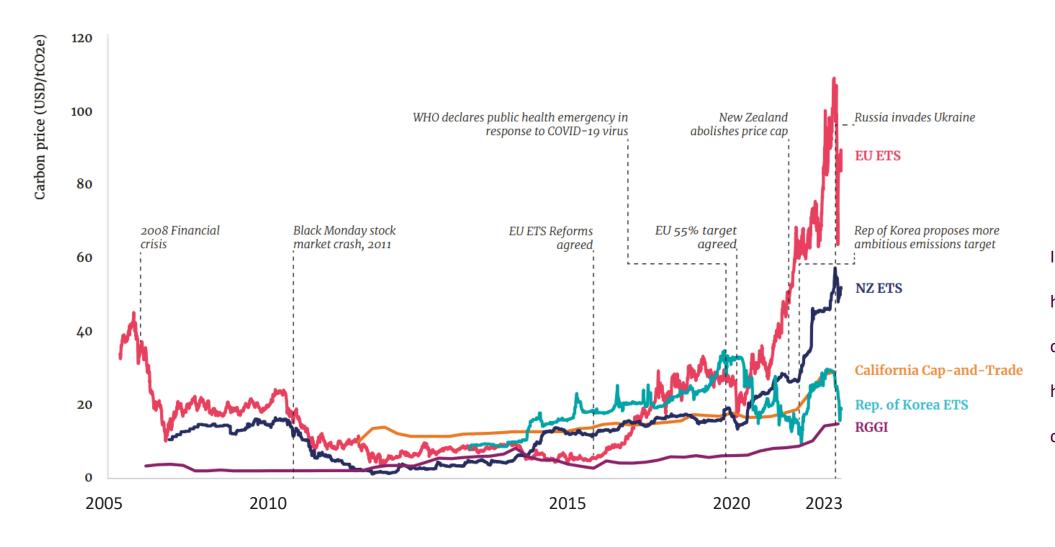
ton of carbon dioxide

The Price of Carbon Credit Varies from ETS to ETS, EU and UK are Highest Among All

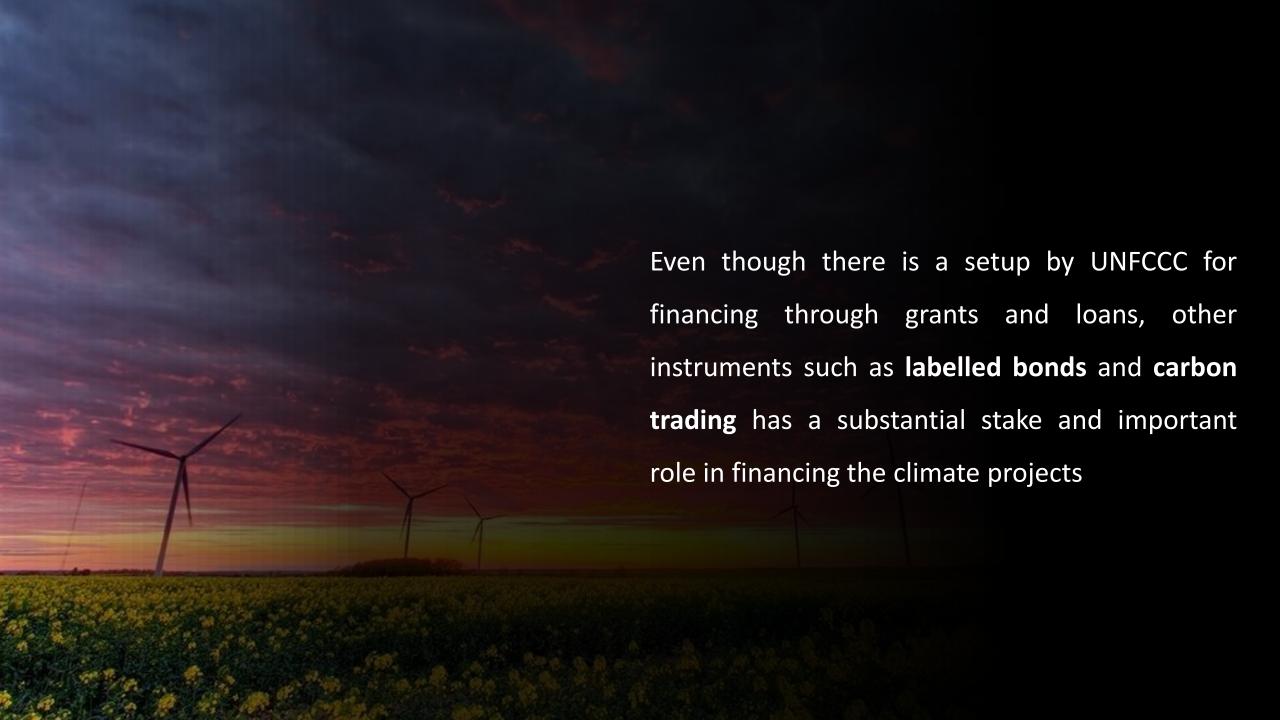


The reason for the higher price is the tighter carbon emission cap and proper regulation on supply and demand of the carbon credit in ETS

The Price of Carbon Credit is Blooming After COVID 19



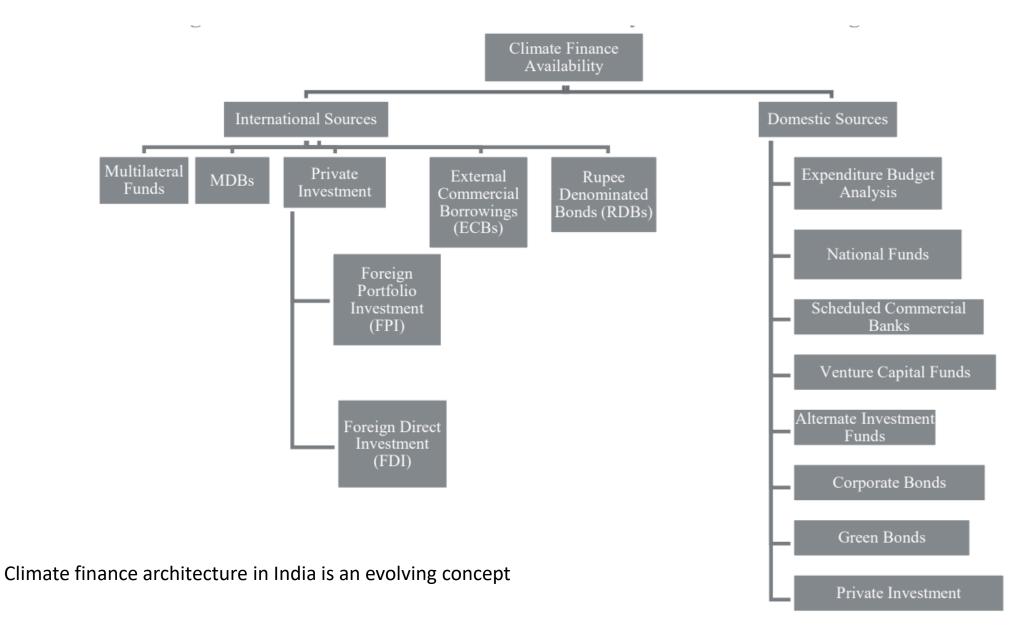
India and China are the highest seller of carbon credits, and the EU is the highest buyer of carbon credits.



Indian Climate Finance –

The Overview

Indian Climate Finance Architecture



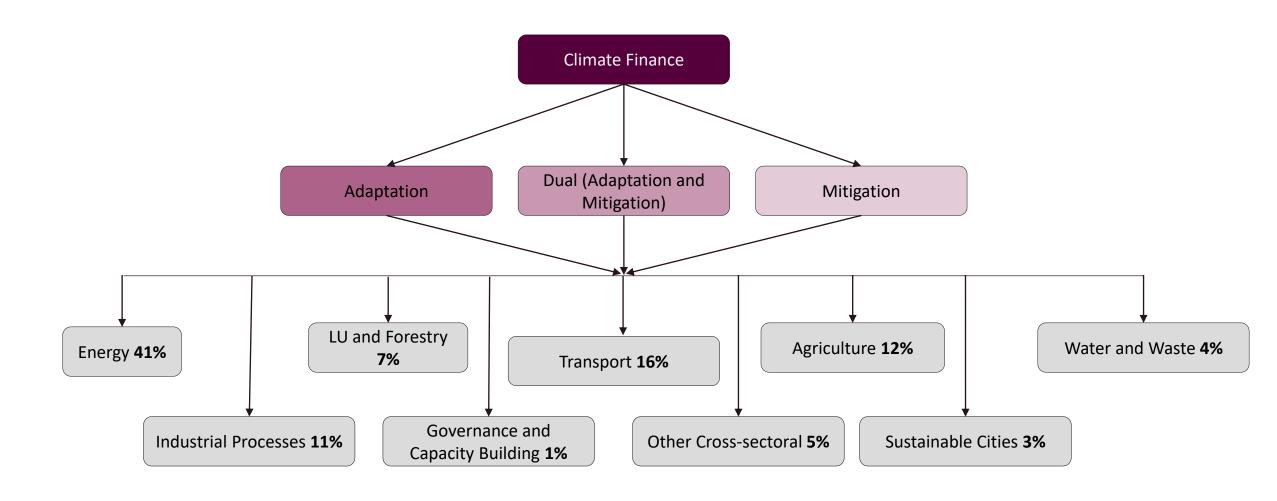
Source: Climate funds update, 2021

India's Requirement is 139 Billion USD in WASH sector by 2030

	Bandlades	Bhutail	mdia	Maldives	Helpa	Silanka	<0 ^{X2}
Renewable energy	\$3.2 billion	\$72 million	\$403.7 billion	\$55 million	\$2.1 billion	\$2.3 billion	\$411.4 billion
Large hydro	-	\$40.6 billion	\$44 billion	-	\$22.5 billion	\$190 million	\$107.3 billion
Green buildings	\$118.8 billion	\$390 million	\$1.4 trillion	\$200 million	\$3.4 billion	\$8.4 billion	\$1.53 trillion
Transport infrastructure	\$23.7 billion	\$615 million	\$250 billion	\$1.5 billion	\$10 billion	\$326 million	\$286.1 billion
Transport electric vehicles	-	\$322 million	\$667 billion	-	\$2.5 billion	-	\$669.8 billion
Municipal solid waste	\$4 billion	\$11.5 million	\$11 billion	\$46 million	\$83 million	\$3.5 billion	\$18.6 billion
Climate-smart urban water	\$13 billion	\$106 million	\$128 billion	\$86 million	\$686 million	\$2.7 billion	\$144.6 billion
Climate-smart agriculture	\$9.1 billion	\$140 million	\$194 billion	\$31 million	\$4.8 billion	\$964 million	\$209 billion
TOTAL	\$171.8 billion	\$42.3 billion	\$3.1 trillion	\$1.9 billion	\$46.1 billion	\$18.4 billion	\$3.4 trillion

India will require 139 Billion USD for WASH from 2021 to 2030 which means ~13.9 billion USD per annum

Globally WASH sector consists of 11% of total funding but in India, it is only 4%

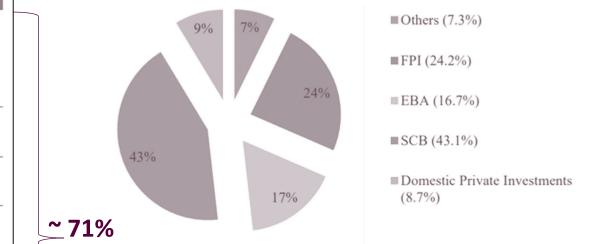


Globally WASH sector consists of 11% of total funding but in India, it is only 4%

Source: Climate Funds Update. 2021

70.8% of total climate finance is tapped from domestic market through grants, equity, loans, municipal bonds

Scale	Category		Instruments	
Domestic	Public	National and subnational budget, programmes, schemes National and subnational government loan Municipal government	Budgetary expenditure Grants-in-aid Equity, debt, municipal bonds	
		Development finance institutions like NABARD, SIDBI	Debt, equity, guarantee	
		Public sector banks like State Bank of India, Canara Bank, Central Bank of India, etc.	Soft loans, co-financing, green bonds	
		Non-Banking Finance Companies (NBFC) like Indian Renewable Energy Development Agency (IREDA) and Power Finance Corporation (PFC)	Debt	
	Private	Industries and businesses like Godrej, ITC, Tata, etc.	Equity, debt, grants,	
		Private sector banks like ICICI, Axis Bank, HDFC, IDFC	Loans, co-financing, green bonds	
		NBFC like L&T Infrastructure Finance, Tata Capitals and Venture Capital	Debt, green bonds Equity and debt	
		Philanthropy	Grants, equity	
International	Public	Multilateral and bilateral	Grants, loan, equity	
	Private	Philanthropy Foreign Direct Investment	Equity, grants, debt, loans	



FPI - Foreign Portfolio Investments

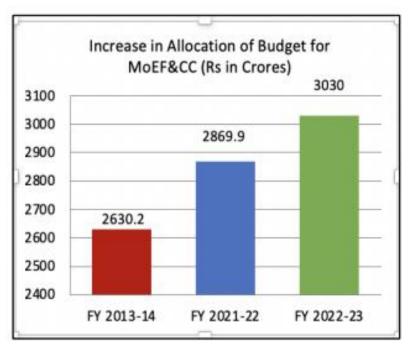
EBA – Expenditure Budget Analysis

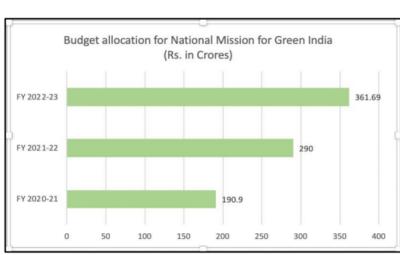
SCB - Scheduled Commercial Banks

Multilateral Funds; MDB; ECB; RDB; FDI; National Funds; Green Bonds.

~ 29%

Initiatives by Indian Government









the Indian market.

There is no policy for carbon trading in India. However, the bill was passed in 2022

GoI has set up National Bank for financing infrastructure and development (NaBFID)

NaBFID was established to provide a **supporting, technology-enabled ecosystem** across the life-cycle of infrastructure projects as a provider, enabler, and catalyst for infrastructure financing.

NaBFID bank gives funds for





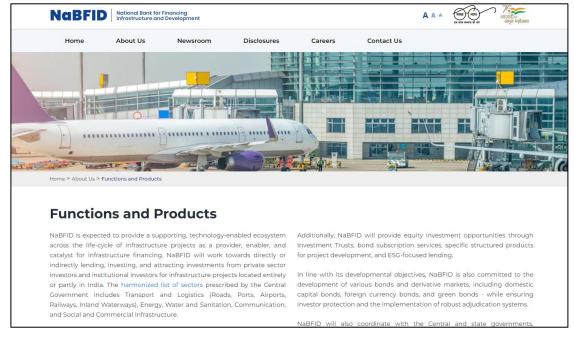






NaBFID gives funds at 7.9% interest (2023) through

- Term Loans
- Bonds or Debentures
- Guarantees
- Letter of Comfort



Source: https://nabfid.org/our-functions.php

Various Initiatives by States also helps in Financing Climate Projects



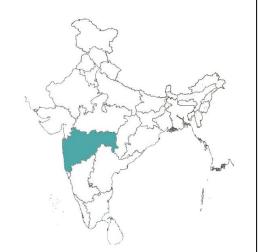
Maharashtra, Karnataka and Goa have provided financial assistance to state-level organizations and entities for climate change projects.

Gujarat, Rajasthan, Andhra Pradesh, Tamil Nadu, and Delhi have established a dedicated Climate Change Fund to support projects that are aimed at mitigating the effects of climate change.

Source: Secondary Sources 30

Majhi Vasundhara mission- great initiative by government of Maharashtra

- My Earth (Majhi Vasundhara) mission is the flagship program of the Environment & Climate Change Department, Government of Maharashtra.
- The aim of the initiative is to **raise awareness** among the citizens about the rising climate emergencies & address them by deploying local and specific **climate adaptation and mitigation measures.**
- Funding for MajhiVasundhara is done by the Government of Maharashtra



"माझी वसुंघरा" अभियान दिनांक २ ऑक्टोबर,२०२० ते ३१ मार्च, २०२१ या कालावधीत राज्यातील स्थानिक स्वराज्य संस्थांमध्ये

महाराष्ट्र शासन पर्यावरण व वातावरणीय बदल विभाग शासन निर्णय, क्रमांक : अभियान-२०२०/प्र.क्र.१३४/तां.क.-१

मादाम कामा मार्ग, हुतात्मा राजगुरू चौक मंत्रालय, मुंबई ४०००३२ दिनांक : १४ ऑक्टोबर, २०२०

प्रस्तावना

निसाांशी असलेली कटिबद्धता निश्चित करण्यासाती, निसगांशी संबंधित पृथ्वी, वायू, जल, अग्नी, आणि आकाश या पंवतत्वांवर पर्यावरण व वातावरणीय बदल विभाग कार्य कर्ततत आहे. पृथ्वी तत्वाशी संबंधित वनीकरण, वनसंवर्धन, घानकचरा व्यवस्थापन, संडपाणी व्यवस्थापन व जिनिनीच घुपीकरण इत्यादी बाबीवर कार्य करणे. वायू तत्वाची संख्या करता यावे म्हणून हवेच्या गुणवत्तेसाठी वायूप्रदूषण कभी करून हवेच्या गुणवत्ते सुधारणा करणे. अम्मी प्रत्यावाद कर्जिया प्रत्यावाद वायूप्रदूषण करणे. अम्मी प्रत्यावाद कर्जिया प्रत्यावाद वायूप्य वार्वाचा प्रत्यावाद त्रक्षण असलेल्या जागा, पडीक जिम्मी, होतांचे बांघ या सारस्थ्या जागांवर रावविणे आणि आकाश या तत्वास स्थळ व प्रकाश या स्वरुपात निश्चित करून मानवी स्वमावातील बदलांसाठी जनजागृती व शैक्षणिक कार्यक्रमांद्वारे जनमानासात विवचणे या प्रमुख वार्वीचा समावेश आहे. निसर्माच्या या पंवतत्वासोवत जीवन पद्धती अंगीकारत्याशिवाय आपण निसर्गासीक रूपणा राक्षणा रावि आणि जैव विविधतेचेही अस्तित्व राहणार नाही. म्हणून राज्यातील स्थानिक स्वराज्य संस्थाना सोबत घेवून तेथे या निसर्गाशी संबंधित पंवतत्वांवर आधारित जपाययोजना करून शाक्षत निसर्गाशी कोवनपथ्वती अवलंबिण्यासीठी स्थान संवीवार वीवाययोज वाव शासनाच्या विवायराषीन होती.

The initiative launched on 2nd October 2020. GR that was passed by Maharashtra govt.

The impact created by Majhi Vasundhara Abhiyan



3,70,978 tons of CO2 emission Reduction



21.94 Lakhs
Trees Plantation



10,663 tons
Compost production



Capturing 11,145 mn liters by RWH



1.4 Lakh units of electricity.

There are many hidden climate finance sources in the form of govt. schemes.



Aim – To make the city garbage free.

Objective -

- Sustainable Solid Waste Management (reducing GHG emissions)
- Sustainable Sanitation and treatment of used water (Ensures
 accessibility and reduces the GHG emission)
- Coverage of sewage and septage management. (reducing GHG emission)

Out of **10** project heads, **7** are directly linked with climate change mitigation and adaptation



Aim – To make city water secure.

Objective -

- Piped water supply coverage (Ensures the water source security)
- Coverage of sewage and septage management.(reducing GHG emission)
- Rejuvenation of water Bodies. (Ensures the accessibility of the water to the people)

Out of **28 projects, 24** are directly linked with climate change mitigation and adaptation

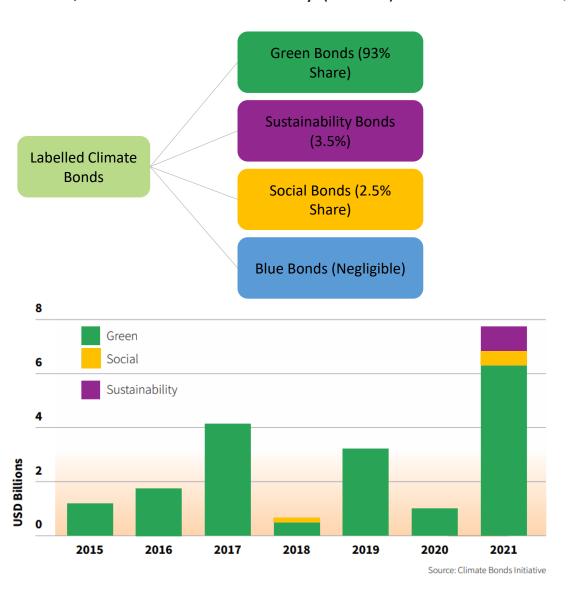
Source: SBM 2.0 and AMRUT 2.0 Guideline

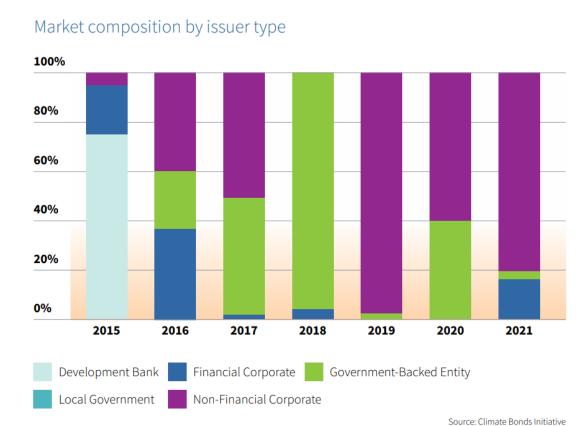
There are many initiatives and schemes rolled out by Indian government mostly it is at the state level, schemes and missions such as SBM and AMRUT, cities with ten lakh population only gets 25% of the total cost under these schemes, arrangement of the rest 75% of the funds is to be done by the ULBs through taxes, loans.

AMRUT 2.0 mentions raising funds for projects through municipal bonds

Labelled Bond Market in India

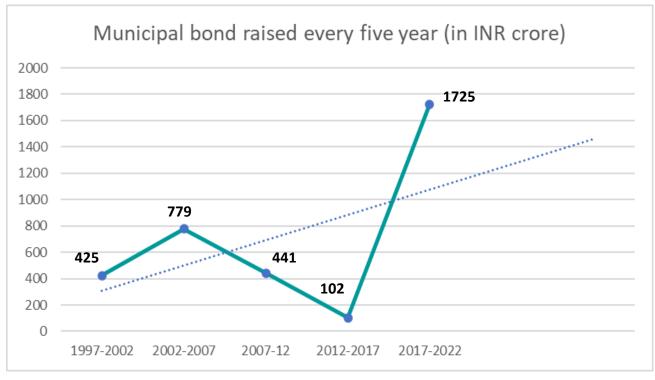
Green, social and sustainability (bonds) in India were US\$19.5 billion as of Dec 2021.

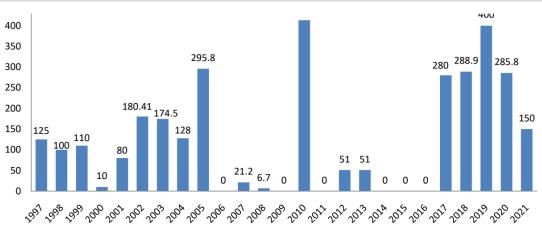




Currently, Green Bond issuers are financial and non-financial corporate in India. **Non- Financial Corporates** have increased as bond issuers.

Municipal Bond Market in India has increased in last five years



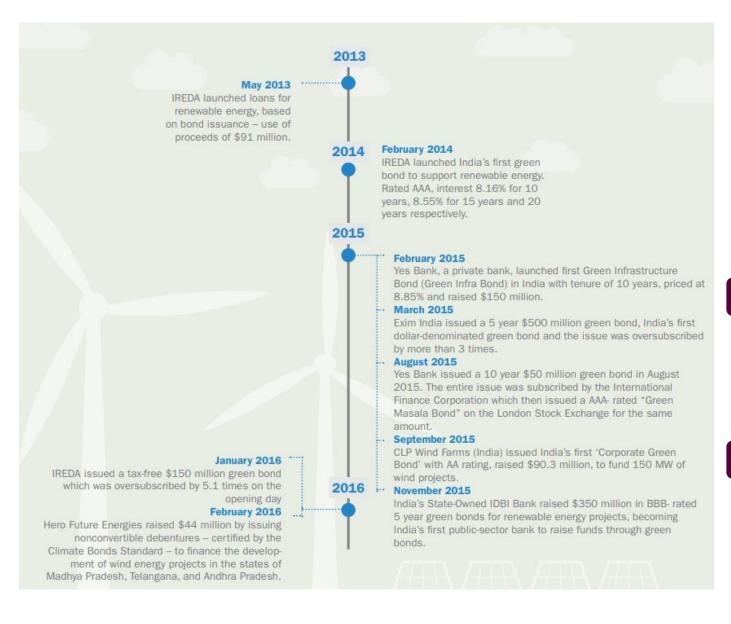


■ Trend of Municipal Bonds issue in India

The municipal bond market in India has **tremendously increased** in the last five years from 2017-2022

The bond market declined from 2012-2017, however, in 2017 due to the Government of India offering an incentive of 13 crores to cities on raising municipal bonds of 100 crores, the bond market picked up.

Evolution of Green Bond Market in India



- Green Finance started when IREDA launched the first green loan for the renewable energy sector
- 2014 First green bond was issued by IREDA.
- In 2015 YES Bank and various other entities started investing in Green bonds.
- 2022 India approved and issued its first sovereign green bonds framework.

Benefits for the receiver

Generally, green bonds are on 0.15-0.20% lower
interest than conventional bonds and SEBI gives an
extra 2% interest or 13cr on 100cr incentive on of the
green bonds.

Benefits for the issuer.

- Some companies focus on returns and want to invest in a green project for their portfolio.
- Green and social bonds are associated with lower longterm risk compared to conventional bonds

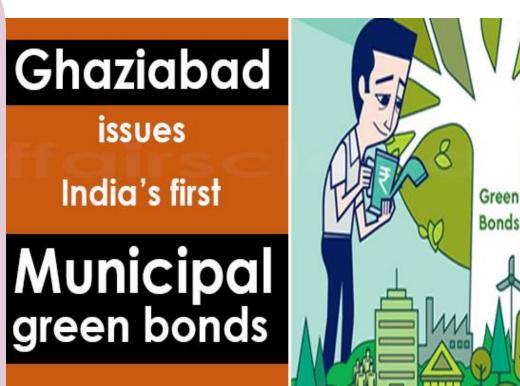
Tier 1 ULBs meeting its Financial Demands by Issuing the Bonds

Sr. No.	City	Bond Name	Year	Total Ammount (in Crores)	Projects	Investors	Coupon Rate	Maturity (in Years)	Key Benefits and Incentives	According to concept, green
1	Pune	Municipal Bond	2017	200	24 x 7 Water Supply	N.A.	7.59%	10	2% Interest Subsidy by Central Government to PMC	bonds should have a lower
2	APCRDA	Municipal Bond	2018	2000	WTP and STP	N.A.	10.32%	10		interest rate
3	Bhopal MC	Municipal Bond	2018	175	N.A.	N.A.	9.55%	10		interest rate
4	GVMC	Municipal Bond	2018	80	N.A.	N.A.	10.00%	10		However, the interest rates of
5	GHMC	Municipal Bond	2018	200	N.A.	N.A.	8.90%	10		,
6	GHMC	Municipal Bond	2018	195	N.A.	N.A.	9.38%	10		green bonds and municipal
7	MMRDA	Munea Band	2019	75	N.A.	N.A.	7.17%	5		bonds were similar.
8	Municipal Corporation of Greater Mumbai		2020	500	sewage treatment plants, the installation of solar panels, and the development of green spaces.	N.A.	7.59%	10		bolius were similar.
9	Lucknow	Municipal Bond	2020	200	N.A.	N.A.	8.50%	10	Incentive of 13 cr by Gol	First green bond was issued in
10	Ghaziabad	Green Bond	2021	150	Tertiary Treatment Plant, Other Goals Related to Water Supply	A. K. Capital Services Ltd. , HDFC Banks	8.10%	10	2% Interest Subsidy by Central Government to GMC	India by Ghaziabad Municipal
11	Vadodara	Municipal Bond	2022	100	N.A.	N.A.	7.15%	5		Corporation
12	Indore	Green Bond	2023	244	Solar Plant	Maximum retail investors	8.25%	3,5,7,9	13 Cr on every 100Cr	·

Some of the Municipal green bonds also have been awarded 2% of interest subsidy

Ghaziabad was the first ULB to issue Green Bond

- Ghaziabad Municipal Corporation issued its first green bond in March
 2021.
- The bond was issued with a tenure of 10 years and a coupon rate of 8.10%.
- The funds raised through the bond issuance were intended to finance infrastructure projects like roads, flyovers, water supply and sewage projects, etc. in Ghaziabad.
- The Ghaziabad Municipal Bond has been rated AA- by the credit rating agency ICRA.



Ahmedabad Municipal Corp has successfully issued five municipal bonds in 1998...2020

mecha rating a

Over 25% of AMC's municipal bond investments were made by individuals in 1998 (on 7 year tenure).

AA+

100_{CR}

25%

14%



Credit Rating

Amount

Public Funding

Coupon Rate

Water Supply and Sewerage Projects

Oversubscription of AMC bond by 5.42 times in 2021 (Municipal Bond for Green Projects)

AA+

200_{CR}

5year

8.7%



Credit Rating

Amount

Maturity

Coupon Rate

Water Supply and Sewerage Projects Cleaning Sabarmati

Over 70% of UK green bond investments are made by individuals.







4%

Tax Exemptions

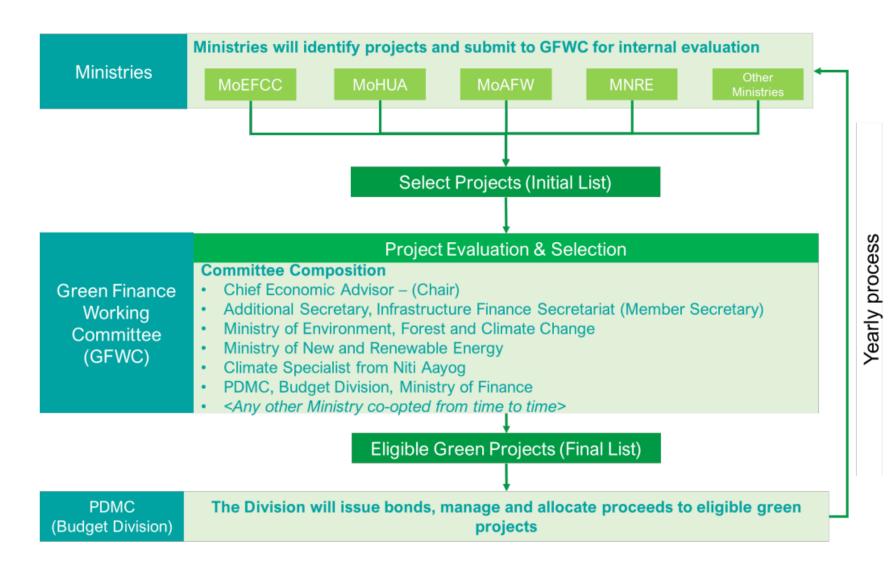
Mutual Funds

Federal Schemes

Average Interest Rate (10 years)



RBI's sovereign, green bond framework



In India, the following process is followed.

- Identification of the list of project
- Prioritizing the projects by GFWC
- And Issuance of the Green bonds
- It is a yearly process

RBI's sovereign, green bond framework needs to be strengthened!

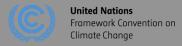
- The RBI green bond framework prioritizes environmental objectives but lacks clear guidance on social issues.
- Some stakeholders are concerned about the potential for greenwashing due to the lack of specific definitions for "green" projects.
- Continued monitoring and improvement are needed to ensure the framework's effectiveness and impact.
- Greater transparency and accountability in reporting on green bond proceeds is necessary.
- International best practices and standards, such as those developed by the International Capital Market Association,
 should be considered for strengthening the framework.
- The green bond framework has the potential to drive sustainable development, but its limitations and grey areas must be addressed.

There is a huge potential for green bonds in India as there are proper guidelines and incentives by the government. But lack of awareness, capacity and creditworthiness are the main challenges faced by the ULBs which need to be improved.



Evolving carbon credit market in India

Who manages Carbon Trading in India?



The Clean Development Mechanism (CDM) Authority of India monitors the carbon credit market in India under UNFCCC

Who approves carbon credit in India?



The Union government or any approved agency is given the authority to issue "carbon credit certificates" for the reduction of carbon emissions to registered enterprises under Section 14 of the bill. The market can then be used to sell these credits.

Who are currently trading Carbon Credits in India?



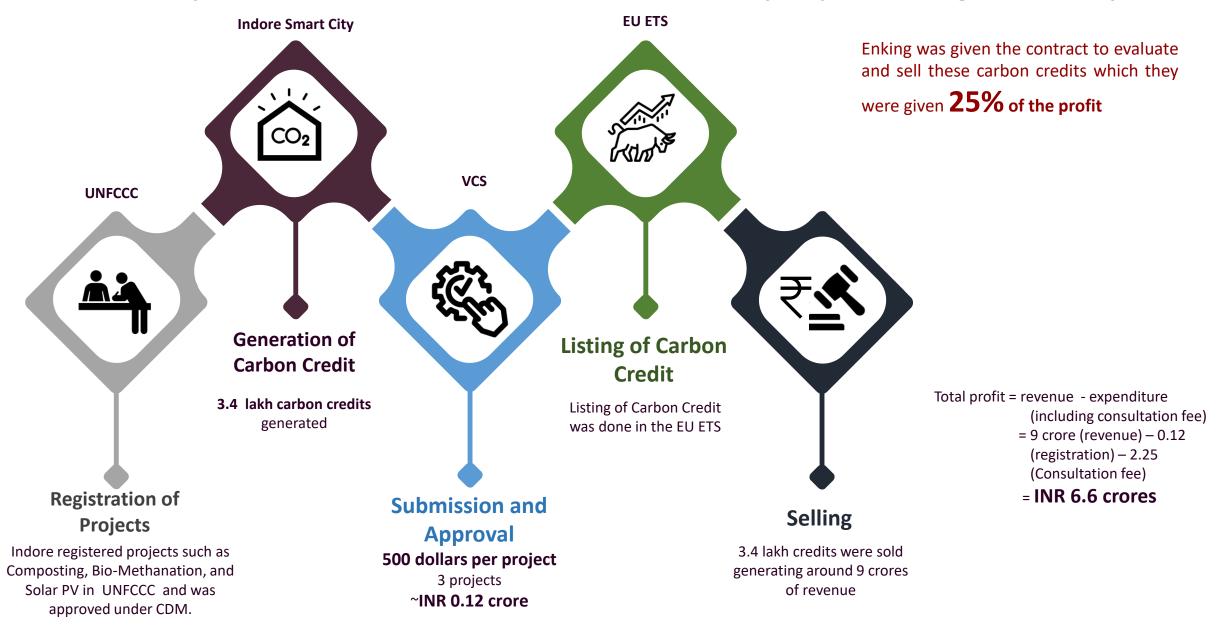
There are several companies that are currently buying carbon credits in India, including the Adani Group, the Tata Group, Reliance Industries, and the Mahindra Group.

Why these companies are trading Carbon Credits in India?

These companies are trading carbon credits in India in order to comply with the emission regulations set out by the Indian government, as well as to offset their own carbon emissions in order to reduce their carbon footprint.

Source: Secondary Sources 4

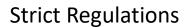
Indore Smart City Generates 6.6 Crores of Profit in 3 Years by Implementing Green Projects



Source: Indore Smart City 45

The European Union is the top importer of carbon credits, at High Price.







Carbon Tax



Proper Policy



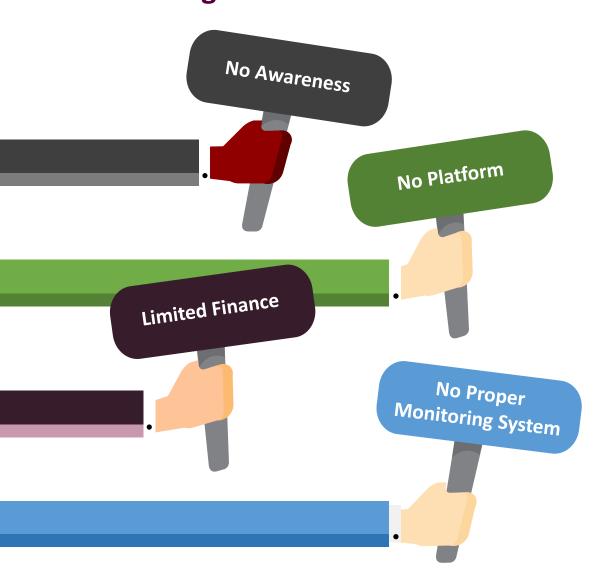
Dedicated Carbon Trading Platform



Average Price (2005 - 2022)

Source: Secondary Sources 46

Awareness and lack of a dedicated platform is the main Problem in the expansion of Carbon trading market



Lack of Awareness

There is still a lack of awareness about carbon credits among the general public, which is a major obstacle to the successful implementation of the carbon credit scheme in India.

Lack of Standardization

India lacks standardization in the carbon credit market, making it difficult for participants to accurately measure and assess the amount of carbon credits available for trading.

Limited Access to Financing:

Access to financing remains limited for projects which are eligible for carbon credits. As a result, many projects that could potentially benefit from carbon credits are not taking full advantage of the scheme.

No Proper Monitoring trading System

There is no existing Emission Trading System and no proper accounting of carbon credits is being done at India level

Source: Secondary Sources 47



Summary of Key

Challenges and

Recommendations

Summary of Key Findings and Recommendations

- Globally though there is a flow of climate finance from developing countries, mostly through multi-lateral banks to developed countries- disbursements are not enough for the WASH sector.
- There is an enabling environment for climate finance in the Indian market- which needs to be strengthened through policy and framework at state and ULB levels.
- ULBs are not self-sufficient in raising funds through capital markets.
- In India, there is a huge place for municipal and green bond markets however, incentives are given to larger municipal corporations and the cap of the amount raised through bonds is very high. Thus, tier 2 and tier 3 cities cannot access the bond instrument. Also, ULBs should be given additional incentives for raising capital through green bonds, in addition to the 13 crore incentives which are already given.
- To make the enabling environment for the carbon credit market India, needs to **implement a comprehensive Carbon** tax policy.
- Ring Fencing approach can be made for climate-related initiatives.
- There needs to be a proper policy on carbon trading

Reflections from experts on Climate Finance for Cities

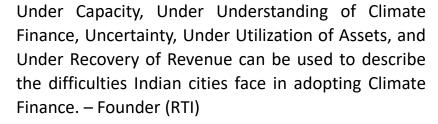
Capacity building is a crucial component. Economic industrial infrastructure is weak. - Kunal Kumar (JS -SCM, MoHUA)







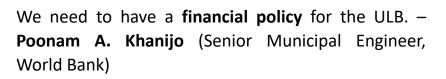
'De-jargonise to decarbonise' – Central and stage agencies should look at the financial architecture from the perspective of ULB. - Hitesh Vaidya (NIUA -Director)







To lower implementation barriers, India's top priority is to develop a standardised taxonomy for climate finance at the national level that can then be adopted by the cities. - Neha Kumar (Head of South Asia, Climate bond initiative.







Augmenting Own Source Revenue Improving the Creditworthiness of ULBs through allaround efficiency improvement. - Ravikant Joshi (Urban Finance and Management Specialist)

Local city-level participation should be strengthened. - Bruno Bosle, Country Director (Country, AFD)





The key issue is cities are **not able to pipeline** the project. – Wendy Werner (IFC)

No dedicated Platform for Carbon Trading – Senior Executive, Mitcons (Carbon Trading Consultants)





The process of accessing international climate funds requires too much investment in making reports and feasibility studies. - Neha Dave (STP Department, AMC)

Is City Climate Action made?

Is the taxonomy of Climate projects made?

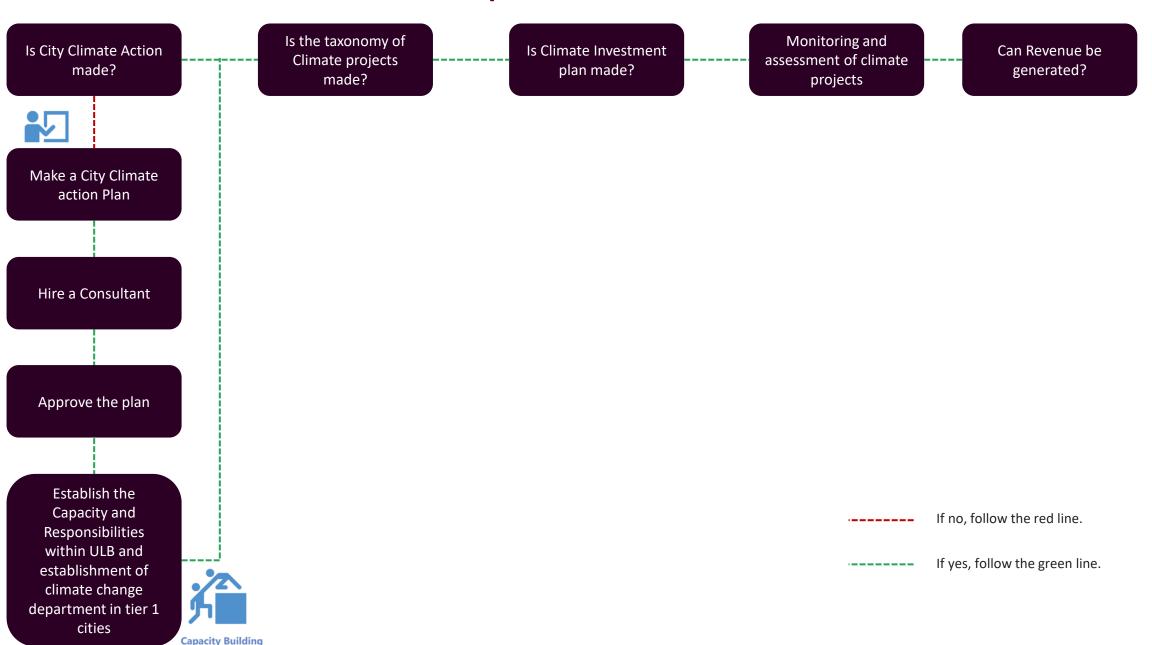
Is Climate Investment plan made?

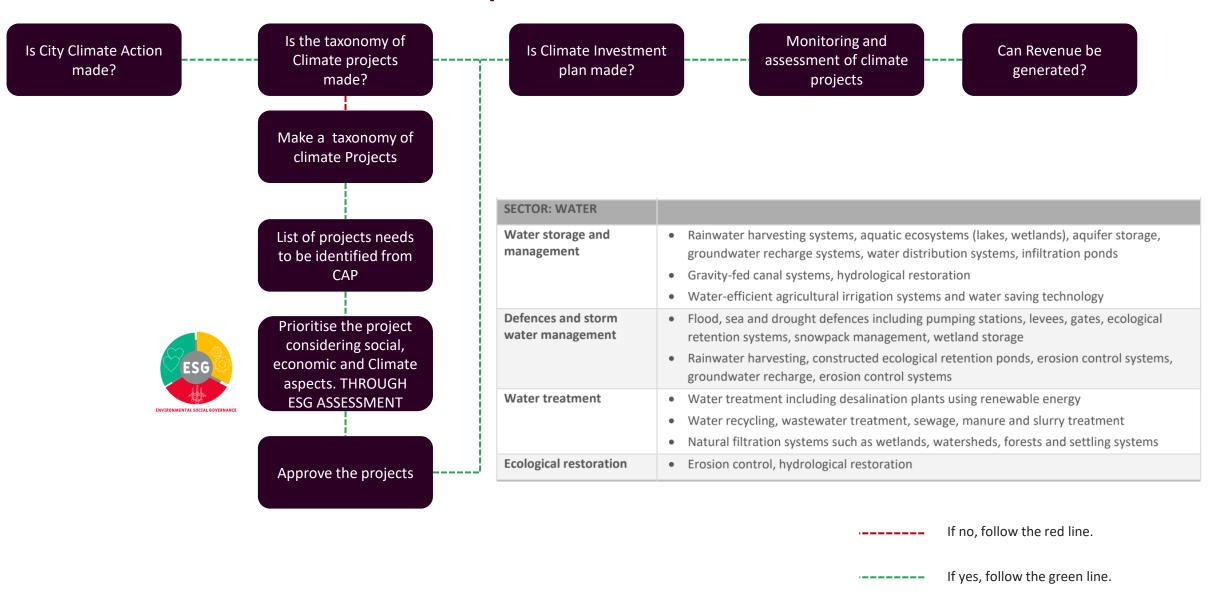
Monitoring and assessment of climate projects projects

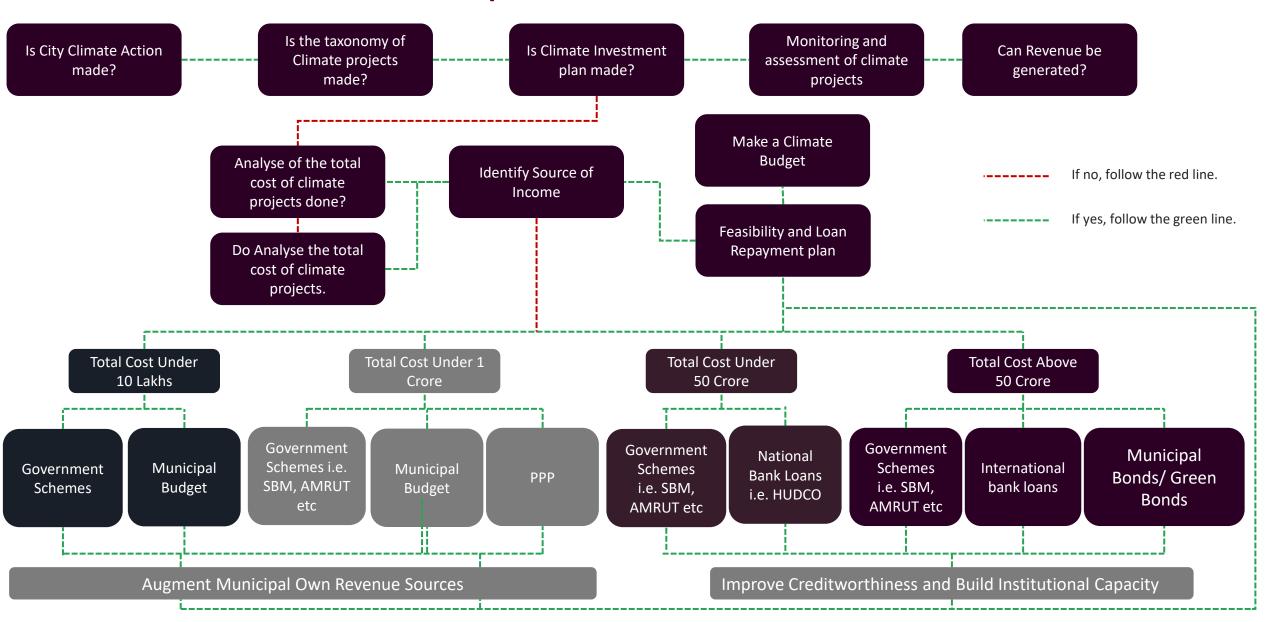
If no, follow the red line.

--- If yes, follow the green line.

& Leadership







If no, follow the red line.

