## Climate Bonds

# Channelling trillions into climate solutions through GSS+ bond

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#### **Our Partners**





































































































































































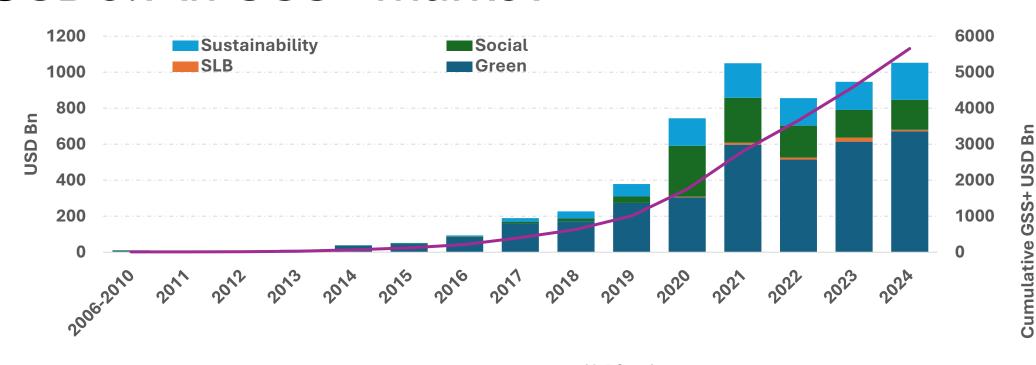








# Creating impact: Climate Bonds has driven a USD5.7tn GSS+ market



2010 Climate Bonds Initiative launched

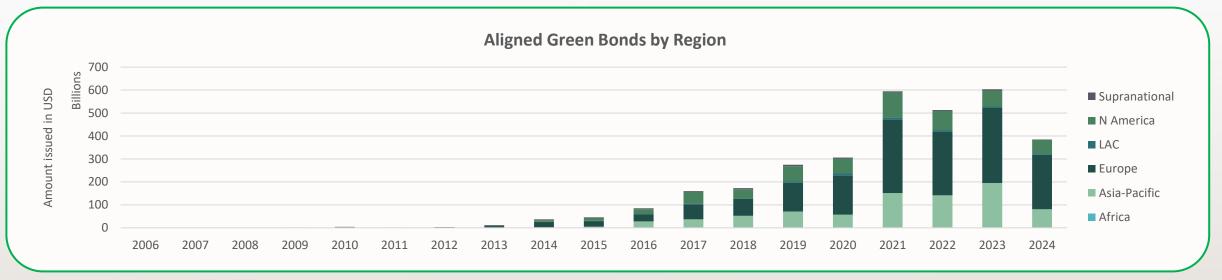
2012 Climate Bonds Taxonomy released 2014 Climate Bonds advises People's Bank of China on its taxonomy and related regulations. By 2023, China is world's largest green bond market. 2017 Climate
Bonds
recommendations
inform the EU
Commission's
Sustainable
Finance Taxonomy.

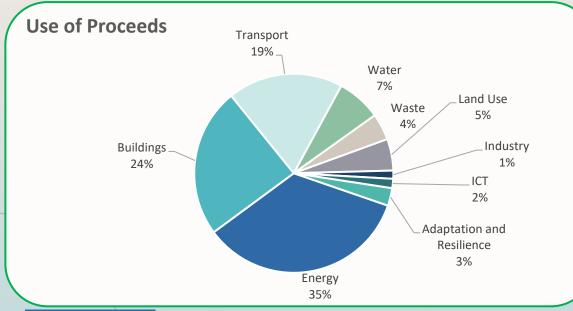
2017 Greenium: Climate Bonds' begins a seven year research project demonstrating green bond pricing benefits for issuers and investors

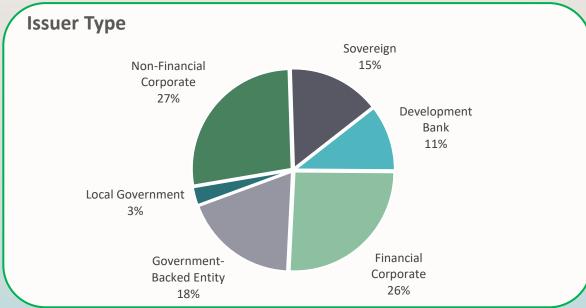
2020 Climate Bonds' Principles for a Credible Transition published. 2024 Climate Bonds Certifies Japan's debut USD11bn transition bond

2024 cumulativ e aligned GSS+ volume reaches USD5.7tn

## **Green Bonds**







#### **Benefits of Green Bonds**



#### **INVESTOR BENEFITS**

- Comply with regulation
- Invest in sustainable products and initiatives without taking on additional risk
- Develop better-informed investment strategies
- Broaden restricted investment portfolios
- Remove cost of environmental due diligence



#### **ISSUER BENEFITS**

- Increase investor demand and diversification
- Improve relationships with debt providers
- Strengthen issuers' leadership
- Enhance issuers' reputation and brand value
- Help communicate issuers' sustainability narrative and strategies
- Boost integration between finance and sustainability teams



#### **SYSTEMIC BENEFITS**

- Stimulate positive stock market reaction and improvements in financial performance
- Foster green innovations
- Help transition towards low-carbon and resourceefficient economies
- Contribute to publicprivate-partnerships development opportunities
- Facilitate climate policies

## Pricing and greenium in labeled market

### Bookbuilding

- •Green bonds tend to attract larger book cover than vanilla equivalents
- •Green bonds tend to experience larger spread compression than v.e.



- •20% greenium, 30% on the curve, 50% normal new issue premium
- •53% average of green bonds placed with investors describing themselves as green

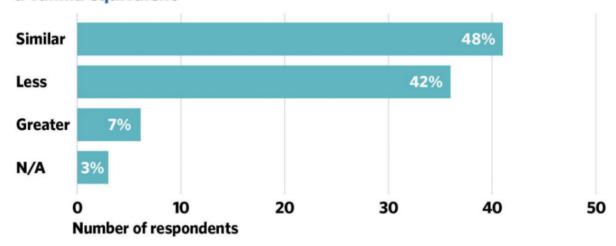
Secondary

- •Green bonds tend to tighten more than equivalent indices in the secondary market
- •Green bonds tend to tighten more than vanilla baskets in the secondary market



## Most respondents advised that the costs of funding a green bond were similar to or less than a vanilla equivalent





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**Green Bond Treasurer Survey 2020** 

## **Green bond issuance process**

## The Journey of Issuance

#### **Pre-Issuance**



- Get rated
- Get market intelligence on currency,tenor, size
- Decide on underwriters
- Register with local regulator
- Issue prospectus
- Comfort letter / due diligence
- Outreach through road shows and sales



- 1. Preparation
- 2. Define how project meets green bond eligibility criteria (Use of Proceeds)
- 3. Put in place project selection process and select eligible projects (Selection of Projects and Assets)
- 4. Set up accounts and process to earmark and allocate proceeds ringfence the proceeds (Management of Proceeds)
- 5. Establish Reporting processes
- 6. Get pre-issuance external review (External Review)
- · Check for support mechanisms

#### Issuance



Build the book of investors who are interested in the bond



Include the green attributes in marketing materials and investor documents

#### **Post-Issuance**



Price and allocate bond to support secondary market performance

- Communication to the capital market
- Monitor secondary market



Green Bonds



Vanilla Bonds



Allocate proceeds to the projects

- Monitor the projects and track allocation over time
- Publish impact Report
- Post issuance Audit if necessary



## **Adopting guidance**











ASEAN TAXONOMY FOR SUSTAINABLE FINANCE



Aligned with ICMA's principles

Aligned with

and
MDB criteria

Alignment with

ICMA's principles,
MDB criteria
and
EU taxonomy

Alignment with

ICMA's principles,
MDB criteria,
EU taxonomy
and
CBI criteria



Do No Significant Harm and Social Safeguards



## The role of key stakeholders

#### **UNDERWRITERS**

- Strategy & market proposition for the issuer
- Co-design GSS+ bond framework
- Ensure sustainable alignment
- Advice on pricing
- Create a bridge between issuers and investors

Goldman Sachs

Santander

Jefferies

ABN AMRO

Credit Suisse

- Market education
  - BofA Securities
  - Citigroup
  - JP Morgan
  - BNP Paribas
  - Morgan Stanley
  - Credit Agricole
  - ING
  - Societé Générale
  - Deutsche Bank

#### **INDICES**

- Climate Bonds provides green bond data to many index providers
- Different methodologies not all labelled bonds are included
- Increasing focus on the ESG and sustainable credentials of the issuer.
- Provide a benchmark of performance
  - S&P Dow Jones Indices
  - MSCI
  - Barclays
  - FTSE Russell
  - Bloomberg
  - Morningstar
  - CRSP
  - Solactive
  - · JP Morgan ESG indices

#### **EXCHANGES**

- Key actor for market development
- Often assume a regulator role
- Bring corporations and governments together with investors
- Ensure trading occurs in an orderly and fair manner

#### **Green Bonds**

 Oslo, Mexico, Luxembourg, Johannesburg, Brazil, Frankfurt stock exchanges

#### **Sustainable Bonds**

Stockholm, Taipei, London, Nigeria, Toronto stock exchanges

#### **GSS Bonds**

• Euronext, Argentina, Hong Kong, Korea, Singapore stock exchanges



## The Issuance Process for Sovereign UoP Bonds

Engage governmental stakeholders



Establish a Bond Framework



Identify eligible budget items



Monitor and report



Issue the bonds

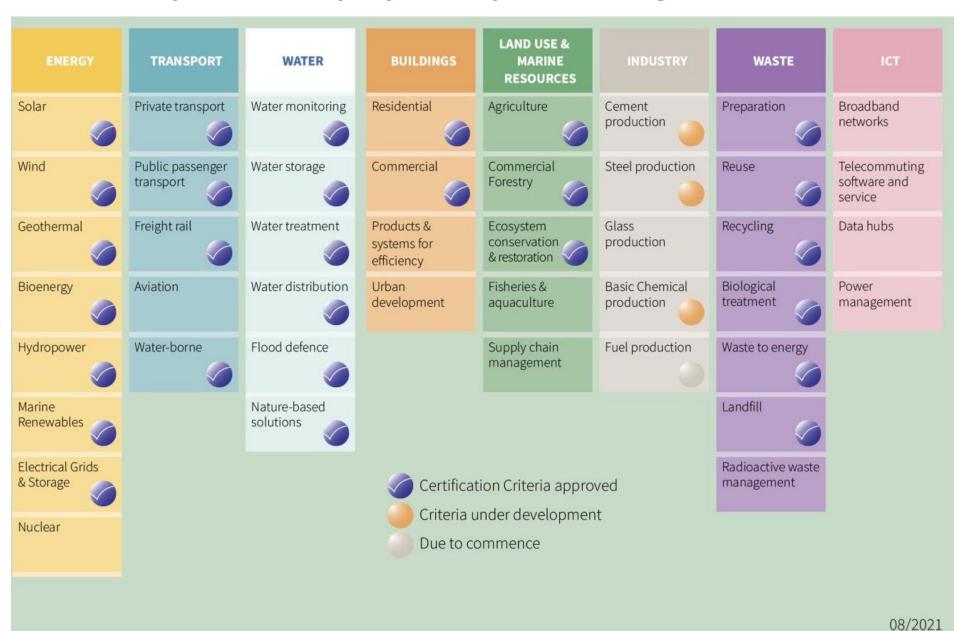


Arrange independent review



## Green/Climate Bonds Taxonomy – tool to rapidly identify climate-aligned investments

- 8 broad categories of economic activity - climate mitigation and climate resilience/adaptation
- Provides widely accepted definitions for frameworks such as 'climate finance/investment' and 'carbon neutrality'
- Currently accounts for 18% of global labelled green bond issuance with more than 40 CBIaccredited certification bodies worldwide provide third-party certification



## Taxonomies comparison

LIST OF TAXONOMIES	STATE OF DEVELOPMENT Published/In Development or Consultation/In Discussion	<b>DEVELOPMENT ENTITY</b> government-central bank/Other/Uncategorised	<b>REGIME</b> Voluntary (V)/Mandatory (M)/To be determined (TBD)	APPROACH Activity-specific/High level principles	MEASUREMENT CRITERIA Sector based thresholds/Other
ASEAN	Published	Govt - central bank	V	High level principles	Other
Bangladesh	Published	Govt - central bank	M	Activity-specific	Sector based thresholds
Canada	In Development/Consultation	Other	V	High level principles	Not yet stated
CBI	Published	Other	M	Activity-specific	Sector based thresholds
Chile	In Development/Consultation	Other	TBD	Uncategorised	Sector based thresholds
China	Published	Govt - central bank	M	Activity-specific	Other
Colombia	Consultation	Govt - central bank	V	Activity-specific	Sector based thresholds
EU	Published	Govt - central bank	M	Activity-specific	Sector based thresholds
India	In Development/Consultation	Govt - central bank	TBD	Activity-specific	Not yet stated
Indonesia	Published	Govt - central bank	V	Activity-specific	Traffic light criteria
IPSF	Published	Govt - central bank	V	Activity-specific	Not yet stated
ISO	Published	Other	V	Uncategorised	Other
Japan	In Development/Consultation	Govt - central bank	TBD	High level principles	Other
Malaysia	Published	Govt - central bank	M	High level principles	Sector based thresholds
MDBs-IDFC	Published	Other	V	Activity-specific	Other
Mongolia	Published	Govt - central bank	V	High level principles	Other
Philippines	In Development/Consultation	Govt - central bank	TBD	Not yet stated	Not yet stated
Russia	Published	Govt - central bank	V	Activity-specific	Sector based thresholds
Singapore	In Development/Consultation	Govt - central bank	TBD	Activity-specific	Sector based thresholds
Sri Lanka	In Development/Consultation	Govt - central bank	TBD	Not yet stated	Not yet stated
South Africa	In Development/Consultation	Other	V	Activity-specific	Sector based thresholds
<b>South Korea</b>	Published	Govt - central bank	M	High level principles	Sector based thresholds
Vietnam	In Development/Consultation	Govt - central bank	TBD	High level principles	Sector based thresholds

In discussion: Australia, USA, Georgia, Thailand, Dominican Republic, Hong Kong, Mexico













## **Expanding frontiers: Climate Bonds is developing clear definitions for adaptation and resilience activities**

- Adaptation and resilience (A&R) means future-proofing economies, ensuring communities, nature, and businesses can thrive in a changing climate.
- Mobilising adaptation finance is especially important in developing countries with negligible emissions adaptation finance has currency and buy in where mitigation does not.
- Global goal on adaptation and resilience is a central component of the Paris Agreement

#### Risk and impacts are intensifying

- 40% (3.6bn people) live in high-risk areas
- Weather disasters up 400% in 40 years → USD2.9tn in damages
- Agricultural yields could drop 30% by 2050
- One million species are at risk of extinction

### **Opportunity to grow investment**

- Estimated USD194–366bn annual finance gap (10–18x current flows)
- 95% of adaptation finance comes from the public sector—private capital must be channelled



03 Taxonomy Database

Enabling measures

110

**Enabling** activities

125

**Investment Types**The total of 1444 climate

investments have been identified in this phase of

development.

Adapted activities

243

Adapting measures

966

## Climate Bonds

Agri-food systems

84

Resilient Natural Systems

36

Resilient social systems

Resilient Health Systems

82

Resilient Infrastructu re

36

**Resilient Theme** 

The total of 429 automatically eligible investments have been identified.

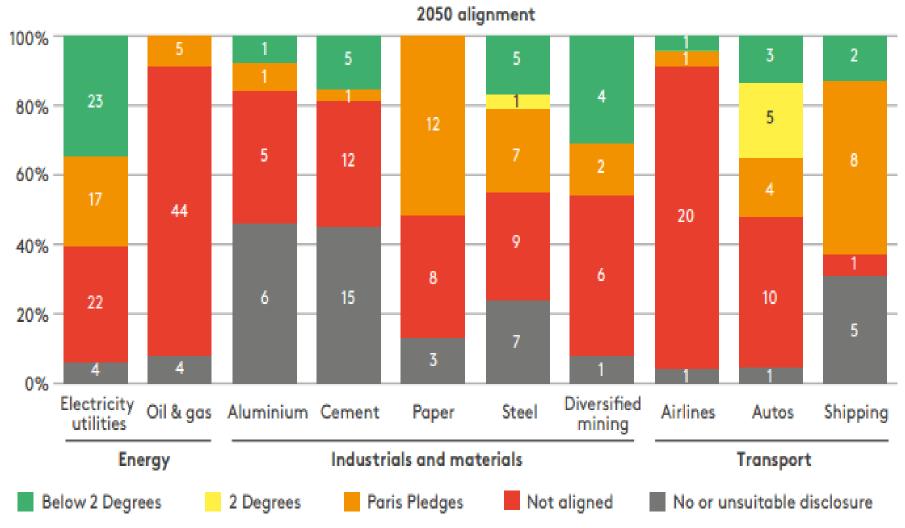
Resilient
Industry &
Commerce

72

Resilient
Cities &
settlements

93

## Future steps - most sectors will see major transformation







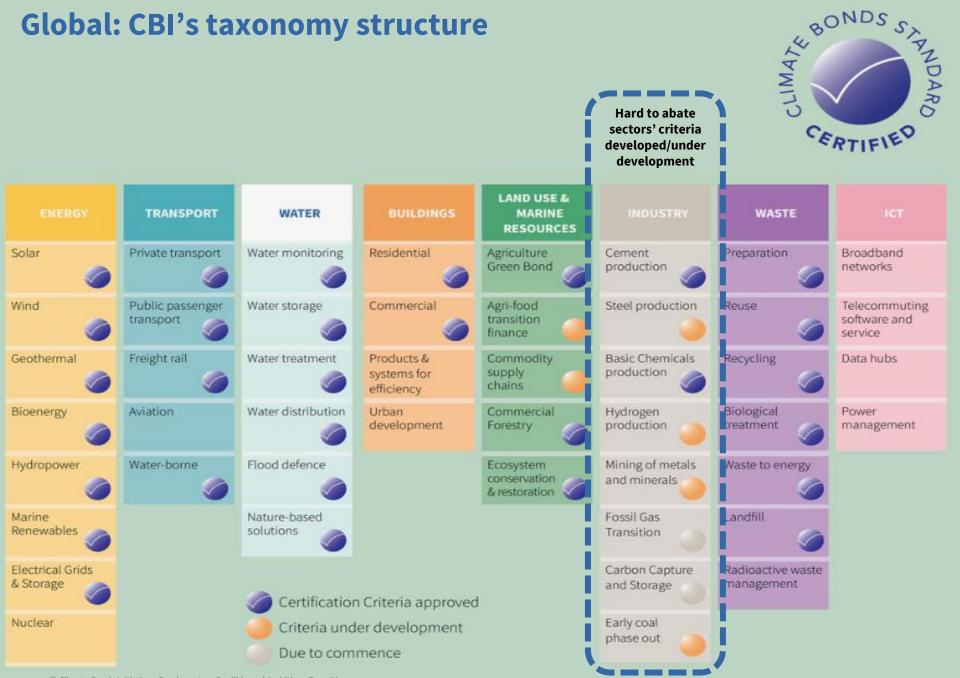








## **Global: CBI's taxonomy structure**



## Big opportunities and challenges for GSS+ bond market in Asia

#### **Opportunities**

- Countries reaffirming climate targets NDC updates
- Demand outstrips supply
- Investment opportunities in the new sectors TMT, Hydrogen, EV, Food&Ag, SAF, Methane
- Transition of hard-to-abate sectors
- Resilience & adaptation (A&R) financing
- Green sovereign and muni issuance links to economic stimulus
- Green windows

#### **Challenges:**

- Standard alignment
- Incentives and cost allocation
- Capacity limit
- Silos
- Climate target gaps











