Bonds and Climate Change

The State of the Market in 2014

London 17 July

















Context: \$45 trillion of "interest"

\$80^{tn} assets under management

\$30^{tn} Pension funds – 19 out of 20 are public sector

\$27^{tn} Insurance

\$3^{tn} Sovereign wealth

\$20^{tn} Mutuals & Foundations

Local pension funds





50-60% bonds









GLOBAL INVESTOR COALITION ON CLIMATE CHANGE





Making it easy for investors

'Green Bonds Market': proceeds are for climate/ environmental projects and they are labelled as 'Green', Climate' or 'Sustainable' (or maybe 'Blue').

'Climate-themed bonds universe': proceeds are directed to climate projects, but both labelled and unlabelled bonds.

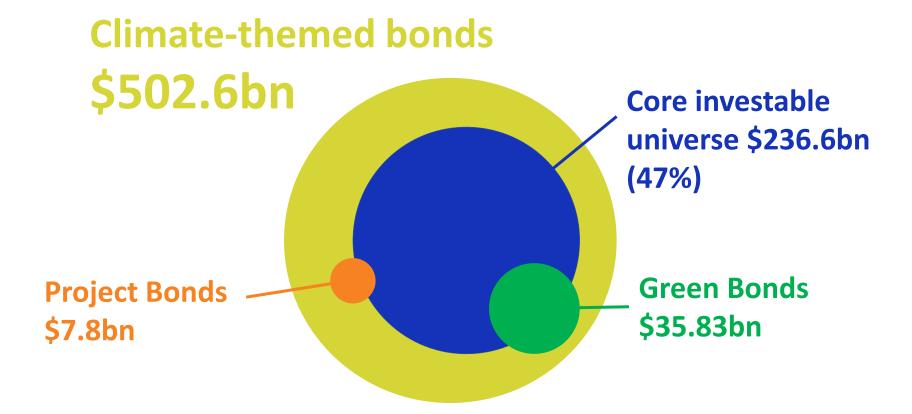
Unlabelled universe indicates where future bonds can be labelled.

Labelling = Discovery for investors





Findings







Green Bonds Estimated \$40bn+ Large growth in 2013 and 2014 \$35 bn Last year = \$7bn outstanding, now \$35bn outstanding \$30 bn Growth driven by large corporate issuances EDF, EUR1.4bn (\$1.9bn) \$25 bn GDF Suez, EUR2.5bn (\$3.5bn) Largely ring-fenced DFI or corporate \$20 bn \$18.3bn \$15 bn \$11bn \$10 bn \$4bn \$5 bn \$3.1bn \$414m \$909m \$1.2bn \$809m \$0 bn 2007 2008 2009 2010 2011 2012 2013 2014





The Basics

Proceeds to Green

- Proceeds to ring-fenced green projects
 - Labelled and Unlabelled market

INTELLECTUAL FOUNDATIONS

- •Ring-fence to give comfort without risk - from DFIs
- •Equal yield & rating, with green as bonus feature
- •Keep it vanilla no fussy coupons

Any entity

- Governments & DFIs
- Corporates this year's growth area
- Asset owners: PPPs, banks, utilities, etc
- •Yes it's packaging (that highlights purpose).
- Bond markets start with high grade issuance. Material benefits take 2-5 years, after we get momentum

Reporting

- Substantive green criteria
- Independent review
- Reporting on use of proceeds

Simplicity+Trust

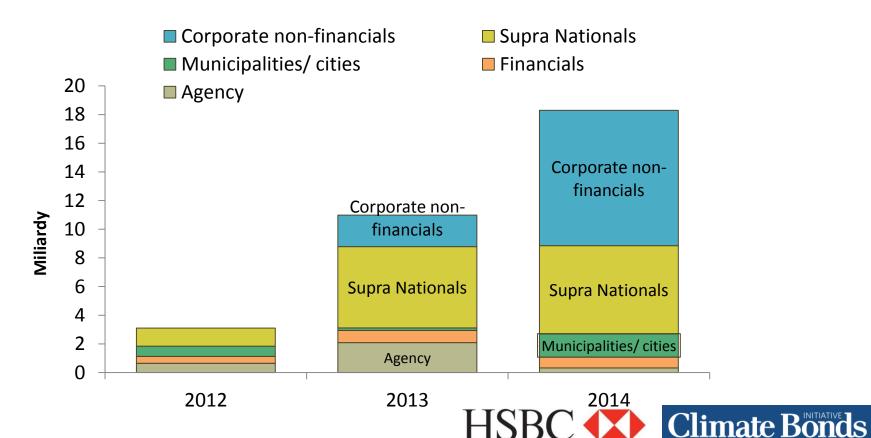
Verified labeling will drive growth to the next stage





Green Bonds issuer type are changing

- Growth in issuance is coming from corporations and municipalities
- Supra-National issuance remains strong



Green Bond Principles





The banks are getting into the act. That means global

- Stressing it's about assets not companies
- Transparency & reporting central

BARCLAYS

BMO











































DZ BANK







From DFI seeds



Benefits

Investor Diversification (reputation?)

SRI investors \$13tn global

\$32tn pension + insurance funds signing climate statements

Corporates!



Tenor?



Price? Cost vs illiquidity premium battle

Tightening? Johburg, GDF Suez, Hera

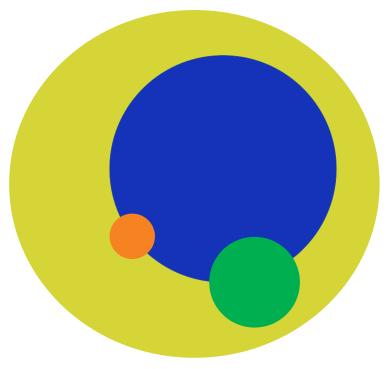




Findings

Climate-themed bonds

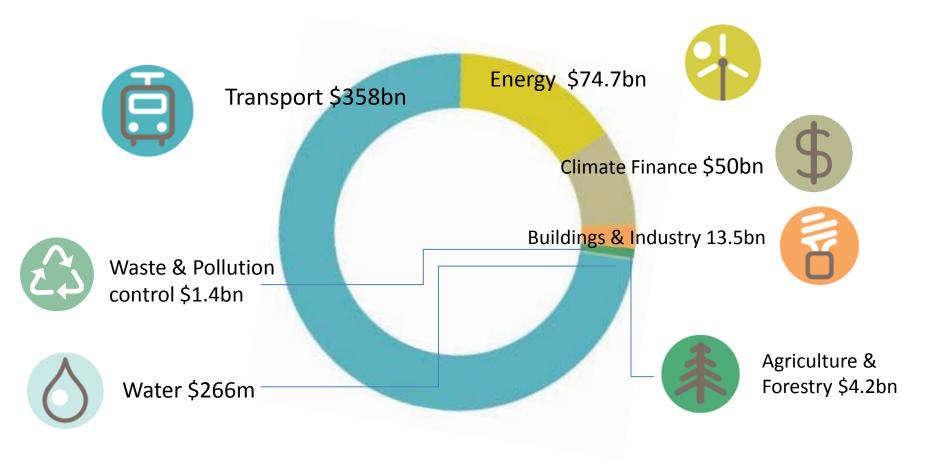
\$502.6bn







Results: Climate-themed bonds



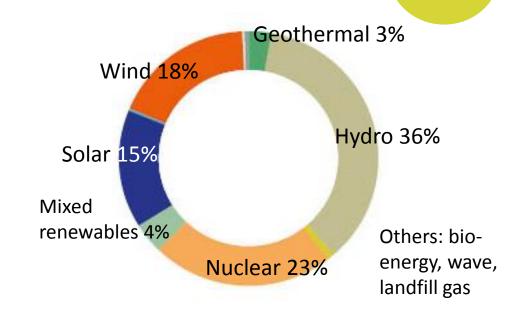




Behind the themes

Energy

- 15% of the total universe.
- 84% corporates, 11% project
- Utilities: EDF, GDF Suez, Iberdrola
- Projects: Solar Star, Greater Gabbard



Transport

- \$358.4bn (71%)
- Rail bonds in China, UK, France, USA.
- NEW: EV manufacturers Tesla, Toyota
- China Rail is largest single issuer

Climate Finance

- \$50bn (10%)
- 39% labelled but growing
- USD 25%, EUR 20%, INR 18%





Behind the themes

Buildings & Industry

- 13.5bn (2%)
- EE appliance/products LG Electronics
- Property: Vasakronan, Regency, Vornado
- REITs with high performance ratings.

Agriculture & Forestry

- \$\$4.2bn(1%)
- 95% sustainable paper and pulp
- Swedish SCA 1st labelled bond
- Bonds rare in sector

Water

- 267m (0.05%)
- \$53.5m California groundwater recovery
- \$213m New York Env. Facilities Corp.
- Adaptation planning limited

Waste & Pollution Control

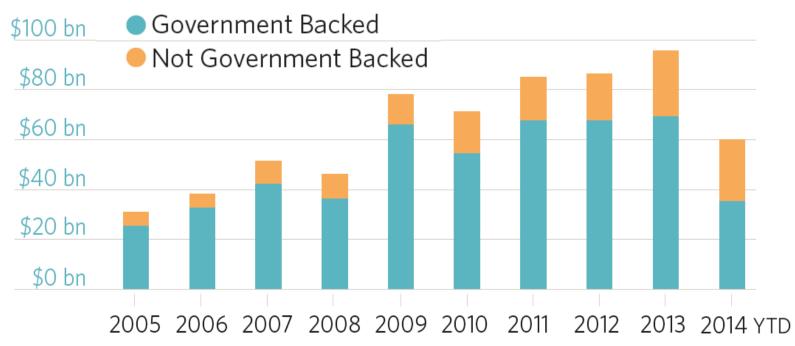
- \$1.4bn (0.3%)
- Recycling /recycled products.
- No labelled bonds





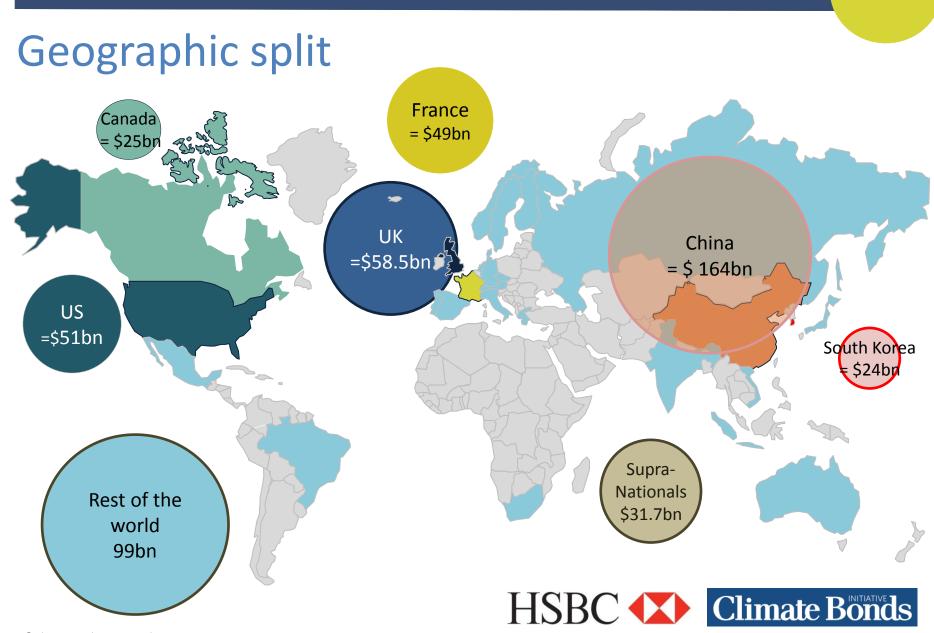
Continued Growth

- \$96bn issuance in 2013
- \$60bn in 2014 to date
- Majority has implicit/explicit backing from government, growth from private





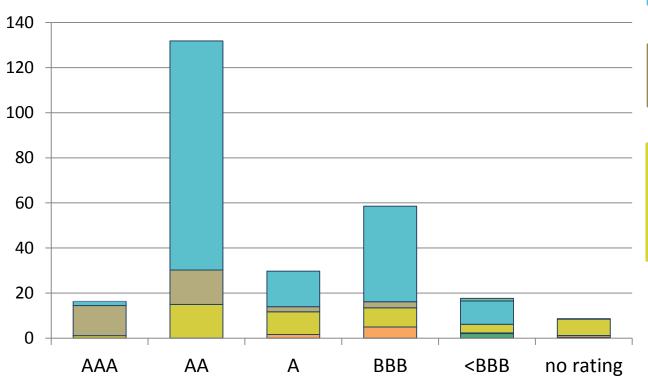




Core investable universe

Filters:

- Size: + 200m issuance
- Rating: investment grade (BBB and higher)
- Eligible currencies on benchmark indices



Transport

Large state-backed rail in AA categories

Climate Finance

AAA bonds from MDBs

Energy

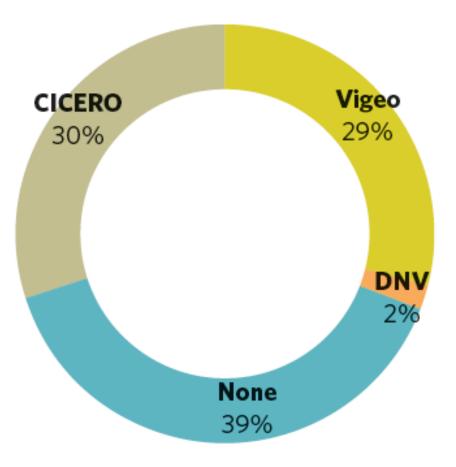
- Even ratings spread:
- A and AA utilities
- high yield solar





Independent reviews

- Bespoke review
- Divergent methodologies / no common
- Verification the norm in EU not yet US
- Green Bonds principle pushes for indep
- Especially important with corporates









Working together on Standards and Market Development









Climate Bond Partners and Advisory Panel Members





















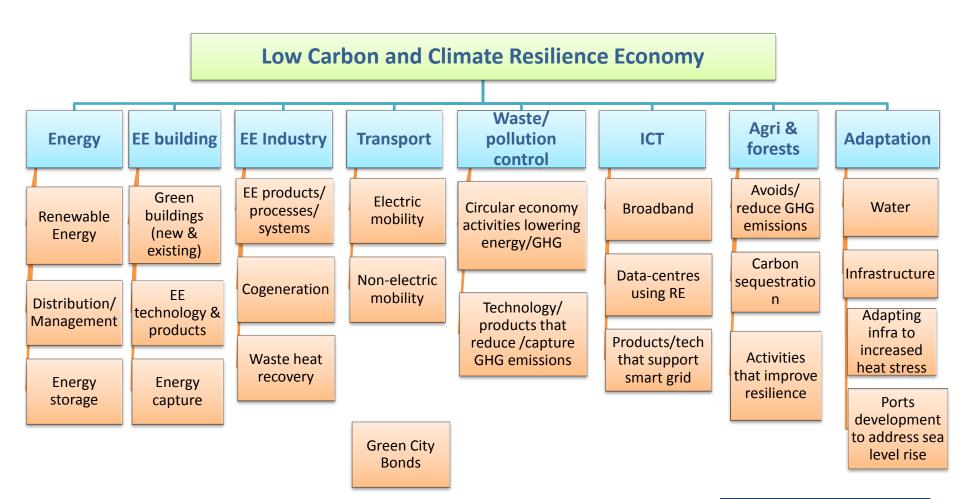








Expert-led definitions







Universe indicates where future labelled bonds

Market drivers:

- Improved discoverability
- Scale and liquidity
- Re-packaging and kickstarting
- Positive investment narrative

Predictions for 2015

- 1. Labelled market = \$100bn issued in 2015
- 2. Improved steps to validate green
- The role of the public sector becomes sharper
- 4. Green securitization grows
- 5. Green City bonds take root









UN CLIMATE SUMMIT LAUNCH

Green City Bonds

North China **American** Green Green City Bonds Munis **Emerging** Market EU Green City Bonds **Green City** Bonds

Building a global bond market that will finance the development of low-carbon and climate resilient cities.



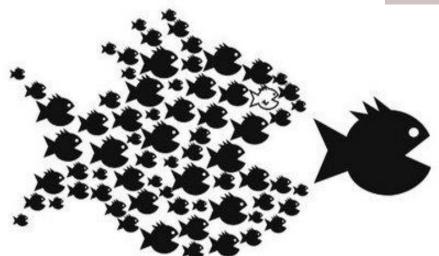


Next



EM deal flow generation

- -Financial skills, etc
- -Project packaging
- -Creditworthiness academy



Aggregation platforms -EIB / IBD



Risk-bridging:

- -Policy change and PPA insurance
- -Partial guarantees
- -Policy settings
- -Tweaks to the financial system





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