## **Workshop Green Bonds**

São Paulo, December 2016 Senior Adviser Harald Francke Lund

# °CICERO

Center for International Climate and Environmental Research - Oslo



Independent non-profit climate change research center

Link between climate science and financial community

# CICERO's involvment and motivations

World-leading provider of second opinions on green bonds

http://www.cicero.uio.no/en/posts/news/green-bonds-and-environmental-integrity



## **Expert Network on Second Opinions**



## What makes a bond green?

"The market has grown so fast that CICERO has just announced a partnership with four other academic institutions, including Tsinghua University, to increase capacity."







Institut international du développement durable





## **Expert Network on Second Opinions**







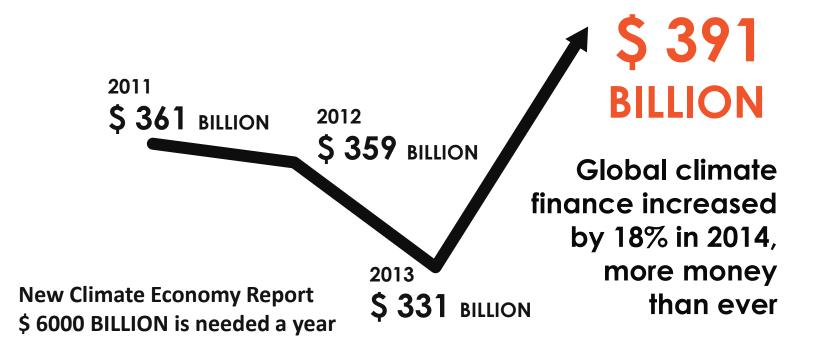




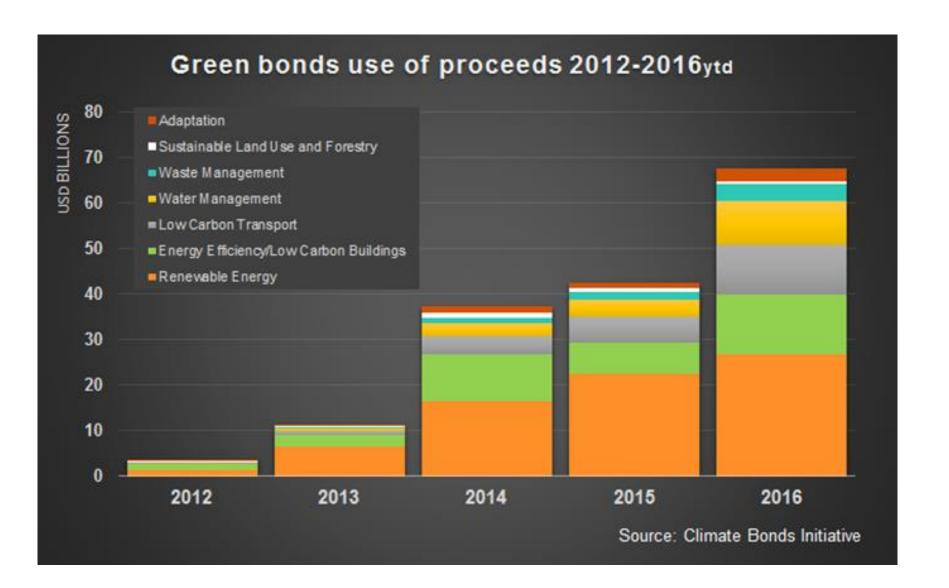


# Climate finance flows in last five years have been significant despite economic crisis

**TOTAL CLIMATE FINANCE IN 2014** 



Source CPI



## What is Green – and Who Decides?

### **Voluntary Principles**



Recommends external review

### **Second Opinions**



### **Standards**



## **Stock Exchanges**





Require independent second opinions

### **Funds & Indices**

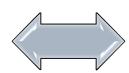








Issuers of Green Bonds (First Opinion)



Reviewers of Green Bond Frameworks (2nd Opinion)

### **Green Bond Framework**

- 1. Use of proceeds (definitions)
- 2. Selection process (governance)
- 3. Management of proceeds
- 4. Reporting



KOMMUNALBANKEN NORWAY

P.D. Sox 1210, Vika N-0110 Oxlo, Norway Haskon Vills gate So Telephone +47 2150 2000 Feosimile +47 2150 2001 poet@kbn.org www.kbn.org

June 2016

#### KBN GREEN BOND FRAMEWORK

The purpose of this document is to describe KBNs Green Bond Framework built on KBN's overall environmental strategy. KBN is a member of ICMA's Green Bond Principles\* (GBP) and is also aiming to comply with the "Harmonized Framework for Impact Reporting" developed by 11 Multilateral Development Banks in December 2015\*.

The framework has four components:

- 1. Use of Proceeds
- 2. Process for Project Evaluation and Selection
- 3. Management of Proceeds
- 4. Reporting

#### 1. Use of Proceeds

"Eligible Projects" means a selected pool of projects determined as eligible according to this Framework. Projects might be funded in whole or in part by KBN. Eligible Projects promote the transition to a low-carbon and climate resilient Public Sector. Such projects may target (a) mitigation of climate change through reduction of emissions from buildings, transportation and energy production, (b) adaptation to climate change, including investments in climate-resilient infrastructure, or (c) to a smaller extent (limited to 10%), projects related to a sustainable environment on a local scale.

#### Eligible Project categories

Please refer to "KBN Green Bonds: Supplementary guidelines for project selection, documentation and reporting" 2 for detailed criteria and requirements of the Eligible Project categories.

- Renewable energy (a): to reduce the use of fossil fuel, KEN is financing installations for
  production of renewable energy. Please note that if the installation is part of a new construction
  it will fall under the "Green buildings" category.
- Energy efficiency (a): KBN is promoting projects aiming to lower both emissions from energy production and energy bills for the municipal sector by upgrading to higher energy standards or installing climate friendly technology such as heating or control systems.
- Green buildings (a): new buildings or additions to buildings with an energy performance superior to current energy standards according to the supplementary guidelines may qualify for KBN's green leading rate.
- Waste management (a/b): sustainable waste management is an important environmental
  initiative as it both reduces emissions and returns scarce resources to the value chain. KBN
  finances either new or upgrading of plants.
- Land use (b/c): projects including sustainable redevelopment of recreational and other areas.
- Low-carbon transportation (a): low emission or emission free public transportation. The
  category also includes pedestrian and bicycle lane projects.
- Water and wastewater management (b): a robust water and sewage infinstructure is important to handle increased pressure on existing systems due to heavier suifiall and population growth. Projects include replacing and upgrading of water and sewage pipes in addition to financing equipment of handling sludge and contaminated discharge.
- Climate change adaption (b/c): natural disaster warning systems, landslide security systems, climate research and education programs.



#### 2. Process for Project Evaluation and Selection

For a project to be included in the Eligible Projects pool, it shall comply with a) the estegories listed in section 1 above and in the "KBN Green Bonds: Supplementary guidelines for project selection, documentation and reporting", b) the Municipality's Environmental Plan and c) Norway's Intended Nationally Determined Contributions (INDCs) according to the Paris Agreement. Applicants are required to declare eligibility by filling in a designated section in the loan document. Additionally, relevant documents indicating the Project's estimated environmental performance shall be provided. A project's eligibility is assessed by the Landing Department and approved by two Climate controllers. Approved Green Projects are entitled to KBN's Green Landing Discount and included in the bank's portfolio of Green Projects.

#### Green Bond Project Selection Process Flowchart



#### 3. Management of Proceeds

An amount equal to the net proceeds of the issue of the Notes will be credited to a special budget account that will support KBN lending for Eligible Projects, according to section 3 in the GBP. KBN will carefully manage the balance between green funding outstanding and green lending to make sure the green funding is disbursed in a timely manner. KBN aims to direct the predominant part of net proceeds to new projects. However, refinancing of selected projects with particularly high environmental or climate benefits is considered if in line with this framework.

#### 4. Reporting

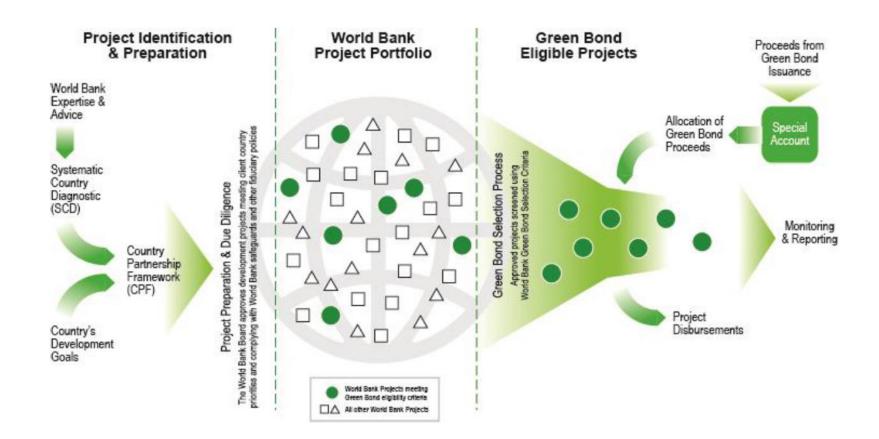
To enable investors to follow the development and provide insight into prioritized areas KBN will provide an annual SRI report linked to the annual financial results report. The SRI report will include a section on the progress of the Green Bond program. KBN will also keep the dedicated Green Bond webpages continuously updated with; i) a list of projects financed; 2) a selection of project examples "Green Bond Stories" and; 3) a summary of the KBN Green Bond development including statistics on our Green Project portfolio with impact reporting, aiming to comply with the issuer group" "Harmonized Framework for Impact Reporting" (Dec 2015).

KBN has appointed an advisory board, "The Green Committee", whose mandate will be to provide advice and guidance in natters related to the Bank's Green Bond Framework. The committee will primarily draw on external expertise in related fields, but will also include members of the KBN staff. Our Green Bond process will be audited by KBNs internal auditor, currently KPMG.

http://www.icmagroup.org/Regulatory-Policy-and-Market-Practicn/green-bonds/green-bond-principles/

http://treasury.worldbank.org/cmd/pdf/InformationonImpactReporting.pdf

<sup>5</sup> http://www.kommunalbanken.no/greencriteria



Source: World Bank Group

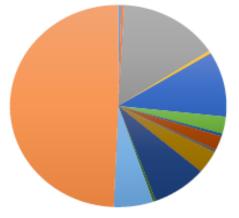
# Flexible Frameworks vs. Standards

- 1. How to capture that both science and green bond market are dynamic in nature?
- 2. Could issuer specific frameworks be combined with international and regional standards with more fixed definitions (building standards etc.)?

# Part II

# Review of Green Bonds

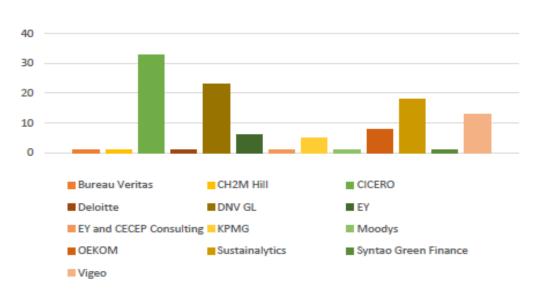




## **External Reviews**



- Second Opinions
- Certifications
- Verifications
- Ratings



**°CICERO** Senter for klimaforskning www.cicero.uio.no Center for International Climate and Environmental Research - Oslo

Source: CBI

# **Second Opinion Process**



- Green bond framework
- Sustainability reports
- Information on selection & reporting



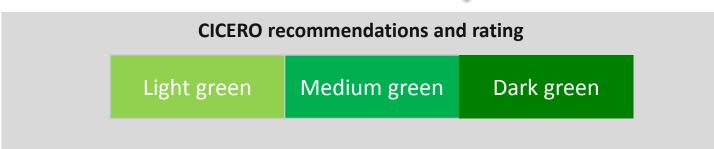




### CICERO's assessment criteria

- Use of Proceeds
  - Technologies and project types
  - Consideration of macro-impacts
- Management of proceeds
- Governance
  - Project selection and evaluation
  - Transparency
  - Reporting





## **CICERO's Shades of Green**

| Dark green   | Implementing a long-term solution                 |
|--------------|---|
| Medium green | On the way to a long-term solution                |
| Light green  | Short-term benefits, but not a long-term solution |

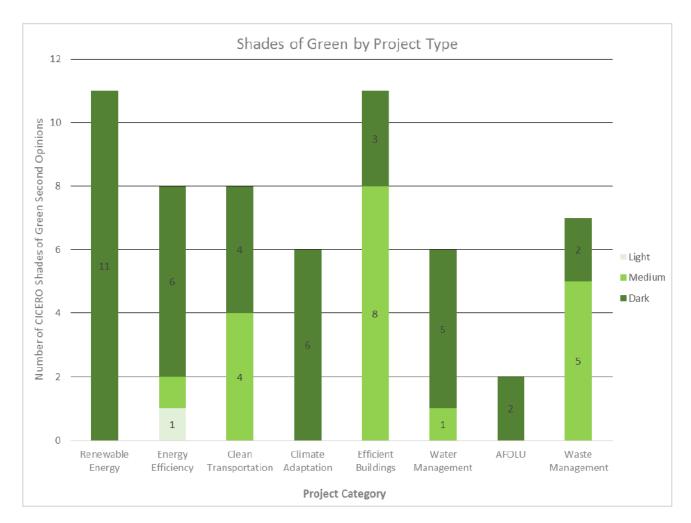
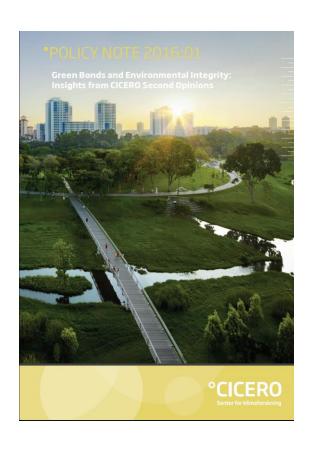


Figure 4: Number of CICERO second opinions by Shade of Green for each project type

## **Emerging Best Practice**



- Improved internal dialogue between finance and environmental experts
- Increased focus on supply chains
- Impact reporting –beyond emission reductions

Looking forward: further harmonization or regionalization of second opinions and standards?

## www.cicero.oslo.no/greenbonds

# Harald Francke Lund Senior Advisor CICERO Climate Finance