

Workshop 1: The integration of green bonds processes into governance and use of the excel sheet screening tool / calculations tool

Engagement of International Consulting Company for designing the Model Framework Structure and Content for the issuance of Green Bonds in Armenia (Green Bond Framework)



FCO.



Time	Topic	Presenter
11:00	Opening remarks and welcome	Gayane Gabrielyan - Deputy Minister,
11:10		Ministry of Environment
11:10	Introduction to the green bond issuance and	Seth Landau - Team Leader, E Co.
11:20	reporting processes	
11:20	Use of proceeds / Project evaluation and	Tamara Trumbic - Deputy Team
11:30	selection criteria (screening tool)	Leader, E Co.
	Management of proceeds	
11:30	Allocation and impact reporting and GHG	Miodrag Grujic - GHG Calculations
11:40	calculation tool	Expert, E Co.
11:40	Aligning internal processes with the	Seth Landau - Team Leader, E Co.
11:50	requirements of external review	Yves Speeckaert - Green Bonds
		Expert, DAI / Emergy Capital Markets
		Sarl
11:50	Questions Answers, and Discussions	
12:00		





# Introduction to green bonds issuance and reporting processes

## Seth Landau





## Advantages of green bonds

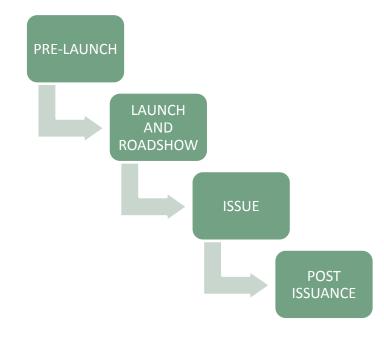
- Flexibility of the instrument (reflected in terms of the issuer requirements, types of issuances, and the terms of issuances)
- New low-cost financing channel and ability to attract institutional capital, Lower interest rate, pricing advantages (can be observed as a result of the green label), long term repayment/refinancing profile, lower cost of capital
- Access to international capital, Investor diversification
- Increased efficiency/transparency in financial infrastructure using certification and audits by reputable institutions
- Green bond, an attractive debt instrument for small and medium-size utilities

## Opportunities of green bonds

- Strong investor interest and momentum for growth / exponential curve of green capital with more capital than yesterday but less than tomorrow - Growing market doubling every year, currently strong over-subscription (D>0)
- Presence of favourable governmental policies combined with a worldwide momentum and an improving legal framework.
- Social / Citizen / Customers pressure on companies for taking sustainable actions to ever go greener.
- Financial markets and investors are requested to evolve and adapt and finance the transition to low-carbon and climate resilient growth.
- ✓ Option for investors to achieve a greater diversification of portfolios

P5

#### Green Bond Issuance process



P6

#### **Parties involved :**

- Lawyers
- Lead manager
- Paying agents, fiscal agent
- Auditors, register, listing agent
- Central Securities Depositor
- Stock Exchange
- External Reviewer

#### **Documents**:

- Prospectus
- Subscription agreement
- Fiscal agreement
- Signing and closing memorandum
- Bond Framework
- External reviews (pre/post issuance)
- Allocation and/or Impact reporting

	February	March	April	Мау	June	July	August	September	October	November
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Governance										
Creation of Working Group										
Working Group meetings										
Selection of programs										
Screening of eligible expenditures										
Definition of evaluation and selection criteria										
Selection of the eligible spending portfolio										
Definition of the monitoring and reporting processes										
Selection of impact indicators										
Structuring of Green Bonds										
Preparation of the Framework									-1):	
SPO hiring process										
SPO process										
Framework publication										
Marketing and launch										
Investor work preparation										
Press conference & Global Investor Call										
One-on-ones with investors										
Issuance window										
Reporting										
Report drafting										

#### Green Bond Issuance process: Timetable example



## Estimated costs of climate (mitigation) measures in Armenia

Climate mitigation sectors (Armenia)	Estimated amount, USD million
Renewable energy (hydropower plants, wind plants, solar plants)	1,395
Combined-cycle gas turbine plants	1,200
Energy efficiency for residential buildings	1,200
Energy efficiency for public buildings	294
Energy efficiency for industrial buildings	144
Transport	265
Waste management	174
Total	4,672

### Green bonds standards

Several widely recognized international standards have emerged 
 used for assessing suitability of 'green
 investments and activities', accompanied by certification schemes



#### Green bonds standards

- Components of green bonds frameworks
- A green bond standard can include various components currently there is no complete consensus in the market on what should be included within 'a standard'
- □ Green bonds frameworks mainly differ based on:

#### **Project categories**

•Sectors available

•Types of projects and eligibility

•Indicators and metrics

#### **Reporting requirements**

•Reference to the framework

- •Allocation reporting
- Impact reporting

External review / verification requirements

External review

- Accreditation of external reviewers
- Publication of external review





## Use of proceeds / Project evaluation and selection criteria (screening tool) / Management of proceeds

#### Tamara Trumbić





#### Green bond standards

Comparing list of eligibl through different standa		
CBI Green Bonds Standard	ICMA Green Bonds Principles	EU Green Bonds Standard
Bioenergy; Geothermal energy; Marine renewable energy; Solar energy; Wind energy	Renewable energy	Electricity, gas, steam and air conditioning supply
Buildings	Energy efficiency	Buildings
	Pollution prevention and control	Manufacturing
Agriculture; Protected agriculture; Forestry	Sustainable management of living natural resources	Agriculture and forestry
Land conservation & restoration	Terrestrial and aquatic biodiversity conservation	
Low carbon transport; Shipping	Clean transportation	Transport
Waste Management; Water Infrastructure	Sustainable water management (including clean and/or drinking water)	Water, waste and sewerage remediation
Climate Resilience Principles (see <u>here</u> )	Climate Adaptation	
	Eco-efficient products, production technologies and processes	ICT

## ICMA sectors and eligibility criteria

#### The Bank's Green Bond Framework is aligned with ICMA GB Principle.

Category	Eligible Areas
Renewable Energy	Production, Transmission, Appliances and Products
Energy Efficiency	New and Refurbished Buildings, Energy Storage, District Heating, Smart Grids, Appliances and Products
Pollution Prevention and	Reduction of Air Emissions, GHG Control, Soil Remediation, Waste Prevention, Waste Reduction, Waste Recycling and Energy/
Control	Emission-Efficient Waste to Energy
Environmentally Sustainable	Environmentally Sustainable Agriculture; Environmentally Sustainable Animal Husbandry; Climate Smart Farm Inputs such as Biological
Management of Living Natural	Crop Protection or Drip-Irrigation; Environmentally Sustainable Fishery and Aquaculture; Environmentally Sustainable Forestry, Including
Resources and Land Use	Afforestation or Reforestation, and Preservation or Restoration of Natural Landscapes
Terrestrial and Aquatic	Protection of Coastal, Marine and Watershed Environments
Biodiversity Conservation	
Clean Transportation	Electric, Hybrid, Public, Rail, Non-Motorised, Multi-Modal Transportation, Infrastructure for Clean Energy Vehicles and Reduction of Harmful Emission
Sustainable Water and	Sustainable Infrastructure for Clean and/or Drinking Water, Wastewater Treatment, Sustainable Urban Drainage Systems and River
Wastewater Management	Training and Other Forms of Flooding Mitigation
Climate Change Adaptation	Efforts to Make Infrastructure More Resilient to Impacts of Climate Change, as well as Information Support Systems, such as Climate
	Observation and Early Warning Systems
Circular Economy Adapted	The Design and Introduction of Reusable, Recyclable and Refurbished Materials, Components and Products; Circular Tools and Services);
Products, Production	and/or Certified Eco-Efficient Products
Technologies and Processes	
Green Buildings	Buildings that meet Regional, National or Internationally Recognised Standards or Certifications for Environmental Performance

### Use of proceeds

- First, a use-of proceeds approach (and the subsequent verification) allows for an exceptional degree of transparency and enables bond markets to become an essential item in green and climate mitigation finance.
- Clarity on use-of-proceeds tends to facilitate impact reporting that aligns real economy investments and outcomes with financing.
- All designated eligible green projects should provide clear environmental benefits, which will have to be assessed and quantified by the issuer (or in the case of more complex projects, the project applicant submits extensive technical documentation from which the environmental and climate impacts are visible) and demonstrated to the investors.
- The issuer has to provide an estimate of the share of financing vs. refinancing, and if possible, also clarify which investments or portfolios may be refinanced, and which would be the maximum look-back period for refinanced eligible green projects.

## Management of proceeds

- The net proceeds of green bond should be credited to a sub-account, moved to a sub-portfolio or otherwise tracked by the bank in an appropriate manner. Also, green bond proceeds shall be attested to by the issuer in a formal internal process linked to the issuer's lending and investment operations for eligible green projects.
- As long as the green bond is outstanding, the balance of the tracked net proceeds should be periodically adjusted to match allocations to eligible green projects made during that period. The issuer should notify investors of the intended types of temporary placements for the balance of the retained net proceeds.
- The proceeds of green bonds can be managed in two ways: 1) per bond (bond-by-bond approach) or 2) on an aggregated basis for multiple green bonds (portfolio approach).
- The GBP recommends that an issuer's management of proceeds is supplemented by the use of an external auditor, or SPO, to verify the internal tracking method and the allocation of funds from the green bond proceeds (see Key Recommendations section below).



#### Role of the issuer

The issuer of a green bond (bank) should clearly communicate to investors:

- The environmental sustainability objectives of the eligible green projects;
- 1 The process by which the issuer determines how the projects fit within the eligible green projects categories and
- Complementary information on processes by which the issuer identifies and manages perceived social and environmental risks associated with the relevant project(s).

Issuers are also encouraged to:

- Position the information communicated above within the context of the issuer's overarching objectives, strategy, policy and/or processes relating to environmental sustainability.
- Provide information, if relevant, on the alignment of projects with official or market-based taxonomies, related eligibility criteria, including if applicable, exclusion criteria; and also disclose any green standards or certifications referenced in project selection.
- Have a process in place to identify mitigants to known material risks of negative social and/or environmental impacts from the relevant project(s). Such mitigants may include clear and relevant trade-off analysis undertaken and monitoring required where the issuer assesses the potential risks to be meaningful.



## Green project

The ICMA Green Bond Principles explicitly recognise several broad categories of eligibility for Green Projects, which contribute to environmental objectives such as:

- climate change mitigation
- climate change adaptation
- natural resource conservation
- biodiversity conservation
- pollution prevention and control.

Green projects may include assets, investments and other related and supporting expenditures such as R&D that may relate to more than one category and/or environmental objective. Also, green projects definition may vary depending on sector and geography.





# **Tool - General sheet**

# Miodrag Grujić





#### Investment screening - general sheet

Applicant data

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#### Investment screening - general sheet

Investment data - I

INVESTMENT DATA	The investment belongs to the following eligible areas (ICMA): (select maximum five)
The investment belongs to the following eligible green project categories (ICMA): (select maximum three)	
Renewable Ereryy	Energy production, transmission, appliances and products
Energy Efficiency Follogion & evention and Control Environmentally Sustainable Management of Living Natural Resources and Land Use Terrestna: and Aquatic Biodiversity Conservation Clean Transportation Clean Transportation Clean Transportation	Energy transmission Appliances and products New buildings Refer to shore the buildings Energy storage District heating

#### Investment screening - general sheet

#### Investment data - II

Investment description:					Form of financing:	
Currency of Investment		AMD			New investment/thranoing green projects	
Value of investment:	EUR	ЛМD		2	Refinancing green projects Differ forms	
Financing from project owner	EUR	AMD		5	Differ sorms	
Financing from bank	rua	AMD		5		
Financing from other sources:	EUR	AMD		Name of source		
	EUR	лмр	4	Name of source	Nature of what is being financed:	
	EUR	AMD		Name of source	-	
Share of bank financing in the	total value of the inv	estment:	=nv/	at	Physical assets Financel green assets (mortgage loans)	
Expected date of investments	tart:				Besearch and development     leasing real estate	
Expected date of investment o	ompletion:				Itefinancing	
Form of financing:					-	
Nature of what is being financ	ed:					

#### Investment screening - general sheet

#### Investment data - III

Type of investment/sector:	
Industry - efficient processes and reduction of CO2 emissions	
Energy efficiency in new buildings	
Renewable energy sources - solar photovoltaic installations	
tenewable energy sources - solar water heating installations	
Renewable energy sources - bioenergy	
tenewable energy sources - geothermal energy	
Renewable energy sources - small hydro power plants	
Renewable energy sources - wind	
Transport electric vehicles passenger cars and commercial vehicles	
Transport - electric buses	
Industry - efficient processes and reduction of CO2 emissions	
Water infrastructure	
Sustainable agriculture	
Forestry	
Waste - sustainable waste management	

Alignment with Nationally Determined Contribution (NDC) objectives:	
Is this investment aligned with central objective of the Paris Agreement? Increase in the global average temperature to well below 2°C above preiodustri e]Jarts to limit the temperature increase to 1.5°C above preiodustrial levels, rec would significantly reduce the risks and impacts of climate change")	
Is this investment aligned with national NDC objectives?	
(40 % reduction from 1990 GHG emission levels by 2030)	
Please specify:	
Results	
Does this investment meet requirements for green bonds standards? YES/NG	0





## Tool - through sectoral sheets

# Miodrag Grujić





## Sectoral sheets - some principles

Clicking on one of the types of investments / sectors, automatically switches to a new sheet:

#### dedicated to that type of investment

Industry - efficient processes and reduction of CO2 emissions Energy efficiency in new buildings Renewable energy sources - solar photovoltaic installations Renewable energy sources - bioenergy Renewable energy sources - bioenergy Renewable energy sources - small hydro power plants Renewable energy sources - small hydro power plants Renewable energy sources - wind			
Renewable energy sources - solar photovolitaic installations Renewable energy sources - solar water hicating installations Renewable energy sources - bioenergy Renewable energy sources - goothermal energy Renewable energy sources - small hydro power plants Renewable energy sources - wind			
Renewable energy sources - binenergy Renewable energy sources - binenergy Renewable energy sources - geothermal energy Renewable energy sources - small hydro power plants Renewable energy sources - wind			
Renewable energy sources - binenergy Renewable energy sources - binenergy Renewable energy sources - geothermal energy Renewable energy sources - small hydro power plants Renewable energy sources - wind			
Renewable energy sources - geothermal energy Renewable energy sources - small hydro power plants Renewable energy sources - wind			
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Renevable energy sources - wind			
Transport - electric vehicles - passenger cars and commercial vehicles			
rensport - electricibuses			
industry - efficient processes and reduction of CO2 emissions			
Water infrastructure			
Sistainable agriculture			
Forestry			
Electer Firetapash a Lineren Vashadapanat			
General Buildings-renovation Buildings-rew Transport s-cars Transport s-buses Solar PV Solar WH	Wind Hydro	re Biocnergy	· (+)

## Sectoral sheets - some principles

 If the answer to all green questions is "yes", the answer to the question of compliance with GB standards becomes "yes" automatically.

.A.	8	- C	D	E
vew buildings				- 10 C
Compliance with green honds stancards	Does this investment meet requirements for green bands standards? YES/NO	YES		
Objective	Ouestion/oritoria	S.Ira e		Notes Happlicable
frergy contumption	Does this investment around energy construction that is at least equivalent to among class A2	Y25/NG	Yes	
Reduction of GH3 e hissions.	Does this investment provide reduction of GNS emissions compared to EAU scenario that includes fossififuels, e.g. natural gas?	Yes/No	Ves	
Propose of sufficiency	The Eventment / b. illding is not intended for the extra clica, sharage, transport of production of tassif traces?	Y-s/Na	Vers	
Dise of receivedble energy	Stries fitts investment include use of remeanable energy sources by more than 2005 of the total energy consumption? (biomass, biosue, geothermal energy, solar energy)	YongNet	Xes	
EE measures	Does this investment include efficient envelope?	Yes/No	Yes	
	Does this investment include use of efficient resting or cooling system?	Yes/No	Vers.	
	Does this investment include use of efficient suplimers/equipment?	Yes/No	Ves	
	Does this investment include use of efficient lighting?	Yes, No	Yes	
Potential for waste republic	Does this Investment recycle waste from venolition or construction?	Yes/No	Yes	
Potential for water savings	Does this investment reduce use or water le g monuph install mont of water atticient appliances?	Yes/No	Yes	
Protection of onture	The investment / building is not built in protected network areas?	Y-s/Net	Ves	
Potential for climate charge adaptation	Does this investment contribute to climate change adaptation? (example: green root, green walls, stc.)	Y-s/No	Ven	

Required to be yes to qualify Useful for understanding the project "yellow parts" can be used to "assess" how green the project is in case there are competing projects.

## Sectoral sheets - some principles

 Only one answer "no" to green questions is sufficient to generate answer "no" to the question of compliance with GB standards.

Compliance with green bonds standards	Ones this investment meet requirements for green bonds standards? YES/NO	N	n j	
Objective	Ouestion/criteria	Auso	Wel	Notes il applicable
Er argy consumption	Does this investment provide energy consumption that is at least equivalent to energy class AP	Yas/Na	Yes	
Reduction of GH3 emissions	Does this investment provide reduction of GHS emissions compared to EAU scenario that includes foisil fuels, c.g. natural gos?	Yes/No	Yes	
For prove of molecing	The investment / building is not intermed for the extentions, through transport or production of tassif hot is:	Y-s/No.		
t See of networkshife energy	Does, bis insertiment on balance of renewable energy so, ross by more than 2006 of the total energy cors, mption? (biomass, biotue), geothermal energy, solar energy)	Yes,No.	Yes	
EE measure:	Does this investment include efficient envelope?	Yes/No	Yes	
	Toes this investment include use of efficient resting or cooling system?	YasiNo	Ves	
	Does this investment include use of efficient appliances/equipment/	Yes/No	Ves	
	Does this investment include use of efficient	Y25,'NO	Yes	
Potent/all for waste rectantion	Does this investment recycle waste from Demolition or construction?	Yes/No	Yes	
Potential for water savings	Does this investment reduce use of water leg- thorugh installment of water efficient appliances?	Yes/Na	Yes	
Protection of network	The investment / huilding is out huilt in protected natural areas?	VestNo	ves	
Potential for climate change adaptation	Does this investment contribute to climate change adaptation? levample: green root, grean walls, etc.)	Yes/No	Ven	





# Allocation and impact reporting and GHG calculation tool

# Miodrag Grujić & Tamara Trumbić





## Sectoral sheets - GHG calculation

 For most sectors (mitigation), a relatively simple model for calculating GHG emissions has been developed so that bank can estimate the impact of investments.

4 4	8	c
25		
26 Base case (BAU so	enario - building with average energy consumption in Armenia)	
27	Unit	Value
95 Totel Foot atea	m/	5.883
79 Pase case fuel for heating	NJ/A	Natural gas
30 Base case energy consumption for heating	MWh/year	250
3 Ease case one rgy consumption for heating per m2	kWh/m2/year	150
32 GHG emissions for heating per MWh	tonnes OU2cc/WWh	0.2020
EE GIG emissions for heating per year	tonnes: OZeq/year	10.591
34 Base case energy consumption for cooling	MWb/year	90
35 Base case energy consumption for cooling per m2.	kWh/m2/year	6E
36 GHG emissions for cooling per MWh	Connies CO2ec/MWh	0.2010
37 GHG emissions for cooling per year	tonnes 202eq/year	18.09
38 Base case chergy consumption for lighting	MWh/year	18
39 Dase case energy consumption for lighting per m2	kWh/m2/year	5
48 GHG emissions for lighting per MWh	Former Gill/en/MWh	0.2010
41 GHG emissions for lighting per year	tonnes CO2eq/year	3.62
42 Energy consumption per year	MW/h/year	508
43 Specific energy consumption per m 2	kW1/m2/year	196
14 GHG emissions per year	Tonnes CO2eq/year	112.59
45		

17 Proposed case (comparation with built	ding with overage energy consumption in Armenia)	
48 Total Loor area	m2	3000
49 Proposed case fuel for heating	N/A	Natural gas
50 Energy consumption for heating per m2	kW1/m2Apear	50
Energy consemption for heating	MWh/year	150.00
GHG emissions for heating per MWh	tannes CO2ee/MWh	0.2020
6 GHG emissions for heating per year	tonnes CC2eq/year	30.29
4 Energy consumption for cooling per m2	kWit/m2/year	20
5 Frierey consumption for cooling	MV/h/year	50.00
6 GHG emissions for cooling per MWh	tonnes CO2ec/MWh	0.2010
67 GHG emissions for cooling per year	tonnes/CO2eq/year	12.00
Energy contumption for lighting per m3	kwn/mz/year	3
50 Energy consumption for lighting	MW/b/yest	9.00
0 GHG emissions for lighting per MWh	tonnes OU2ee/MWh	0,2010
61 GUG emissions for lighting per year	fonces (C2eq)year	1.81
2 Energy consumption per year	KWhyyear	219.00
8 Energy consumption per year per m2	kWI /m2/year	0.073
W Reduction in energy consumption for heating	kWhyyear	300.00
is Feduction in energy consumption for cooling	kwhysear	30
6 Feduction in energy consumption for lighting	kWhyyear	9
Verluction in final energy consumption	kWhAyear	11.19
8 Feduction in final energy cause option/m?	kWh/m2Appnt	0,113
0 OHS emissions per year	tonnes CO2eq/year	44.10
0 GHG emissions savinus per year	tonnes CO2eq/year	08.43
Utetime of investments	Years	15
C GHG emissions over ifetime of investments	tonnes COQeg	1026.4
/3 Percentage of GHG savings per year	5	50.78
74		

GHG emissions per MWh	Lonnes COZeq/MWh	
Natura gas	0.2020	
Electricity**	0 2010	https://www.ineha.org/RENADocuments/Statistical Profiles/Eurasia/Armania Eurasia RE SP.pd
Wood	0.0000	
Co+1+++	0.3510	

#### Input from investment data

General assuptions (they may be different)

## Sectoral sheets - some notes

- Specific measurable ICMA indicators were used where they exist.
- For types of investments where ICMA indicators are only generalized, criteria have been developed in line with ICMA standards, i.e. they are not the opposite of them.
- Mandatory criteria mainly relate to GHG emissions, reduction of fossil fuel use, sustainability, impact on climate change and the environment.
- The calculation of GHG emissions takes into account the total emission savings over the entire life cycle of the investment.
- GHG calculation developed for renewable sources, buildings and transport sector
- Some criteria are very specific, and some are only descriptive.
- There is potential for the development of tools for additional sectors, with or without GHG emissions calculations, depending on the bank's policies and intentions.

## Allocation reporting

- Issuers should keep readily updated information on the use of proceeds to be renewed each year until full allocation and on a timely basis in case of material developments.
- Annual report should contain:
  - a list of the projects to which green bond proceeds have been allocated,
  - a brief description of the projects, the amounts allocated, and their expected impact
  - The Investment screening tool for investment evaluation and selection can be used to for collection of this information.
- If confidentiality requirements, competitive considerations, or a large number of underlying projects 
   – limit the amount of detail available for presentation
- Information can then be presented in generic terms or on an aggregated portfolio basis (e.g. percentage allocated to certain project categories).

#### Impact reporting

- The GBP suggest the use of qualitative or, where feasible, quantitative performance metrics. Also, the key underlying methodology or assumptions used for quantification shall be elaborated.
- Issuers can decide whether they should report on the impact at the project or portfolio level, which can depend on the type and size of the project. Moreover, the issuers should refer to and adopt, where possible, the guidance and impact reporting templates provided in the Harmonised Framework for Impact Reporting.
- The use of a summary, which reflects the main characteristics of a Green Bond or a Green Bond programme, and illustrates its key features in alignment with the four core components of the GBP, may help inform market participants. To that end, a template can be found in the sustainable finance section of ICMA's website which once completed can be made available online for market information.

#### Impact reporting

#### Illustrative Summary Template for Project-by-Project Report:

Renewable Energy (RE)	Signed Amount <u>a/</u>	Share of Total Project Financing <u>b/</u>	Eligibility for green bonds	RE component	Allocated Amount	Project lifetime	#2) Au gener (electri oth	ration ricity /	#3) a) Renewable energy capacity added	#3) b) Renewable energy capacity rehabilitated	#1) Annual GHG emissions reduced/avoided <u>e/</u>	Other Indicators
Project name	currency	%	% of signed amount	% of signed amount	currency	in years	MW/ GWh	GJ/ TJ	MW	MW	in tonnes of CO <sub>2</sub> equivalent	
e.g. Project 2	×	×	×	×	×	×	×	xx	~	×	×	Capacity of RE plant(s) to be served by transmission systems (MW) XX t CO, eq. Absolute annual project emissions.

#### Illustrative Summary Template for Portfolio-based Report<sup>31</sup>:

Renewable Energy (RE)	Signed Amount <u>a/</u>	Share of Total Portfolio Financing <u>b/</u>	Eligibility for green bonds	RE component	Allocated Amount	Average portfolio lifetime <u>d/</u>	gen (electric possib	Annual eration city/other), ly per unit nancing	#3) a) Renewable energy capacity added (possibly per unit of financing)	#3) b) Renewable energy capacity rehabilitated (possibly per unit of financing)	#1) Annual GHG emissions reduced/avoided (possibly per unit of financing) <u>e/</u>	Other Indicators (possibly per unit of financing)
Portfolio name	currency	%	%	%	currency	years	MWh/ GWh	GJ/TJ	MW	MW	in tonnes of CO, equivalent	
e.g. Portfolio 2	**	×	~~	**	×	×	×	×	xx	xx	×	Capacity of RE plant(s) to be served by transmission systems (MW) XX t CO, eq. Absolute annual portfolio emissions





# Aligning internal processes with the requirements of external review

# Seth Landau / Yves Speeckaert







# Recommendations for setting internal project cycle for green bond issuance

- Communicate what are eligible "green projects" to investors / public
- Build technical appraisal team for larger investments / portfolio approval
- Check-lists and reporting forms for smaller investments (with trainings and a central person who can answer questions)
- Reinforce / build off of existing environmental and social safeguarding system
- Keep evidence / track the projects
- Ensure that the green project criteria is embedded within the loan contract
- Follow updates on GB standards and national regulations





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ecoltdgroup.com



Workshop 2: The role of Second Party Opinion, external review service providers in the bond issuance process

Engagement of International Consulting Company for designing the Model Framework Structure and Content for the issuance of Green Bonds in Armenia (Green Bond Framework)



FCO.

THINKING







- External review
- What is an SPO, SPO Process and costs
- Certification proccess and reporting requirement
- Sustainalytics : SPO Process, Requirements, case study

## Green bonds standards

- Components of green bonds frameworks
- A green bond standard can include various components currently there is no complete consensus in the market on what should be included within 'a standard'
- Green bonds frameworks mainly differ based on:

#### **Project categories**

•Sectors available

•Types of projects and eligibility

•Indicators and metrics

#### **Reporting requirements**

- •Reference to the framework
- •Allocation reporting
- Impact reporting

# External review / verification requirements

External review

- Accreditation of external reviewers
- Publication of external review

# The need for External review

- More than 80% of the global market share of all bonds have been issued with an external review of which about 40% done by an SPO in 2019.
- The SPO and verification audits (pre and post issuance verification) are both done by external review providers in order to verify and improve the transparency of a Green/Sustainbility/Social Bond issuance and future verifications (depends on the standards).
- External reviewers can also provide support for companies and institutions in issuing green bonds, advise on the eligibility criteria (definition) of projects to be financed.

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### What is an SPO ?

 An SPO acts as an independent, external reviewer on green, social, or sustainability bonds or loans

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- The main role of the SPO is to confirm the compliance with the UoP standards (asset identification and definition of the eligibility criteria of projects, allocation and impact reporting approach) and provide an assessment of issuer's green bond framework, analysing the "greenness" of eligible assets it is considered a useful tool for both investors and issuers
- This external review done by an SPO is then published and publically availbale

### **SPO Process and costs**

- SPO review process happens during the structuration process of the bond and takes about 2 to 3 months. The SPO review can be requested once the framework of the bond is designed.
- The process vary depending on the SPO chosen

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The cost also vary depending on the SPO and on bond itself (such as Use of Proceeds, size of the bond, size of the projects,...)
 however the range is very similar (20 000€ to 40 000€)

# Is the SPO Mandatory ?

- SPO can be either a mandatory (as it is the case for EU GB standard) or a recommended step (as for CBI Green Bond standard), according to the followed standard, to pursue the issuance process.
- SPO enables to strengthen and reinforce the credibility towards the greenness of a bond and its projects, and certify it complies with the standard requirements.

### **Reporting Requirements**

Each type of standard broadly has reporting across the 3 main areas listed below;

- 1. Allocation Reporting (includes : total proceeds, amount allocated as of the end of the reporting period, breakdown by activities (e.g. renewable energy (solar and wind), public transport), Allocation reporting should also reference the environmental objectives, and provide information on the geographical distribution of the Green Projects with information)
- 2. Eligibility Reporting (confirmation that the Nominated Projects & Assets continue to meet the relevant eligibility requirements and information on the environmental characteristics or performance of Nominated Projects & Assets which is prescribed by the relevant Sector Eligibility Criteria)
- 3. Impact Reporting: provides the expected or actual outcomes or impacts of the Nominated Projects & Assets with respect to the climate-related objectives of the Bond. Uses qualitative performance indicators and, where feasible, quantitative performance measures of the outcomes or impacts of the Nominated Projects & Assets related to the climate-related objectives of the Bond. Also provide the methods and the key underlying assumptions used in preparation of the performance indicators and metrics)

The external review of those reports can be a mandatory process or just a recommendation step.



a Morningstar company

### Sustainalytics' Second-Party Opinions

Enrico Tessadro Senior Manager, Sustainable Finance Solutions July 7, 2022



## Who We Are

- A Morningstar company dedicated to responsible investment with over 25 years' experience in ESG research and ratings
- 1,000+ clients, including asset managers & owners, financial institutions and corporations
- 1,000+ professional staff and presence in 17 countries
- Leading Second-Party Opinion provider



- Sustainalytics' primary business is to support the world's foremost investors to incorporate Environmental, Social, and Governance (ESG) insights into their investment decision making processes.
- As the responsible investment sector has grown and matured, there has been more demand for ESG research and products for new uses, like integrating ESG data into capital raising activities.
- The Sustainable Corporate Solutions team provides services tailored for issuers, corporates and the banks who support them, in helping them answer the question: "How can I attract responsible investors/lenders to finance my bonds or my company?"
- Sustainalytics is the largest Second-Party Opinion provider.

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Investor Solutions		Sustainable Corporate Solutions		Civil Society & Academia	
ESG Ratings	Index Services	Green, Social & Sustainable Instruments	ESG Ratings License for Issuers		
<ul> <li>» ESG Integration</li> <li>» Screening and sustainability benchmarking of portfolios</li> <li>» Thematic Investing for fund or index creation</li> <li>» Engagement and Voting</li> <li>» Strategy Development (ESG Integration, PRI Implementation)</li> </ul>	Provision of ESG data to create best-in-class or thematic indexes	<ul> <li>» Label your issuance as green, social, or SDG through a second-party opinion from Sustainalytics</li> <li>» Confirm to investors that projects financed post-issuance are aligned with the framework</li> <li>» Report on impact of projects financed through your issuance to investors</li> </ul>	<ul> <li>Commercialize ESG ratings for use in debt instruments</li> <li>Benchmark sustainability performance relative to peers</li> <li>Create an ESG rating</li> </ul>	<ul> <li>» Sustainabilit Research &amp; Rankings</li> <li>» Academic Program</li> </ul>	

# Second-Party Opinion

Overview of Sustainalytics' Second-Party Opinion

- Section 1: Alignment of the Framework with ICMA Principles
  - Alignment of use of proceeds eligibility criteria with Sustainalytics' Taxonomy & market practice
  - Alignment of the Framework with project evaluation, management of proceeds and reporting
  - Alignment with EU Taxonomy if applicable
- Section 2: Issuer's sustainability strategy and performance
  - Sustainability strategy
  - Risk management
- Section 3: Impact of the projects
  - Positive impact of use of proceeds in the local/global context

#### Second-Party Opinion Banco Bradesco S.A. Sustainable Finance Framework

#### **Evaluation Summary**

Sustainalytics is of the opinion that the Banco Bradesco S.A. Sustainable Finance -Framework is credible and impactful and aligns with the Sustainability Bond Guidelines 2021, Green Bond Principles 2021, and Social Bond Principles 2021. This assessment is based on the following:



USE OF PROCEEDS The eligible categories for the use of proceeds – Remevable Rengy, Inergy Efficiency; Statahable Corps, Statahable Transportation, Green Building; Surtahable Water and Wastewater Management. Follution Prevention and Control. Financial Inclusion, and Digital Inclusion – are aligned with those recognized by the Green Bond Principles and the Social Bond Principles. Sustainabiles contribute to the transmission to obvication economy and support the social-economic development of Brazil and to advance the UN Sustainable Development Goals, specifically SDGs 2, 6, 7, 6, 9, 11, 12, and 15.



PROJECT EVALUATION / SELECTION Banco Bradesco SA's Corporate Sustainability department will be responsible for the project evaluation and selection process. Banco Bradesco SA has adopted an internal Social and Environmental Risks Standard which is opplicable cal allocation decisions mode under the Framework. Sustainalytics considers this process to be in line with market practice.



MANAGEMENT OF PROCEEDS Banco Bradesco S.A.'s Tressury Department will be respone bie for the allocation and management of bond proceeds. Banco Bradesco S.A. intends to allocate the bond proceeds will be temporarily held or invested in cash or cash equivalents. This is in line with market practice.



REPORTING Banco Bradesco S.A. Intends to report on the allocation and impact of proceeds on its website on an annual basis until full allocation. Allocation reporting will include project-level allocation details for project financing and category-level allocation details for corporate financing, period of reporting, total disbursements made in that period, and the balance and temporary use of unallocated proceeds. Banco Bradesco S.A. is also committed to reporting on relevant quantitative impact and has provided indicative metrics within the Framework. Sustainalytics views Banco Bradesco S.A.'s allocation and impact reporting as alloqued with market practice.



Evaluation date	January 7, 2022	
Issuer Location	São Paulo, Brazil	

#### Report Sections

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# **Transition Bonds**

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Sustainalytics' approach to assessing transition bonds

- Financing activities that contribute to carbon reduction in hard-to abate sectors
- Targeted at carbon intensive sectors for which low-carbon solutions are generally not yet available at scale



- a) Use of proceeds: Alignment of financed business activities and projects with Sustainalytics' transition eligibility criteria
- b) Project evaluation and selection
- c) Management of proceeds
- d) Allocation and impact reporting

#### ISSUER-LEVEL CONSIDERATIONS

- a) Alignment of the issuer's transition strategy and commitments with internationally established decarbonization pathways
- b) Alignment of the use of proceeds with the issuer's strategy and implementation plan



Quidence for Issuers

December 2020

5%

Climate Transition Finance Handbook

IL ICMA

# Second-Party Opinion Process

### Steps included in a typical engagement

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Post-issuance (optional)

1 Technical Sales Qualification	2 Kick-off Meeting	3 Evaluation	4 Feedback	5 Final Document	6
Conduct a preliminary analysis to technical details Flay concerns if any Receive Sustainalytics Taxonomy Team's approval for qualification Compliance check if needed	<ul> <li>Evaluate Use of Proceeds and eligibility criteria,</li> <li>OR</li> <li>Evaluate KPIs /SPTs reporting process and frequency</li> <li>Assess alignment of the instrument with sustainability strategy</li> </ul>	<ul> <li>Provide draft Second-Party Opinion to client</li> <li>Client circulates internally and provides feedback on the draft opinion</li> <li>Discuss any outstanding items/issues</li> </ul>	<ul> <li>Issuer provides final Framework</li> <li>FW and SPO are finalized by the Internal Review Committee</li> <li>Sustainalytics delivers final SPO</li> </ul>	<ul> <li>Provide marketing support during roadshows and investors meetings</li> <li>Coordinate press release</li> </ul>	- Review details to ensure compliance with relevant principles

Second-Party Opinion Examples





Bank Polski









# Questions Answers, and Discussions





### **Certification of Green Bonds**

The Certification Process has three distinct phases that are aligned with the normal process for issuing and maintaining a bond, loan or other debt instrument. This allows the *Certification Mark* to be used during the pricing and marketing of the bond or the negotiation of the loan or other debt instrument..

- 1. Pre-Issuance Certification: Assessment and Certification of the Issuer's internal processes, including its selection process for projects & assets, internal tracking of proceeds, and the allocation system for net proceeds. This phase includes the Issuer preparing a Green Bond Framework and a list of eligible projects & assets; verification of the framework and the list by an Approved Verifier; production of a Verifier's Report; Pre-Issuance Certification is valid until Post Issuance Certification is awarded.
- 2. Post-Issuance Certification: Assessment and Certification of the bond, loan or other debt instrument after it has been issued or has closed. This phase includes preparation of post-issuance updates; verification of the information by an Approved Verifier; production of a Verifier's Report; and provision of certification documents to the Climate Bonds Standard Secretariat.
- 3. Ongoing Certification: Maintenance of the Certification based on ongoing conformance with the Post-Issuance Requirements of the Climate Bonds Standard





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