

Second-Party Opinion

BCG Green Bond Framework

Evaluation Summary

Sustainalytics is of the opinion that Beijing Capital Group Company Limited's Green Bond Framework is credible and impactful and aligns with the four pillars of the Green Bond Principles 2017. Sustainalytics views BCG's green bond positively.

Key strengths:



USE OF PROCEEDS The eligible categories for the use of proceeds (Sustainable Waste Management, Air Pollution Control, Sustainable Water Management, Low Carbon Transportation, Sustainable Agriculture, Green Buildings) are recognized by the Green Bond Principles as project categories with positive environmental benefits.



PROJECT EVALUTION / SELECTION BCG's process for project evaluation and selection is executed through a dedicated Green Bond Working Group. This is in line with market best practice.



MANAGEMENT OF PROCEEDS BCG's management of proceeds is in line with market practice and it includes a "Green Bond Allocation Register" under the Framework. The Register is comprised of relevant information on all transactions and allocation of the net proceeds.



REPORTING BCG demonstrates a strong adherence to transparency in allocation and impact reporting. With regards to impact reporting, the company will report on an extensive set of quantitative and qualitative impact metrics for each eligible category, such as waste diverted from landfills (in tonnes), amount of wastewater treated (in tonnes), railway tracks built, repaired or modernized (in km), amount of energy saved (in MW) or CO₂ (or other GHGs) avoided (in tonnes), among other metrics.



Evaluation date	March 6, 2018
Issuer Location	Beijing, China

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For inquires, contact the Project Team:

Trisha Taneja (Toronto)

Senior Associate, Advisory Services trisha.taneja@sustainalytics.com (+1) 647 317 3695

Ankita Shukla (New York)

Senior Associate, Advisory Services ankita.shukla@sustainalytics.com (+1) 617 603 3329

Mihai Cojocaru (Timisoara)

Associate, Advisory Services mihai.cojocaru@sustainalytics.com (+40) 35 60 89 978

Charlotte Peyraud (New York)

Manager, Institutional Relations charlotte.peyraud@sustainalytics.com (+1) 646 518 0184



Introduction

Beijing Capital Group Company Limited ("BCG" or "the company") is a Chinese state-owned enterprise under the direct supervision of the State-owned Assets Supervision and Administration Commission of People's Government of Beijing Municipality (the "Beijing SASAC"). Together with its subsidiaries, BCG engages in environmental protection, infrastructure, real estate and financial services businesses in China and internationally. The company provides water, air pollution control, solid waste disposal, and environmental remediation services; it constructs rail transport, expressway, greenbelt and urban freeway infrastructure and develops commercial, new town properties and urban infrastructure. BCG is headquartered in Beijing, China.

BCG has developed a green bond framework¹ "BCG Green Bond Framework" or "Framework") under which it intends to issue multiple green bonds and use the proceeds to finance or refinance eligible categories related to supporting the environmental protection in China and overseas. BCG has engaged Sustainalytics to provide a second-party opinion on the BCG Green Bond Framework and its environmental credentials.

The net proceeds of each green bond will be used to finance or refinance, in whole or in part, existing and future projects that support environmental protection in China and overseas. Eligible categories include:

- 1. Sustainable Waste Management
- 2. Air Pollution Control
- 3. Sustainable Water Management
- 4. Low Carbon Transportation
- Sustainable Agriculture
- 6. Green Buildings

BCG engaged Sustainalytics to review the BCG Green Bond Framework and provide a second-party opinion on its alignment with the Green Bond Principles 2017 (the "GBP"), as administered by the International Capital Market Association (the "ICMA").²

As part of this engagement, BCG's management team provided additional information on the sustainability impact of their business processes and planned use of proceeds, as well as management of proceeds and reporting aspects of the BCG Green Bond Framework. Sustainalytics also reviewed relevant public documents and non-public information. Following this engagement between BCG and Sustainalytics, some elements of the Green Bond Framework were clarified to ensure an alignment with the level of disclosure expected by ICMA's Green Bond Principles 2017.

This document contains Sustainalytics' opinion of the BCG Green Bond Framework and should be read in conjunction with that framework.

¹ Available here: https://www.bjcapital.com/en/

² ICMA's Green Bond Principles 2017 https://www.icmagroup.org/assets/documents/Regulatory/Green-Bonds/GreenBondsBrochure-JUNE2017.pdf



Sustainalytics' Opinion

Section 1: Sustainalytics' Opinion on the BCG Green Bond Framework

Summary

Sustainalytics is of the opinion that the BCG Green Bond Framework is credible and impactful and aligns with the four pillars of the Green Bond Principles 2017. In addition, Sustainalytics highlights the following elements of the BCG Green Bond Framework:

- The eligible use of proceeds categories (Sustainable Waste Management, Air Pollution Control, Sustainable Water Management, Low Carbon Transportation, Sustainable Agriculture and Green Buildings) are recognized by the Green Bond Principles as project categories carrying positive environmental benefits. Further, BCG's specifically excludes fossil-fuel related assets;
- BCG's Sustainable Agriculture project category specifically targets investments in the promotion of
 sustainable farming methods; however, the framework does not specifically exclude genetically modified
 (GM) crop seeds. Sustainalytics encourages BCG to ensure that its investments in sustainable agriculture
 exceed China's current market standards allowing for regulated GM crops, animals, microorganisms and
 products derived from these sources³;
- BCG's Green Buildings criterion is based on third-party certification systems, specifically LEED
 (minimum Gold), BREAAM Plus (Silver, Gold or Platinum), China Green Building Standard and other
 equivalent Green Building labels. Sustainalytics assesses this engagement positively and encourages
 BCG to ensure that its green buildings obtain the highest-rated and most comprehensive certification
 schemes.
- BCG's process for project evaluation and selection is conducted annually through a dedicated "Green Bond Working Group" (the "GBWG") including members from various functional areas such as the Financial and Treasury Management Department, Capital Operations Department, Strategy Management Department and others. Sustainalytics considers this in line with market practices;
- The management of the use of proceeds is in line with market practice and it includes a "Green Bond Allocation Register" (or "the Register") under the Framework. The Register comprises relevant information about all transactions and allocations of the net proceeds;
- BCG demonstrates a strong adherence to transparency in allocation and impact reporting. The company
 commits to provide an annual green bond report comprised of allocation and impact reporting. The
 GBWG will review the allocation of the proceeds annually to ensure compliance with the eligible
 categories. With regards to impact reporting, BCG will report on an extensive set of quantitative and
 qualitative impact metrics for each eligible category.

Alignment with Green Bond Principles 2017:

Sustainalytics has determined that the BCG Green Bond Framework aligns to the four pillars of the Green Bond Principles 2017. For detailed information please refer to Appendix 1: Green Bond/Green Bond Programme External Review Form.

³ United States Congress Library, document available at: https://www.loc.gov/law/help/restrictions-on-gmos/china.php



Section 2: Sustainability Strategy of BCG

Contribution of framework to issuer's sustainability strategy

BCG complies with the ownership policies of China's State-owned Assets Supervision and Administration Commission of the State Council ("SASAC"), which oversees all state-owned companies on behalf of the Central Government of the People's Republic of China. SASAC's corporate social responsibility policies, laws and regulations apply to BCG's regular business practices. BCG confirmed to Sustainalytics that the company follows the Chinese government's vision, policy direction, and sustainability commitments – with the most important document being the "13th Five-Year Plan for Economic and Social Development of the People's Republic of China" ("13th Five-Year Plan"). China's 13th Five-Year Plan is a set of overarching environmental, social and economic initiatives which all Chinese State-owned companies are mandated to uphold during the 2016–2020 cycle. The Five-Year Plan requires:

- that 75% of China's national industrial parks and 50% of provincial level industrial parks be upgraded to promote circular operations. This plan also mandates the construction of 50 industrial centers that comprehensively utilize industrial waste in their operations, as well as the establishment of platforms for online recycling of urban waste, resource management in industrial parks and waste trading;
- a focus on water conservation works, such as the upgrading of water-saving equipment in industrial parks. It also
 encourages the use of recycled water and advanced wastewater treatment and recycling;
- the extension of high-speed rail lines to up to 30,000 kilometers of rail to connect more than 80% of all Chinese large cities; in the urbanized areas the 13th Five-Year Plan aims to develop the intercity and municipal (suburban) rail services to form core networks of rail transit lines one such project is the completion of the intercity rail networks for the Beijing Tianjin Hebei Region;
- that large-scale, high-efficiency and water-saving irrigation be introduced in all key irrigation areas in order to support resource efficiency and incentivize more sustainable agricultural practices; the Chinese government also set a plan to facilitate the adoption of the Internet of Things in field planting and establish monitoring and analysis in order to reduce pesticide and chemical fertilizer use in production and agricultural products;
- a 25% reduction in the number of days of heavy air pollution and ensure that the concentration of fine particulate matter is reduced by at least 25%.

Sustainalytics is of the opinion that the proceeds from BCG green bonds will be used by the company to contribute to the above commitments under China's Five-Year Plan. Sustainalytics encourages BCG to add time-bound and quantifiable targets complementing its internal commitments as well as the targets set out by the National 13th Five-Year Plan.

Well positioned to address common environmental and social risks associated with the projects

Sustainalytics recognizes that there are environmental and social risks typically associated with large waste, water and transportation infrastructure projects or sustainable water and green buildings projects. Such environmental and social risks would include disruption of ecosystems and biodiversity loss, air, noise or water pollution. BCG adheres to China's Environmental Impact Assessment Act, which requires the company to perform an environmental risk assessment for all projects (construction, reconstruction, expansion or refurnish) during the initial phase of project design and feasibility analysis. According to the Chinese Act, the company is required to undergo an assessment by an independent and certified environmental impact assessment agency. The impact assessment agency will be independent and shall present no potential conflicts of interest. Moreover, as a State-owned company, BCG is required to select the environmental impact assessment agency following an official tender process in order to safeguard against potential conflicts of interest.

BCG confirmed to Sustainalytics that, as part of the formal engagement with the environmental impact assessment agency, the latter would identify key risk factors potentially affecting the air, water, soil or human health. Moreover, the Chinese Act requires that the agency designs prevention and remediation solutions, advises on technologies and performs calculations and budget for such technologies. Following the formal engagement, the agency would send an official Environment Impact Assessment report to the Ministry of Environment Protection of China for final approval. Overall, Sustainalytics is confident that BCG is well positioned to identify, manage and mitigate environmental and social risks usually associated with the projects financed.

⁵ http://en.sasac.gov.cn/n1408035/c1477196/content.html

⁴ <u>http://en.sasac.gov.cn/index.html</u>

⁶ http://en.ndrc.gov.cn/newsrelease/201612/P020161207645765233498.pdf

http://www.zhb.gov.cn/gzfw_13107/zcfg/fl/201609/t20160927_364752.shtml



Section 3: Impact of Use of Proceeds

The proceeds of the bond will be used for projects in the following six categories:

- 1. Sustainable Waste Management
- 2. Air Pollution Control
- 3. Sustainable Water Management
- 4. Low Carbon Transportation
- 5. Sustainable Agriculture
- 6. Green Buildings

All of the above-mentioned green categories defined in the BCG Green Bond Framework are recognized as having beneficial environmental impacts by the Green Bond Principles 2017. Sustainalytics has highlighted the importance of air pollution control in the context of China below.

Additionally, due to its major economic growth in the past decades, China has experienced extensive air pollution, particularly in Beijing where, in 2018, USD 3 billion were allocated to fight air pollution. Beijing has a target to achieve "coal-free" status for low-lying areas by the end of 2018. This target is also aligned with China's national target to reduce average concentrations of airborne particles by more than 15% year-on-year in 28 northern cities.⁸ The allocated proceeds will contribute to the abovementioned targets.

Alignment with/contribution to SDGs

The Sustainable Development Goals (SDGs) were set in September 2015 and form an agenda for achieving sustainable development by the year 2030. The BCG Green Bond Framework advances the following SDG goals and targets:

Use of Proceeds Category	SDG	SDG target
Sustainable Waste Management	11. Sustainable Cities and Communities 3. Good Health and Well- being	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management 3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination
Air Pollution	11. Sustainable Cities and Communities 3. Good Health and Well- being	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management 3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination
Sustainable Water Management	6. Clean Water and Sanitation	By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
Low Carbon Transportation	Goal 9. Industry, Innovation and Infrastructure 11. Sustainable Cities and Communities	9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all 11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public

http://english.gov.cn/state_council/ministries/2017/03/30/content_281475611642694.htm

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		transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.
Sustainable Agriculture	2. Zero Hunger	2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.
Green Buildings	7. Affordable and Clean Energy	7.3 By 2030, double the global rate of improvement in energy efficiency 7.3.1 Energy intensity measured in terms of primary energy and GDP

Conclusion

Beijing Capital Group Company Limited has developed the BCG Green Bond Framework under which it intends to issue green bonds. The proceeds of the bonds will be used to finance or refinance expenditures in areas of (i) Sustainable Waste Management, (ii) Air Pollution Control, (iii) Sustainable Water Management, (iv) Low Carbon Transportation, (v) Sustainable Agriculture and (vi) Green Buildings. Sustainalytics is of the opinion that projects funded by the proceeds of the green bonds will help China to meet the sustainability commitments mandated by its 13th Five-Year Plan, in addition to contributing to SDGs 11, 3, 6, 9, 2, 7.

With regards to BCG's Sustainable Agriculture use of proceeds, Sustainalytics is aware that, although crops are procured by local sources, BCG does not currently have a method to track whether or not the crops are genetically modified (GM). Sustainalytics strongly encourages BCG to develop tracking methods to ensure proceeds are not financing GM crops.

Sustainalytics is of the opinion that the BCG Green Bond Framework is transparent, robust and aligns with the four pillars of the Green Bond Principles.



Appendices

Appendix 1: Green Bond / Green Bond Programme - External Review Form Section 1. Basic Information

	Issuer name:	Beijing	Capital Group Company Limited	
Gree	en Bond ISIN or Issuer Green Bond Framework Name, if applicable: [specify as appropriate]			
	Review provider's name:	Sustainalytics		
	Completion date of this form:	26 February 2018		
	Publication date of review publication: [where appropriate, specify if it is an update and add reference to earlier relevant review]			
Secti	on 2. Review overview			
SCOP	E OF REVIEW			
The fo	llowing may be used or adapted, where appropriate,	to summa	arize the scope of the review.	
The re	view assessed the following elements and confirmed	their alig	gnment with the GBPs:	
\boxtimes	Use of Proceeds	\boxtimes	Process for Project Evaluation and Selection	
	Management of Proceeds	\boxtimes	Reporting	
ROLE	C(S) OF REVIEW PROVIDER			
\boxtimes	Consultancy (incl. 2 nd opinion)		Certification	
	Verification		Rating	
П	Other (please specify):			

EXECUTIVE SUMMARY OF REVIEW and/or LINK TO FULL REVIEW (if applicable)

Note: In case of multiple reviews / different providers, please provide separate forms for each review.

Please refer to the Green Bond Framework for Beijing Capital Group Co. Ltd., available at: https://www.bjcapital.com/en/



Section 3. Detailed review

Reviewers are encouraged to provide the information below to the extent possible and use the comment section to explain the scope of their review.

1. USE OF PROCEEDS

Overall comment on section (if applicable):

Use of proceeds categories as per GBP:

Proceeds of the green bonds will be used to refinance or finance, in whole or in part, existing (refinancing) and future eligible categories relating to the environmental protection in China and overseas. The proceeds will be used towards project relating to: (i) Sustainable Waste Management, (ii) Air Pollution Control, (iii) Sustainable Water Management, (iv) Low Carbon Transportation, (v) Sustainable Agriculture and (vi) Green Buildings.

All the eligible project categories align with those recognized by the Green Bond Principles as having clear environmental benefits. Additionally, Sustainalytics is of the opinion that projects funded by the proceeds of the green bonds will positively contribute to advance the sustainability commitments mandated by China's 13th Five-Year Plan, as well as the SDGs 11, 3, 6, 9, 2, 7.

	Renewable energy		Energy efficiency
\boxtimes	Pollution prevention and control	\boxtimes	Environmentally sustainable management of living natural resources and land use

- ☐ Terrestrial and aquatic biodiversity conservation
 ☐ Clean transportation
 ☐ Sustainable water and wastewater management
 ☐ Climate change adaptation
- ☐ Eco-efficient and/or circular economy adapted ☐ Green buildings products, production technologies and processes
- ☐ Unknown at issuance but currently expected to ☐ Other (please specify): conform with GBP categories, or other eligible areas not yet stated in GBPs

If applicable please specify the environmental taxonomy, if other than GBPs:

2. PROCESS FOR PROJECT EVALUATION AND SELECTION

Overall comment on section (if applicable):

BCG's process for project evaluation and selection is conducted annually through a dedicated 'Green Bond working Group' (the "GBWG") including members from various functional areas such as the Financial and Treasury Management Department, Capital Operations Department, Strategy Management Department and others. Sustainalytics considers this in line with market practices.



Eval	luation and selection		
	Credentials on the issuer's environmental sustainability objectives		Documented process to determine that projects fit within defined categories
	Defined and transparent criteria for projects eligible for Green Bond proceeds		Documented process to identify and manage potential ESG risks associated with the project
	Summary criteria for project evaluation and selection publicly available		Other (please specify):
Info	rmation on Responsibilities and Accountability		
\boxtimes	Evaluation / Selection criteria subject to external advice or verification		In-house assessment
	Other (please specify):		
3. M	ANAGEMENT OF PROCEEDS		
Ove	rall comment on section (if applicable):		
Regi			ket practices and it includes a "Green Bond Allocation rk. The Register comprises relevant information about all
Trac	cking of proceeds:		
\boxtimes	Green Bond proceeds segregated or tracked by the	e issue	er in an appropriate manner
	Disclosure of intended types of temporary investr	nent ii	nstruments for unallocated proceeds
	Other (please specify):		
Add	itional disclosure:		
	Allocations to future investments only		Allocations to both existing and future investments
	Allocation to individual disbursements		Allocation to a portfolio of disbursements
	Disclosure of portfolio balance of unallocated proceeds		Other (please specify):

4. REPORTING

Overall comment on section (if applicable):



BCG demonstrates a strong adherence to transparency in allocation and impact reporting. The company commits to provide an annual green bond report comprising an (i) allocation reporting and an (ii) impact reporting. The GBWG will review the allocation of the proceeds annually to ensure compliance with the eligibility criteria. With regards to impact reporting, BCG will report on an extensive set of quantitative and qualitative impact metrics for each eligible category. Example for impact reporting key performance indicators (KPIs) include: waste diverted from landfills (in tonnes), amount of wastewater treated (in tonnes), railway tracks built, repaired or modernized (in km), amount of energy saved (in MW) or CO₂ (or other GHGs) avoided (in tonnes) etc. Sustainalytics evaluates BCG's allocation and impact reporting as being in line with market practices.

Use	of proceeds report	ing:			
\boxtimes	Project-by-projec	t	\boxtimes	On a proj	ect portfolio basis
	Linkage to indivi	dual bond(s)		disclose e and Proje	ease specify): the company will examples of Eligible Green Assets ects, but will be subject to iality disclosures.
	Information r	reported:			
	\boxtimes	Allocated amounts			Green Bond financed share of total investment
		Other (please specify):			
	Free	quency:			
		Annual			Semi-annual
		Other (please specify):			
Imp	act reporting:				
	Project-by-projec	t	\boxtimes	On a pro	ject portfolio basis
	Linkage to indivi	dual bond(s)		BCG will impact n Green A	lease specify): where feasible, Il report on the environmental netrics resulting from Eligible ssets and Projects (project-by- mpact reporting).
	Fre	quency:			
	\boxtimes	Annual			Semi-annual
		Other (please specify):			
	Info	ormation reported (expected o	or ex-	post):	
		GHG Emissions / Savings		\boxtimes	Energy Savings
		Decrease in water use			Other ESG indicators (please specify): see framework for full list



Re	Review provider(s): Date of publication:					
	Other (please specify):					
	Verification / Audit		Rating			
	Consultancy (incl. 2 nd opinion)		Certification			
Type(s) of Review provided:						
SPECIFY OTHER EXTERNAL REVIEWS AVAILABLE, IF APPROPRIATE						
<u>httr</u>	https://www.bjcapital.com/en/					
USF	EFUL LINKS (e.g. to review provider methodolog	gy or	credentials, to issuer's documentation, etc.)			
Whe	ere appropriate, please specify name and date of pub	licati	ion in the useful links section.			
	Reporting reviewed (if yes, please specify which parts of the reporting are subject to external review):					
\boxtimes	Information published in ad hoc documents		report Other (please specify):			
	Information published in financial report		Information published in sustainability			
11100	ins of Disclosure					

ABOUT ROLE(S) OF REVIEW PROVIDERS AS DEFINED BY THE GBP

- i. Consultant Review: An issuer can seek advice from consultants and/or institutions with recognized expertise in environmental sustainability or other aspects of the issuance of a Green Bond, such as the establishment/review of an issuer's Green Bond framework. "Second Party Opinions" may fall into this category.
- ii. Verification: An issuer can have its Green Bond, associated Green Bond framework, or underlying assets independently verified by qualified parties, such as auditors. In contrast to certification, verification may focus on alignment with internal standards or claims made by the issuer. Evaluation of the environmentally sustainable features of underlying assets may be termed verification and may reference external criteria.
- iii. Certification: An issuer can have its Green Bond or associated Green Bond framework or Use of Proceeds certified against an external green assessment standard. An assessment standard defines criteria, and alignment with such criteria is tested by qualified third parties / certifiers.
- iv. Rating: An issuer can have its Green Bond or associated Green Bond framework rated by qualified third parties, such as specialized research providers or rating agencies. Green Bond ratings are separate from an issuer's ESG rating as they typically apply to individual securities or Green Bond frameworks / programmes.



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The Opinion was drawn up with the aim to explain why the analyzed bond is considered sustainable and responsible. Consequently, this Opinion is for information purposes only and Sustainalytics will not accept any form of liability for the substance of the opinion and/or any liability for damage arising from the use of this Opinion and/or the information provided in it.

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The client is fully responsible for certifying and ensuring its commitments` compliance, implementation and monitoring.



Sustainalytics

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For more information, visit www.sustainalytics.com

Or contact us info@sustainalytics.com





