

An S&P Global Second Party Opinion (SPO) includes S&P Global Ratings' opinion on whether the documentation of a sustainable finance instrument, framework, or program, or a financing transaction aligns with certain third-party published sustainable finance principles. Certain SPOs may also provide our opinion on how the issuer's most material sustainability factors are addressed by the financing. An SPO provides a point-in-time opinion, reflecting the information provided to us at the time the SPO was created and published, and is not surveilled. We assume no obligation to update or supplement the SPO to reflect any facts or circumstances that may come to our attention in the future. An SPO is not a credit rating, and does not consider credit quality or factor into our credit ratings. See [Analytical Approach: Second Party Opinions](#).

Second Party Opinion

Grupo Energía Bogotá (GEB) S.A. ESP's Sustainable Financing Framework

Nov. 2, 2023

Location: Colombia

Sector: Utility Networks

Primary contacts

Victor Laudisio
Sao Paulo
victor.laudisio
@spglobal.com

Azul Ornelas
Mexico City
azul.ornelas
@spglobal.com

Luis Solis
Madrid
luis.solis
@spglobal.com

Alignment With Principles

Aligned = ✓ Conceptually aligned = ○ Not aligned = ✗

- ✓ Social Bond Principles, ICMA, 2023
- ✓ Social Loan Principles, LMA/LSTA/APLMA, 2023
- ✓ Green Bond Principles, ICMA, 2021 (with June 2022 Appendix 1)
- ✓ Green Loan Principles, LMA/LSTA/APLMA, 2023
- ✓ Sustainability Bond Guidelines ICMA, 2021

See [Alignment Assessment](#) for more detail.

EU taxonomy

Fully aligned

Partially aligned

Not aligned

Strengths

Robust human rights due diligence process and disclosure. Despite operating in regions (Colombia, Peru, Guatemala, and North of Brazil) with high social risks, GEB has a robust human rights screening process to ensure its activities and value chain are not linked with human rights breaches.

Issuer commits to have climate risk and vulnerability assessments to all financed assets under the framework. This involves, in the near future, performing a quantitative climate scenario analysis using the best available science to inform each assets' adaptation plan.

Weaknesses

Emissions lock-in risk in pollution prevention and access to basic infrastructure project categories because of its emphasis on natural gas. While for the green category the company commits to retrofitting pipelines to blend green hydrogen with natural gas in the future, the social category considers natural gas infrastructure. While there is a social benefit from creating new natural gas connections to replace the use of firewood for communities in an underdeveloped region, perpetuating natural gas infrastructure introduces high obsolescence risk. Still, the affordability of natural gas versus electricity in Colombia and Peru as well as the public health benefits of transitioning the targeted households from firewood and coal to natural gas support the social contribution of the investments.

Emission reduction targets do not include Scope 3 emissions. Indirect emissions account for a big portion of the midstream gas operators total GHG emissions.

Areas to watch

The availability of green hydrogen for GEB to transport is uncertain. Green hydrogen and low carbon gases should become relevant clean fuel sources in a low carbon and climate resilient future (LCCR). However, there is still uncertainty relating to their increased production and use in Colombia. If there is insufficient supply and demand for these gases, GEB's gas distribution network could perpetuate the use of natural gas, which we do not consider aligned to a LCCR future. We note that Colombia is expected to phase out the use of natural gas in electricity by 2040. The sector represented about 20% of natural gas demand in Colombia over the last four years (SEGAS, 2023).

Electric grid projects financed under the framework may supply electricity to high carbon intensive sectors such as oil and gas, through direct connections. Although these represent a somewhat low proportion of the total electricity delivered.

Eligible Green Projects Assessment Summary

Eligible projects under issuer's green finance framework are assessed based on their environmental benefits and risks, using Shades of Green methodology.

Pollution prevention & control Light green

Expenditures related to replacement or retrofitting of natural gas transmission and distribution networks, which enable the integration of hydrogen and other low-carbon gases.

Construction, development, and/or maintenance of facilities, systems, or equipment aiming at reducing greenhouse gas (GHG) emissions or replacement projects and/or GHG control devices.

Renewable energy Dark green

Expenditures in electricity transmission lines that facilitate increased development and connection of renewable electricity generation sources.

Expenditures related to the development, expansion, construction, maintenance, acquisition, and/or operation of renewable energy projects.

Energy efficiency Light green

Expenditures related to projects that will result in increased energy efficiency, based on GEB's best efforts to ensure all projects achieve at least a 15% energy efficiency improvement.

Climate change adaptation and circular economy Dark green

Investments related to upgrading, improving, and/or retrofitting of electrical transmission infrastructure and substations to enhance resiliency to weather-related events, including severe hurricanes and forest fires.

Expenditures related to reducing /preventing waste (including landfill).

Terrestrial and aquatic biodiversity protection Dark green

Expenditures on projects related to the restoration and conservation of existing natural resources and/or biodiversity, including maintenance, protection and identification of endangered flora and fauna in areas where GEB operates.

See [Analysis Of Eligible Projects](#) for more detail.

Editor's Note: This report includes our opinion on GEB's Sustainable Financing Framework alignment to the EU taxonomy. This report supersedes the SPO originally published on Oct. 30, 2023.

EU Taxonomy Summary

Technical screening criteria								Minimum safeguards	Overall alignment
Substantial contribution	Do no significant harm (DNSH)								
	Climate mitigation	Climate adaptation	Sustainable water	Circular economy	Pollution prevention	Biodiversity protection			
4.1 Electricity generation using solar photovoltaic technology (Renewable energy category)								✓	✗
✓	Climate mitigation	✓	✗	N/A	✓	N/A	✓		
4.2 Electricity generation using concentrated solar power (CSP) technology (Renewable energy category)									
✓	Climate mitigation	✓	✗	✓	✓	N/A	✓		
4.3 Electricity generation from wind power (Renewable energy category)									
✓	Climate mitigation	✓	✗	N/A	✓	N/A	✓		
4.9 Transmission and distribution of electricity (Renewable energy category)									
✓	Climate mitigation	✓	✗	N/A	✓	✗	✓		
4.10 Storage of electricity (Energy efficiency energy category)									
✓	Climate mitigation	✓	✗	N/A	✓	N/A	✓		
4.14 Transmission and distribution networks for renewable and low-carbon gases (Pollution Prevention & Control category)									
✓	Climate mitigation	✓	✗	✓	N/A	✓	✓		
7.5 Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings (Energy efficiency energy category)									
✓	Climate mitigation	✓	✓	N/A	N/A	N/A	N/A		
7.6 Installation, maintenance and repair of renewable energy technologies (Renewable energy category)									
✓	Climate mitigation	✓	✓	N/A	N/A	N/A	N/A		
Climate Change Adaptation and Circular Economy category									
—	Not applicable	—	—	—	—	—	—		
Terrestrial and Aquatic Biodiversity Protection category									
—	Not applicable	—	—	—	—	—	—		

See [EU Taxonomy Alignment](#) for more detail.

Aligned = ✓ Not aligned = ✗ Not covered by the technical screening criteria = —

Issuer Sustainability Context

This section provides an analysis of the issuer's sustainability management and the embeddedness of the financing framework within its overall strategy.

Company Description

GEB, along with its subsidiaries, operates in the transportation and distribution of natural gas in Colombia and Peru, and in electricity transmission and distribution in Colombia, Peru, Guatemala and Brazil. GEB has more than 2,500 employees across the region, serving close to 4.5 million customers in electricity distribution and 4.2 million customers in natural gas distribution. The company also engages in power generation through its wholly owned subsidiary, Peru Power Co., and its 42.5% stake in Enel Colombia, which owns renewable (hydro, wind, and solar; 90% of installed capacity) and natural gas-fired plants (remaining 10%) with a total installed capacity of approximately 4.5 gigawatts (GW) in Colombia and Central American countries. Given Colombia's power grid high reliance on hydropower, the country sees natural gas as a strategic fuel to ensure grid stability and mitigate renewables intermittency. The City of Bogotá controls GEB, holding a majority ownership stake of 65.7%.

Material Sustainability Factors

Climate transition risk

Climate transition risks are highly material to electricity and gas network operators given their critical role in the energy delivery value chain and their direct exposure to upstream generators, which are a leading cause of GHG emissions. These drivers make the sector highly susceptible to growing public, political, legal, and regulatory pressure about their contribution in the achievement of climate goals. According to the International Energy Agency, the ongoing decarbonization of the energy sector is expected to triple its reliance on renewable power by 2030, which comes with significant grid expansion. In the gas network sector, continued focus on reducing reliance on methane-emitting natural gas could diminish growth prospects, making it more difficult to effectively manage regulatory risk.

Physical climate risk

Utility networks operate fixed assets that span large service territories, making them highly exposed to physical climate risks. These events can cause network service disruptions for large populations, elevating stakeholder materiality. Wildfires, hurricanes, and winter storms are becoming more frequent and severe. These events disrupt service, leading to gas or power outages for large populations. Additionally, given fixed assets, generators are relatively more exposed to physical climate risks compared with other sectors. In turn, these dynamics, coupled with regulatory pressure to preserve security of supply, are driving players to enhance their assets' resilience. The physical climate risks generally involve significant financial losses for operators due to repairs, but more importantly from exposure to extreme power price spikes or claims due to business disruption. We expect these dynamics to continue but vary regionally depending on regulatory responses. Colombia's natural gas infrastructure is particularly exposed to changes in precipitation levels that can cause landslides and affect infrastructure, while electric grids can be exposed to wildfire risks during extended drought periods. In addition, extended drought periods could affect water availability of hydropower generation (most relevant source of electricity for Colombia), and therefore impact the stability of the power grid.

Access & affordability

Energy is an essential service supporting human health and well-being and global economic development. New regulatory requirements, the energy transition, and the physical aspects of climate change could exacerbate service disruptions or steep price increases. Additionally, for renewable energy utilities, intermittency of such power generation sources can affect the availability and useability of supply. That said, industry reliability has improved, and we expect this to continue as many utilities use long-term integrated resource planning, which accounts for many of these risks and a higher penetration of energy storage

systems. Customer affordability is key stakeholder concern, as utility bills can affect households' purchasing power and the competitive strengths of local industries. In some jurisdictions, we see mechanisms to mitigate affordability concerns, with assistance programs such as tariff subsidies. Moreover, some developing markets have yet to achieve full coverage of energy to the entire population, which limits sustainable development. According to the International Energy Agency, 3% and 6% of Colombia's population still lack access to electricity and cooking fuels and technologies, respectively.

Biodiversity and resource use

New pipeline infrastructure for green hydrogen and low-carbon fuels transportation is slowly expanding to meet climate goals. New gas networks often necessitate linear land tracks, which can have adverse impacts on biodiversity. Impacts can include reduced plant and animal species because of vegetation suppression and habitat fragmentation. This can lead to a decline in ecosystem services (services provided by nature such as soil erosion management) that support an asset's resilience. For example, for pipelines in mountainous and vegetation-rich areas, less vegetation can make the area more susceptible to landslides. In most jurisdictions, local regulations mandate that new projects undergo environmental impact assessments to identify biodiversity risks and place mitigation measures to avoid or minimize potential harm, including ensuring sufficient soil cover quality. Furthermore, air, land, or water pollution resulting from gas pipeline leaks or oil spills makes it one of the most material environmental factors, in addition to the sourcing of various metals used building these assets.

Impact on communities

Community impacts from utility networks may be acute given networks' proximity to where people live and work and the essential nature of energy services in community development and well-being globally. Stakeholder impacts arise from the construction and siting of lines--especially in areas unaccustomed to industrial development and in indigenous territories. Construction and siting of lines is accelerating to meet climate goals and is occurring in areas where eminent domain is granted by local governments. Moreover, service disruptions could include fires, gas explosions, and sometimes irreversible, community health and safety hazards. Renewable energy projects are typically situated in secluded areas, either rural, indigenous, or other communities. While construction of renewable energy projects can promote job creation, improve energy access, and reduce air pollution, they may also displace communities and compete for land with other vital activities that are part of traditional land management, like agriculture. This can lead to community opposition, conflicts over land rights, and resource allocation issues. It is crucial for the sector to minimize the environmental and social impact, secure community consent, and ensure that local communities benefit from its assets implementation.

Issuer And Context Analysis

GEB, through its financing framework, aims to address climate transition risks, a material sustainability factor (MSF), by building new transmission and distribution networks carrying renewable power and by retrofitting natural gas infrastructure to enable green hydrogen blending. Its green projects also include energy efficiency projects, which further supports GEB's effort to reduce its carbon footprint and support energy transition of countries where it operates. In addition, GEB seeks to mitigate its exposure to physical climate risk, a MSF, by including investments to improve the resiliency of its electrical transmission infrastructure in its framework. The company commits to following EU Taxonomy requirements for its adaptation plans. Furthermore, GEB's development of new gas networks and operations in a highly biodiversity rich region, including the Amazon, makes it uniquely exposed to biodiversity and resource use risk compared with the global utility networks sector. Through its framework, GEB aims to address such MSFs by allocating proceeds to terrestrial biodiversity protection projects.

Social financing aims to expand and improve access to affordable energy. Social projects financed under the framework, by targeting individuals that are low income, live in rural areas without any access or are underserved, aim to address access and affordability concerns, which we also view as a MSF for GEB. Other social projects financed under the framework aim to have a positive impact on communities by providing education, access to fiber optics and satellite communication to specific target populations.

Green projects under the framework, specifically renewable energy, expansion of electricity transmission and distribution (T&D) network, and projects enabling hydrogen integration are

key to address climate transition. The company plans to expand its electricity T&D network, which predominantly carries renewables, from 18,829 kilometers (km) to more than 21,000 km by 2030. This supports GEB's efforts to reduce its carbon footprint and contributes to the energy transition of Colombia and Peru.

GEB has set 2030 and 2050 GHG emissions reduction targets. By 2030, GEB commits to reduce scope 1 and 2 GHG emissions by 51% for Colombian assets under operational control, 30% for Peruvian operations, and 11.2% in Guatemala compared with 2019 emissions. GEB is committed to achieving scope 1 and 2 neutrality for companies in which it has a controlling stake by 2050. However, these commitments are highly reliant on carbon offsets from nature-based solutions (NbS), as the company expects to offset 38% of its scope 1 and 2 emissions. The reliance on offsets, together with the uncertainty about their additionality, extent, and permanence of the NbS used by GEB, is a limitation in our view. Additionally, GEB's emission reduction commitments do not include scope 3, which is highly relevant for the company given the natural gas use of its customers. The use of products sold (scope 3 category 11) generally accounts for the bulk of midstream operators' emissions.

GEB has developed the framework while trying to incorporate the four elements from ICMA's 2023 Climate Transition Finance Handbook (CTFH). Adhering to the first element, GEB's transition strategy has been approved by its board of directors and has dedicated oversight at the senior management level. Its transition strategy and GHG emissions reduction targets mirror Nationally Determined Contributions (NDCs) of Colombia, Peru and Guatemala, which are subject to periodic updates every five years to ensure progress towards the Paris Agreement's goal. On the second element, we believe that financed projects under the framework will contribute to the GHG emissions reductions including scope 3. Since September 2023, GEB has reported on scope 3 emissions across some categories, including upstream emissions exposure to gas production, but has yet to report on the use of products sold (category 11). Under the third element, for a credible transition strategy, the CTFH encourages issuers to benchmark their emission reduction, across all three scopes, to science-based pathways. Even though GEB has developed a decarbonization pathway based on the NDCs, it is not clear that its emissions reduction trajectory aligns to a below 2°C scenario at minimum. Therefore, the company fails to fully meet the third element. Nevertheless, the company has taken steps to model its emissions reduction trajectory for scopes 1 and 2 (which highly relies on offsets) and commits to referencing science based pathways in the future. Finally, aligning to the transparency element, GEB commits to publish its annual capex plans related to its transition strategy and the cost of carbon being used. Projects financed under the framework, such as the investments in electricity grids that only transport low carbon electricity, support Colombia's public commitment to phase out natural-gas based electricity by 2040.

GEB commits to assessing its exposure to physical climate risks using climate scenarios. The company commits to performing a climate risk vulnerability assessment for all assets financed under the framework. It also commits to developing an adaptation plan modeled after EU Taxonomy requirements, which we view as a strength. This will begin with its Colombian electricity transmission and gas transportation in 2024. GEB aims to allocate a portion of proceeds to build additional resilience to its electricity transmission lines, which is a positive step to address this MSF.

Using proceeds from issuances made under the framework, the company will increase access to electricity and gas by installing solar photovoltaic power in areas not connected to its electricity grid. Also, GEB aims to create new natural gas connections to replace the use of firewood and coal for communities in the south of Colombia and Peru (see more details about the social benefit of such projects under the Analysis of Eligible Projects section).

Projects financed under the terrestrial biodiversity protection category look to mitigate GEB's exposure to biodiversity risks. Under the legislation of the countries where it operates, the company can maintain or build assets in national protected areas, if it complies with the biodiversity loss prevention and compensation measures set out during environmental licensing. However, we believe that if safeguards and appropriate restoration activities are not fully

conducted, considering the company's harm on biodiversity can be significant given the region where it operates. To avoid such issues, beyond adhering to local regulation, GEB also commits to using the biodiversity mitigation hierarchy for new projects. We believe intended allocations for this project category are modest relative to new gas infrastructure in the south of Colombia.

The impact of eligible projects on communities is relevant. In the past, some of GEB's electricity transmission line activities received community push back. To better mitigate this risk, in addition to internal policies, GEB indicated it will perform social impact assessments on all projects financed under this framework, avoiding assets in high social risk areas, or developing mitigation strategies prior to construction. We note however that it is not applicable to the projects' supply chains. We believe social projects financed under the framework can have a positive impact on communities by addressing two relevant social gaps in the region: access to education and energy.

Alignment Assessment

This section provides an analysis of the framework's alignment to the Social and Green Bond/Loan principles and the Sustainability Bond Guidelines.

Alignment With Principles

Aligned = ✓ Conceptually aligned = ○ Not aligned = ✗

- ✓ Social Bond Principles, ICMA, 2023
- ✓ Social Loan Principles, LMA/LSTA/APLMA, 2023
- ✓ Green Bond Principles, ICMA, 2021 (with June 2022 Appendix 1)
- ✓ Green Loan Principles, LMA/LSTA/APLMA, 2023
- ✓ Sustainability Bond Guidelines ICMA, 2021

✓ Use of proceeds

All the framework's green project categories are shaded in green and all social project categories are considered aligned with the Principles. The company commits to disclosing the share of financing versus refinancing in its allocation of proceeds. The maximum look-back period is two years, in line with market practice. Please refer to the Analysis of Eligible Projects section for more information on our analysis of the environmental and social benefits and risks for the expected use of proceeds.

✓ Process for project evaluation and selection

The framework articulates the process to select and evaluate the green and social projects. Executives from the company's sustainability and communication as well as finance departments and respective technical teams will be responsible for evaluating and approving eligible projects under the framework. Eligible projects will be subject to the company's due diligence process, and environmental and social risks will be assessed. These assessments follow internal policies and are aligned to local regulations. Moreover, the company identifies relevant objectives for all eligible green and social projects and defines target populations based on external references from the applicable jurisdiction of the eligible social project.

✓ Management of proceeds

GEB will maintain a register to track the allocation of proceeds. The company intends to allocate an amount equal to the net proceeds within three years from the date of each issuance. Semi-annually, representatives from the departments will review the eligibility of projects and reallocate proceeds within 12 months if any projects fail to meet eligibility criteria or exclusion criteria. Unallocated proceeds will be managed according to GEB's corporate policies and may be held on GEB's balance sheet, used for other capital management activities, invested in cash, cash equivalents and/or other liquid instruments and/or used to

pay outstanding indebtedness, which we do not view as best market practice. Investing unallocated proceeds in controversial or high-emitting GHG sectors or activities is forbidden, which we view as positive.

✓ Reporting

GEB commits to publish its "Sustainable Instrument Financing Report" annually or in the event of material changes until the maturity of the instruments issued under the framework. The report will include the allocation of net proceeds, a brief description of financed projects and the remaining balance of unallocated proceeds. In addition, the company commits to disclosing the expected environmental and social impacts of financed projects, where feasible. The report will be available at the company's public website under its investor relations section.

Analysis Of Eligible Projects

This section provides details of our analysis of eligible projects, based on their environmental benefits and risks, using the "[Analytical Approach: Shades Of Green Assessments](#)," as well as our analysis of eligible projects considered to have clear social benefits and to address or mitigate a key social issue.

GEB will allocate proceeds to new and existing projects. For existing projects, it will use proceeds to refinance investments or expenditures that took place within two years prior to the issuance of a new sustainable financing instrument. New financing relate to spending on future expected investments for the next 36 months after the issuance date of any instrument under the framework. Refinancing considers investments made 24 months prior to the issuance date of any instrument under the framework.

The expected allocation informed below considers the initial issuance. Some categories are not yet contemplated as the company has yet to define the expected allocation for each subproject for the next issuances. Once defined, the company commits to report on allocation of net proceeds by project category.

For green project categories of the initial issuance, GEB expects to allocate 92% to renewable energy projects and 8% to energy efficiency. The expenditures for the first issuance made under the framework therefore does not cover the following projects: pollution prevention & control, climate change adaptation and circular economy, and some projects under energy efficiency and terrestrial and aquatic biodiversity protection categories.

For social projects of the initial issuance, GEB expects to allocate 71% to access to essential services and 29% to employment generation. These percentages do not contemplate the socioeconomic advancement and empowerment and access to basic infrastructure categories.

The framework contains an exclusion list for the financing of activities such as exploration and production of fossil fuels, activities comprising human rights exploitation, among others.

Green project categories

Pollution prevention and control

Assessment

 Light green

Description

Expenditures related to replacement or retrofitting of natural gas transmission and distribution networks that enables the integration of hydrogen and other low-carbon gases (e.g., biogas), which enable increasing the share of cleaner energy sources into

the national systems while maintaining the current network's operating and safety standards.

Hydrogen criteria: To be eligible, one of the following thresholds must be met: (1) Electricity to be produced by electrolysis and powered 100% by renewable energy sources OR (2) Direct CO₂ emissions from manufacturing of hydrogen: 0.95 tCO₂e/t Hydrogen or less, OR (3) Electricity use for hydrogen produced by electrolysis is at or lower than 50 MWh/t Hydrogen, OR (4) The average carbon intensity of the electricity produced that is used for hydrogen manufacturing is at or below 100 gCO₂e/kWh (taxonomy threshold for electricity production is subject to periodical update).

Construction, development, and/or maintenance of facilities, systems or equipment aiming at reducing greenhouse gas emissions ("GHG", including Sulphur Hexafluoride or "SF₆") or replacement projects and/or GHG control devices (i.e. release monitoring equipment).

Analytical considerations

- We consider GEB's investments in retrofitting its existing gas T&D infrastructure in Colombia and Peru, to which will receive a blend of green hydrogen or biomethane in the future, as light green. This stems from a balance between two key factors.
 - The first, retrofitting reduces the obsolescence risk of the existing natural gas infrastructure and allows for the delivery of a cleaner fuel alternative to hard-to-abate activities (i.e., oil refineries, heavy duty trucks and fertilizer production; see expected uses in Colombia below). GEB has committed to not increasing the capacity of natural gas transportation for the retrofitted pipelines financed under this framework, so any new financing will not increase climate impact stemming from fossil fuels. By adapting the existing infrastructure, GEB incentivizes the production of low-carbon gas alternatives to the less affluent Colombian domestic market. In the medium-term, once the cost of green hydrogen production equals that of natural gas, we believe the retrofitting could serve the domestic use of green hydrogen in Colombia.
 - The second, GEB will continue to serve carbon-intensive sectors, such as oil refiners, which may extend the useful life of highly polluting assets in the economy. In addition, the maximum feasible green hydrogen blend is expected to be 20% based on current technological and health and safety considerations. The energy density of green hydrogen is lower than natural gas (methane), therefore the retrofitted pipeline will not provide a 1:1 reduction in natural gas related emissions. Still, we note that globally this is currently the best available alternative for pipeline retrofitting to reduce natural gas related emissions. In the short term, GEB does not have plans to make additional investments in new retrofitting technology to support a higher blending capacity. However, GEB will assess investment opportunities in new technologies as they become available.
- We see investments aimed at the reduction of SF₆ emissions, a harmful GHG, from electricity transmission lines as dark green, commensurate with our overall view of GEB's investments in eligible transmission lines (see details in the renewable energy category). GEB expects to achieve a reduction by investing in electrical equipment such as switchgears and breakers that either reduce the risk of SF₆ leakage or that are SF₆ free.
- Given that most of proceeds are going to retrofitting its natural gas infrastructure, which receives a light green shade, the overall assessment is light green.
- The company does not expect to finance blue hydrogen transportation given the framework's emissions threshold criteria of 0.95 tCO₂e per tonne of hydrogen produced. Blue hydrogen emissions are expected to be 1.5 tCO₂e per tonne of hydrogen produced in Colombia. The current regulation does not allow for green hydrogen transportation as the current minimum gas quality parameters set by Colombia's natural gas regulator (Unified Transport Registry for Natural Gas; RUT) makes the transportation of any blend of green hydrogen with natural gas unfeasible.

- Furthermore, RUT currently does not allow for the transport of biomethane in GEB's main gas pipeline network in Colombia. Therefore, even though GEB participates in engineering and economic feasibility studies, retrofitted pipelines would not be able to transport a blend of green hydrogen in the short term. In addition to an update to Colombia's regulatory framework, investments in this project category are also dependent on a ramp-up of biomethane and green hydrogen production in the country (see details below).
- Colombia's Ministry of Mines and Energy has recently published its hydrogen roadmap which includes clear short-, medium-, and long-term objectives to increase hydrogen, production, distribution, and use. Within Colombia's roadmap, the regulatory framework change, that would allow for hydrogen transportation, is estimated to occur within the next three to five years. Green hydrogen production is estimated to range from 0.15 to 0.4 million tons by 2030.
- The roadmap projects fossil fuel refining to be the first sector that will use green hydrogen (replacing grey hydrogen). The demand from the transportation sector is estimated to start in 2026, primarily in heavy-duty road transport (buses and trucks), potentially reaching light vehicles by the end of the decade. By the same time, the roadmap projects the use of green hydrogen in the production of fertilizers (via ammonia).
- Beyond 2035, the roadmap foresees the use of hydrogen (and derivatives) in other carbon-intensive activities such as mining fleets and marine transport. We note that the roadmap's implementation is subject to external factors, such as policy makers willingness and investor appetite, which could limit GEB's ability to transport green hydrogen.
- The biomethane GEB will transport will be generated in facilities that transform agricultural residue, municipal waste, or wastewater into methane. We note that the company does not have any specific criteria to produce the biomethane transportation. However, Colombia's regulation sets strict guidelines on biomethane production, which mitigates the climate impact risk of the absence of GEB's criteria, in our view.
- The company is developing physical risk adaptation plans for its gas infrastructure. The company expects to complete a climate risk and vulnerability assessment in 2024, to then implement adaptation measures.

Renewable energy

Assessment

 **Dark green**

Description

Expenditures in electricity transmission lines that facilitate increased development and connection of renewable electricity generation sources. Transmission and distribution of electricity projects will be considered as eligible where:

- the building or repair of grid infrastructure with average system grid emissions factor of less than 100gCO₂e/kWh over a rolling five-year period; or
- the transmission lines would be either dedicated exclusively to renewable energy power plants or would carry at least 67% renewable energy; or
- the company considers improving electrical systems for more efficient electricity (including smart grid development, distributed generation dedicated to reducing curtailment of renewable energy to the grid and peak demand management).

Expenditures related to the development, expansion, construction, maintenance, acquisition, and/or operation of renewable energy projects, such as:

- Solar Sources (Photovoltaic and Concentrating Solar Power (“CSP”)); or
- Wind Sources (onshore)

Analytical considerations

- The project category receives a dark green given the importance of well-functioning and reliable grids, that carry low carbon electricity, for the energy transition. Investments in Guatemala and Peru are expected to provide more additionality, given that non-renewable sources comprise 50%-60% of installed electricity capacity for both countries, compared with less than 25% for Colombia and less than 15% for Brazil (both mostly consist of hydro).
- The use of solar power generation is commensurate with a LCCR future and is therefore seen as a dark green investment. Still, solar panel supply chains can involve meaningful environmental and social risks from the mining of raw materials. We believe

GEB has sufficient policies and procurement guidelines to mitigate for those risks. However, GEB has yet to define high risk end-life treatment for its panels.

- This project category focuses on the expansion of GEB's electricity T&D infrastructure to support the decarbonization of the grid in the countries that it operates. Investments in electricity T&D could also include smart grid technologies to stabilize the grid during periods of high demand (peak demand management). The project category also contemplates investments in solar PV systems that will serve the company's administrative operations and transmission substations.
- GEB will not use proceeds on equity investments in Enel Colombia or ISA REP and ISA Transmantaro in Peru. The company does not foresee financing of wind power generation projects in the short term.
- The regulation in each country that GEB operates requires identification of physical climate risks and adaptation considerations in the design of the assets. The company is developing physical risk adaptation plans for its electricity T&D network, starting with Colombia in 2024. In the subsequent years, this will be done for its existing and new network in other geographies, as well as for wholly-owned new renewable power generation assets.
- The company expects that the vegetation suppression needed for the development of new electricity T&D networks and solar projects will have a low impact on each respective natural ecosystem.

Energy efficiency

Assessment

 Light green

Description

Expenditures related to projects that could result in increased energy efficiency, based on company's best efforts to ensure all projects achieve at least a 15% energy efficiency improvement.

Projects include:

- Financing of electric powered machinery or incorporation of energy efficient technology, such as LED lighting, ventilation, air conditioning (HVAC), refrigeration, and electrical equipment; or
- Renovation of real estate assets with energy management systems; or
- Investments in energy storage systems (e.g. battery storage); or
- Investments related to smart grid projects, smart sensors/meters, and automation systems to improve energy efficiency of the grid.

Analytical considerations

- We view GEB's investments in the energy efficiency of its real estate across its geographies, as light green. Even though we see reduced climate risk on GEB's real estate from the renovation, we do not see evidence on a strong additionality of the 15% improvement. We view GEB's investments in battery storage and smart grids as dark green as they facilitate a greater integration of renewables into the Peruvian grid. The overall project category receives a light green based on the real estate renovation.
- This project category focuses on general renovation of GEB's administrative offices to improve energy use efficiency, a battery energy storage system (BESS) at GEB's Peruvian distribution subsidiary (Electrodunas) to help stabilize the grid, and the installation of smart meters in its Peruvian distribution network. This project category does not involve energy efficiency investments in any natural gas infrastructure operated by GEB.
- Colombia's Ministry of Environment and Sustainable Development has disclosed a net zero building roadmap, which aims to achieve net zero in all new buildings by 2050. Within this roadmap, Colombia establishes that by 2030 existing building should aim for a 30% emission reduction from a 2021 baseline. Under this project, GEB foresees investments that improve energy efficiency at least by 15% allocated to the company's buildings. Although this means investments could stay below the regional thresholds, we believe it improves to the climate impact of GEB's real estate.

- GEB commits to developing adaptation plans for assets financed under this project category. The company expects the vegetation suppression needed for the BESS will have a low impact on natural ecosystem. The company is in its initial stages of assessing and mitigating potential environmental and social risks in its battery value chain. It commits to select battery suppliers that adhere to certified environmental standards.

Climate change adaptation and circular economy

Assessment

 Dark green

Description

Investments related to upgrading, improving and/or retrofitting of transmission infrastructure and substations to enhance resiliency to weather-related events, including severe hurricanes and forest fires.

Expenditures related to reducing /preventing waste (including landfill),

Analytical considerations

- The dark green assessment for adaptations project that will exclusively serve eligible T&D networks under this framework follows similar analytical considerations for the Renewable Energy category. We see GEB's approach on committing to follow the waste management hierarchy for its operations contributes to reducing the climate and resource use impact of its operations, in our view. However, we have yet to observe what the circular economy entails and embedded additionality to determine the effectiveness of its contribution to a low carbon and resilient future, hence we apply a light green assessment to GEB's waste prevention expenditures. The company expects to start rolling out some solutions by 2024.
- GEB expects adaptation spending will first focus on its Colombian electricity T&D generation as it rolls out such division's adaptation plan in 2024, to then reach its other operations. Expenditures related to reducing waste will be allocated at the source of waste at GEB's facilities. This project category excludes any adaptation or circular economy solutions for the company's natural gas infrastructure operations.
- The company is in the initial stages of developing its adaptation plan across its operations, therefore there is little evidence around the environmental considerations of it.

Terrestrial and aquatic biodiversity protection

Assessment

 Dark green

Description

Expenditures on projects related to the restoration and conservation of existing natural resources and/or biodiversity, including maintenance, protection and identification of endangered flora and fauna in areas where GEB operates.

Projects Include

- Connectivity of green corridors; or
- Conservation of the Andean Bear and Mountain Tapir species in Central mountain ranges; or
- Conservation of the Woolly Tigrillo in the upper and middle basins of the Bogotá river.

Analytical considerations

- The company's biodiversity conservation projects receive a dark green. Halting and reversing biodiversity loss is key to a LCCR future. We view as a strength that such projects will be conducted with assistance from regional environmental authorities and partnerships with non-governmental organizations that specialize in biodiversity conservation. The projects financed are also in line with the issuer's no net loss target.

- This project category focuses on biodiversity conservation projects in Colombia and Peru by creating green corridors (via reforestation or afforestation) to promote connectivity between ecosystems and expenditures on monitoring and conservation of relevant animal species in the Central Mountain region and Bogotá River. These activities seek to compensate the impact of GEB's operations on biodiversity and have been part of the company's both mandatory and voluntary environmental investments. We believe these investments are coherent with GEB's biodiversity strategy and no net loss target.

S&P Global Ratings' Shades of Green

Assessments					
 Dark green	 Medium green	 Light green	 Yellow	 Orange	 Red
Description					
Activities that correspond to the long-term vision of an LCCR future.	Activities that represent significant steps toward an LCCR future but will require further improvements to be long-term LCCR solutions.	Activities representing transition steps in the near-term that avoid emissions lock-in but do not represent long-term LCCR solutions.	Activities that do not have a material impact on the transition to an LCCR future, or, Activities that have some potential inconsistency with the transition to an LCCR future, albeit tempered by existing transition measures.	Activities that are not currently consistent with the transition to an LCCR future. These include activities with moderate potential for emissions lock-in and risk of stranded assets.	Activities that are inconsistent with, and likely to impede, the transition required to achieve the long-term LCCR future. These activities have the highest emissions intensity, with the most potential for emissions lock-in and risk of stranded assets.
Example projects					
 Solar power plants	 Energy efficient buildings	 Hybrid road vehicles	 Health care services	 Conventional steel production	 New oil exploration

Note: For us to consider use of proceeds aligned with ICMA Principles for a green project, we require project categories directly funded by the financing to be assigned one of the three green Shades.

LCCR--Low-carbon climate resilient. An LCCR future is a future aligned with the Paris Agreement; where the global average temperature increase is held below 2 degrees Celsius (2 C), with efforts to limit it to 1.5 C, above pre-industrial levels, while building resilience to the adverse impact of climate change and achieving sustainable outcomes across both climate and non-climate environmental objectives. Long term and near term--For the purpose of this analysis, we consider the long term to be beyond the middle of the 21st century and the near term to be within the next decade. Emissions lock-in--Where an activity delays or prevents the transition to low-carbon alternatives by perpetuating assets or processes (often fossil fuel use and its corresponding greenhouse gas emissions) that are not aligned with, or cannot adapt to, an LCCR future. Stranded assets--Assets that have suffered from unanticipated or premature write-downs, devaluations, or conversion to liabilities (as defined by the University of Oxford).

Social project categories

Socioeconomic advancement and empowerment

Projects under this category include expenditures used for programs aimed at developing capabilities on topics such as energy transition, development of abilities for women, and education infrastructure for underserved communities. The company has already participated in these initiatives in previous years and aims to continue these projects to enable more people to have access to education. Education programs consider vulnerable population like women, people with disabilities, youth and minorities based on race, ethnic background and sexual identity or orientation. The programs considered under the category are:

- "Fabio Chaparro Energy Transition" which seeks to strengthen the technical skills needed for the energy transition. Includes: postgraduate scholarships and skills training for employees (does not include PhD), education in areas of influence of GEB and research awards.
- "Mujeres Linieras" training programs for women to enable their participation in construction and O&M departments in positions traditionally occupied by men.
- "Solar Power Classroom Module" in alliance with the ministry of education, aims to reduce educational gaps in rural areas by helping in the construction of interactive solar classrooms.

Analytical considerations

- The continuous work on these programs shows GEB's commitment to advance growth opportunities for women, youth, low-income individuals, and other minorities. We view GEB's focus to develop technical skills necessary for the energy transition as a strength of this project category.
- The company clearly defines the target population of financed programs, including the use of local regulation (Colombian and Peruvian) references to define low-income individuals, which we view as a strong practice.
- The company's public targets related to the eligible programs such as the commitment to strengthen the capacities of at least 6,000 people in Colombia through the Fabio Chaparro Program by 2025 and 20,000 by 2030; install and deliver 43 interactive solar classrooms by 2030 and develop entrepreneurship and training programs for 200 women by 2030. In our view, this strengthens the company's commitment to guarantee the social benefit of the eligible projects.

Access to essential services

Eligible projects will help reduce gaps on rural, underserved, low-income communities by providing services such as energy and access to telecommunication which can help with their social and economic development. Projects consider under this category include the construction, improvement, acquisition, or maintenance and operation of facilities and equipment of:

- Photovoltaic Solar Power in zones not connected to the system.
- Fiber optic connectivity to unconnected communities.
- Satellite communication services to underserved communities.

Analytical considerations

- Projects providing energy to underserved communities are in line with the company's commitment to decarbonize the energy grid in the countries in which it operates. Photovoltaic solar power installation will help isolated communities get access to reliable and clean energy.
- Providing and improving fiber optics and satellite communication on communities can provide several social benefits from education to access to financing. It is considered key to accomplish the United Nations Sustainable Development Goals related to education, women empowerment, finance, and health. However, the framework is unclear on the availability of these services or whether they will include affordability guarantees for underserved or low-income individuals, which is a limitation.
- In line with other eligible project categories the target population is defined for rural population, low-income individuals and underserved individuals.

- We believe this project category provides a relevant social benefit given that eligible communities are the ones without availability.

Affordable basic infrastructure/access to basic infrastructure

Projects only include expenditures in new natural gas connections, and primarily to low-income communities which do not have a stable energy resource and still depend on coal and firewood for their energy consumption.

- Installation of leak detection systems that will help monitor in real time and be able to intervene in case of gas leaks.
- Replacement or renovation of valves, controls and command devices, pneumatic actuators, and instrumentation that that will enable the reduction of at least 20% of natural gas GHG emissions.
- Replacement of boilers for more efficient ones (skids) that will enable energy savings and reduction of gas emissions.
- Revamping of the network connection nodes by replacing gas powered pneumatic instrumentation with electrically driven instrumentation.
- Replacement of turbo-compressors with latest generation machines that will allow for a reduction in Nitrogen Oxides (NOx) emissions.
- Electrification of compressor units and replacement of turbo-compressors powered with gas with electric machines leading to a reduction in consumption of natural gas and NOx emissions.

Analytical considerations

- This project category is targeted for areas not connected to natural gas infrastructure, primarily low-income communities, that would benefit from access to natural gas. For example, by replacing firewood and charcoal stoves with gas-based cooking methods, which not only has a positive environmental impact but also reduces health hazards. For example, on public health, the conversion improves household air quality, thereby reducing exposure to harmful air pollutants. This is especially relevant for rural households in Colombia and Peru, where access to health services is limited. GEB's expansion plans are aligned with the Colombian and Peruvian Governments priorities to promote natural gas access. According to Colombia's Regional Center of Energy Studies (CREE), firewood remains the primary energy source for 1.6 million homes (10% of the country's households) in the region in 2023, where electricity generation is also mostly not available.
- Despite the high risk of obsolescence associated with natural gas-based infrastructure and home appliances, we view natural gas as a secure and cost-effective energy source for these communities in the short to medium term, especially considering that a direct transition to electrification is not as feasible.
- In Colombia, the expansion is subsidized by a national funding scheme (Fondo FONENERGIA) that support the extension of coverage of natural gas in unconnected areas. This further supports the affordability of the financed project.
- The company's commitment to use efficient natural gas equipment, including methane leak detection systems and electrification of compressor units, provides some form of climate impact prevention.

Employment generation, and programs designed to prevent and/or alleviate unemployment stemming from socioeconomic crises, including through the potential effect of SME financing and microfinance

The company describes projects under this category as trainings for supplier and development programs.

Analytical considerations

- The company relies on a wide number of suppliers that operate in or with marginalized communities. Through training and development programs, GEB supports further developments of such communities' economy.
- In line with other eligible project categories the target population is defined for rural population, low-income and underserved individuals.

EU Taxonomy Alignment

In our EU Taxonomy Assessment, we opine on whether an eligible project to be financed aligns with the EU Taxonomy in cases when the economic activity is covered by Technical Screening Criteria (TSC), which is incorporated into European law via delegated acts. (see "[Analytical Approach: Second Party Opinions: Use Of Proceeds](#)," published July 27, 2023).

EU taxonomy

Fully aligned

Partially aligned

Not aligned

In our opinion, Grupo Energía Bogotá S.A. ESP's (GEB's) Sustainable Financing Framework, published on October is partially aligned with the EU taxonomy.

- All eligible EU taxonomy economic activities that GEB can finance under its framework are aligned with the substantial contribution criteria for climate change mitigation. That is, they meet the EU taxonomy criteria to provide a substantial contribution to mitigate climate change. The activities listed under the framework categories of "Climate Change Adaptation and Circular Economy" and "Terrestrial and Aquatic Biodiversity Protection" are currently not covered by the EU taxonomy's TSC.
- All activities comply with the EU Taxonomy's do no significant harm (DNSH) criteria for sustainable water, circular economy, and biodiversity, where applicable. That is, apart from mitigating climate change, the activities count with sufficient safeguards in other environmental aspects. All activities except 4.9 Transmission and distribution of electricity meet the EU Taxonomy's pollution prevention DNSH criteria.
- GEB follows the Colombian regulation on qualitatively identifying exposure to physical climate risks to existing and new financed assets (under the framework). The company incorporates adaptation considerations on the design of assets. The company commits to performing climate risk and vulnerability assessment (CRVAs) and implement adaptation solutions in line with the EU taxonomy requirements. However, as this is a future commitment and GEB has yet to systematically perform CRVAs and implement adaptation solutions to all financed assets, GEB does not meet the EU Taxonomy's climate change adaptation DNSH criteria. That said, such conclusion is not applicable to activities 7.5 Installation, maintenance, and repair of instruments and devices for measuring, regulation, and controlling energy performance of buildings and 7.6 Installation, maintenance, and repair of renewable energy technologies, given their relative lower relevance in terms of the climate adaptation DNSH. Therefore, we view these two activities as aligned. As a result, the overall framework is partially aligned to the EU taxonomy.
- The GEB's procedures are aligned with the EU taxonomy's requirements for minimum safeguards.

EU Taxonomy Summary

Technical screening criteria							Minimum safeguards	Overall alignment
Substantial contribution	Do no significant harm (DNSH)							
	Climate mitigation	Climate adaptation	Sustainable water	Circular economy	Pollution prevention	Biodiversity protection		
4.1 Electricity generation using solar photovoltaic technology (Renewable energy category)							✓	✗
✓	Climate mitigation	✓	✗	N/A	✓	N/A		

4.2 Electricity generation using concentrated solar power (CSP) technology (Renewable energy category)								
✓	Climate mitigation	✓	✗	✓	✓	N/A	✓	✗
4.3 Electricity generation from wind power (Renewable energy category)								
✓	Climate mitigation	✓	✗	N/A	✓	N/A	✓	✗
4.9 Transmission and distribution of electricity (Renewable energy category)								
✓	Climate mitigation	✓	✗	N/A	✓	✗	✓	✗
4.10 Storage of electricity (Energy efficiency energy category)								
✓	Climate mitigation	✓	✗	N/A	✓	N/A	✓	✗
4.14 Transmission and distribution networks for renewable and low-carbon gases (Pollution Prevention & Control category)								
✓	Climate mitigation	✓	✗	✓	N/A	✓	✓	✗
7.5 Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings (Energy efficiency energy category)								
✓	Climate mitigation	✓	✓	N/A	N/A	N/A	N/A	✓
7.6 Installation, maintenance and repair of renewable energy technologies (Renewable energy category)								
✓	Climate mitigation	✓	✓	N/A	N/A	N/A	N/A	✓
Climate Change Adaptation and Circular Economy category								
—	Not applicable	—	—	—	—	—	—	—
Terrestrial and Aquatic Biodiversity Protection category								
—	Not applicable	—	—	—	—	—	—	—

Aligned = ✓ Not aligned = ✗ Not covered by the technical screening criteria = —

Detailed analysis

Minimum safeguards		
Analytical focus	Opinion	Rationale
<p>Our assessment is focused on how the issuer meets the four core topics of the minimum safeguards following the Platform on Sustainable Finance's recommendations: Human rights, including workers' rights; bribery/corruption; taxation; and fair competition</p>	<p>Aligned</p> <p>Not aligned</p>	<p>We consider the issuer procedures as aligned with the EU taxonomy requirements for minimum safeguards.</p> <p>GEB's due diligence processes and policies, approved by its Board of Directors, for the implementation of projects follow the recommendations defined in the OECD Guidelines for Multinational Enterprises (GME) and UN Guiding Principles on Business and Human Rights (UN GPBHR). This includes the principles and rights outlined in the eight fundamental conventions identified in the International Labour Organization's Declaration on Fundamental Principles and Rights at Work and the International Bill of Human Rights, as they define the minimum safeguards of the EU taxonomy.</p> <p>The issuer has a comprehensive human rights due diligence process in place, following the six steps the OECD GME and UN GPBHR outline. This process includes the identification, monitoring, dialogue, and design of mitigation and remediation measures for potential human rights risks in its activities, also involving its partners and contractors. The issuer makes the entire process public and provides evidence of the primary impacts, controls, and parties responsible for addressing them.</p> <p>The company has identified three main human rights risks associated with its operations and established mitigation actions accordingly. The first risk is its effect on local communities, for which GEB has assessment of territories, social and environmental impact studies, and ongoing community involvement through communication. Second, GEB identified the risk of nonformalized easement and established a property reorganization plan. Finally, work-related accidents are mitigated through verifying compliance with occupational safety and health (OSH) procedures, including legal obligations and periodically updates to the procedure.</p> <p>To prevent corruption and bribery, GEB has had internal controls and compliance programs in place since 2017, which the Board of Directors supervises. Various processes and policies support this control, such as the Code of Conduct, Ethical Channel, Comprehensive System for the Prevention and Control of Money Laundering and Financing of Terrorism, Anti-Corruption and Citizen Service Plan, Transnational anti-bribery law, and supervisory authorities. GEB provides training for both employees and management on compliance matters, including anti-corruption and fair competition.</p> <p>GEB's tax governance is part of its corporate governance and financial policy. Within its corporate governance policy, GEB states that it adheres to international standards and best practices, particularly the principles of the "OECD Guidelines on Corporate Governance of State-Owned Enterprises" and "OECD Principles of Corporate Governance and G-20 Principles." Tax governance includes defining procedures, roles, controls, responsibilities and managing tax compliance which is supervised by specialists and expert consulting firms to ensure there are no tax risks.</p> <p>To promote compliance with applicable competition laws and regulations, the Code of Ethics and Conduct for Collaborators and the Code of Ethics and Conduct for Suppliers and Contractors specifically address the company's stance regarding the rejection of any practice that restricts or threatens free</p>

competition or affects consumer welfare, while promoting and encouraging healthy and fair competition in the market.

Finally, following the external sources' European Commission's Platform on Sustainable Finance (PSF) recommendations on minimum safeguards and by the issuer's confirmation, we did not see the issuer being convicted on any of the four minimum safeguards topics.

Economic activity:	4.1 Electricity generation using solar photovoltaic technology	
NACE code:	Not identified by the issuer	
Analytical focus	Opinion	Rationale
Our assessment is focused on how the activity meets the substantial contribution TSC.	Aligned	<p>We consider the issuer's activity of electricity generation using solar photovoltaic technology as aligned with the TSC for substantial contribution to the EU's climate mitigation objective.</p> <p>We assume the expenditures related to the development, expansion, construction, maintenance, acquisition, and/or operation of solar photovoltaic technology contribute substantially to climate change mitigation.</p>
	Not aligned	
Our assessment is focused on how the activity meets the does not significantly harm other EU objectives' TSC.	Aligned	<p>Except for the climate adaptation DNSH, we consider this issuer's activity of electricity generation using solar photovoltaic technology as aligned with the DNSH TSC for all the remaining and applicable EU objectives.</p> <p>According to the TSC, this activity must not harm climate adaptation, circular economy, and biodiversity conservation efforts. The pollution prevention and water DNSH are not applicable for this eligible economic activity.</p> <p>In 2022, regarding climate adaptation efforts, the issuer began qualitatively identifying the exposure of its electricity transmission and distribution (Enlaza) and gas transport (TGI) operations in Colombia to acute and chronic physical climate risks. GEB used the International Energy Agency (IEA - NZE, STEPS) and the IPCC's "Shared Socioeconomic Pathways" (SSPs - 5-8.5, 3-7, 1-1.9) scenarios to qualitatively list such assets' exposure. In 2023, the company will begin quantitatively modelling such assets' exposure to climate change. Using the above scenarios, the company has committed to perform a climate risk vulnerability assessment for all EU Taxonomy-eligible financed activities. GEB commits to use such results to implement appropriate adaptation solutions that follow EU taxonomy requirements.</p> <p>While we view this positively, the company falls short of meeting the EU taxonomy criteria, which requires a systematic approach to climate adaptation before issuing the financing under the framework. That is, the EU taxonomy requires issuers to already have modelled existing assets' exposure to different climate projections, implemented adaptation solutions, and then using such findings and systematic approach when financing new assets that are eligible under the EU taxonomy. However, GEB partially meets the EU taxonomy adaptation solutions requirements as the Colombian regulation requires some adaptation considerations in the design of the asset. Still, the regulation does not specify the need for</p>
	Not aligned	

specific climate modelling. It is also not clear whether the adaptation solutions required by regulation do not adversely affect the level of resilience to physical climate risk of other people and of nature, among other EU taxonomy requirements. As a result, we believe this and all other eligible economic activities do not meet the climate adaptation DNSH criteria, which limits each activity's overall alignment to the EU taxonomy.

For assessing GEB's adherence to the biodiversity DNSH, we analyzed how GEB's environmental management processes address the aspects in the Directive 2011/92/EU rather than considering how much Colombia, Peru, Guatemala, and Brazil's EIA regulations (eligible assets locations) reflect or mirror the Directive. Within GEB's environmental and biodiversity policy, GEB aims to ensure compliance with the environmental regulations applicable to each project of the framework. The issuer informed us that due to the nature of its projects, it carries out an EIA that includes relevant elements such as identifying the biodiversity-sensitive areas and managing risks and impacts (e.g., on flora, fauna, soil) and necessary compensation measures for all projects. In addition, the issuer commits to avoiding activities that may have negative impacts on World Heritage sites and protected areas of IUCN categories I to IV. As a result, we believe the company meets the biodiversity DNSH criteria for this and other activities.

We believe GEB meets the DNSH criteria for circular economy across eligible economic activities. In line with its eco-efficiency and circular economy policy, GEB looks to optimize the use of raw materials (to avoid any waste) and aims to use materials with high recyclability, following a waste hierarchy. This consideration applies to its direct operations and the entire value chains, as well as throughout the materials' life cycle for all projects in the framework. Furthermore, in compliance with local regulation, it currently outsources waste management to third-party entities. GEB is in the process of formalizing its waste management strategy, which is why it has yet to publicly disclose the financial materiality of its waste strategy.

Economic activity:	4.2 Electricity generation using concentrated solar power (CSP) technology	
NACE code:	Not identified by the issuer	
Analytical focus	Opinion	Rationale
Our assessment is focused on how the activity meets the substantial contribution TSC.	Aligned	We consider the issuer's activity of electricity generation using CSP technology as aligned with the TSC for substantial contribution to the EU's climate mitigation objective. We assume the expenditures related to the development, expansion, construction, maintenance, acquisition, and/or operation of CSP technology contribute substantially to climate change mitigation.
	Not aligned	
Our assessment is focused on how the activity meets the does not significantly harm other EU objectives' TSC.	Aligned	Except for the climate adaptation DNSH criteria, we consider this issuer's activity of electricity generation using CSP technology as aligned with the DNSH TSC for all the remaining and applicable EU objectives. According to the TSC, this activity must not harm the climate adaptation, water, circular economy, and biodiversity. The pollution control DNSH is not applicable for this economic activity. Since we believe the issuer does not fully address the climate adaptation DNSH criteria, the activity is not aligned to the EU Taxonomy. Regarding how GEB aims to address DNSH criteria for climate adaptation, circular economy, and biodiversity, please refer to the DNSH rationale
	Not aligned	

described in the activity "4.1 Electricity generation using solar photovoltaic technology".

In terms of the sustainable use and protection of water DNSH criteria for this and other eligible activities, the issuer states that it assesses (and will continue assessing) the impact of financed activities on water body or bodies in each project of the framework. In line with regulatory requirements, GEB aims to prevent any deterioration to the ecological status of the water body or bodies, as required by the TSC. The issuer uses Colombia's regulatory description of a water body with a good ecological status. According to the EU taxonomy appendix B for the water DNSH criteria, following applicable national laws with equivalent objectives of good water and good ecological potential is acceptable for activities in "third countries". The issuer provided evidence of their EIA process by which it assesses water usage before installing infrastructure and after operations, to ensure no harm on the status or ecological potential of the applicable water body or bodies. Also, the issuer confirmed that the water utility supplier is responsible to develop a water use and protection management plan in consultation with relevant stakeholders. Therefore, we believe GEB meets the water DNSH across all applicable project categories.

Economic activity: 4.3 Electricity generation from wind power

NACE code: Not identified by the issuer

Analytical focus **Opinion** **Rationale**

Our assessment is focused on how the activity meets the **substantial contribution** TSC.

Aligned
Not aligned

We consider the issuer's activity of electricity generation from wind power as aligned with the TSC for substantial contribution to the EU's climate mitigation objective.

We assume the expenditures related to the development, expansion, construction, maintenance, acquisition, and/or operation of electricity generation from wind power contribute substantially to climate change mitigation.

Our assessment is focused on how the activity meets the **does not significantly harm** other EU objectives' TSC.

Aligned
Not aligned

Except for the climate adaptation DNSH, we consider this issuer's activity of electricity generation from wind power as aligned with the DNSH TSC for all the remaining and applicable EU objectives.

According to the TSC, this activity must not harm the climate adaptation, water, circular economy, and biodiversity efforts. The pollution control DNSH is not applicable for this economic activity. There is specific water and biodiversity DNSH criteria for offshore wind activities, but these are not applicable as the GEB's eligibility criteria has not included these activities. Since we believe the issuer does not fully address the climate adaptation DNSH criteria, the activity is not aligned to the EU Taxonomy.

Regarding how GEB aims to address DNSH criteria for climate adaptation, circular economy, and biodiversity, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology".

Economic activity: 4.9 Transmission and distribution of electricity

NACE code: Not identified by the issuer

Analytical focus	Opinion	Rationale
<p>Our assessment is focused on how the activity meets the substantial contribution TSC.</p>	<p>Aligned</p> <p>Not aligned</p>	<p>We consider the issuer's activity of transmission and distribution of electricity as aligned with the TSC for substantial contribution to the EU's climate mitigation objective.</p> <p>For substantially contributing to climate mitigation, the TSC states that at least one of the criteria outlined in the EU taxonomy for transmission and distribution of electricity must be met. Based on the framework's eligibility criteria, only the construction or repair of grid infrastructure with an average system grid emissions factor of less than 100gCO₂e/kWh over a rolling five-year period meets the EU taxonomy's climate mitigation objective criteria. For other eligible projects under the renewable energy category, the issuer does not specify that it intends to finance transmission lines that carry electricity generated below the generation threshold value of 100 gCO₂e/kWh, as measured on a life cycle basis in accordance with electricity generation criteria over a rolling five-year period, and at least 67% renewable energy as required by the EU taxonomy. The framework lists such project categories as one or the other, not combined as required by the EU taxonomy. Additionally, we see the issuer's investments related to smart grid projects, smart sensors /meters, and automation systems to improve energy efficiency of the grid to be broad energy efficiency measures that do not fit under the specific EU taxonomy criteria.</p>
<p>Our assessment is focused on how the activity meets the does not significantly harm other EU objectives' TSC.</p>	<p>Aligned</p> <p>Not aligned</p>	<p>Except for the climate adaptation and pollution control DNSH criteria, we consider this issuer's activity of transmission and distribution of electricity as aligned with the DNSH criteria for all the remaining and applicable EU objectives.</p> <p>According to the TSC, this activity must not harm the climate adaptation, pollution prevention, circular economy, and biodiversity objectives. The water DNSH is not applicable for this economic activity. Since we believe the issuer does not fully address the climate adaptation and pollution control DNSH criteria, the activity is not aligned to the EU Taxonomy.</p> <p>Regarding how GEB aims to address DNSH criteria for climate adaptation, circular economy, and biodiversity, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology".</p> <p>In terms of the DNSH criteria related to pollution prevention, the taxonomy requires the activity does not use polychlorinated biphenyls (PCBs). According to Colombian environmental regulations (Resolution No. 0222 - Ministry of Environment and Sustainable Development) starting in 2025, it is prohibited for companies to utilize PCBs in their operations. Consequently, the company abstains from procuring equipment containing PCBs. Presently, GEB is in the process of cataloging older equipment (acquired prior to 2005) that might contain PCBs. This equipment is being removed from active operation and PCBs discovered are being disposed of in a manner compliant with the regulations.</p> <p>Additionally, the issuer states that it complies with applicable local regulations the IFC General Environmental, Health, and Safety Guidelines. Regarding the limits of electric, magnetic, and electromagnetic fields (EMFs), the EU taxonomy requires issuers in developing countries to meet the 1998 Guidelines of the International Commissions on Non-Ionizing Radiation Protection (ICNIRP). GEB informed us that they comply with Colombian legislation (RETIE-technical regulations for electrical installations). In this sense, we assessed the ICNIRP against the RETIE</p>

requirements, and determined that the criteria established in these documents are not equivalent. The INCIRP specifies the maximum radiofrequency for electromagnetic fields (Hz) whereas the RETIE specifies the exposure limits for the intensity of an electromagnetic field (V/m). Therefore, we cannot conclude that adhering RETIE's criteria leads to INCIRP compliance and therefore we cannot conclude that GEB meets the pollution control DNSH criteria for this economic activity.

Economic activity: 4.10 Storage of electricity

NACE code: Not identified by the issuer

Analytical focus	Opinion	Rationale
Our assessment is focused on how the activity meets the substantial contribution TSC.	<div style="background-color: #cccccc; padding: 2px; text-align: center;">Aligned</div> <div style="background-color: #e0e0e0; padding: 2px; text-align: center;">Not aligned</div>	<p>We consider the issuer's activity of storage of electricity as aligned with the TSC for substantial contribution to the EU' s climate mitigation objective.</p> <p>Within the energy efficiency category, the issuer intends to finance battery storage will only be applicable to those generated by renewable energy which substantially contributes to climate mitigation objective.</p> <p>The criteria of the pumped hydropower and chemical energy storage do not apply as these activities are excluded or not included in the framework.</p>
Our assessment is focused on how the activity meets the does not significantly harm other EU objectives' TSC.	<div style="background-color: #cccccc; padding: 2px; text-align: center;">Aligned</div> <div style="background-color: #e0e0e0; padding: 2px; text-align: center;">Not aligned</div>	<p>Except for the climate adaptation DNSH criteria, we consider this issuer's activity of storage of electricity as aligned with the DNSH TSC for all the remaining and applicable EU objectives.</p> <p>According to the TSC, this activity must not harm the climate adaptation, circular economy, and biodiversity objectives. The pollution control DNSH is not applicable for this economic activity. As the activity does not include pumped hydropower, the water DNSH is also not applicable. Since we believe that the climate adaptation DNSH criteria is not fully addressed by the issuer, our opinion is that the activity is not aligned to the EU Taxonomy.</p> <p>Regarding how GEB aims to address DNSH criteria for climate adaptation, circular economy and biodiversity, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology".</p>

Economic activity: 4.14 Transmission and distribution networks for renewable and low-carbon gases

NACE code: Not identified by the issuer

Analytical focus	Opinion	Rationale
Our assessment is focused on how the activity meets the substantial contribution TSC.	<div style="background-color: #cccccc; padding: 2px; text-align: center;">Aligned</div> <div style="background-color: #e0e0e0; padding: 2px; text-align: center;">Not aligned</div>	<p>We consider the issuer's activity of transmission and distribution networks for renewable and low-carbon gases as aligned with the TSC for substantial contribution to the EU' s climate mitigation objective.</p> <p>We observe GEB's activities within the pollution prevention and control category of the framework aligns with the following climate mitigation substantial contribution criteria:</p> <ol style="list-style-type: none"> 1. The retrofit of gas transmission and distribution networks to enable the integration of hydrogen and other low-carbon gases,

including activities that increase the blend of hydrogen or other low-carbon gases in the gas system.

Within the pollution prevention and control category of the framework, GEB includes investments in leak detection and repair of existing gas pipelines and other network elements to reduce methane leakage as required by the EU taxonomy criteria. Gas network expansion is not an eligible expenditure under this framework.

Our assessment is focused on how the activity meets the **does not significantly harm** other EU objectives' TSC.

Aligned
Not aligned

Except for the climate adaptation DNSH criteria, we consider this issuer's activity of transmission and distribution networks for renewable and low-carbon gases as aligned with the DNSH TSC for all the remaining and applicable EU objectives.

According to the TSC, this activity must not harm the climate adaptation, water, pollution prevention and biodiversity. The circular economy DNSH is not applicable for this economic activity. Since we believe that the climate adaptation DNSH criteria is not fully addressed by the issuer, our opinion is that the activity is not aligned to the EU Taxonomy.

Regarding how GEB aims to address DNSH criteria for climate adaptation and biodiversity, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology". For water, refer to "4.2 Electricity generation using concentrated solar power (CSP) technology".

The issuer informed us that investments in fans, compressors, pumps and other equipment used are not in the scope of the framework, therefore the associated TSC is not applicable.

Economic activity:	7.5 Installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings
NACE code:	Not identified by the issuer

Analytical focus	Opinion	Rationale
Our assessment is focused on how the activity meets the substantial contribution TSC.	Aligned	<p>We consider the issuer's activity of installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings as aligned with the TSC for substantial contribution to the EU's climate mitigation objective.</p> <p>Within the energy efficiency category, the issuer intends to finance the maintenance of electric powered machinery or incorporation of energy efficient technology, such as LED lighting, ventilation, air conditioning (HVAC), refrigeration, and electrical equipment.</p> <p>We see these activities as in line with the EU taxonomy ones that relates to the installation, maintenance and repair of building automation and control systems, building energy management systems (BEMS), lighting control systems and energy management systems (EMS); and the installation, maintenance and repair of smart meters for gas, heat, cool and electricity, which substantially contributes to the climate mitigation objective.</p>
	Not aligned	

Our assessment is focused on how the activity meets the **does not significantly harm** other EU objectives' TSC.

Aligned
Not aligned

The issuer's activity of installation, maintenance and repair of instruments and devices for measuring, regulation and controlling energy performance of buildings is aligned to the EU taxonomy as it does not harm the climate adaptation DNSH.

In our view, this activity does not harm climate adaptation. As the issuer focuses on the financing of maintenance and repair expenditures, we consider it a small-scale activity that does not require a high-resolution climate risk and vulnerability assessment (as per Appendix A: Generic Criteria for DNSH To Climate Change Adaptation). Other DNSH criteria are not applicable for this activity as per the EU Taxonomy. As a result, we believe the activity is aligned to the EU Taxonomy (please refer to commission notice C/2023/267 which states that activities qualify as Taxonomy-aligned when they do not give rise to any potential issues with a DNSH-criterion).

For reference to our opinion on how GEB applies to the DNSH criteria for climate adaptation for the underlying assets, where the EU Taxonomy does require the full application of Appendix A: Generic Criteria for DNSH To Climate Change Adaptation, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology".

Economic activity: 7.6 Installation, maintenance and repair of renewable energy technologies

NACE code: Not identified by the issuer

Analytical focus

Opinion

Rationale

Our assessment is focused on how the activity meets the **substantial contribution** TSC.

Aligned
Not aligned

We consider the issuer's activity of installation, maintenance and repair of instruments and devices for renewable energy technologies as aligned with the TSC for substantial contribution to the EU's climate mitigation objective.

Within the renewable energy category, the issuer intends to finance the expenditures related to the maintenance of wind and solar sources photovoltaic and concentrating solar power. We believe these activities are aligned with the:

- installation, maintenance, and repair of solar photovoltaic systems and the ancillary technical equipment;
- installation, maintenance, and repair of wind turbines and the ancillary technical equipment;
- installation, maintenance, and repair of thermal or electric energy storage units and the ancillary technical equipment.

We believe these activities substantially contribute to climate mitigation objective.

Our assessment is focused on how the activity meets the **does not significantly harm** other EU objectives' TSC.

Aligned
Not aligned

The issuer's activity of installation, maintenance and repair of instruments and devices for renewable energy technologies is aligned to the EU taxonomy as it does not harm the climate adaptation DNSH.

In our view, this activity does not harm climate adaptation. As the issuer focuses on the financing of maintenance and repair expenditures, we consider it a small-scale activity that does not require a high-resolution climate risk and vulnerability assessment (as per Appendix A: Generic Criteria for DNSH To Climate Change Adaptation). Other DNSH criteria are not applicable for this activity as per the EU Taxonomy. As a result, we believe the activity is aligned to the EU Taxonomy (please refer to commission notice C/2023/267 which states that activities qualify as Taxonomy-aligned when they do not give rise to any potential issues with a DNSH-criterion).

For reference to our opinion on how GEB applies to the DNSH criteria for climate adaptation for the underlying assets, where the EU Taxonomy does require the full application of Appendix A: Generic Criteria for DNSH To Climate Change Adaptation, please refer to the DNSH rationale described in the activity "4.1 Electricity generation using solar photovoltaic technology".

Mapping To The U.N.'s Sustainable Development Goals

Where the Financing documentation references the Sustainable Development Goals (SDGs), we consider which SDGs it contributes to. We compare the activities funded by the Financing to the International Capital Markets Association (ICMA) SDG mapping and outline the intended linkages within our SPO analysis. Our assessment of SDG mapping does not impact our alignment opinion.

This framework intends to contribute to the following SDGs:

Use of proceeds

SDGs

Pollution prevention & control



13. Climate action



11. Sustainable cities and communities*

Renewable energy

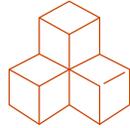


7. Affordable and clean energy*

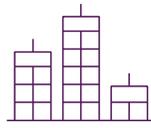


13. Climate action

Energy efficiency



9. Industry, innovation and infrastructure*



11. Sustainable cities and communities



12. Responsible consumption and production

Climate change adaptation and circular economy



12. Responsible consumption and production



13. Climate action

Terrestrial and aquatic biodiversity protection



13. Climate action



15. Life on land*

Socioeconomic advancement and empowerment



1. No poverty*



5. Gender equality



***8. Decent work and economic growth**

Access to essential services



13. Climate action

Access to basic infrastructure



11. Sustainable cities and communities*

Employment generation, and programs designed to prevent and/or alleviate unemployment stemming from socioeconomic crises, including through the potential effect of SME financing and microfinance



1. No poverty*



8. Decent work and economic growth*

*The eligible project categories link to these SDGs in the ICMA mapping.

Related Research

- [Analytical Approach: Second Party Opinions: Use of Proceeds](#), July 27, 2023
- [FAQ: Applying Our Integrated Analytical Approach for Use-of-Proceeds Second Party Opinions](#), July 27, 2023
- [Analytical Approach: Shades of Green Assessments](#), July 27, 2023

Analytical Contacts

Primary contacts

Victor Laudisio

Sao Paulo
+55-11-97311-6065
victor.laudisio
@spglobal.com

Azul Ornelas

Mexico City
azul.ornelas
@spglobal.com

Luis Solis

Madrid
luis.solis
@spglobal.com

Secondary contacts

Jesus Palacios

Washington D.C.
jesus.palacios
@spglobal.com

Annia Mayerstein

Mexico City
annia.mayerstein
@spglobal.com

Rafael Janequine

Sao Paulo
rafael.janequine
@spglobal.com

Michael Ferguson

New York
michael.ferguson
@spglobal.com

Maria Knudsen

Oslo
maria.knudsen
@spglobal.com

Beth Burks

London
beth.burks
@spglobal.com

Corinne Bendersky

New York
corinne.bendersky
@spglobal.com

Research contributor

Sachin Powani

Mumbai

Second Party Opinion: Grupo Energía Bogotá (GEB) S.A. ESP's Sustainable Financing Framework

Standard & Poor's Financial Services LLC or its affiliates (collectively, S&P) receives compensation for the provision of the Second Party Opinions product (Product). S&P may also receive compensation for rating the transactions covered by the Product or for rating the issuer of the transactions covered by the Product. The purchaser of the Product may be the issuer.

The Product is not a credit rating, and does not consider credit quality or factor into our credit ratings. The Product does not consider, state or imply the likelihood of completion of any projects covered by a given financing, or the completion of a proposed financing. The Product encompasses Use of Proceeds Second Party Opinions and Sustainability-Linked Second Party Opinions. An S&P Global Use of Proceeds Second Party Opinion provides an opinion on an issuer's sustainable finance instrument, program, or framework, and considers the financing in the context of the issuer's most material sustainability factors, the issuer's management of additional sustainability factors relevant to the sustainable financing, and provides an opinion regarding alignment with certain third-party published sustainable finance principles ("Principles"). An S&P Global Ratings Sustainability-Linked Second Party Opinion considers features of a financing transaction and/or financing framework and provides an opinion regarding alignment with relevant Principles. For a list of the Principles addressed by the Product, see the Analytical Approach, available at www.spglobal.com. The Product is a statement of opinion and is neither a verification nor a certification. The Product is a point in time evaluation reflecting the information provided to us at the time that the Product was created and published, and is not surveilled. The Product is not a research report and is not intended as such. S&P's credit ratings, opinions, analyses, rating acknowledgment decisions, any views reflected in the Product and the output of the Product are not investment advice, recommendations regarding credit decisions, recommendations to purchase, hold, or sell any securities or to make any investment decisions, an offer to buy or sell or the solicitation of an offer to buy or sell any security, endorsements of the suitability of any security, endorsements of the accuracy of any data or conclusions provided in the Product, or independent verification of any information relied upon in the credit rating process. The Product and any associated presentations do not take into account any user's financial objectives, financial situation, needs or means, and should not be relied upon by users for making any investment decisions. The output of the Product is not a substitute for a user's independent judgment and expertise. The output of the Product is not professional financial, tax or legal advice, and users should obtain independent, professional advice as it is determined necessary by users.

While S&P has obtained information from sources it believes to be reliable, S&P does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives.

S&P and any third-party providers, as well as their directors, officers, shareholders, employees, or agents (collectively S&P Parties) do not guarantee the accuracy, completeness, timeliness, or availability of the Product. S&P Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for reliance of use of information in the Product, or for the security or maintenance of any information transmitted via the Internet, or for the accuracy of the information in the Product. The Product is provided on an "AS IS" basis. S&P PARTIES MAKE NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDED BUT NOT LIMITED TO, THE ACCURACY, RESULTS, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT, OR FOR THE SECURITY OF THE WEBSITE FROM WHICH THE PRODUCT IS ACCESSED. S&P Parties have no responsibility to maintain or update the Product or to supply any corrections, updates, or releases in connection therewith. S&P Parties have no liability for the accuracy, timeliness, reliability, performance, continued availability, completeness or delays, omissions, or interruptions in the delivery of the Product.

To the extent permitted by law, in no event shall the S&P Parties be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence, loss of data, cost of substitute materials, cost of capital, or claims of any third party) in connection with any use of the Product even if advised of the possibility of such damages.

S&P maintains a separation between commercial and analytic activities. S&P keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of S&P may have information that is not available to other S&P business units. S&P has established policies and procedures to maintain the confidentiality of certain nonpublic information received in connection with each analytical process.

For PRC only: Any "Second Party Opinions" or "assessment" assigned by S&P Global Ratings: (a) does not constitute a credit rating, rating, sustainable financing framework verification, assessment, certification or evaluation as required under any relevant PRC laws or regulations, and (b) cannot be included in any offering memorandum, circular, prospectus, registration documents or any other document submitted to PRC authorities or to otherwise satisfy any PRC regulatory purposes; and (c) is not intended for use within the PRC for any purpose which is not permitted under relevant PRC laws or regulations. For the purpose of this section, "PRC" refers to the mainland of the People's Republic of China, excluding Hong Kong, Macau and Taiwan.

Copyright © 2023 by Standard & Poor's Financial Services LLC. All rights reserved.