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## **ISSUER IN-DEPTH**

1 September 2017

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# Mexico City Airport Trust NAFIN F/80460

Green Bond Assessment

## **Summary Analysis**



#### **Summary Opinion**

A GB1 (Excellent) Green Bond Assessment (GBA) on the second offering of senior secured notes issued by <u>Mexico City Airport Trust NAFIN F/80460</u> (Mexico City Airport Trust, Baa1 negative) is supported by the use of proceeds for green-eligible projects and strong management oversight, including management of and disclosure on proceeds. This is a second GBA issued to the trust, a special purpose trust that will issue a total of up to \$6 billion of debt to partially fund the design, construction, development and operation of the Mexico City New International Airport (NAICM). The GB1 grade primarily reflects the following considerations:

- » Allocation of net proceeds to finance an equivalent dollar amount of eligible beneficial environmental projects that have been identified and qualified pursuant to a formally adopted green bond framework.
- » The creation of a green bond committee with broad representation and expertise to consider and evaluate eligible environmental project proposals on the basis of explicit criteria established for oversight, evaluation and decision making.
- » Grupo Aeroportuario de la Ciudad de México, S.A. de C.V. (GACM, the project sponsor) Treasury will maintain internal records for tracking the allocation of net proceeds. While at least two regulatory bodies perform GACM oversight, an independent audit of the tracking function within GACM is not currently anticipated.
- » Commitment to disclose the nature of investments, their dollar amounts and impacts on a quarterly basis, continuing until the net proceeds are fully allocated.

actor	Factor Weights	Score	Weighted Score
Organization	15%	1	0.15
Use of Proceeds	40%	1	0.40
Disclosure on the Use of Proceeds	10%	1	0.10
Management of Proceeds	15%	2	0.30
Ongoing Reporting and Disclosure	20%	2	0.40
Weighted Score			1.35

The transaction-weighted score, using the Green Bond Scorecard, is 1.35. This, in turn, corresponds to a GB1 grade.

#### **Transaction Summary**

Mexico City Airport Trust plans to issue the second debt offering of its up to \$6 billion total borrowing plan, following a \$2 billion debt issuance in September 2016. Corresponding coupons and maturities are to be determined at closing. Proceeds from the debt issuance will be used to partially fund the design, construction, development and operation of NAICM, in line with a long-term financial plan. (See "Mexico City International Airport Financing Plan," below.)

The notes are being issued by the Mexico City Airport Trust, a special purpose trust created and operating under Mexican law for the sole purpose of securitizing receivables from collected passenger charges (Airport Usage Tariff, TUA) realized by Mexico City's Benito Juárez International Airport, as well as the Mexico City New International Airport.<sup>1</sup>

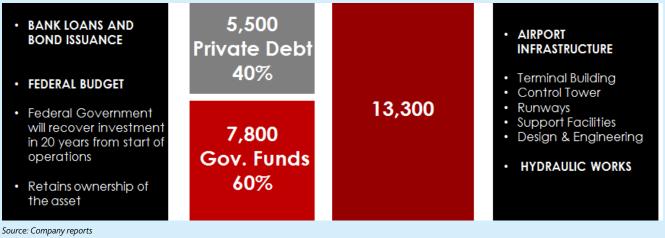
In September 2016, we assigned an initial GB1 to \$2 billion of debt securities issued by the trust across two tranches, \$1 billion of 4.250% Senior Secured Notes due 2026 and \$1 billion of 5.500% Senior Secured Notes due 2046.

#### Mexico City International Airport Financing Plan

The net proceeds from total notes offerings, after deductions for underwriting discounts and other estimated expenses payable in connection with the offerings, will be approximately \$5.5 billion. The proceeds will be used to finance and refinance existing and future eligible environmental projects. Of the \$2 billion issuance in September 2016, \$1 billion was used to pay back amounts previously outstanding on a revolving credit facility. No amounts remain outstanding on this facility.

The total funding required for the construction and initial operation of the new airport is estimated at up to \$13.3 billion, of which the Mexican government will contribute approximately 60% from public funds. Approximately 40% is expected to be funded from the issuance of the senior secured notes, which have been and will be offered on the domestic and international capital markets. The exhibit below summarizes the funding plan for the new airport's development, including the contribution of federal budget funds from the Mexican government.

#### Sources and uses of funds (millions of dollars)



This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

External or independent audit of systems used for tracking disbursements

Ongoing quarterly disclosures will be provided until proceeds are allocated but not

earmarked for eligible projects will not be provided

over the full life of the bonds

### Strengths and Weaknesses

Allocation of net proceeds to finance an equivalent dollar amount of eligible beneficial environmental projects that have been identified and qualified pursuant to a formally adopted Green Bond Framework.

- The creation of a Green Bond Committee with broad representation and expertise to consider and evaluate eligible environmental project proposals on the basis of explicit criteria established for oversight, evaluation and decision making.
- GACM Treasury will maintain internal records for tracking the allocation of net proceeds. While there is GACM oversight performed by at least two regulatory bodies, it is not, at the present time, anticipated that an independent audit of the tracking function within GACM will be conducted.

Commitments to disclose the nature of investments, their dollar amounts and impacts on a quarterly basis continuing until the net proceeds are fully allocated.

## Organization



Grupo Aeroportuario de la Ciudad de México, S.A. de C.V., (GACM) is sponsoring the airport project. GACM is a state-owned company controlled by the Mexican Ministry of Communications and Transportation, which holds the concession to build, develop, operate, manage and exploit the new airport.

NAICM has adopted a green bond framework that encapsulates the issuance of green bonds by the Mexico City Airport Trust. The framework is explicitly referenced in the offering memorandum, and a copy of the framework is posted in its entirety on NAICM's website.

NAICM has also established a green bond committee with responsibility for governing the NAICM green bond framework. The committee includes sustainability experts and senior managers from the GACM environmental and sustainability, infrastructure, planning and treasury teams, as well as from Parsons Corporation, the NAICM project manager.

The GACM environmental and sustainability team and other sustainability experts involved in the NAICM project will identify potential green projects based on the eligibility criteria outlined in the NAICM green bond framework's eligible use of proceeds, as well as the projects' alignment with the plans, goals or criteria identified in the NAICM environmental master plan, NAICM environmental plans and programs and NAICM environmental impact assessments.

The NAICM green bond committee reviews and approves all proposed (existing and future) potential green projects to determine their eligibility under the NAICM green bond framework and in conjunction with the Green Bond Principles. The committee also reviews and approves all quarterly green bond reports (see "Ongoing Reporting and Disclosure" below).

Examples of potentially eligible projects and eligibility criteria for selection are as follows:

- Sustainable buildings: Any project for an existing or new building that has received, or expects to receive (based on its design, construction and operational plans) certification according to third-party verified green building standards such as LEED Silver or higher, or an equivalent certification scheme, and which has achieved, based on third-party assessment, a reduction in energy consumption of at least 15% relative to industry standards and benchmarks such as ASHRAE 90.1 (a US energy minimum energy standard for buildings) or equivalent.
- 2. Renewable energy: Development, construction, installation, operation and upgrades of equipment or facilities wholly dedicated to renewable energy generation, or wholly dedicated transmission infrastructure for renewable energy generation sources. The projects must meet the definitions of renewable energy outlined in Mexico's Energy Transition Law (Ley de Transición Energética), and may include wind, solar, tidal, geothermal, biomass and run-of-river hydro projects.
- 3. **Energy efficiency:** Development, construction, installation, operation and upgrades of any projects (products or technology) that reduce energy consumption or improve resource efficiency in airport management and operations. Such initiatives include, but are not limited to, projects that enable energy performance monitoring and modeling, such as design and installation of computer

controls, sensors, or building information systems; projects that optimize the amount and timing of energy consumption and minimize peak loads, such as the design and installation of metering, peak-load shedding, or fuel switching systems; and projects that involve the installation, maintenance or replacement of energy efficient heating, ventilation, air conditioning, cooling, lighting and electrical equipment.

- 4. Water and wastewater management: Development, construction, installation, operation and upgrades of any projects (products or technology) that reduce water consumption or improve resource efficiency in airport management and operations. Such initiatives include, but are not limited to, new or existing facilities used for the collection, treatment, recycling, or reuse of water, rainwater, wastewater or sewage; or infrastructure for flood prevention, flood defense or storm-water management, such as wetlands, retention berms, reservoirs, lagoons, sluice gates, drainage systems, tunnels and channels.
- 5. Pollution prevention and control: Development, construction, installation, operation and upgrades of any projects (products or technology) that reduce and manage waste generated in airport management and operations. Such initiatives include, but are not limited to, new or existing facilities, systems and equipment used for the collection, treatment, recycling or reuse of solid waste, hazardous waste or contaminated soil; or new or existing facilities, systems and equipment used to divert waste from landfills and reduce emissions from the transport of waste.
- 6. **Conservation and biodiversity:** Any projects for reforestation and ecological restoration; the creation and protection of forests and wetlands; or monitoring and mitigating adverse impacts on flora and fauna, such as potential impacts from construction and noise pollution.

Factor 1: Organization (15%)	Yes	No
Environmental governance and organization structure appear to be effective	•	
Policies and procedures enable rigorous review and decision making process	•	
Qualified and experienced personnel and/or reliance on qualified third parties	٠	
Explicit and comprehensive criteria for investment selection, including measurable impact results	٠	
External evaluations for decision making in line with project characteristics	٠	
Factor Score	1	

## **Use of Proceeds**



All the net proceeds (after deducting amounts primarily associated with issuance expenses and funding of debt service reserve funds) will be allocated for investment pursuant to the above framework. The Mexico City New International Airport was conceptualized to achieve a carbon neutral footprint and 100% clean energy operation. An estimated \$5.9 billion in potentially eligible environmental projects have been identified and will be financed in line with the green bond framework that GACM has adopted and the Green Bond Principles across six eligible environmental categories: sustainable buildings, renewable energy, energy efficiency, water and wastewater management, pollution prevention and control, and conservation and biodiversity.

Furthermore, potentially eligible projects have been identified (see Exhibit below), and a dedicated green bond committee with broad representation and expertise has been established to consider and evaluate eligible environmental project proposals. Explicit criteria have been established for evaluation, decision-making and oversight, within a broader context of sustainability goals and objectives for the airport project.

#### Potentially eligible projects and corresponding environmental impact indicators

Eligible Green Project Category	Examples of Potentially Eligible Projects	Potential Environmental Impact Indicators
1. Sustainable Buildings	Design, Planning and Construction of specific buildings seeking LEEDv4 Certification: (1) Passenger Terminal Building; (2) Ground Transportation Center; (3) Air Traffic Control Center	LEEDv4 Scorecards: Third-party LEED Commissioning Agent (Revitaliza Consultores; retained in March 2016 until post-occupancy) responsible for measurement, verification, LEED credit documentation and oversight to ensure project compliance with LEED certification requirements
2. Renewable Energy	Plans for on-site solar PV installation: Transmission infrastructure designed to incorporate potential future development of on-site and local renewable energy generation projects (e.g: expansion of solar PV capacity); development of biogas and landfill gas projects	Renewable energy generation capacity in MW; renewable energy production (MWh/year)
3. Energy Efficiency	Two central utility plant facilities focused on the modeling, optimization, monitoring and control of energy consumption; Energy Star and other energy efficient equipment and systems	Energy consumption of various buildings and facilities (KWh/year); reduction in electricity and fuel consumption relative to industry baselines
4. Water and Wastewater Management	Water treatment plants for potable and grey water; sewage treatment plant	Potable and non-potable water consumption (m <sup>3</sup> ); volume of water treated on-site (m <sup>3</sup> ); volume of water recycled on-site (m <sup>3</sup> )
5. Pollution Prevention and Control	Waste collection, sorting, and treatment facility; soil remediation and treatment projects	Volume of waste diverted from landfill (tons); volume of hazardous waste treated (tons)
6. Conservation and Biodiversity	Various projects scoped through Environmental Impact and Risk Studies and in consultation with regulators (e.g. SEMARNAT) and technical advisors (e.g. Instituto Politecnico Nacional) including: (1) mitigation of impacts to wetlands ecology; (2) flora and fauna rescue and relocation; (3) monitoring and conservation of avian species	Qualitative descriptions of projects, initiatives and commitments: (1) reforestation (hectares); (2) maintenance and conservation of wetlands (hectares)

Source: Company reports

Factor 2: Use of Proceeds	Yes	No
>95% - 100% of proceeds allocated to eligible project categories that are determined based on the issuer's adopted policies and the categories established under the Green Bond Principles that will be further informed by one or more robust and widely recognized green bond frameworks or taxonomies that qualify eligible projects, including any applicable regulatory guidelines.	•	
Factor Score	1	

#### **Disclosure on the Use of Proceeds**



GACM will use the net proceeds to finance the design, construction, development and operation of NAICM in accordance with the NAICM green bond framework, which provides a detailed description of potentially eligible projects. The framework includes a process for evaluating and selecting green projects based on determined eligibility criteria.

The GACM environmental and sustainability team and other sustainability experts will identify potential green projects, based on eligibility criteria outlined in the NAICM green bond framework (see "Use of Proceeds" section) and the projects' alignment with the plans, goals or criteria identified in various environmental plans, programs and impact assessments. These include the NAICM environmental plans and programs, and NAICM environmental impact assessments.

The NAICM green bond committee will review all proposed (existing and future) potential green projects to determine their eligibility under the green bond framework.

GACM has committed to track the net proceeds of the notes, and will confirm that such proceeds were used for eligible project categories and projects as set out in the framework. GACM has also committed to continued disclosure on the portfolio balance of unallocated proceeds.

GACM obtained a second-party opinion from consultancy Sustainalytics to confirm the validity of the NAICM green bond framework; the Sustainalytics report was published on the NAICM website. GACM is also planning to engage Sustainalytics to review the allocation of net proceeds and provide a report on its conformity with the NAICM green bond framework. The review will be conducted annually until the net proceeds are fully allocated to eligible green projects. The first report, expected to be published before the end of 2017, will be published on the NAICM website.

Factor 3: Disclosure on the Use of Proceeds	Yes	No
Description of green projects, including portfolio level descriptions, actual or intended	٠	
Adequacy of funding and/or strategies to complete projects	•	
Quantitative and/or qualitative descriptions for targeted environmental results	•	
Methods and criteria, both quantitative and qualitative, for calculating performance against targeted environmental results	•	
Issuer relies on external assurances: second party reviews, audits and/or third party certfications	•	
Factor Score	1	

## **Management of Proceeds**



Net proceeds will be segregated and deposited directly into a trust held by GACM, which the Mexican Ministry of Communications and Transportation (SCT) wholly owns. GACM is responsible for maintaining internal records showing the allocation of net proceeds to fund eligible green projects until the proceeds are fully spent.

Pending the allocation of net proceeds to existing and new eligible green projects, the proceeds may be used to repay outstanding debt, or for cash investments (or other liquid market instruments) or other lending purposes. To the extent that proceeds are invested in liquid investments, these will consist of short-dated government securities. GACM has committed to monitor and account for net proceeds, to ensure that the allocation of such proceeds, even in the short term, complies with eligible projects and meets the eligibility criteria detailed in the framework.

GACM has also undertaken a number of measures to increase transparency around the projects and uses of net proceeds, including establishing a transparency unit to ensure that relevant information about the NAICM project is made available to the public. Documentation on the project is updated regularly and made available to the public through its website (www.aeropuerto.gob.mx).

In terms of audits, two main entities are currently involved in the auditing and oversight of GACM: the Ministry of Public Administration (Secretaría de la Función Pública, SFP) through the Internal Control Body (Órgano Interno de Control, OIC) of SCT; and the Superior Audit Office (Auditoría Superior de la Federación, ASF), which oversees all parts of the general government sector, reports to Congress and is completely independent of GACM and the executive branch of government. However, there is no direct focus on the system used for tracking disbursements earmarked for eligible projects.

Factor 4: Management of Proceeds	Yes	No
Bond proceeds are segregated and separately tracked on an accounting basis or via a method by which proceeds are earmarked	٠	
Application of proceeds is tracked by environmental category and project type	•	
Robust process for reconciling planned investments against actual allocations	٠	
Clear eligibility rules for investment of cash balances	٠	
Audit by external organization or independent internal audit unit		٠
Factor Score	2	

## **Ongoing Reporting and Disclosure**



To provide transparency around the complex airport program, its scale and the potentially longer lead times associated with the allocation of the proceeds, NAICM has committed to providing quarterly updates continuing until the net proceeds are fully allocated and as necessary thereafter in case of new developments. Where feasible, the NAICM green bond reports will include qualitative and, if reasonably practicable, quantitative environmental performance indicators on the eligible green projects. Performance indicators may change from year to year, and may include some of the following indicators:

- 1. List of eligible buildings that received third-party verified green building certification
- 2. Energy and/or water consumption of buildings
- 3. Energy and/or water use reduction achieved by eligible green projects
- 4. Greenhouse gas emissions reduced by an eligible green project
- 5. Amount of waste reduced or diverted from landfill
- 6. Energy purchased or generated on-site from renewable sources

To date, GACM has published three quarterly green bond reports updating the market on various elements of the new airport project, in line with its original commitment. The first report, dated December 2016, was published within approximately three months from the first bond issue in September 2016, again in line with its original commitment. Two subsequent reports have been published, dated March 2017 and June 2017. All quarterly green bond reports are published on the NAICM website following review by the NAICM green bond committee.

Although the form of the reports has changed slightly over the three publications, the reports all include: a project overview, summary of the green bond framework, list of eligible green project categories with category overviews, summary of proceeds allocation to date listed by eligible green category, and summary of broad performance indicators.

The individual quarterly reports have also contained additional unique information providing detail on various other aspects of the projects. The December 2016 report contained information about general sustainability criteria for the NAICM buildings, with specific detail given on the passenger terminal building, ground transportation center, air traffic control terminal and area control central. The March 2017 report highlighted a case study on the use of renewable energy during NAICM project construction, with specific details about installed photovoltaic capacity and tons of CO<sub>2</sub> emissions avoided. The June 2017 report provided a highly detailed description of the NAICM environmental impact assessment conducted under the auspices of Mexico's Ministry of the Environment and Natural Resources (SEMARNAT).

The quarterly reports provide detail on proceeds allocations to date, divided up between eligible green project categories. Proceeds allocations at the point of publication of each of the three quarterly green bond reports totaled \$177 million at December 2016, \$197

million at March 2017 and \$441 million at June 2017. Approximately 93% of proceeds were allocated to sustainable buildings as of the June 2017 report, with the remaining proceeds split between renewable energy, energy efficiency, water and wastewater management, pollution prevention and control, and conservation and biodiversity.

GACM remains in the process of developing detailed performance indicators to include in quarterly reports. Once developed, GACM anticipates that these performance indicators will carry through each of the quarterly reports with progress tracked relative to original targets. To date, quarterly reports have contained broad guidance indicating that management expects the new airport to result in 70% reduction in potable water used, 40% reduction in total energy used, 50% reduction in greenhouse gas emissions, 10%-30% reduction in waste generation and 10%-30% improvement in the amount of waste diverted to recycling facilities.

Factor 5: Ongoing Reporting and Disclosure	Yes	No
Reporting and disclosure post issuance provides/to be provided detailed and timely status updates on projects	•	
Ongoing annual reporting is expected over the life of the bond		•
Disclosures provide granular detail on the nature of the investments and their expected environmental impacts	•	
Reporting provides/to be provided a quantiative and/or qualitative assessment of the environmental impacts actually realized to- date	•	
Reporting includes/to include quantitative and/or qualitative explanation of how the realized environmental impacts compare to projections at the time the bonds were sold	•	
Factor Score	2	

## About Mexico City's new airport

GACM sponsors the airport project. The group holds the concession to build, develop, operate, manage and exploit the new airport, which will be constructed in phases calibrated to meet increases in passenger traffic. The first phase is estimated to be completed in 2020, with capacity to support 50 million passengers. Once the second phase of construction is complete, the airport is expected to have capacity to support 125 million passengers. The airport includes the following main components:

- » Airdrome, including runways, taxiways and access roads, platforms, air navigation services and equipment, and air traffic control tower
- » Passenger terminal
- » Parking lots and public access areas, connections to external streets and traffic, network roads and ground transportation center
- » Support areas, including general aviation, cargo, logistics center, administration, central plant services, military and government installations and fuel facilities
- » Aerotropolis (future residential and commercial development areas)
- » Ecological restoration and conservation areas, water and waste management facilities, and energy generation and transmission infrastructure

#### **Background on Mexico City International Airport**

In September 2014, Mexico's President Enrique Peña Nieto announced the development and construction of a new international airport in Mexico City to meet the projected long-term demands of air travel in the city. The new airport, which was originally proposed in the early 2000s, is one of the most important infrastructure projects to be undertaken in Mexico in recent decades.

Consistent with Mexico's ambitious Paris climate agreement commitment, under which its greenhouse gas emissions peak in 2026 and then decline by 22% by 2030, the plans call for the airport to be 100% environmentally sustainable. Notwithstanding that pollution and noise will be generated during the construction phase and once NAICM is fully operational, an environmental master plan has been adopted. The plan aims to address adverse environmental impacts and achieve a balance between economic, environmental and social considerations.

The environmental master plan, which the Mexican Ministry of Environmental and Natural Resources (SEMARNAT) coordinated, established a set of ambitious goals for the airport. Key objectives include:

- » Achieving a carbon neutral footprint
- » 100% clean energy operation
- » Attainment of LEED certifications. (The airport is on target to achieve LEEDv4 platinum certifications for the passenger terminal building, and LEEDv4 Gold certification for the air traffic control tower and ground transportation center.)
- » Achieving 30% savings in water consumption
- » Restoring an environmentally degraded area
- » Using solar energy to generate electricity
- » Water usage to be sourced to on-site treated wastewater
- » Preserving and protecting bird habitats in the area
- » Sanitizing nine eastern rivers

A team with proven experience in airport design and construction has led the project's design and integration. Members include ARUP, the developer of the master plan; Foster + Partners, working in collaboration with Fernando Romero Enterprise (FR-EE) architects; and Netherlands Airport consultants, serving as master engineer. US construction firm Parsons was retained as the project manager.

In addition to meeting federal environmental laws and regulations, which have been increasing in Mexico in recent years, NAICM is also subject to state and municipal rules and regulations. Assessments of the environmental and social risks and impacts linked to the NAICM project were prepared in the form of an environmental impact assessment and an environmental risk study submitted for evaluation to SEMARNAT. (Information continues on the following page.)

As recommended in the resolution to the environmental impact statement issued by SEMARNAT, mitigation measures are anticipated to address potential impacts to fauna and flora at the airport site and its surroundings. Furthermore, the businesses and neighborhoods that will develop post-construction will require water, which calls for investments that the National Water Commission is coordinating. The NAICM project has addressed these concerns with plans to rescue an ecologically degraded zone by developing green areas, particularly the Metropolitan Forest, which will comprise 670 hectares. In addition, 5,000 hectares will be reforested within the Valley of Mexico.

The environmental master plan sets ambitious goals for NAICM, such as obtaining the LEED certification, becoming the first non-European airport to operate with a carbon neutral footprint, and deriving 100% of its energy from clean local sources. In this respect, the plans include the construction of a biogas plant and taking advantage of solar intake conditions, which are much better than those of other some large airports.

A variety of measures and programs will be used to address the issues raised by the resolution to the environmental impact assessment. They primarily include obtaining insurance coverage to assure the implementation of the mitigation activities; preparation of evaluation, management, control and restoration programs, to be presented prior to the start of construction activities and implemented during the construction, operation and maintenance stages; implementation of monitoring programs; presentation of periodic reports; and the appointment of an environmental surveillance committee to evaluate the project's performance.

NAICM's environmental and social programs were found to be compliant with the requirements of the Equator Principles, as well as the International Finance Corporation's Performance Standards. The finding was based on an assessment conducted by URS Corporation Mexico, a subsidiary of AECOM, for the benefit of certain lenders, which formed part of the credit facility contracted in October 2015.

## Moody's Green Bond Assessment (GBA)

Moody's GBA represents a forward-looking, transaction-oriented opinion on the relative effectiveness of the issuer's approach to manage, administer and allocate assets to, and report on, environmental projects financed by proceeds from green bond offerings. GBAs are expressed using a five-point relative scale, ranging from GB1 (Excellent) to GB5 (Poor). A GBA does not constitute a credit rating.

## Moody's Related Research

#### Methodology:

» Green Bonds Assessment (GBA), March 30, 2016

#### **Rating Action:**

» Moody's Assigns a Baa1 Rating to Mexico City Airport Trust Senior Secured Notes; Outlook Negative, September 1, 2017

#### Sector In-Depth:

- » Green bonds global: Record volume achieved in second quarter 2017 despite slower growth, July 27, 2017
- » Environmental Risks: Oil and Gas Industry Faces Significant Credit Risks from Carbon Transition, April 26, 2017
- » Green Bonds Global: France's Sovereign Offering Propels Strong First-Quarter 2017 Issuance, April 20, 2017
- » Environmental Risks: Shift in US Climate Policy Would Not Stall Global Efforts to Reduce Carbon Emissions, February 16, 2017
- » Regional and Local Governments EMEA: Sub-sovereign green bond issuance has growth potential, September 21, 2016
- » Environmental Risks: Risks and Opportunities: What the Paris Agreement Means for Capital Markets, July 20, 2016
- » Cross Sector Global: Moody's Approach to Assessing the Credit Impacts of Environmental Risks, November 30, 2015
- » Environmental Risks: Heat Map Shows Wide Variations in Credit Impact Across Sectors, November 30, 2015
- » <u>Environmental, Social and Governance (ESG) Risks Global: Moody's Approach to Assessing ESG Risks in Ratings and Research</u>, September 8, 2015

#### Sector Comment:

- » Environmental, Social and Governance (ESG) Global : Greater policy certainty and corporate disclosure would enhance carbon transition analysis, August 16, 2017
- » Environmental Risks and Developments: FSB Task Force Recommendations Will Lead to a Mainstreaming of Climate Disclosure Over Time, June 29, 2017
- » <u>US Utilities and Public Power: US Executive Order on Clean Power Plan Will Slow, But Not Halt, Transition Away From Coal</u>, March 31, 2017

To access any of these reports, click on the entry above. Note that these references are current as of the date of publication of this report and that more recent reports may be available. All research may not be available to all clients.

## **Endnotes**

1 The special purpose trust has been created pursuant to the Irrevocable Administration and Payment Trust Agreement No. 80460 (Contrato de Fideicomiso Irrevocable de Administración y Pago Número 80460) acting through Nacional Financiera, S.N.C., Institución de Banca de Desarrollo, Dirección Fiduciaria, in its capacity as trustee, and operating under the laws of Mexico. © 2017 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S INVESTORS SERVICE, INC. AND ITS RATINGS AFFILIATES ("MIS") ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MOODY'S PUBLICATIONS MAY INCLUDE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL, FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS AND MOODY'S OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS NOR MOODY'S PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

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