

## TD Green Bond (2017 Issuance) – Use of Proceeds

In 2014, TD issued the first green bond from a Canadian commercial bank – a C\$500 million three-year bond that matured on April 3, 2017. In 2017, TD issued its second green bond, a US\$1 billion three-year bond maturing on September 11, 2020, which is one of the largest green bond offerings by a bank in the developed markets. TD Green Bonds support North American projects that contribute to the low carbon economy through:

1. Renewable energy generation: Investments that help supply energy from renewable and low carbon sources.
2. Energy efficiency and management: Investments that help reduce energy consumption or help manage and store energy.
3. Green infrastructure and sustainable land use: Investments that support conservation, sustainable land, waste or water management, and enhance climate resiliency.

Please refer to the [TD Green Bond Framework](#) for more information on TD Green Bonds.

## 2017 Green Bond Issuance

The annual environmental benefits of projects allocated to the TD Green Bond issued in 2017 include:

- Over 46,000 MWh of energy saved or green energy generated, enough to power nearly 3,700 homes
- Over 7,000 tonnes CO<sub>2</sub>e reduced/avoided, equivalent to removing nearly 1,600 passenger vehicles off the road
- Over \$180,000 in natural capital value generated

Three projects funded by the 2017 TD Green Bond are featured below, as well as a breakdown of benefits and use of proceeds by project category.

### One Vanderbilt Avenue, NYC

**Amount Allocated:** \$170MM USD

**Project Lifetime:** 5 years

**Project Description:** Construction financing for the One Vanderbilt Avenue, a 58 story, 1.7 million square foot Class A high office tower in New York City. The One Vanderbilt is targeting both LEED and WELL certifications.

**Environmental Benefits:** One Vanderbilt is on track to achieve the highest level of LEED and WELL certification and is projected to have one of the lowest carbon footprints in New York City. This already low carbon footprint is further reduced by the purchase of renewable energy certificates and carbon offsets.

The building design incorporates a 1.2 MW cogeneration plant, which produces electricity, heat, and cooling. This cogeneration plant contributes significantly to the anticipated 19% overall energy savings for the building. Other energy saving measures include high-performance glazing and high efficiency lighting, chillers, and boilers.

The building will include ultra-high efficiency restroom fixtures designed to reduce water consumption by 35% and a storage tank that will capture rainwater for reuse in mechanical systems and irrigation. Additionally, structural steel and concrete will contain recycled content, which will reduce reliance on raw materials.

Indoor environmental quality has been a high priority during design of the building: finishes have been carefully selected to have minimal volatile organic compound content, and many building components meet strict standards for environmental and human health impact.

Responsible construction practices ensured that at least 75% of construction waste was diverted from landfills.

### Giiwedín Noodin First Nation Energy Corporation: Grand Bend Wind Farm

**Amount Allocated:** \$25.3MM CAD

**Project Lifetime:** 15 years

**Project Description:** Long Term Financing for First Nations partners Walpole Island First Nation and Aamjiwnaang First Nation in the 100Mw Grand Bend Wind Farm power project. The Grand Bend Wind Farm project is located near the eastern shore of Lake Huron north of the village of Grand Bend.

**Environmental Benefits:** This project is estimated to generate in excess of 280,000 MWh annually, and has the potential to displace the equivalent amount of fossil fuel generation and its carbon emissions totaling 165,000 tonnes. The electrical output of the wind farm corresponds to the energy use of approximately 30,000 homes for 1 year.



## Plenary Roads Winnipeg Transitway

**Amount Allocated:** \$68.8MM CAD

**Project Lifetime:** 3.3 years

**Project Description:** Stage 2 of the Southwest Rapid Transitway includes a 7.6 km southerly extension of the existing infrastructure of Stage 1 of the Southwest Rapid Transitway from Pembina Highway and Jubilee Avenue to Markham Road and the University of Manitoba.

**Environmental Benefits:** The Southwest Rapid Transitway presents an opportunity for significant environmental benefits as users shift from high-fuel consumption private automobiles to public transit and active transportation travel modes. Through improved modal split, as well as operating efficiencies resulting from an ability to service more customers with fewer buses, a rapid transit system provides the opportunity for a significant reduction in fossil fuel consumption and greenhouse gas emissions from the City's urban transportation system.

## TD Green Bond 2017 Issuance – Use of Proceeds as at October 31, 2017

Category	TD Green Bond criteria	Allocated amount <sup>1,2,3,4</sup> (\$MM USD)	Annual energy saved or green energy generated (MWh)	Annual GHG emissions reduced/avoided (tonnes CO <sub>2</sub> e)	Natural capital value (CAD)
Hydroelectric	Construction and operation of hydro (existing hydropower assets in temperate zones, or new hydropower facilities under 25 MW generation capacity)	\$-	-	-	-
Solar Power	Development, construction and operation of solar energy facility	\$2.2	882	8	1,288
Wind Energy	Development, construction and operation of wind energy facilities	\$19.6	19,600	718	8,510
Building Efficiency	Green buildings – new buildings and retrofits to existing buildings to achieve LEED and other green building certification	\$922.4	25,968	6,739	76,722
Transportation Efficiency	Retrofit or replace fleets and invest in public transportation, clean fuel technology, electric vehicles, etc.	\$53.3	Not Available <sup>5</sup>	Not Available <sup>5</sup>	Not Available <sup>5</sup>
Sustainable Waste Management	Improvements in minimization, collection, recycling, storage and disposal, composting	\$-	-	-	-
<b>TOTAL</b>		<b>✓ \$997.5</b>	<b>46,450</b>	<b>7,465</b>	<b>186,520</b>

✓ Facts and figures over which Ernst & Young LLP provided reasonable level assurance

<sup>1</sup> All allocated deal values are refinancing.

<sup>2</sup> For more information on the basis of allocating the use of proceeds, visit the [TD Green Bond Framework](#).

<sup>3</sup> Visit the [2017 Assurance Report](#) from E&Y LLP.

<sup>4</sup> TD received cash proceeds of \$997.5 million net of agency fees.

<sup>5</sup> Impact metrics cannot be quantified at this time due to data limitations.

