

MUFG Green Bonds Reporting (Issuance date 13/9/2016)

Use of Proceeds

Eligible Green Projects

Renewable Energy



Financing of eligible renewable energy projects (solar thermal power generation, solar photovoltaic power generation and onshore and offshore wind farm projects) which are certified as eligible to funding*¹ based on environmental and social impact assessments performed by MUFG Bank in accordance with the Equator Principles*²

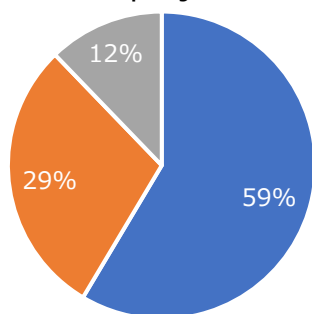
*1 Eligible projects need to be categorized as Category B or Category C under the Equator Principles.

*2 The Equator Principles is a financial industry benchmark for identifying, assessing and managing environmental and social risks and impacts in large-scale projects, which is intended to serve as a common baseline and framework for financial institutions acting as lenders or financing advisers for clients.

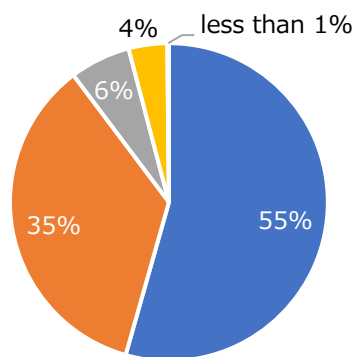
Allocation of Funds (as of the end of March 2023)

The aggregate amount of loans outstanding as of March 31, 2023 to Eligible Green Projects that were funded by the net proceeds from the sale of the MUFG Green Bonds issued in September 2016 was US\$598million. By type of electricity generation project, solar photovoltaic power, wind power (onshore), and wind power (offshore) accounted for 59%, 29%, and 12%, respectively. In terms of geographical distribution, Japan represented the largest portion, followed by U.S.A and France. (See the charts below for details for your reference.) The foregoing amounts are U.S. dollar equivalent amounts calculated based on the exchange rate between the U.S. dollar and other currencies and as of March 31, 2023.

By type of electricity generation project



By geographical distribution



■ PV (Solar) ■ Wind (Onshore) ■ Wind (Offshore) ■ Japan ■ U.S.A ■ France ■ India ■ Germany

Environmental Impacts (as of the end March 2023)

The environmental impacts of Eligible Green Projects to which proceeds from the MUFG Green Bonds issued in September 2016, is as follows:

Environmental Impacts (Renewable Energy)

The annual energy generation from Eligible Green Projects to which proceeds from the MUFG Green Bonds issued in September 2016 is 9,257 million kWh per year with avoided annual CO₂ emissions of 4.66 million tons. MUFG bank's estimated proportion of the CO₂ avoidance is 1.05 million tons, which can be obtained as an aggregate amount of multiplying MUFG Bank's share of financing for each eligible green project by CO₂ emissions avoided of the project. The annual energy production is calculated based on the below formula with the average capacity factor published by the International Renewable Energy Agency.

$$\begin{aligned} &\text{Annual energy generation (kWh)} \\ &= \text{capacity of energy generation (kW)} \times \text{Hours of operation} \times \text{Average capacity factor (\%)} \end{aligned}$$

The estimated CO₂ avoidance is calculated based on the average emission factor published by the International Finance Corporation as below.

$$\begin{aligned} &\text{CO}_2 \text{ emission reductions} \\ &= \text{Annual energy production (kWh)} \times \text{Average emission factor (gCO}_2\text{/ kWh)} \end{aligned}$$

Category	Sub category	Annual energy generation (kWh)	Annual CO ₂ emissions avoided (t-CO ₂)
Renewable Energy	Solar photovoltaic power	2,174,694,178	1,096,046 (292,985)
	Wind (Offshore)	3,867,364,800	1,949,152 (217,014)
	Wind (Onshore)	3,215,037,384	1,620,379 (540,313)
Total		9,257,096,362	4,665,577 (1,050,312)

※The figures in parentheses () is MUFG Bank's proportion.

Disclosure Policy (conducted in June 2017)

MUFG has received a report on the allocation of amounts equivalent to the net proceeds from the sale of its Green Bonds issued in September 2016 from Sustainalytics in the Netherlands, and the CFO of MUFG has provided management assertions with respect to such allocation.

Solar Power Generation Project in Miyazaki Prefecture

MUFG Bank arranged ¥35 billion in project financing for a solar power generation project in Hosoe, Miyazaki Prefecture. This project is a joint venture between GE Energy Financial Services and Pacifico Energy. The power plant commenced commercial operation in February 2018. The power plant has a total generation capacity of 96.2 MW, which is equivalent to the annual power consumption of about 30,000 ordinary households.



Pacifico Energy Hosoe Mega-Solar Power Project

Offshore Wind Power Generation Project in Germany

MUFG Bank signed a loan agreement totaling up to EUR 89.9 million to finance an offshore wind power generation project in Germany. The total financing amount is EUR 899 million provided by 10 commercial lenders.

The project is owned by Northland Power (85%) and Innogy (formerly RWE) (15%).

The project commenced commercial operation in December 2017. The power plant has a total generation capacity of 332 MW, which is enough to supply the equivalent of approximately 400,000 German households.



Nordsee One Offshore Wind Project

(As of June 2023)