

# Green bonds issued on October 16, 2017

## Environmental Impact (March 2023)

### Renewable Energy

| Category         |         | Projects | Annual Energy Production<br>(Unit: MWh) <sup>1</sup> | Mizuho's Contribution <sup>3</sup> to Expected CO <sub>2</sub> Emission Reductions<br>(Unit: tons of CO <sub>2</sub> /year) <sup>2</sup> |
|------------------|---------|----------|--|--|
| Renewable Energy | Solar   | 10       | 1,831,541  | 258,476  |
|                  | Wind    | 5        | 4,582,456  | 236,954  |
|                  | Biomass | 1        | 1,201,316  | 132,394  |
| Total            |         | 16       | 7,615,313  | 627,824  |

Notes:

- Total production for all projects.
- Annual expected CO<sub>2</sub> emission reductions are based on the concept of Avoided Emissions under [PCAF](#) Guidance. We use the emission factors of fossil fuels that are consumed to generate the biggest electricity in the region that the project is located, and calculate CO<sub>2</sub> emission reductions contributed by the renewable power projects that Mizuho finance.
- Calculated by multiplying the project expected CO<sub>2</sub> emission reductions by the ratio of Mizuho's outstanding debt of the total project cost (Mizuho's Attribution Factor). Mizuho's Attribution Factor is in line with [PCAF](#) Guidance.

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|------------------|---------|----------|--|--|
| Renewable Energy | Solar   | 7        | 1,564,860  | 321,603  |
|                  | Wind    | 4        | 4,459,324  | 232,224  |
|                  | Biomass | 1        | 1,201,316  | 83,879   |
| Total            |         | 12       | 7,225,500  | 637,706  |

Notes:

1. Total production for all projects.
2. Annual expected CO<sub>2</sub> emission reductions are based on the concept of Avoided Emissions under [PCAF](#) Guidance. We use the emission factors of fossil fuels that are consumed to generate the biggest electricity in the region that the project is located, and calculate CO<sub>2</sub> emission reductions contributed by the renewable power projects that Mizuho finance.
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# Environmental Impact (March 2021)

## Renewable Energy

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|------------------|---------|----------|--|--|
| Renewable Energy | Solar   | 6        | 1,409,757  | 328,279  |
|                  | Wind    | 3        | 4,188,371  | 233,310  |
|                  | Biomass | 1        | 1,204,171  | 65,291   |
| Total            |         | 10       | 6,802,299  | 626,880  |

Notes:

1. Total production for all projects.
2. Annual expected CO<sub>2</sub> emission reductions are based on the concept of Avoided Emissions under [PCAF](#) Guidance. We use the emission factors of fossil fuels that are consumed to generate the biggest electricity in the region that the project is located, and calculate CO<sub>2</sub> emission reductions contributed by the renewable power projects that Mizuho finance.
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