# Green bonds issued on September 5, 2022 Environmental Impact (March 2023)

## Renewable Energy

| Category | | Projects | Annual Energy Production (Unit: MWh)[1] | Mizuho's Contribution[3] to Expected $CO_2$ Emission Reductions (Unit: tons of $CO_2$/year) [2] |
|---|---|---|---|---|
| Renewable Energy | Solar | 6 | 7,209,074 | 165,782 |
| | Wind | 7 | 15,307,905 | 164,196 |
| | Biomass | 1 | 541,037 | 50,351 |
| Total | | 14 | 23,058,017 | 380,329 |

Notes:

1. Total production for all projects.

2. Annual expected $CO_2$ 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 $CO_2$ emission reductions contributed by the renewable power projects that Mizuho finance.

3. Calculated by multiplying the project expected $CO_2$ 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.

## Green Building

| Category | Number of Buildings[4] | Number and certification level of green buildings[5] | | | |
|---|---|---|---|---|---|
| | | LEED[6] | CASBEE[7] | DBJ Green Building | BELS[8] |
| Green Building | 412 | Platinum: 1 property<br>Gold: 1 property | S rank: 135 properties<br>A rank: 170 properties | 5 stars: 15 properties<br>4 stars: 53 properties | 5 stars: 82 properties<br>4 stars: 15 properties |

Notes:

4. Number of Buildings which have received classifications

5. As some buildings obtained more than one certifications, the total numbers don't match with the number of buildings

6. LEED : Leadership in Energy and Environmental Design

7. CASBEE : Comprehensive Assessment System for Built Environment Efficiency

8. BELS : Building−Housing Energy−efficiency Labelling System