

JCM Project Design Document

Energy Saving by Inverters for Distribution Pumps in Water Treatment Plant

Annex 1: Estimated emissions reductions in each year for each equipment

1. Estimated emissions reductions in each year for each equipment

Estimated emissions reductions in each year for No.4 distribution pump (520kW) and No.7 distribution pump (272kW) are shown below.

* Due to rounding, the sum of the breakdown in this Annex is not necessarily the same as the value of “C.3. Estimated emissions reductions in each year” of PDD.

Table 1. Estimated emissions reductions in each year (No.4 distribution pump)

Year	Estimated Reference emissions (tCO _{2e})	Estimated Project Emissions (tCO _{2e})	Estimated Emission Reductions (tCO _{2e})
2018	899.4	737.1	162
2019	1,774.6	1,454.2	320
2020	1,774.6	1,454.2	320
2021	1,774.6	1,454.2	320
2022	1,774.6	1,454.2	320
2023	1,774.6	1,454.2	320
2024	1,774.6	1,454.2	320
2025	1,774.6	1,454.2	320
2026	1,774.6	1,454.2	320
2027	1,774.6	1,454.2	320
2028	1,774.6	1,454.2	320
2029	1,774.6	1,454.2	320
2030	1,774.6	1,454.2	320
Total (tCO _{2e})			4,002

Table 2. Estimated emissions reductions in each year (No.7 distribution pump)

Year	Estimated Reference emissions (tCO _{2e})	Estimated Project Emissions (tCO _{2e})	Estimated Emission Reductions (tCO _{2e})
2018	470.5	414.8	55
2019	928.2	818.4	109
2020	928.2	818.4	109
2021	928.2	818.4	109
2022	928.2	818.4	109
2023	928.2	818.4	109
2024	928.2	818.4	109
2025	928.2	818.4	109
2026	928.2	818.4	109
2027	928.2	818.4	109
2028	928.2	818.4	109
2029	928.2	818.4	109
2030	928.2	818.4	109
Total (tCO _{2e})			1,363