Green Bond Investor Report

Vattenfall issued its first green bond in June 2019 and by year-end 2023, Vattenfall had a total of SEK 25.2 billion in outstanding green bonds, whilst having invested a total of SEK 43.6 billion.

Vattenfall has decided to use green financing in its funding activities, and we expect all future long-term financing to be made under the Green Bond framework¹.

Green bond framework in brief

The current green bond framework consists of four eligible categories: Renewable energy, transmission and distribution of electricity, energy efficiency, and clean transportation. The climate research institute CICERO has provided a second opinion on the framework and issued the highest rating, "Dark Green".

Outstanding bonds

Our outstanding green bonds issued up to 2022 were emitted under the previous framework where the eligible categories were: Renewable energy and related infrastructure, energy efficiency, electrification of transport and heating, and industry projects. Our latest hybrid bond issued in 2023 was issued under our new green bond framework.

Investments under Vattenfall's Green Bond Framework^{3,4}

| | | Capacity (MW) | Est. CO ₂ reduction ² (ktonnes) | Vattenfall's interest (%) | | Total | | 3 -2022 | Total |
|--|-------------------|------------------|--|---------------------------|---------------|------------|--------|---------|-------------|
| Category / project / country | Туре | | | | Start/ compl. | investment | 2023 | | |
| Renewable energy and related infrastruc | ture | | | | | | | | |
| Hollandse Kust Zuid 1-4 / Netherlands | Wind offshore | 1,509 | 1,563 | 51 | 2020/2024 | 2,600 MEUR | 7,814 | 17,935 | 25,750 MSEK |
| Kriegers Flak / Denmark | Wind offshore | 604 | 345 | 100 | 2019/2021 | 7,600 MDKK | 0 | 9,694 | 9,694 MSEK |
| Vesterhav projects / Denmark | Wind offshore | 344 | 196 | 100 | 2022/2023 | 657 MEUR | 4,262 | 1,806 | 6,068 MSEK |
| Princess Ariane (retained) / Netherlands | Wind onshore | 180 | 139 | 100 | 2018/2020 | 220 MEUR | 0 | 1,348 | 1,348 MSEK |
| Bruzaholm / Sweden | Wind onshore | 139 | 3 | 100 | 2023/2025 | 2,124 MSEK | 226 | 0 | 226 MSEK |
| Velinga / Sweden | Wind onshore | 67 | 1 | 100 | 2024/2026 | 1,200 MSEK | 0 | 0 | 0 MSEK |
| Industry projects | | | | | | | | | |
| HYBRIT / Sweden | Fossil-free steel | Pilot project | _ | 33 | 2019/2021 | 858 MSEK | 20 | 460 | 480 MSEK |
| Total | | | | | | | 12,322 | 31,243 | 43,565 MSEK |
| | | | | | | | | | |

Outstanding green bonds



Bruzaholm

Vattenfall has started the construction of the onshore wind farm project in Bruzaholm, Sweden. The 21 wind turbines will upon completion produce 460 GWh, which corresponds to the annual electricity consumption of approximately 91,500 households. The wind farm is expected to be commissioned in 2025.



Velinga

During 2023, Vattenfall took the final investment decision to start the construction of the onshore wind farm in Velinga, Sweden. The project will have an annual production of approximately 173 GWh and an output of 67 MW. Construction started during the year and the wind farm is expected to be commissioned in early 2026.

emission factors which will decline over time as the energy system decarbonises. Actual production emission factors and savings will vary. Other projects are compared to project-specific reference cases. ³ All numbers in the table reflect the status as per 31 December 2023.

⁴ The reporting of spend relating to green bonds has been updated from 2023 with the aim to be fully comparable with other, financial reporting of the projects. This is reflected in all active projects above, including for historic investments, i.e. accured expenses and not cash flow.

¹ All external borrowing is done at corporate level with bonds issued by the parent company, Vattenfall AB, for general corporate purposes. Our bonds have a balanced maturity profile and Vattenfall does not refinance any particular bond maturities but rather takes into consideration the total financing need, i.e. cash from operations, existing liquidity, capex needs, and maturing financial payments such as bond repayments. ² Production from onshore wind estimated to 2.6 GWh/MW installed, from offshore wind to 3.5 GWh/MW installed, and from solar to 1.0 GWh/MW installed. Resulting production is compared against grid average