

Green Bond Fact Sheet

Vattenfall AB		Date: 08/07/2019	
Issue date: 24-06-2019 Maturity date: 24-06-2026 Tenor: 7			
Issuer Name	Vattenfall AB	Amount Issued	EUR500m/USD570m
Country of risk	Sweden	CBI Database	Included
Issuer Type ¹	Non-financial corporate	Bond Type	Senior unsecured
Green Bond Framework	Link to framework	Second party opinion	CICERO
Certification Standard	Not certified	Assurance report	N/A
Certification Verifier	N/A	Green bond rating	N/A
Use of Proceeds			
<input checked="" type="checkbox"/> Energy	<input type="checkbox"/> Solar <input type="checkbox"/> Onshore wind <input type="checkbox"/> Offshore wind <input type="checkbox"/> Geothermal <input type="checkbox"/> Hydro	<input type="checkbox"/> Tidal <input type="checkbox"/> Biofuels <input type="checkbox"/> Bioenergy <input type="checkbox"/> District heating <input type="checkbox"/> Electricity grid	<input type="checkbox"/> Energy storage <input type="checkbox"/> Energy performance <input type="checkbox"/> Infrastructure <input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience
<input type="checkbox"/> Buildings	<input type="checkbox"/> Certified Buildings <input type="checkbox"/> HVAC systems <input type="checkbox"/> Energy performance	<input type="checkbox"/> Water performance <input type="checkbox"/> Energy storage/meters <input type="checkbox"/> Other energy related	<input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience
<input type="checkbox"/> Transport	<input type="checkbox"/> Electric vehicles <input type="checkbox"/> Low emission vehicles <input type="checkbox"/> Bus rapid transit <input type="checkbox"/> Passenger trains <input type="checkbox"/> Urban rail	<input type="checkbox"/> Freight rolling stock <input type="checkbox"/> Coach / public bus <input type="checkbox"/> Bicycle infrastructure <input type="checkbox"/> Energy performance	<input type="checkbox"/> Transport logistics <input type="checkbox"/> Infrastructure <input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience
<input type="checkbox"/> Water & wastewater	<input type="checkbox"/> Water distribution <input type="checkbox"/> Water treatment <input type="checkbox"/> Wastewater treatment <input type="checkbox"/> Water storage	<input type="checkbox"/> Storm water mgmt <input type="checkbox"/> Flood protection <input type="checkbox"/> Desalination plants <input type="checkbox"/> Erosion control <input type="checkbox"/> Energy performance	<input type="checkbox"/> Infrastructure <input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience
<input type="checkbox"/> Waste management	<input type="checkbox"/> Recycling <input type="checkbox"/> Waste prevention <input type="checkbox"/> Pollution control	<input type="checkbox"/> Landfill, energy capture <input type="checkbox"/> Energy performance <input type="checkbox"/> Infrastructure	<input type="checkbox"/> Waste to energy <input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience

<input type="checkbox"/> Land use & agriculture	<input type="checkbox"/> Afforestation/parks <input type="checkbox"/> Land remediation <input type="checkbox"/> Sustainable agriculture <input type="checkbox"/> FSC Forestry <input type="checkbox"/> Energy/water efficiency <input type="checkbox"/> Adaptation & resilience <input type="checkbox"/> FSC Cellulose & paper
<input type="checkbox"/> Other	<input type="checkbox"/> Adaptation & resilience <input type="checkbox"/> ICT <input type="checkbox"/> Industry: process
Issue details	
Reporting	<p>Vattenfall intends to report on allocation of proceeds as well as impact indicators. The former will include any substantial changes in allocation to the Eligible Green Project Portfolio at least at the category level. Where possible, the company will provide:</p> <ul style="list-style-type: none"> • A list of projects and their expected impact • The amounts per category invested • A qualitative description of key projects • The proportion of new and existing projects, divested assets, and refurbishments • The balance of unallocated cash and/or cash equivalents. <p>On the impact reporting side, a list of potential impact reporting indicators is included in the Appendix of the Green Bond Framework.</p> <p>The investor report will be produced annually and will be publicly available.</p>
Company information	<p>Vattenfall is a Swedish power company that produces electricity and heat. The company is wholly state-owned. It operates in Sweden, Denmark, Finland, Germany, the Netherlands, and the United Kingdom. The company employs approximately 20,000 people and made SEK12bn (USD1.2bn) profit in 2018.</p>
Firsts, records and certifications	<p>Vattenfall is the first Swedish energy utility to enter the green bond market.</p>
Proceeds description	<p>The proceeds of the bond can be spent on eligible projects in the following categories:</p> <p>a) Renewable energy and related infrastructure (wind, solar, biomass, geothermal and hydrogen)</p> <p>b) Energy efficiency (hydro power, smart grids/meters, fossil free district heating and cooling, and energy recovery)</p> <p>c) Electrification of transport and heating (EV infrastructure, power to heat)</p> <p>d) Industry projects (activities that enable the transformation to fossil-free production, such as the HYBRIT3 project)</p> <p>Nuclear and fossil fuel-based production projects are explicitly excluded.</p>
Climate Bonds view	<p>This benchmark-sized bond is the largest to date from the Nordic utilities sector. We welcome Vattenfall joining its Norwegian and Danish colleagues Eidsiva Energi, Sogn of Fjordane Energi and European Energy. The issuance total from these companies is 860m USD equivalent. We hope Vattenfall's green bond will stimulate further issuance from its peers in the region.</p>
Underwriters	<p>Citi, Deutsche Bank, Nordea</p>
Deal comments	
Credit Rating	

Pricing summary	<ul style="list-style-type: none">• Interest spread: ms+55bps• Yield: 0.553%• Coupon: 0.500%• Price: 99.637%
Investors summary	

¹ Issuer categories: ABS, development bank, financial corporate, government-backed entity, loan, local government, non-financial corporate, sovereign