

Green Bond Fact Sheet

Takasago Thermal Engineering			Date: 23/07/2019
Issue date: 16-07-2019 Maturity date: 16-07-2026 Tenor: 7			
Issuer Name	Takasago Thermal Engineering	Amount Issued	JPY5bn/USD46m
Country of risk	Japan	CBI Database	Included
Issuer Type ¹	Non-financial corporate	Bond Type	Unsecured
Green Bond Framework	Link to framework	Second party opinion	N/A
Certification Standard	Not certified	Assurance report	N/A
Certification Verifier	N/A	Green bond rating	Green 1
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 checked="" type="checkbox"/> Energy performance <input type="checkbox"/> Infrastructure <input type="checkbox"/> Industry: components <input type="checkbox"/> Adaptation & resilience
<input checked="" type="checkbox"/> Buildings	<input checked="" type="checkbox"/> Certified Buildings <input type="checkbox"/> HVAC systems <input checked="" 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"/> FSC Forestry <input type="checkbox"/> FSC Cellulose & paper	<input type="checkbox"/> Land remediation <input type="checkbox"/> Energy/water efficiency	<input type="checkbox"/> Sustainable agriculture <input type="checkbox"/> Adaptation & resilience
<input type="checkbox"/> Other	<input type="checkbox"/> Adaptation & resilience	<input type="checkbox"/> ICT	<input type="checkbox"/> Industry: process
Issue details			
Reporting	<p>Takasago Thermal Engineering will disclose information on the appropriated funds until the entire amount of the proceeds has been allocated. The entire amount of the proceeds will be appropriated by March 2020. The company will publish an impact report outlining the effect of environmental improvement such as reduced GHG emissions and other ESG indicators once a year until the redemption of the bonds and to disclose progress of the project until its completion. There will also be a management report after the completion of the building that the proceeds are used for.</p>		
Company information	<p>Takasago Thermal Engineering is a Japanese air conditioning equipment construction company. Headquartered in Tokyo the company employs around 5,000 people and operates in 11 countries. Takasago Thermal Engineering strives to create value whilst contributing to a sustainable development aiming for a contribution to shift “the world towards a decarbonized society through environmental engineering”.</p>		
Firsts, records and certifications			
Proceeds description	<p>The proceeds of this instrument will fully go towards the investment for the construction and related expenses of the “Innovation Center”. The main use of the Innovation Center will be to conduct R&D and demonstrate experiments for environmental engineering and is therefore expected to have an even larger effect on the reduction of environmental impacts. This building will be a Zero Energy Building and is planned to receive the LEED Gold certification.</p>		
Climate Bonds view	<p>It is great to see another climate bond issuer in the construction space – Japan being one of two issuing countries and leading the way. We hope this will encourage more issuance in this field in other countries as well.</p>		
Underwriters			
Deal comments			
Credit Rating	A- (Japan Credit Rating Agency)		
Pricing summary	<ul style="list-style-type: none"> Coupon: 0.27% 		
Investors summary			

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