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NEWS RELEASE

**CapitaLand elevates sustainability innovation drive with increased funding of S\$500,000 for its global Sustainability X Challenge 2022**  
*Winning innovations from its 2021 challenge and awarded projects from CapitaLand Innovation Fund will begin pilots at CapitaLand's properties this month*

**Singapore, 9 December 2021** – CapitaLand Group (CapitaLand) has launched its second CapitaLand Sustainability X Challenge (CSXC), inviting startups from around the world to submit innovative solutions to make buildings more climate-resilient and resource-efficient. Stepping up its global sustainability innovation drive, CapitaLand has increased its funding for the challenge by up to S\$500,000 for the top 10 projects<sup>1</sup> to be piloted at the Group's global network of properties. CSXC 2022 is open for submissions [online](#) from now till 28 February 2022.

Launched in November 2020, the inaugural CSXC 2021 was the first sustainability-focused innovation challenge by a Singapore real estate company on a global scale. The challenge received over 270 entries from more than 25 countries. The two winners each received S\$50,000 in funding for their pilots at CapitaLand properties which will begin this month.

Through CSXC, CapitaLand is seeking innovations that address key challenges<sup>2</sup> in the built environment in the areas of low carbon transition, water conservation and resilience, waste management and the circular economy, as well as healthy and safe buildings. The submissions for CSXC 2022 will be assessed based on the impact, potential outcomes, depth of innovation, as well as scalability and effectiveness of deploying the solutions at CapitaLand's diversified properties across different geographies. The top 10 shortlisted startups will be mentored by leading industry experts to prepare them for their pitch to a distinguished panel of judges in June 2022.

Ms Lynette Leong, Chief Sustainability Officer, CapitaLand Investment, said: "As a sustainable global real estate leader, CapitaLand plays an active role in shaping a climate-resilient built environment. Through CSXC 2022, we continue to take the lead in rallying the global community to catalyse new ideas to combat climate change, and we are increasing our support for emerging innovations that can help us achieve our ambitious 2030 CapitaLand Sustainability Master Plan

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<sup>1</sup> Up to 10 projects will be shortlisted to receive up to S\$50,000 each for their pilot at CapitaLand properties. Refer to [Terms & Conditions](#).

<sup>2</sup> Refer to Annex for CSXC 2022 themes, challenge statements and key dates.

targets. We are conducting a global call for scalable and impactful innovations in the real estate ecosystem, to ensure that we can be a first-mover in piloting and deploying them in our properties.”

“Our inaugural CSXC received overwhelming responses and we look forward to piloting the winners’ innovations at our properties this month. Since launching our CapitaLand Innovation Fund at CSXC 2021, we have also seen promising sustainability innovations from our staff and will begin piloting and deploying select projects this month as well. We welcome more startups to join our CSXC 2022 and collaborate with us to build a sustainable planet for future generations,” added Ms Leong.

Mr Jupe Tan, Managing Partner, Plug and Play Asia Pacific, which is supporting CapitaLand to conduct the global search for companies with sustainability solutions, said: “Plug and Play is excited to be working with a sustainability front-runner, CapitaLand, to tackle the issues surrounding climate change. Since the inception of Plug and Play in Silicon Valley in 2006, our accelerator programmes have expanded to over 35 locations globally and we have more than 48,000 startups on our innovation platform. Many of our investments and startups that have taken part in our accelerator programmes around the world have businesses that focus on sustainable development and technologies. We are firm believers in striving for sustainability, and we look forward to the partnership ahead.”

#### CapitaLand’s Oregon and Singapore properties to trial INOVUES, INC’s and Climatec Corp’s sustainability innovations

INOVUES, INC and Climatec Corp Pte Ltd, the two winners of CSXC 2021 will begin piloting their projects at CapitaLand’s properties this month. Based in Oregon, USA, INOVUES will testbed its insulating glass retrofit technology at Creekside 5, a three-storey building in Creekside Corporate Park in Portland, Oregon. By reducing the building heat gain during summer and heat lost during winter, the insulating glass retrofit is projected to lower energy consumption for cooling or heating the building by up to 40%.

Climatec will pilot its unique water treatment process to treat cooling tower water without using chemicals or power at CapitaGreen in Singapore. Utilising photon vibration frequency technology created through strong magnetic fields and ceramic-based composites to treat the water, this solution is projected to reduce energy consumption by 1% to over 5% and achieve water savings of 60% to over 90%. The water can be recycled for other uses in the building such as plant irrigation or toilet flushing.

CapitaLand is also in discussion with eight other participants with promising solutions on possible pilots at its properties. These include innovations to generate clean energy and cool air affordably for buildings, improve indoor air quality, and a smart waste bin which uses artificial intelligence, robotics and multiple sensors to sort waste for more efficient waste management.

## Sustainability and innovative projects supported under CapitaLand's S\$50 million Innovation Fund

At the grand finale of CSXC 2021 in June 2021, CapitaLand launched a S\$50 million CapitaLand Innovation Fund to support the testbedding of sustainability and other high-tech innovations in the built environment sector for over five years.

For the first year, 13 projects have been selected to be piloted at CapitaLand's properties across Asia. They include sustainability solutions that aim to reduce carbon footprint and water consumption, as well as improve waste management. Concrete production contributes about 7% of carbon dioxide emissions globally<sup>3</sup>. One project aims to reduce embodied carbon by using Carbon Capture and Utilisation (CCU) concrete in the construction of an upcoming mixed-used building at Singapore Science Park in 1Q 2022. It will be CapitaLand's first development to use carbon dioxide mineralised concrete with CCU technology, which will reduce the building's embodied carbon dioxide emissions in concrete by 49%<sup>4</sup> compared with the use of conventional concrete. The CCU concrete has a Singapore Green Building Product rating of 4-ticks<sup>5</sup>, the highest level of sustainability certification in Singapore Green Building Council's classification for green building products and materials.

For more information on CapitaLand's sustainability initiatives, visit:

[www.capitaland.com/international/en/about-capitaland/sustainability.html](http://www.capitaland.com/international/en/about-capitaland/sustainability.html)

### **About CapitaLand Group ([www.capitaland.com](http://www.capitaland.com))**

CapitaLand Group (CapitaLand) is one of Asia's largest diversified real estate groups. Headquartered in Singapore, CapitaLand's portfolio spans across diversified real estate classes which include integrated developments, retail, office, lodging, residential and new economy sectors such as business parks, industrial, logistics and data centres. With a presence across more than 250 cities in over 30 countries, the Group focuses on Singapore and China as its core markets, while it continues to expand in markets such as India, Vietnam, Australia, Europe and the USA.

Within its ecosystem, CapitaLand has developed an integrated suite of investment management and operating capabilities that supports its real estate businesses and platforms in building core competencies across the real estate value chain. With this full stack of capabilities, CapitaLand can optimise the strategies of its listed real estate investment management business CapitaLand Investment, and its privately held property development arm CapitaLand Development; to drive competitive advantage for its businesses.

CapitaLand places sustainability at the core of what it does. As a responsible real estate company, CapitaLand contributes to the environmental and social well-being of the communities where it operates, as it delivers long-term economic value to its stakeholders.

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<sup>3</sup> International Energy Agency: [Technology roadmap - Low carbon transition in the cement industry](#).

<sup>4</sup> Using [ICE \(Inventory of Carbon and Energy\) database](#), a leading embodied energy and carbon database for building materials, embodied carbon reduction values are calculated by comparing embodied carbon intensity (kilogrammes of carbon dioxide per kilogramme of product or material) of CCU concrete with conventional concrete.

<sup>5</sup> [Singapore Green Building Product Certification Scheme](#).

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## Annex: CSXC 2022 themes, challenge statements and key dates

The challenge statements in CSXC reflect the key themes and goals in [CapitaLand's 2030 Sustainability Master Plan](#):

### Theme 1: Low carbon transition

CapitaLand is searching for onsite clean energy solutions and aims to achieve significant reduction in energy consumption for its existing buildings.

### Theme 2: Water conservation and resilience

With increasing water scarcity, CapitaLand is looking for new ways of managing water in its existing properties in order to detect abnormalities in water usage pattern and/or leakages. It is also seeking solutions to reduce potable water usage in its existing buildings with water harvesting and/or recycling methods.

### Theme 3: Waste management and the circular economy

To promote a circular economy approach to keep products and materials in continual use and reduce waste, CapitaLand is seeking solutions that can better segregate waste at source for recycling or treatment. The solutions should enable CapitaLand to manage resources and waste across its properties and construction sites.

### Theme 4: Healthy and safe buildings

CapitaLand is looking for solutions to improve the indoor air quality to enhance wellness of users in its existing buildings.

More information about the CSXC seven challenge statements can be found [here](#).

### Key dates:

9 December 2021 to 28 February 2022, 2359h Singapore time (GMT +8)	Open for submissions <a href="#">online</a> .
25 March 2022	About 30 startups will be shortlisted and invited to pitch in April 2022.
April 2022 (date to be announced)	Top 10 projects will be selected.
April 2022 to June 2022 (date to be announced)	Startups of the top 10 projects will be mentored by leading industry experts and CapitaLand's employees to refine their proposals and prepare them for the final pitch in June 2022.
June 2022 (date to be announced)	Startups will present a five-minute pitch to a panel of judges comprising CapitaLand's senior management team, external partners and industry experts. The startups will be required to answer the judges' questions in a 10-minute question and

	answer session after their pitch. Innovative projects that will be piloted at CapitaLand's properties will be announced.
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