



Singapore Healthcare Management Congress 2024:

"Can healthcare fix a sick Planet with a climate and nature emergency?"

15 August 2024

Presented by

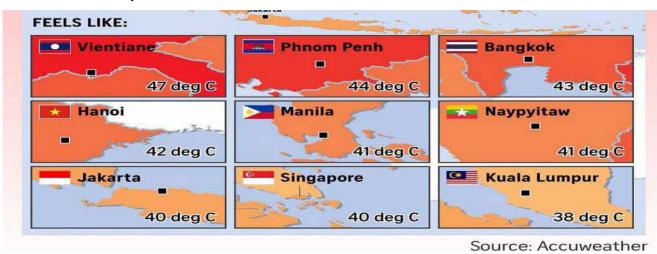
Esther An Chief Sustainability Officer



Global Warming has Ended, the Era of Global Boiling has Arrived –

Climate and Nature-related Risks are Business Risks - Threatening Humanity & Biodiversity

- 2023: the Warmest year on record by a large margin between 1.34°C and 1.54°C above pre-industrial levels
- April 2024: Hottest on record Severe heat hit SE Asia with temperature above 40°C



Cities, Buildings & Construction's High Footprint

- Cities: 3% of world's landmass; accounting for 60-80% of global energy consumption & 75% of carbon emissions. (Source: <u>UNEP</u>)
- Urban population live in cities: 56% today >> 70% by
 2050 (Source: World Bank, 3 Apr 2023)

High Cost of Climate & Nature Threats & Inaction

- About **50% of global GDP** is dependent on **Nature** (source: World Bank 2024)
- Despite 44% of cities' global GDP being estimated at risk from nature loss, only 35% of the world's 500 most populous cities have developed a dedicated strategy focused on nature or biodiversity preservation. (source: WEF, Nature Positive Cities, 2024)
- Insured losses exceeded USD100
 billion in 2023 & by 2040, projected to add
 USD183 bn to property insurance
 cost. (source: Swiss Re)
- Nature loss impacts human rights > more than
 1 billion people rely on forests for their livelihoods (UN, 2022)



A New Era of Sustainability - Net Zero as the North Star Goal to Drive Global Climate Action ESG & Decarbonisation are Mainstream Political & Business/Investment Priorities

IRACE TO ZERO

Participating cities & organisations: **90% Global GDP**

- 3 Largest Economies in East Asia China (2060), Japan & S Korea (2050)
- ASEAN countries: Malaysia, Singapore, Thailand, Vietnam (2050) Indonesia (2060)
- India (2070)

1,148	52	10,274
Cities	States and regions	Companies
661	1,193	84

Financiers, Investors, Regulators are key Drivers for Net Zero

Net-Zero Asset Owner Alliance (Sep 2019):

Global institutional investors (\$11 tn in assets as of Jan 2023) made a bold commitment to transition investment portfolio to Net Zero by 2050.

Net-Zero Insurance Alliance (July 2021):

Global insurance using underwriting claims and risk management practices to help ensure and enable the transition to a resilient Net-Zero global economy.

Net-Zero Banking Alliance (Nov 2021):

> 130 banks representing US\$74 trillion in assets (41% of global banking assets) (as of Dec 2022), committed to align lending and investment portfolios with net-zero emissions by 2050. Part of the Glasgow Financial Alliance for Net Zero (GFANZ).

Glasgow Financial Alliance for Net Zero (Nov 2021)

> 550 firms representing US\$130 trillion in assets (40% of the world's financial assets) (as of 2023), pledging to meet the goals set out in the Paris climate agreement.

What does Sustainability have to do with the Impact on Human Health?



Environmental Quality: Sustainable practices help reduce pollution and improve air, water, and soil quality, which directly affects human health. Poor air quality from carbon emissions can cause respiratory and cardiovascular issues, while water and soil contamination can lead to various diseases

Climate Change Mitigation: Today, contaminated water, food, and air remain major causes for suffering and death globally. Many of these problems are expected to be worsened by the ongoing climate change. Sustainable practices help mitigate climate change, which has numerous health implications, including risks of respiratory diseases, cardiovascular problems, and the spread of infectious diseases.

Food Security and Nutrition: Sustainable food systems ensure better nutrition and food security, reducing malnutrition and hunger. Extreme weather events, gradual warming, and changes in humidity indirectly affect human health by disrupting healthcare delivery and endangering food security.²

Access to Clean Water: Sustainable water management practices ensure access to clean, safe drinking water, reducing waterborne diseases.

Waste Reduction: Proper waste management and reduction of toxic substances in the environment decrease exposure to harmful chemicals that can cause various health issues

23%

of all global deaths

could be prevented through healthier environments¹¹

250K

additional deaths

per year expected to be caused by climate change between 2030 and 2050¹²

5-10%

of emissions of greenhouse gases

and other air pollutants are caused by healthcare systems 13



CDL's Sustainability-Centric Business Model: Committed to Doing Well by Doing Good for Decades



50,000 residences globally



Owns around

23 million sq ft

of gross floor area of office, industrial, retail, residential for lease and hotel space globally



Global footprint of over

155 hotels

that are owned, managed/franchised or operated by third-parties



Assets Under Management (AUM)

US\$3 billion

- 1963: Established with eight employees
- 1995: "Conserving as We Construct" corporate ethos
- Today: a listed international real estate operating company >15,000 employees globally
- Privatised M&C Hotels (Oct 2019)
- Group revenue: \$\$4.9B (June 2024)
- Total assets: S\$24.2B
- 163 Locations in 29 Countries and Regions*



COMPANIES LISTED ON STOCK EXCHANGES IN SINGAPORE, NEW ZEALAND, THE PHILIPPINES, AND THE INTERNATIONAL STOCK

EXCHANGE

ASIA China Shanghai Maldives Tokyo Meradhoo Shenzhen Suzhou Osaka Island Chengdu Yokohama Chongging Wuxi Velavaru Island Xiamen Dongguan Malaysia Singapore Fujian Wenzhou Cameron Singapore Fuging Indonesia Highlands Guizhou Taiwan Jakarta Johor Bahru Hangzhou Taichung Kuala Lumpur Hong Kong Taipei Penang **AUSTRALASIA** Australia New Zealand Palmerston Greymouth Brisbane Auckland Masterton North Melbourne Bay of Islands New Plymouth Queenstown Dunedin Paihia Rotorua MIDDLE EAST Oman Qatar Gizan Sulaymaniyah Muscat Doha Tabouk Basra Salalah Saudi Arabia Turkey Kuwait Palestine Hail Istanbul Al Jahra Ramallah Madinah Konya · Al Kuwayt Makkah

EUROPE

France

Abbeville

 Aurillac Belfort Bergerac

 Blois Brive-la

Gaillarde · Bruay-la-Buissière

 Calais Cergy Châteauroux Saint-Maur

 Châtellerault Cholet Claye-Souilly Concarneau

Dinan Taden

 Essev-lès-Nancy

 Douai Lambres-Lez-Douai Dreux

Sarrebourg

 Sens Verdun Haudainville

 Vichy Allier

 Maizières-lès-Metz Marsac-sur-l'Isle

 Marseille Bonn Paris Darmstadt Pont-Audemer Dresden Frankfurt

 Pontivy Sables d'Olonne Munich Saint-Cyr-sur-

Évreux

Forbach

Golbey

Lannion

Macon

Laval Changé

Istres

Fayet

Foix

Gap

 Saint-Étiennedu-Rouvray

 Saint-Maur Saint-Mitreles-Remparts

Spain Madrid

Barcelona

The Netherland

Amsterdam

Apeldoorn

Oosterbeek

Rotterdam

The Hague

Utrecht

Garderen

Bellerivesur-

Viriat

 Vaals Venlo Zwolle

> United Kingdom (UK)

 Aberdeen Birmingham Cambridge

 Cardiff Canterbury

 Coventry Dudley

Gatwick

NORTH AMERICA Avon

Anchorage

 Boston Chagrin Falls

 Chicago Durham Kissimmee

Rome

Florence

Moscow

Nashville

 Los Angeles Minneapolis New York Scottsdale Sunnyvale

· Bangkok

Philippines

South Korea

Phuket

Manila

Seoul

Taupo

Te Anau

Wellington

United Arab

Abu Dhabi

Emirates

Dubai

Sharjah

Glasgow

Liverpool

Manchester

Newcastle

Plymouth

Windsor

Southampton

Slough-

London

Leeds



Sustainability Integration since 1995 & Reporting since 2008: Creating Impact and Value 4 'I' Strategic Pillars & Robust Reporting Framework on Material ESG Performance

INTEGRATION

Integrating into Business, Operations &
Governance Structure at all Levels –
engaging External & Internal Stakeholders
along Value Chain

INNOVATION & ADAPTATION

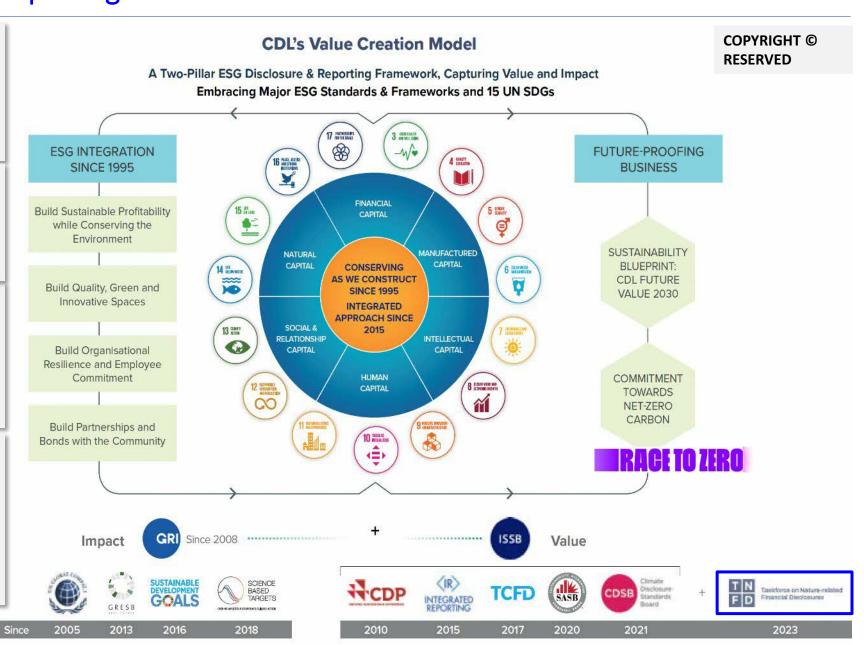
Applying Technologies & Solutions to Accelerate Green Building, a Low Carbon & Circular Economy.

INVESTMENT

Tapping growing ESG Funds, Sustainable Finance & Impact Investing to Accelerate Climate Action & Green Buildings Innovation

IMPACT

Reaching out to Value Chain & a Larger Ecosystem of Stakeholders. Creating Positive Impact and Long-term Value for Business, People & Planet. Prompt Reporting since 2008, yearly & quarterly.



Integrating ESG/Nature into Product & Practices - Key Sustainability Milestones Since 1995

1995-2008

2009-2010

2011-2016

2017-2018

2019-2020

2021-Present

- 1995:Corp Ethos 'Conserving as we Construct'
- 2003: EHS Policy & 1st Eco Condo in Singapore using Solar
- 2003: First developer to achieve ISO 14001 Environmental Management System
- 2005: First SG property firm to join UNGC & adopt its Ten Principles

2007: First Green
Mark (GM) Platinum
Award in the private
sector – City Square
Mall & First GM
Platinum for
Residential –
Oceanfront Condo

2008: Published Singapore's First Sustainability Report

- 2009: Launched
 1st CarbonNeutral ®
 development in
 Singapore and
 APAC region, 11
 Tampines
 Concourse. Carbon
 Neutralize HQ ops.
- 2009: Launched Singapore's 1st Eco-mall, City Square Mall
- 2010: Joined WGBC as a member
- 2010: CDL has been voluntarily conducting BIA on greenfield sites before construction where applicable, and environmental mitigation measures are undertaken where necessary.
 - WORLD GREEN BUILDING COUNCIL GREE BUILDING COUNCIL

- Since 2011: CDL
 voluntarily sets minimum
 target for all new
 developments to be
 Green Mark GoldPLUS
 certified
- 2014: CDL was the first developer in Asia to adopt PPVC for a largescale residential development worldwide (The Brownstone EC)
- Policy to commit to lowcarbon operations
- 2016: Early adopter of UN SDGs
- 2016: 1st Singapore developer to validate GHG emissions against ISO 14064





- <u>2017:</u> CDL FV2030 Sustainability Blueprint
- Amongst the first few SG companies to adopt TCFD framework in sustainability reporting
- 2018: First Singapore
 Developer to have SBTi validated carbon
 reduction targets (59%
 by 2030 vs 2°C warmer
 world)
- 2018:Raised carbon emissions intensity target from 25% to 38% by 2030
- Set target to reduce embodied carbon by 24% by 2030
- 2018: Commenced 1st
 climate change
 scenario study for 2°C
 and 4°C warmer
 scenarios

- 2019: Joined pioneer batch of 87 companies to support UNGC's

 Business Ambition for
- 1.5°C campaign
 2019: Commenced 2nd
 study for a 1.5°C
- warmer scenario to align with IPCC's Special Report. Completed in 2020.
- 2020: Took the United Nations Climate Neutral Now Pledge
- 2020: Developed CDL Biodiversity Policy and 3S Green Building Framework

BUSINESS 1.5°C OUR ONLY AMBITION FOR 1.5°C

- 2021: Signed the
 WorldGBC's Net Zero
 Carbon Buildings
 Commitment, pledging net
 zero operational carbon for
 buildings under direct control
 by 2030
- Only Singapore RE company which participated in Climate Impact X's Pilot Auction
- Expanded WorldGBC's net zero goal to include embodied carbon
- 2022: Pledged to support COP27 Action Declaration by Corporate Knights and Global 100
- 2022: Completed 3rd
 Climate Change Scenario
 Study with additional scope
 and parameters
- 2024: Early adopter of TNFD

















1st in SE Asia to Pledge to WorldGBC Net Zero Carbon Buildings - Tracking & Reporting Yearly Whole Life Cycle Commitment & Action Plan - Clear & Specific Targets







Specific & Transparent Targets and Scope in 2 Phases

2030: New developments & 12 Singapore assets under direct ownership & operation.

- 247, 016 m² total floor area
- 15, 044 tCO₂e portfolio carbon emissions
- 16, 922 average kgCO₂e/m² Whole Life Carbon Footprint
- 415 employees2050: Global portfolio



Republic Plaza - 280-m tall flagship building, CDL's HQ

Scope of CDL's Commitment

1. Commit

2030: To achieve net-zero operational carbon for new and existing wholly-owned assets under direct operational and management control. Whole Life Cycle: Maximise reduction in embodied carbon & compensate for any residual upfront emissions via offsetting for new developments and major renovations.

2050: All new and existing assets to be Net Zero.

2. Disclose

Measure and publicly disclose scope 1 and 2 emissions, embodied carbon emissions and energy consumption through annual reports. Assess annual asset and portfolio energy demand and carbon emissions against set targets.

3. Act

Reduce energy consumption for construction and operations of assets, through implementing energy efficiency measures and explore switching to 100% renewable energy through on-site production or procurement of clean energy e.g. REC. Adopt sustainable building designs, materials and supply chain practices to reduce upfront embodied carbon and offset any residual upfront emissions.

4. Verify

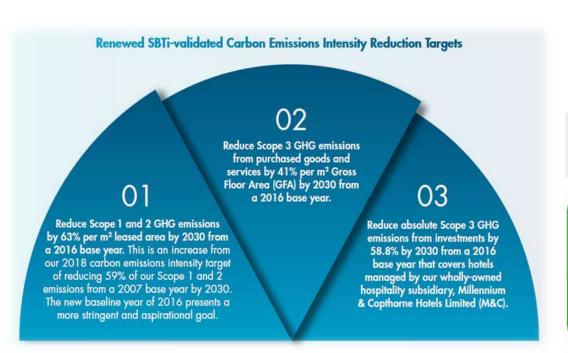
Demonstrate enhanced energy performance, reduced carbon emissions and progress towards net-zero carbon assets via third-party certification by aligning with recognised and industry leading local third-party certification and verification schemes. Verify and report lifecycle assessment for embodied carbon at asset level for new developments.

5. Advocate

A longstanding green building and sustainability champion, CDL will continue to engage and influence value chain and key stakeholders, to support and build towards a wider transition to a net-zero whole life carbon-built environment.

SBTi-validated GHG Reduction Targets Since 2018: Ahead of Mandatory Scope 3 Reporting fm 2025

- 2018: CDL was the first real estate company in Singapore to set SBTi-validated targets based on a 2°C warmer scenario.
- **2021:** CDL renewed our science-based targets to align with global ambition towards a 1.5 degree C warmer scenario. These targets have been monitored yearly and will be reviewed every 5 years by SBTi. The revised targets also support CDL's World Green Building Council's (WorldGBC) Net Zero Carbon Buildings Commitment.
- **2023:** Operational Carbon Emissions Performance **met all interim targets**
- Ahead of ISSB's mandatory requirement for listed companies to report Scope 3 from 2024







2023 Performance vs SBTi-validated Carbon Emissions Intensity Reduction Targets

SBTi-validated carbon emissions intensity reduction target

BY 2030 (AGAINST 2016)

Performance in 2023

(AGAINST 2016)

Investing in Innovative Sustainable Development: Design Strategy/Features at South Beach











Microclimatic Canopy at South Beach (opened in 2014)

South Beach is a mixed-use development integrating:

- Four heritage buildings with 2 towers
- 510,000 sq ft of Grade A office space
- 190 luxury residences (South Beach Residences)
- 32,000 sq ft of F&B and retail (South Beach Avenue)
- Luxurious hotel with Club facilities (JW Marriott)

Environmental design elements at South Beach include:

- Storms and Floods Risk Management designed with comprehensive site drainage system to manage rainwater run-off; siphonic drainage system to facilitate quick rainwater discharge at onset of downpour; operable flood gates to mitigate risk of flooding to basement; 2 underground storm water tanks to store and discharge rainwater into surface drainage network
- **280 metres long microclimatic canopy** geometrically designed to induce cooling air current, enhancing natural cross ventilation and provide thermal comfort to occupants
- Shingled façade upward-facing surface comprises double-glazed glass of low shading coefficient to reflect harmful UV rays; East and West-facing façades have an additional layer of sun-shading louvres to shield against direct sunlight
- Extensive greenery approx. 10,000 sqm of landscape at sky gardens and open areas; pedestrian 'green axis' extends from adjacent Memorial Park into South Beach, comprising lush landscaping, tiered gardens and sunken courtyards
- Thermal cool paint innovative paint solution that reduces surface temperature of building façade by 3.25°C to improve thermal comfort

Enhancing Brand & Product via Innovative Green Building Design: People, Nature & Health in Harmony

Tree House











Guinness World Record for the Largest Vertical Garden from (Apr 2014 – Jun 2015)

[*Study by NUS School of Design and Environment, 2014]

- 77% of site area dedicated to landscaping and greenery
- Biodiversity Impact Assessment:
 - 99 native animals & 32
 plant species were
 identified >> a careful
 selection of tree and
 plant species for
 landscaping, among a list
 of other
 recommendations to
 protect biodiversity.
- Green wall (24-storeys):
 - Reduces heat absorption by up to 3°C
- Energy savings:
 - > 2.4 million kWh per year
- Water savings:
 - 30,000m³ per year, or \$\$500,000 annually

Amber Park









- 65% of overall site area: landscape & facilities
- Circularity: 600m jogging track, made of rubber from recycled track shoes, connecting the roof gardens



Enhancing Design & Product Innovation>> Super-Low Energy Developments, Accelerating Health & Wellbeing

Newport Plaza on 80 Anson Road –Singapore's First BCA Green Mark Platinum SLE Integrated Development



- Biophilic design using green and blue for cooling and comfort with total softscape area of 3,469 m².
- Roof top solar PV system, meeting 30% of energy use for the residential common area energy-use for lighting and lift systems).
- Mitigates floods with minimum ground level (platform level) of 4 metres.
- Heat & Energy reducing horizontal sun shading fins for building's exterior on every level
- **District Cooling**: First development along Anson Road to apply it with an approximate reduction of **100tCO2** per year.
- Approximately 60% energy savings above the 2005 building code.
- **Greater energy-efficiency**: Green features to achieve cost savings of approximately **\$\$450,000 per year**.
- Energy savings for the residential component is estimated to be up to 1.7 million kWh per year, equivalent to powering approximately 400 4-room HDB flats.

Copen Grand – 1st SLE Executive Condo



Singapore's First BCA Green Mark Platinum
SLE Executive Condo

- Awarded Green Mark Platinum SLEB award with Health & Wellbeing, Whole Life Carbon and Maintainability badge
- First non-landed residential building with pre-fabricated
 MEP (Mechanical, Electrical and Plumbing) vertical riser in Singapore
- Incorporates smart and renewable technologies such as energy usage monitoring feature, solar PV systems that partially contribute to the energy produced to operate the clubhouse, function room, swimming pool and gymnasium
- Array of eco-luxury facilities within the development

Tri- Sector Collaboration: Investing in Future Technology & Innovation via R & D



Investment in Innovation - Advancing Growth, Transformation & Sustainability

Enterprise Innovation Committee (EIC) & Green Building & Decarbonization Dept dedicated to Drive Innovation and complement CDL's GET [Growth. Enhancement. Transformation.] Strategy Across Business operations

- Generates customer- and digital-centric ideas
- Innovation engine comprising 3 mutually reinforcing gears Pipeline, People & Culture
- Invest in **venture capital funds and companies** that are synergistic to CDL's core businesses
- Gain insights and access to technology solutions for implementation
- Gain potential financial upside



Investment in Innovation: Increasing Use of Prop-Tech Innovators for Sustainability and Increasing Positive Impact on Health



Gush ClearCool: UV-Blocking films for windows

- Blocks out heat, IR and UV rays without compromising on window visibility
- Made with Nano Ceramic technology, the films are highly durable.
- Average reduction of cooling energy consumption by 14.45%

ClearCool IR and UV ray blocking capabilities

	Visible Light transmission	Ultraviolet Radiation	Near-infrared Radiation
Gush ClearCool 76	76%	99%	97%
Gush ClearCool 50	50%	99%	96%
Gush ClearCool 35	35%	99%	95%
Gush ClearCool 15	15%	99%	95%
Gush ClearCool 5	5%	99%	95%

(ClearCool) - Window Films piloted at CDL's Republic Plaza Tower Club — Ba Xian Restaurant (top) and the Singapore Sustainability Academy (bottom).





Gush Paints:

Indoor Paints
Improve indoor air
quality: 98%
reduction in paintrelated VOC
emissions

Outdoor paints
reduce temperature
and absorb carbon
from the atmosphere

	Heat-blocking (Gush Cool X only)	Reflects 87% of solar irradiance with high thermal emittance. Up to 11.6% of cooling energy savings .
	Weather-resistant	Durable against weather and prevents cracking . Resists solar and moisture related damage
	Algae-resistant	Building façade resists algae growth , maintaining fresh cosmetic appearance
	High dirt pick-up resistance	Made possible by their proprietary resin binder technology
<u>.</u>	High opacity	Covers surface imperfections with a full and even coat of colour

Investment in Innovation: Increasing Use of Prop-Tech Innovators for Sustainability and Increasing Positive Impact on Health

ConcreteAl: Enables construction projects to gain accurate in-place concrete integrity for faster completion, reduced carbon, and assured quality.

By monitoring and measuring in-place **concrete quality through AI**, construction time can be reduced by **30%**, providing quality assurance and optimise concrete design for **lower embodied carbon**.



Additions & Alterations at CDL's City Square Mall: Cycle time was shortened from 28 days to 21 days, resulting in early completion for mall operations

CarbonBits by Singapore University for Technology & Design: Creating innovations and solutions through the combination of Design Thinking and the use of Artificial Intelligence/Machine Learning to advance solutions for climate change

- C3[™]: High performance regenerative solid sorbent that removes CO₂ within indoor environments
- Deployed through plug and play systems to manage indoor CO₂ levels
- CO₂ released can be used to create new products



Investment in Innovation: Increasing Use of Prop-Tech Innovators for Sustainability



A SMART enterprise platform for building performance management developed by CBM to achieve manpower and resource efficiencies.

- First-of-its-kind sustainability-linked loan connecting innovation and the SDGs.
- August 2021: first Singapore entity to achieve a discount on a sustainability-linked loan through the successful pilot of DigiHUB by CBM (CDL's FM subsidiary) at Republic Plaza; its completion was endorsed by IMDA





Prioritises attaining authentic net-zero status in buildings

- Adopts a holistic approach to enhance the performance efficiency of building systems by optimising energy performance, thermal comfort, water usage, and indoor air quality
- Achieves at least 55% increase in energy efficiency through its optimiser system



Can Eco Entrepreneurs & Innovators Save our Planet and Humanity?

INSPIRING SOLUTIONS: THE EARTHSHOT PRIZE

10 YEARS from 2020 5 EARTHSHOT £50 MILLION winners

TO REPAIR THE PLANET

PRIZE CATEGORIES

TO SCALE THEIR SOLUTIONS

- **2020:** Launched by Prince William to search for and scale the most innovative solutions to the world's greatest environmental challenges.
- **To-date: 3,000 nominations**, 45 Finalists, 25 Countries Represented, 15 Winners & 1 Planet to Repair

2023 WINNER, BOOMITRA



- Remove emissions and boost farmer profits by incentivising soil restoration and the adoption of regenerative agriculture through a verified carbon-credit marketplace
- **Boomitra** works with more than 150,000 farmers in Africa, South **America and Asia**

INSPIRING LOCAL INNOVATORS





- Associate Professor Tan Mei Chee, SUTD, Division of **Engineering Product Development**
- **CarbonBits:** Pioneering indoor air Carbon Capture technology for urban environments, where released CO2 are used to create new products





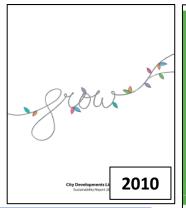
- **Zac Toh,** Founder of GWS Living Art and City Sprouts
- Develop sustainable urban nature-based solutions
- Transforming unused urban spaces from the ground up areas dedicated to urban farming and food sustainability

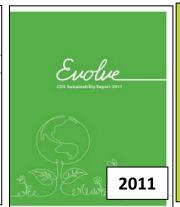
17 Years of Sustainability Reporting, 10 years of Integrated Reporting

- Improving Strategic & Operational Performance & Driving Positive Change













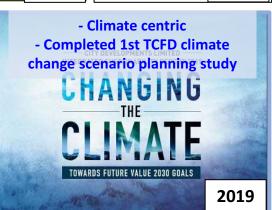




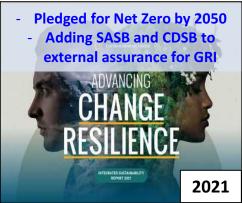


















CDL Scores Well on 14 Global ESG Rankings & Ratings through Robust Reporting & Disclosures

Strong ESG Track Record Gain Easier Access to ESG Investment & Sustainable Finance



Since 2002







2023 CDP A-List for **Climate Change & Water Security** (Reporting since 2010); CDP Supplier **Engagement Leaderboard**



Dow Jones Sustainability Indices

Powered by the S&P Global CSA

S&P Dow Jones Sustainability Asia Pacific Index (since 2011)



2020 – 2024: Ranked Top Real Estate Company 2024: 22nd Globally; Listed since 2010



'AAA' since 2010









ESG Regional Top Rated and Industry Top Rated in 2023

2022 and 2024



Since 2024

GRESB 5-Star Rating; 4th in Asia (Diversified - Office/Retail)



Since 2018



iEdge SG ESG Indices

SINGAPORE GOVERNANCE AND

TRANSPARENCY INDEX (SGTI)

Ranked 2nd (2024)

ESG Leaders Index ESG Transparency Index since 2016



STOXX

Member 2020/2021 **ESG Leaders** Indices

Since 2014

Bloomberg Gender Equality Index since 2018

Bloomberg

Gender-Equality

Rated Prime since 2018



Completed over \$\$8 billion Sustainable Finance since 2017

Apr 2017 S\$100M Green Bond



1st Green Bond issued by a Singapore company

Apr 2019 S\$500M Green Loans



for New
Property
Developments

Sep 2019 S\$250M SDG Innovation



1st SDG Innovation Sustainabilitylinked Loan

Apr 2021 S\$1.22B Green Loan



One of SG's largest green loans at South Beach Consortium, CDL JV

Aug 2021 S\$847M Green Loans



Green loan for new projects -Copen Grand, SG's 1st BCA Green Mark Platinum SLE EC Dec 2023 £200M Sustainabilitylinked Loan



1st SBTi net zeroaligned OCBC 1.5°C Loan for corporates Jun 2024 S\$400m sustainabilitylinked loan



TNFD targetsaligned sustainabilitylinked loan

Sep 2019 - S\$250M SDG Innovation Loan (Sustainability-linked Loan)
Oct 2022 - Renewed the Phase 2 of SDG Innovation Loan of S\$250M



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- First-of-its-kind sustainability-linked loan connected to innovation and SDGs.
- August 2021: first Singapore entity to achieve a discount on a sustainability-linked loan through the successful pilot of DigiHUB by CBM (CDL's FM subsidiary) at Republic Plaza; its completion was endorsed by IMDA

Green Loans Completed by CDL Group in 2023

OCBC	 £178M 3-year green loan RMB600M 5-year loan £200M Sustainability-linked Loan S\$15M 5-year green loan (by CBM)
UOB	 £178M 3-year green loan S\$100M green banker's guarantee S\$8M 3-year green loan (by CBM)
DBS	S\$343M 5-year green loan
SMBC	¥16B 3-year green loan

Building Sustainable Communities: Zero-Energy SSA for Capacity Building, Advocacy & Networking



Extensive engagement & outreach since opening in June 2017

- > 1,000 events & trainings (June 2017- Q1 2024)
- > 34,500 in-person participants at SSA
- **2,000** participants from 20 countries joined Virtual SSA live sessions in 2021 (COVID-19)
- > Partner organisations incl global NGOs











- Initiated by CDL, the SSA is a partnership supported by 6 government agencies, 15 founding industry/NGO partners
- 3,200 sq ft solar panels on rooftop providing solar energy to SSA since opening
- Over 80% built with sustainable materials including Cross Laminated Timber (CLT) and Glued Laminated Timber (Glulam) from most sustainable forest source verified by Nature's Barcode TM system
- Rent-free for NGO partner: Sustainable Energy Association Singapore (SEAS) to promote Renewable Energy in ASEAN
- Home ground for Youth4Climate, Women4Green Network and Training space for Singapore Environment Council and GCNS

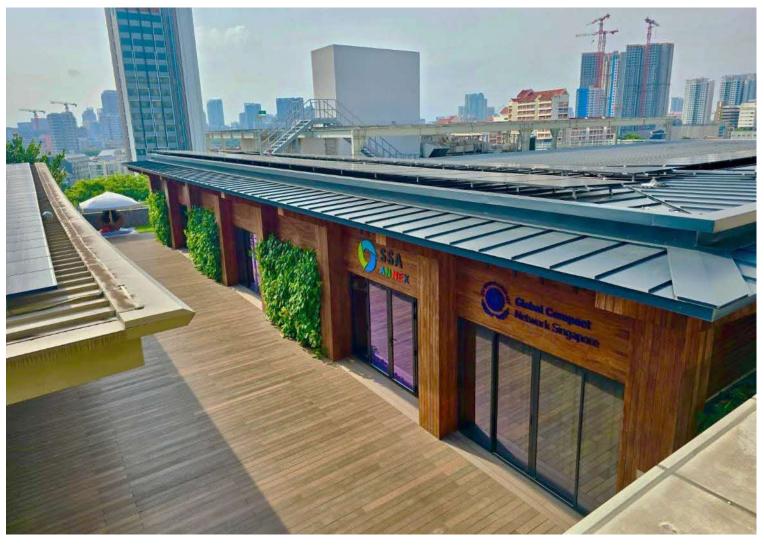


Singapore Sustainability Academy (SSA) Annex – A Zero-energy Community & Collab Space



- A nature-inspired architecture Zeroenergy Green Mark Platinum facility
- A community engagement platform to local & international NGOs championing UN SDGs & Race to Zero and the SG Green Plan 2030.
- An extensive global & local partnership with Global Compact Network Singapore (GCNS) as anchor

NGO (https://unglobalcompact.sg/)



Public Education on Climate/Nature: Exhibitions at CDL Green Gallery@Singapore Botanic Gardens (2013~)





The CDL Green Gallery
Net Zero Energy & Green Mark Platinum building

- Launched by CDL and opened alongside the SBG Heritage Museum by Prime Minister Lee Hsien Loong in 2013.
- 2nd 10-year MOU signed, 2023-2032.
- A partnership with NParks, the Gallery has featured 20 botanical or green or climate related exhibitions, and has attracted over 372,300 visitors since its opening in 2013
- Built within 24 hours using prefabricated, modular construction technology
- Constructed from Hempcrete, a biomaterial comprising hemp plant, lime, sand and water
- Solar photovoltaic cladded roof panels generate 31,000kWh annually, surpassing gallery's estimated yearly energy consumption



Building Sustainable Communities: to Advance Climate Action towards a Low Carbon Future



Singapore's
Greening Journey:
200 Years and
Beyond
Jun 2019
Opened by thenMinister for National
Development and
then-Second Minister
for Finance, Minister
Lawrence Wong



Change the Present, Save the Future

July 2021
Opened by Minister for Sustainability
Grace Fu, it successfully rallied urgent action and collaboration.



Change the Present, Save the Ocean

April 2022
Opened by Minister for
National Development
Mr Desmond Lee,
it featured Time
Magazine's First "Hero of
the Planet" Dr Sylvia
Earle.



Melting Ice, Sinking Cities

June 2023
Opened by Minister
Indranee Rajah, the
exhibition was
anchored on the
Antarctica Climate
Expedition led by
Ocean Geographic
and Dr Sylvia Earle

Advancing Sustainable Communities: Active/Diverse Programs at Singapore Sustainability Academy

International Engagement

ESG Analytics & Investments, 7 Mar 2024



Women4Green Event

Sustainable Tourism, 18 Aug 2017



A hub for capacity building, thought leadership, and networking





Singapore Youth for Climate Action Local Conference of Youth (LCOY) – 2, 9, 16 September 2023 LCOYs are under the umbrella of YOUNGO, the official youth constituency of the UNFCCC, and are organised before or during the global COY in different parts of the world to increase access of youths to opportunities for training and capacity building leading up to COP28.





13th CDL-GCNS Young SDG Leaders Award 2023 Final Judging held at SSA, 22 July 2023
Spotlighted 10 finalist teams that presented their sustainability strategy and initiatives on their respective case companies.

Adding Purpose to Business: Empowering Youths to be A Force for Positive Change

Youth4Climate



- Initiated in 2018, Youth4Climate Festival is one of CDL's flagship programmes in support of youth empowerment and social good.
- Provides Singapore's youths with a platform to express their passion for the environment and green wishes for the future through musical performances and other exciting fringe activities.
- Typically organised in partnership with the Ministry of Sustainability and the Environment and the NParks.

CDL-GCNS Young SDG Leaders Award



- Launched in 2011, the YSDGLA is an annual case competition for youths to champion the SDGs and ideate innovative business solutions for a more sustainable planet.
- Has nurtured over 3,700 young leaders since inception.
- Jointly organised by CDL and Global Compact Network Singapore and supported by the Ministry of Sustainability and the Environment for the 2022 and 2023 edition.

CDL E-Generation Challenge



- Started in 2010 to raise ecoconsciousness amongst youth via races & games and revamped in 2017 to unearth & groom young eco-champions to explore climate challenged frontiers.
- 2022: The most deserving youth won a
 dream expedition to the Antarctic with
 Dr Sylvia Earle, TIME Magazine's First
 Hero of the Planet, on a state-of-the-art
 expedition vessel aptly named The
 Sylvia Earle. Runner-ups won an
 educational trip with Earth Company,
 located in Ubud, Bali.

Embracing Sustainability for Business Resilience >> Enhancing Triple Bottom Line

Healthy Planet > Healthy People and Economy

Opportunities

- **Risks Mitigation /Adaptation**
- **Future-ready vs fast-evolving** regulations, investor and consumer expectations
- **Mobilizing capital and** resources to accelerate change via sustainable finance
- **Natural capital >> Financial & Organization Capital**

Challenges

- Data availability & credibility
- **Putting Value to Nature & Biodiversity**
- **Supply Chain support**
- **Knowledge and capacity** constraints

THE STRAITS TIMES

Thursday Apr 11, 2024

S'pore firms step up as corporate investors take ESG more seriously

Their reports focus



CDL's ESG Framework and Scope

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