

## **STEADFAST COMMITMENT AND CONCRETE ACTIONS TO ADVANCE THE SDGS FOR A SUSTAINABLE FUTURE**

Extreme weather patterns once an anomaly in certain parts of the world are almost a daily read on the news. Yet, there is still insufficient attention and action considering the severity of climate change's existential threat to mankind. Closer to home, the Centre for Climate Research Singapore predicts that temperatures in Singapore can soar as high as 40°C by 2045 if the world continues to emit greenhouse gases at a rate that is "business as usual". On average, Singapore's temperature has increased by 0.29°C over the last four decades<sup>1</sup>. While this figure may seem small, one does not need to look far to realise the effects of temperature rise in Singapore, such as increase in dengue cases, rising sea levels that may affect low-lying properties and increase in the number of people falling ill. For frequent travelers, flight delays or cancellations due to hotter temperatures can disrupt travel plans.

As an early adopter of sustainability since 1995, CDL strives to grow the 'green' force and promote the United Nations Sustainability Development Goals (UN SDGs) within the company, our community and the built industry. We believe that no action is too small and more advocacy work awaits. In this issue, read about how CDL engages young eco-champions, our workforce and the greater community through signature events and programmes that include the Singapore Greening Journey exhibition, CDL E-Generation Challenge, Women4Green Impact Series and cross-sector collaborations such as Feeding the City and the nation-wide campaign, Say YES to Waste Less. The end of this quarter also marks two years since the launch of CDL's Singapore Sustainability Academy (SSA), which has built up a following amongst sustainability advocates. Over the past two years, the SSA has hosted close to 300 sustainability-centric events and energy training courses and engaged more than 11,000 people from all walks of life, including foreign delegates.

Beyond these platforms, CDL has further raised the profile of green financing through securing S\$500 million of green loans in April 2019, building on the success of our S\$100 million green bond issued in 2017. Green and sustainability-linked loans are gaining steam in Singapore, with real estate companies forming the majority of borrowers.

The goals and targets of our Future Value 2030 Sustainability Blueprint and the national agenda of greening Singapore are high priorities on our action list in 2019. CDL remains ever ready to support the green cause and lead the way as a sustainability pioneer in the building sector. As we pursue this commitment with unwavering focus, we look forward to working closely with an even wider community of like-minded partners.

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<sup>1</sup> <https://www.todayonline.com/singapore/singapore-could-swelter-through-40degc-days-2045-if-business-usual-emissions>

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Global Director of the Business Center, WRI](#)


# Q2 2019 SUSTAINABILITY PERFORMANCE PROGRESS

## Legend: Progress Tracking

- Meeting interim targets, maintain performance towards meeting 2030 targets  
 Falling short of interim target for one year, review current practices  
 Falling short of interim target for more than two years, review and revise targets (if necessary)

Future Value 2030 Goals	2030 Targets <sup>1</sup> (Effective from 2018)	Interim 2019 Annual Targets	To-date Performance (As of Q2 2019)
<b>Goal 1: Building Sustainable Cities and Communities</b>       	Achieve Green Mark certification for <b>80%</b> of CDL owned and/or managed buildings	≥75%	<b>71% achieved</b>
	Maintain <b>100%</b> tenant participation in CDL Green Lease Partnership Programme	Achieve 100%	<b>100% maintained</b>
	<b>Double</b> our commitment to adopt innovations and technology of green buildings	Average of two innovations or new technology adoptions per year	Annual data to be reported at end of 2019
	<b>Double</b> resources devoted to advocacy of sustainability practices, stakeholder engagement and capacity building	≥100 training programmes and events held in the SSA per year	<b>79 comprising 29 trainings and 50 events</b>
<b>Goal 2: Reducing Environmental Impact</b>     	Achieve science-based target of reducing carbon emissions intensity by <b>59%</b> from 2007 levels	36% reduction	<b>36% reduction<sup>2</sup></b>
	<b>For Corporate Office &amp; Asset Management (AM):</b> Reduce energy usage intensity by <b>35%</b> from 2007 levels  <b>For Property Development (PD):</b> Achieve an energy usage intensity of 95 kWh/m <sup>2</sup>	29% reduction  <b>For PD: ≤ 105 kWh/m<sup>2</sup></b>	<b>23% reduction<sup>2</sup></b>  With the company's strategic business transformation, the mix of our building portfolio is shifting towards retail-type, resulting in a lower-than-expected % reduction. Performance and targets are undergoing review. <b>For PD: 106 kWh/m<sup>2</sup></b>
	<b>For Corporate Office &amp; Asset Management (AM):</b> Reduce water usage intensity by <b>38%</b> from 2007 levels	33% reduction	<b>25% reduction<sup>2</sup></b>  With the company's strategic business transformation, the mix of our building portfolio is shifting towards retail-

			type. The lower-than-expected % reduction was also due to tenant fitting-out works after completion of Asset Enhancement Initiative at one of our buildings. Performance and targets are undergoing review.
	<b>For Property Development (PD):</b> Achieve a water usage intensity of 0.60 m <sup>3</sup> /m <sup>2</sup>	<b>For PD:</b> ≤ 1.75 m <sup>3</sup> /m <sup>2</sup>	<b>For PD:</b> 0.75 m <sup>3</sup> /m <sup>2</sup>
	<b>For Corporate Office &amp; Asset Management (AM):</b> Reduce total waste intensity by <b>7%</b> from 2016 levels  <b>For Property Development (PD):</b> Achieve a waste intensity of 30 kg/m <sup>2</sup>	0.7% reduction <sup>3</sup>  <b>For PD:</b> ≤ 50 kg/m <sup>2</sup>	 <b>21% reduction<sup>2</sup></b>  <b>For PD:</b> 26 kg/m <sup>2</sup>
	Increase <b>Recycling Rate</b> for Retail Properties	20%	 <b>24%</b>
	Ensure <b>100%</b> of appointed suppliers are certified by recognised environmental, health and safety (EHS) standards	≥75% of suppliers appointed by AM; 100% of main contractors and ≥75% of consultants appointed by PD	Annual data to be reported at end of 2019
	Reduce embodied carbon of building materials by <b>24%</b> compared to their conventional equivalents	7% reduction for new projects awarded from <b>2018 onwards</b>	Data to be reported at end of 2020 <sup>4</sup>
<b>Goal 3:</b> <b>Ensuring Fair, Safe and Inclusive Workplace</b>  	Maintain <b>Zero</b> corruption and fraud incidents across CDL's core operations	Zero	 <b>Zero</b> corruption and fraud incident
	Maintain a <b>Zero</b> fatality rate across CDL's operations and direct suppliers in Singapore	Zero	 <b>Zero</b> fatality
	Maintain <b>Zero</b> occupational disease across CDL's operations and direct suppliers in Singapore	Zero	 <b>Zero</b> occupational disease
	Maintain <b>Zero Accident Frequency Rate (AFR)<sup>5</sup></b> for our employees within CDL premises	≤ 1.6 <sup>6</sup>	 <b>Zero</b> AFR
	Maintain <b>AFR of 1 or less</b> for direct suppliers at CDL construction sites	≤ 1	 <b>0.4 AFR</b> One reportable incident <sup>7</sup>

	Maintain <b>AFR of 1 or less</b> for direct suppliers at CDL managed properties	$\leq 1.9^8$	 <b>Zero AFR</b>
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**Notes:**

<sup>1</sup> Targets are undergoing review to take into consideration the company's strategic business transformation.

<sup>2</sup> Percentage reduction for these performance indicators are calculated based on per unit net lettable floor area instead of the previously used per unit leased floor area.

<sup>3</sup> We achieved a total waste intensity reduction of 4.3% reduction for all buildings in 1H2019. Moving forward, we will separately track and report the recycling rate for our retail properties in line with National Environment Agency (NEA)'s enhanced mandatory waste reporting.

<sup>4</sup> Based on the lifecycle of our property development projects, embodied carbon data for building materials are only available 2 years after a project has been awarded.

<sup>5</sup> Accident Frequency Rate (AFR) refers to the number of workplace accidents per million manhours worked.

<sup>6</sup> Based on Industry Average for past 3 years found in the WSH National Statistics 2018. Report provided by Workplace Safety & Health (WSH) Institute and the Ministry of Manpower (MOM). For more information, please visit [www.mom.gov.sg](http://www.mom.gov.sg).

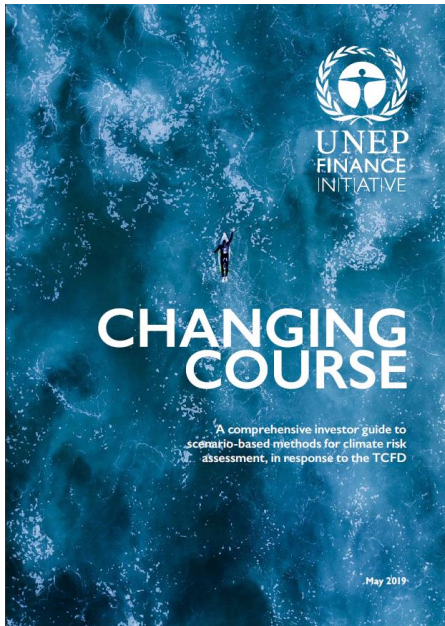
<sup>7</sup> Reportable incident refers to work-related accident, workplace accident, dangerous occurrence and occupational disease that require statutory reporting to the MOM, as mandated by the Singapore WSH Act.

<sup>8</sup> Based on Real Estate Services Average for past 3 years found in the WSH National Statistics 2018. Report provided by Workplace Safety & Health (WSH) Institute and the Ministry of Manpower (MOM). For more information, please visit [www.mom.gov.sg](http://www.mom.gov.sg).



# SUSTAINABILITY ACCOLADES AND ACHIEVEMENTS

## Global Launch of UNEP FI TCFD Investor Pilot Report



On 10 May 2019, the United Nations Environment Programme Finance Initiative (UNEP FI) Investor Pilot Report was launched. It is an investor guide to scenario-based methods for climate risk assessment in response to TCFD (Task Force on Climate-related Financial Disclosure), chaired by Michael Bloomberg. The report aims to help global investors and capital markets be better prepared for risks and capture opportunities via Environment, Social and Governance (ESG) investing. 20 of the world's largest institutional investors from 11 countries participated in the project, applying state-of-the-art approaches to measuring the impacts that climate change will have on their portfolios. The staggering results: Government inaction on climate change will further exacerbate costs and risks, to the tune of USD 1.2 trillion for 30,000 of the largest listed companies.

CDL is honoured to be the only company in ASEAN invited to join and contribute our views to the Pilot study. When TCFD was launched in June 2017, CDL was one of the four pioneering Singapore-listed companies to pledge support to TCFD. CDL was also an early adopter of science-based targets, having had our carbon emissions intensity reduction target validated by the Science Based Targets Initiative (SBTi) in 2018.

Mr Sherman Kwek, CDL Group CEO said, "Climate change poses significant threats across many sectors and regions, and businesses must play a key role in ensuring transparency around climate-related risks and opportunities. To accelerate our climate action, we have adopted the science-based emissions reduction targets validated by Science Based Target initiative (SBTi) and climate change scenario analysis based on the TCFD recommendations. These efforts aim to future-proof our business by identifying risks for mitigation and adaptation with a view to deliver lasting value for our business, investors, stakeholders and the environment at large. CDL is pleased to be part of the UNEP FI Pilot and will continue to uphold our long-established sustainability strategy and best practices around carbon disclosure."

To read the report, click [here](#).

## CDL Sweeps Two Awards at the Sustainable Business Awards Singapore 2019



CDL is honoured to receive the Overall Winner and Best Energy Management (Winner) Awards at the Sustainable Business Awards Singapore 2019 (SBA) on 25 June 2019, from Guest of Honour, Senior Minister of State for the Environment and Water Resources, Dr Amy Khor.

Organised by Global Initiatives in collaboration with PwC Singapore, Control Union and ACCA, the SBA is the region's leading sustainable award platform since 2012, recognising outstanding leadership in sustainable business practices. SBA awards businesses through a rigorous assessment on practices with a methodology that scores both process and performance across the 12 categories. More than 80 of Singapore's largest companies and Small Medium Enterprises (SMEs) entered the awards, making it a record year for Singaporean companies.

For the full list of CDL's sustainability accolades, click [here](#).

## CDL Expands Green Financing Streams from Bonds to Loans – S\$500m Green Loans



Whistler Grand (TOP 2022)

CDL has secured its first green loans amounting to S\$500 million, marking the first time that green loans in Singapore will be used for new property developments. A green loan of S\$400 million, with a three-year term, is provided by DBS Bank Ltd; another green loan of S\$100 million, with a two-year term, is provided by The Hongkong and Shanghai Banking Corporation Limited. The green loans will be used to finance eligible green development projects as defined in the [CDL Green Finance Framework](#), which was developed to demonstrate how CDL and its group entities intend to fund projects that will deliver environmental benefits to

support the Group's business strategy and vision. The framework also stipulates how the financing proceeds are to be applied to eligible projects.

CDL's green loans follow its inaugural green bond issuance in 2017, the first by a listed Singapore real estate company. The green bond raised S\$100 million which was allocated towards various initiatives to enhance energy and water efficiency at Republic Plaza, CDL's flagship Grade A office building in the heart of Singapore's Central Business District.

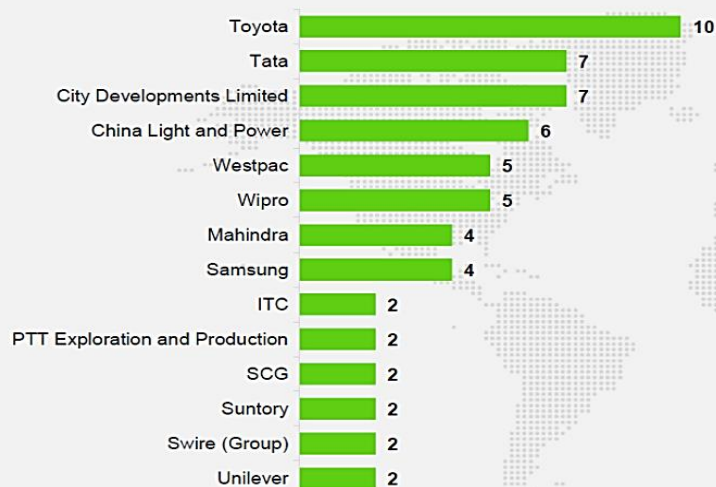
## CDL Recognised as APAC Sustainability Leader

In the 2019 GlobeScan-SustainAbility Leaders Survey on Sustainability Leaders, over 800 experts from 78 countries were asked to name headquartered companies operating in their region. CDL took second place together with Tata for being recognised as a leader in integrating sustainability into its business strategy.

For the full report, click [here](#).

### Asia-Pacific Recognized Corporate Leaders

**Question:** Which companies headquartered specifically in Asia Pacific do you think are leaders in integrating sustainability into their business strategy?





# ADVOCATING ZERO WASTE LIVING

## CDL Supports the Nation-wide Movement to “Say YES to Waste Less”

### Supporting SDGs:



Singapore’s commitment towards zero waste received a boost at the National Environment Agency’s (NEA) launch of “Say YES to Waste Less” on 8 June 2019. With 2019 set as the Year Towards Zero Waste, the campaign is a 3P collaboration aiming to influence the public to reduce the use of disposables.

In 2018, about 164,500 tonnes of domestic waste disposed in Singapore were disposables. They were attributed to items such as plastic bags and takeaway containers. The campaign encourages the public to take simple actionable steps to choose reusables instead of disposables, such as bringing a reusable bag, bottle or container when heading out. 59 partners from major food and beverage (F&B) establishments, malls/retail chains,

e-tailers, supermarkets, hotels, educational institutions, organisations such as Community Development Councils, and non-governmental organisations (NGOs), pledged support to the campaign, including CDL.

CDL is also the venue partner of the district Say YES to Waste Less event at City Square Mall on 6 and 7 July. With the support of the partners in changing consumer behaviour, the campaign can reach more than 1,600 premises and millions of customers.

For more info on Say YES to Waste Less, click [here](#).

## CDL Partners Food Bank Singapore to Launch “Feed the City” at City Square Mall

### Supporting SDGs:



According to NEA, food waste accounts for about 10% of total waste generated in Singapore. Taking action to fight food waste and do good at the same time, the first food bank in Singapore, Food Bank Singapore, held the inaugural “Feed the City” event at CDL’s City Square Mall on 13 April 2019. In addition to its aim of feeding 1,000 people who are food-insecure, the community engagement activities included cooking demonstrations and talks on food insecurity and food waste issues.



TangoTab, a social impact app, was also launched at the event, showcasing how technology can help to avoid food waste and generate positive impact for the needy. TangoTab donates to the Food Bank Singapore to feed a hungry person every time a diner checks in to a partner establishment on the app. City Square Mall tenants, Central Thai and LiHO are amongst the first F&B outlets to sign on with TangoTab.

Ms Esther An, CDL CSO said, “Food waste is one of the largest sources of waste in Singapore and CDL is pleased to host Asia’s first Feed the City campaign at our City Square Mall. Supporting efforts to reduce food waste has always been part of our longstanding commitment to sustainability. We hope that the event at City Square Mall will help to further encourage sustainable lifestyles and consumption choices, and raise awareness on the global food waste problem.”

## GROOMING YOUNG ECO-CHAMPIONS

### Final Judging and Prize Presentation of E-Generation Challenge 2019

#### Supporting SDGs:



The CDL E-Generation Challenge is CDL’s signature youth development programme. Held annually, the Challenge aims to unearth passionate and talented young advocates from Singapore and the ASEAN region to become eco-champions. It is an exciting platform to inspire thousands of youths towards a greener and more sustainable future. Winners from our past two E-Generation Challenges took part in expeditions to the Antarctica and the Coral Triangle at Raja Ampat archipelago. They are now effective advocates, reaching out to and engaging with people around the world to grow the green force for our planet.



CDL E-Generation Challenge 2019 was first announced on 21 November 2018 at the Arctic Seminar, held with the Swedish Ambassador for Arctic Affairs and the Director of the Polar Research Institute, at the SSA. Call for submissions from youths between 18 and 35 years old residing in Singapore and ASEAN were held for 3 months before 10 finalists were selected. The 10 finalists presented their insights about the effects of Arctic climate change on Asia, and their solutions on generating awareness on this issue, to an esteemed panel of judges on 27 April 2019.

The standard of the finalists’ entries and presentations were impressive and the competition was intense. Two finalists stood out with their insightful and excellent presentations. Ang Qing Sheng and Woon Xin Hui emerged as winners of the CDL E-Generation Challenge 2019, while Stephanie Dickson was awarded a Merit position. They received their awards from Sir Robert Swan at his lecture at Ecosperity on 6 June 2019.

The trio joined ClimateForce: Arctic 2019, an exciting 12-day expedition led by Sir Robert Swan, and co-led by Sir Swan's son Barney, the first person in history to walk to the South Pole powered entirely by renewable energy.



## CDL-GCNS Young SDG Leaders Award 2019 Briefing Session

### Supporting SDGs:



Sustainability has become a mainstream business agenda. The global challenges such as poverty, climate change, biodiversity loss and gender inequality, can be tackled through greater action by businesses, accelerating the progress to a more sustainable world where no one is left behind. Formerly known as Young CSR Leaders Award launched in 2011, it has been renamed CDL-GCNS Young SDG Leaders Award since 2018. The annual case competition aims to raise awareness of the UN SDGs and groom youths to champion sustainable development.

In a briefing session held on 15 April 2019 to prepare the participants for Phase 1 of the competition focusing on assessing CDL's business case, CDL's CSO Esther An articulated CDL's ESG integration journey over the last 2 decades. Jae Lee, a youth champion from last year's winning team shared his experience on how to prepare for the competition and his tips to score well.

This year, more than 65 student teams are aspiring to be our next Young SDG champions. 10 finalist teams were selected in June to undergo sustainability work attachments at assigned organisations, to align their sustainability strategy with the SDGs through innovative solutions. The final judging takes place in August 2019. For more info on the competition, click [here](#).



# ENGAGING OUR STAKEHOLDERS

## Women4Green Impact Series #6: Eat, Grow, Love

### Supporting SDGs:



Championing the collective force of women in sustainability, CDL's Women4Green (W4G) network has been connecting like-minded women from various backgrounds since 2017. Entrepreneurs, corporate leaders, business professionals and green enthusiasts gather regularly to share meaningful insights on the issues that are important to women.

On 10 May 2019, over 80 of these ladies attended the W4G sixth impact series at the SSA, including Canadian High Commissioner, Nancy Lynn McDonald. Titled "Eat, Grow, Love", a play on Elizabeth Gilbert's famous novel, the W4G session introduced tips on living and eating well in an urban environment. The evening featured sustainable wining and dining, as well as spirited discussions on low-carbon diets, urban farming and foraging for edibles in the wild. The three passionate speakers were:

- Chow Pek Yee, Principal Dietitian from Khoo Teck Puat Hospital
- Olivia Choong, Founder of Green Drinks Singapore
- Nithiya Laila, Culinary Anthropologist and host of "Edible Wild" on CNA

The evening ended with a hands-on tea making session by Nithiya, using a combination of local herbs and plants like blue pea flower, lemongrass and roselle.



From left: Canadian High Commissioner Nancy Lynn McDonald, CDL CSO Esther An, and Founder/CEO, Global Green Connect, Global Green Economic Forum & Global Green Economic Consulting, Christina Lee



Ladies getting hands on to 'scavenge' through the baskets of leaves and herbs brought by Nithiya to make their home-made teas

## Encouraging Staff and Tenants to “Ditch the Tissue, Switch to Hanky”

### Supporting SDGs:



In celebration of Earth Day and World Environment Day on 5 June 2019, CDL held a staff and tenant engagement contest to “Ditch the Tissue, Switch to Hanky”. The aim was to encourage the usage of handkerchiefs instead of tissue paper.

The unsustainable consumption and production of tissue paper has led to the destruction of precious rainforests that are homes to the indigenous wildlife. Participants are asked to give their best answer on “How can using a handkerchief help to save our planet?” The lucky winners won a pair of tickets to “Til The End Of The World, We'll Meet In No Man's Land”, a multi-sensory theatre performance written and performed by Inch Chua, a local musician who documented her experience in Antarctica after winning the CDL E-Generation Challenge 2017.

## Staff Lunchtime Talk on Fashion Upcycling, with Fashion Pulpit

### Supporting SDGs:



Do you know that the fashion industry is one of the most pollutive industries in the world? Fast fashion has added to the problem as consumers are valuing trendiness over the quality and longevity of the clothing. About 40 CDL staff attended the lunchtime talk and heard from Raye Padit, founder of The Fashion Pulpit. He shared about the pollutive nature of the fashion industry, fashion upcycling and his inspiration for setting up The Fashion Pulpit. The Fashion Pulpit aims

to reduce clothing and accessories waste from the landfill by giving them a new lease of life. Customers can trade in their used clothing which are in good condition for credits to purchase curated second-hand clothing at the store.

## Integrating the CDL Sustainability Experience at New Hire Orientation

### Supporting SDGs:







New hires of CDL, as part of their orientation programme, are imparted with information to learn about CDL's Code of Business Conduct and Ethics as well as other related corporate policies, including Anti-corruption, Fraud, Competition, and Whistle-blowing. Besides compliance issues, CDL also educates our new hires on CDL's sustainability journey, Future Value 2030 sustainability blueprint and initiatives that

contribute to our long-term value creation. On 13 May 2019, CDL CSO, Ms Esther An, presented to 16 new hires at the SSA. The session reinforced the message on CDL's commitment towards sustainability and aimed to inspire our new colleagues to adopt sustainable practices in their various departments.

## GIVING BACK TO THE COMMUNITY

### CDL Raises More Than \$227,000 at Assisi Fun Day 2019

#### Supporting SDGs:



*In a special charity segment called 'The CDL Challenge', CDL Group General Manager Mr Chia Ngiang Hong (on bicycle in the background) and Group Chief Investment Officer Mr Frank Khoo (holding blender jug) each led a team to cycle hard on a blender bicycle. This segment alone raised S\$227,175 in total for Assisi Hospice*

The annual Assisi Fun Day saw about 10,000 visitors, who enjoyed a day of fun at the mega carnival, themed 'Kampong Times'. It was co-organised by CDL and subsidiary CBM Pte Ltd, which contributed manpower and expertise in areas such as logistics, cleaning and security. CDL Group's other hotels such as JW Marriott Singapore South Beach, M Social, The St. Regis Singapore, W Singapore – Sentosa Cove, and Studio M, also supported the event by contributing lucky draw prizes.

In a 'fruity' competition, CDL Group General Manager Mr Chia Ngiang Hong and CDL Group Chief Investment Officer Mr Frank Khoo each led a team comprising CDL and Assisi participants, as they cycled hard on a blender bicycle to generate energy to blend fruits into juice. They were participating in a special charity segment called 'The CDL Challenge' at Assisi Fun Day 2019, Assisi Hospice's biggest annual fundraising event. The segment is aimed at helping Assisi Hospice achieve its overall target of raising S\$1 million this year.

The friendly competition which was also the highlight of the event, saw the crowd join guest-of-honour and Senior Minister of State, Ministry of Trade and Industry & Ministry of Education Mr Chee Hong Tat, and Patron of Assisi Hospice Madam Ho Ching, to cheer and support the teams.

More than S\$227,000 was raised from this segment alone, with donations from CDL's staff, business partners and carnival participants.

CDL and its hotel arm, Millennium & Copthorne Hotels plc (M&C), as well as sister company Hong Leong Finance (HLF) took up one of the largest pavilions to set up nine stalls at the carnival. Four stalls were run by CDL staff volunteers, four by M&C's hotels in Singapore – Copthorne King's, Grand Copthorne Waterfront, M Hotel and Orchard Hotel, and one by HLF, selling a variety of delectable snacks and drinks.

CDL Group Chief Executive Officer Mr Sherman Kwek, who flagged off 'The CDL Challenge' said, "In addition to the strong turnout and support of our staff, I am heartened by the generous contributions that poured in from business associates, friends and the community. The funds raised today will go a long way towards helping the patients and their families at Assisi Hospice and we hope to inspire more contributions to support the impactful work of the Hospice."



*Cheers to the high-spirited CDL staff at Assisi Fun Day 2019!*



## Singapore's Greening Journey - 200 Years and Beyond Exhibition at CDL Green Gallery, Singapore Botanic Gardens

### Supporting SDGs:



*Front row from left: Dr Nigel Taylor, Group Director of Singapore Botanic Gardens; Mr Kenneth Er, CEO of NParks; Professor Leo Tan, Chairman of the Garden City Fund; Minister Lawrence Wong; Mr Sherman Kwek, CDL Group CEO; Mr Chia Ngiang Hong, CDL Group General Manager; and Ms Esther An, CDL Chief Sustainability Officer with guests and staff of NParks.*

CDL and the National Parks Board (NParks) unveiled an exhibition on 21 June 2019 at the Singapore Botanic Gardens, exploring the evolution of Singapore's landscapes from 200 years ago to the present. Held in conjunction with Singapore's Bicentennial commemorations and the Gardens' 160th Anniversary celebrations, the 'Singapore's Greening Journey: 200 Years and Beyond' exhibition will run till 10 November 2019, 9am to 6pm daily, at the CDL Green Gallery (except on the last Tuesday of each month, when it is closed).

The exhibition is divided into three zones, taking visitors across three themes through three different timelines:

1. From Forested Island to Urban Jungle (1819-1964);
2. Garden City to Biophilic City in a Garden vision (1965-2019); and
3. Biophilic Garden City of Tomorrow (2019 and beyond).

Visitors can experience each timeframe through interpretive panels and interactive displays and stations.

Minister for National Development Mr Lawrence Wong officially opened the exhibition and highlighted in his remarks that "CDL clearly stands out as a champion for green and sustainable development." He commended CDL as "an industry leader in green buildings, who for more than a decade has been supporting the government in many public outreach and education projects."

CDL Group Chief Executive Officer Mr Sherman Kwek said, “For decades, the private sector has played a significant role in supporting the Government’s focus on imbuing our city with nature and CDL is glad to have contributed to this vision. We have established a great partnership with NParks over the years to promote the importance of greening Singapore through various collaborations including the CDL Green Gallery. We hope that the exhibition launched today will enable Singaporeans and foreign visitors to learn more about Singapore’s greening journey and aspirations to be a biophilic City in a Garden.”

## CDL Supports the Premiere of Inch Chua’s ‘Til The End Of The World, We’ll Meet In No Man’s Land’ Theatre Production

### Supporting SDGs:



Inch Chua, a talented local singer/songwriter and runner-up winner of CDL E-Generation Challenge 2017, staged a multi-sensory musical performance from 25 April to 4 May at 72-13 Theatreworks. The show was curated based on her life-changing experience from joining 2041’s International Antarctic ClimateForce Expedition, led by veteran world explorer, Sir Robert Swan and his son Barney Swan, along with a hundred-strong team that included scientists and researchers. CDL and over 80 close partners in the environment sustainability industry from the public, private and people sectors attended the premiere on 25 April. Special guests included Ms Dorte Bech Vizard, Ambassador of Denmark to Singapore and Brunei and Professor Lam Khee Poh, Dean of NUS School of Design and Environment.

## Launch of Award-winning ‘100 Lines’ Sculpture at Marine Cove

### Supporting SDGs:







Winning sculptor of the 5<sup>th</sup> CDL Sculpture Award, Mr Kenneth Koh conducting his sculpture workshop to a group of eager participants



A participant sketching out her interpretation of the '100 Lines' sculpture during the urban sketching workshop

'A Hundred Lines', the winning entry of the 5<sup>th</sup> CDL Sculpture Award, was recently completed and unveiled at Marine Cove in celebration of the Singapore Bicentennial and Singapore Botanic Gardens' 160th year. The sculpture commemorates the dramatic transformation of Singapore's skyline and greening efforts over the decades and pays tribute to the contributions of pioneers and people in our community who were key to shaping and establishing Singapore's global reputation as a City in the Garden.

As part of the unveiling, an urban sketching demonstration by Ang Qing Sheng, CDL E-Generation 2019 winner, and sculpting workshop by sculpture artist Kenneth Koh were held on 2 June 2019 at Marine Cove to engage the public. The event was very well-received, attracting some 80 eager participants including families with children and the elderly over two one-hour sessions. There was also a two-week long social media campaign and competition seeking to award the most creative photo representation of the sculpture by the public.

## HAPPENINGS AT THE SSA

### The Singapore Sustainability Academy (SSA): A Dedicated Sustainability Hub Supporting SDGs:



Opened in June 2017, the zero-energy SSA is the first major People, Public, Private (3P) ground-up initiative in support of the UN SDGs and Singapore's Nationally Determined Contributions to tackle climate change. In the last two years since its opening, the SSA has hosted over 290 sustainability-related training programmes and events, engaging over 11,000 stakeholders, NGO partners, business associates, government agencies and foreign delegates.

The Sustainable Energy Association of Singapore that has its office at the SSA, held about 100 capacity building programmes and training courses to equip energy managers and practitioners in the region on topics such as renewable energy and energy efficiency.

Key events and programmes at the SSA in Q2 2019 are outlined below. More information about SSA's activities can be found [here](#).

### 1. Visit by MBA Students from the University of St Gallen, Switzerland, 9 April



20 students from the prestigious University of St Gallen, Switzerland visited the SSA as part of their course syllabus to understand CDL's business case of sustainability integration. They were keen to understand the vision and mission of the Academy as well as the design and technology that have achieved net zero for the building. CDL CSO Esther An gave a presentation and addressed the students' questions on the role developers can play in accelerating the green building movement and climate action in Singapore, a cause CDL has been championing for over two decades now.



After a short discussion, the students proceeded to visit CDL's joint venture South Beach development to learn more about CDL's implementation of green features in our developments.

### 2. UNDP Private Sector Advisory Group Inaugural Meeting, 10 April

Fair Biz, a UNDP programme, held its first Private Sector Advisory Group (PSAG) Meeting at the SSA to promote a fair business environment in ASEAN. This by-invitation meeting was attended by 20 PSAG members, who were specially selected from the ASEAN members. Besides CDL CSO Esther An, the distinguished participants include David Smith, Head of Corporate Governance, Aberdeen Asset Management Asia Ltd (Singapore); Arin Jira, Chair, ASEAN Business Advisory Council (Thailand) and Y.W. Junardy, President, UN Global Compact (Indonesia). To kick-start the meeting, Mr Bradley Busetto, Director, UNDP Global Center for Technology, Innovation and Sustainable Development and H.E. Scott Wightman, British High Commissioner, Singapore provided their opening remarks and set the stage for the lively discussions that ensued.

### 3. Why Conservation Matters (Even if Animals Don't Matter to You) by Nature Society (Singapore), 24 April



Modern medicine has been with us for one hundred years but evolution has been at work since life began 3.5 billion years ago. Every time we lose a species, we lose something that may affect humanity.

Nature Society (Singapore) held a talk to share the importance of conservation and invited Peter Allison, a renowned writer and safari guide to share how one can be a conservationist and have fun at the same time. He also highlighted that even if one is not interested in animals, conservation still

matters as discoveries are still being made about animals that could have medical or material benefits for us. Examples include the incredible work being done on how elephants avoid cancer, a recent discovery



based on dragonfly wings that could create natural anti-bacterial wipes and how butterflies may hold the clue to invisibility.



#### **4. Cities of Love Awards Ceremony, 27 April**

Founded by Mr Tai Lee Siang, Executive Director of BuildSG and his wife Valerie Ang, the first Cities of Love book was published in 2016 as a way of showing a little love for the environment we live in and to encourage others to take a

more proactive stance on sustainability. This was followed by the Cities of Love Awards, which was launched in 2017 to celebrate individuals and businesses who demonstrate how we can live sustainably by acting with love toward our cities. From small homegrown projects to large-scale corporate and academic schemes, it is dedicated to share these inspiring stories. Amongst the many impressive submissions, a project from the Singapore University of Technology and Design (SUTD), SUTD-MIT International Design Centre (IDC) and UglyFood led by SUTD students clinched the distinguished and Top Prize award for the corporate / environmental category. The awards ceremony was graced by Dr Teo Ho Pin, Mayor of the North West Community Development Council.

#### **5. Deep Diving into Sustainable Fishing, 30 April**



Fishing is a popular recreational hobby in Singapore and passionate anglers recognise that conserving Singapore's fish populations will help ensure the long-term sustainability of their pastime.

40 individuals and industry partners gathered to discuss the sustainable use of local marine resources and explore responsible recreational fishing methods such as minimum sizes, bag limits and catch-and-release.

Organised by Marine Stewards (Singapore), the discussion was led by Dr Zeehan Jaafar, a lecturer at the NUS Department of Biological Sciences and lead editor of the Singapore Blue Plan 2018.

#### **6. Secondsguru Zero Waste Bootcamp #1 Review Session, 4 May**



Secondsguru, a social enterprise that advocates sustainable living, launched its first zero-waste bootcamp on 2 March 2019 as part of a series to guide youths and their communities towards a zero-waste lifestyle. This is in support of the Ministry of the Environment and Water Resources' Year Towards Zero Waste for 2019.

In that inaugural bootcamp, 15 youths learnt how to embark on their personal zero-waste lifestyle and crafted zero-waste plans for their communities. After rolling out their zero-waste



community action plans for two months, these green ambassadors returned to present their community rollout efforts, highlighting the challenges, successes and learnings they encountered. The winning team, Food Fighters SG, was then awarded a grant of \$500 and a hamper of experiential goodies.

### **7. Strategy Workshop for Centre for a Responsible Future, 4-5 May**



Centre for a Responsible Future (CRF) and Conjoint Consulting held a 1.5-day strategy workshop for 15 staff and executive board members from CRF and Conjoint Consulting. The intensive brainstorming session allowed participants to review the foundational work done in the past, the value proposition of its current programmes and services, and co-create its organisational structure for the future.

### **8. Wildcat Lecture Series: Tracking the Elusive Snow Leopards of China, 12 May**



"Tracking the Elusive Snow Leopards of China" was the inaugural lecture that launched the Wildcat Lecture Series by the Singapore Wildcat Action Group. It aims to raise awareness in Singapore of the world's myriad wildcat species through educational and informative presentations given by experts.

The snow leopard is listed as "vulnerable" in the International Union for Conservation of Nature's Red List of Threatened Species, which means it is facing a high risk of extinction

in the wild. According to the Snow Leopard Trust, climate change threatens two-thirds of the snow leopard's habitat, which includes China, Bhutan, Nepal, India, Pakistan, Afghanistan, Russia and Mongolia.

### **9. Sustainable Cities with IoT: Waste Management and Environment Monitoring, 13 May**



The well-being of residents is a critical consideration for sustainable cities. Besides access to education, health and public transportation, a sustainable city requires efficient waste management services, good air quality and other modern living necessities. As cities grow, the challenges of managing the environment grow exponentially. IoTSG invited two speakers — Saloni Goel, Environment & Sustainability Change Maker and Milind Ghorpade, CEO, Mobiquest—to share with the

audience of 45 guests their expert insights on addressing environmental challenges. Founded in Singapore, IoTSG is the biggest Internet of Things (IoT) and advanced technologies-focused special interest group in Southeast Asia.



#### 10. Wildcat Lecture Series: Asiatic Lion Talk, 17 May



60 nature lovers attended the second Wildcat Lecture organised by the Singapore Wildcat Action Group, where the spotlight was on the Asiatic Lion. Guest speaker Dr Ravi Chellam is a wildlife biologist and conservation scientist who has dedicated his last 30 years to studying the wildlife of India, especially the Asiatic lions of the Gir forests. During the talk, he traced the conservation history of the lions, assessed their current status, and shared his views on what conservation actions are needed.

#### 11. Secondsguru Zero Waste Bootcamp #2, 1 June



This zero-waste bootcamp, attended by over 25 youths passionate about environmental change in their communities, was the second session in Secondsguru's four-part educational programme.

During the session, the youths collaborated in groups to create an actionable plan that would help tackle Singapore's mammoth waste problem. They presented their ideas in an Ecothon, guided by facilitators. Their plans will

be rolled out in their communities over two months, after which they will reconvene to present the achievements, learning points and challenges from their community efforts.

#### 12. Stewardship Masterclass on Family Businesses, 7 June



Family businesses face an inherent challenge: the need to balance family—their succession and the needs of the next generation—with business. Stewardship is a critical factor that would enable them to emerge over time as engaged, forward-looking and adaptable enterprises. This would also allow them to build a strong foundation for long-term wealth creation that would not compromise the demands of the present, while safeguarding the interests of the community and future generations.

Co-organised by Stewardship Asia Centre, Family Business Australia and Business Families Institute, the masterclass was attended by over 20 business leaders who helm family businesses. A discussion was led by Mr Ong Boon Hwee, CEO of Stewardship Asia Centre, who introduced the elements and core concepts that form the basis of stewardship and the applications of the "Stewardship Principles for Family Businesses". CDL CSO Esther An also shared with the visitors the CDL business case of integrating sustainability into every aspect of the organisation and its operations.

### 13. Bagathon by Bit by Bit, 16 Jun



Bit by Bit is a group that aims to make a difference regarding single-use plastics in Singapore, by creating an active and gracious community that naturally cares for the environment and promotes zero waste living. A family-friendly workshop was held at the SSA where 22 participants enjoyed a screening of the documentary “A Blue Planet”. An upcycling workshop also saw participants creatively turn their old T-shirts into a reusable bag using only scissors.

### 14. FASTRACK: Tech for Zero Carbon Cities, 21 Jun



ENGIE Factory, in collaboration with tech media platform e27, held a public event to catalyse discussions on sustainable living as urban residents. With cities contributing to 70% of global emissions and 65% of global energy demand, FASTRACK explored technology's role in driving building, mobility and food systems towards zero-carbon cities. SSA, being a zero-energy academy, was an apt venue for the event.

Speakers from Big Idea Ventures, CDL, CRF, GrabWheels, Electrify, IDinvest, Life3 Biotech and SustainableSG were invited to share on topics such as:

- Energy Renovation
- Making Buildings Smart and Eco-Responsible
- Green Mobility for All
- Accessible and Sustainable Transportation
- Feeding the Future
- Sustainable Food Systems for Urban Residents
- The Transition towards a Modern, Zero-Emissions Society

About 160 attendees were treated to freshly made vegan burgers by Impossible Foods, electric car and scooter rides, and an earth-friendly bazaar of sustainable lifestyle goods. The event also showcased building, mobility, food and waste start-ups.



### 15. Behaviour Change Hackathon by WISE, 22 Jun



The Behaviour Change Hackathon is a six-series workshop targeted at youths aged between 15 to 35 years. It promotes effective behavioural change solutions to meet Singapore's social and environmental needs. Participants undergo training on basic behavioural change theories and tools. They are concurrently grouped in teams of five to design a behavioural change solution to an existing problem, in partnership with a non-profit organisation or social enterprise. Close to 40 participants attended this first session. The programme is supported by the National

Youth Council and project partners include Animal Concerns Research & Education Society, Humanitarian Organization for Migration Economics and Green Nudge.

### 16. Ngee Ann Polytechnic Educational Tour, 24 Jun



40 first-year Ngee Ann Polytechnic students and their teachers from the Diploma in Environmental & Water Technology faculty visited the SSA to learn about the green building movement in Singapore and CDL's contribution to that, as well as green building technologies. The presentation by CDL CSO Esther An was followed by a tour of South Beach, a development which won two Green Mark Platinum awards.

### 17. Visit by Rocky Mountain Institute, 24 Jun



Rocky Mountain Institute (RMI) is a leading US-based think tank that advocates a low-carbon future and aims to tackle climate change with global market-based solutions. It is founded by world renowned scientist Dr Amory Lovins, who was named by Time magazine as one of the World's 100 Most Influential People in 2009. CDL was honoured to host the RMI entourage at the SSA and shared about CDL's green building technologies and low carbon strategy. The lively exchange of thoughts enabled CDL to learn about the global best practices shared by RMI and how CDL is aligned to some of them.

### 18. Under the Dome: Film Screening & Discussion, 25 Jun

The World Health Organization ranks air pollution as the top threat to human health with over 90% of the world's population living in extremely polluted conditions. Recent research suggests that air pollution affects "every organ in our body" and, contrary to what many believe, it is a problem that can be tackled. Mann + Hummel (Singapore), GIGA (Shanghai) and Green Initiatives organised a screening of "Under the Dome", a film by reporter Chai Jing, that investigates the sources and impacts of China's deadly smog. The film also explored how other cities like London and Los Angeles reduce air pollution through a



combination of technology and law enforcement. Following the screening, the audience of 60 engaged in a discussion and networking session.

## ADVOCATING SUSTAINABILITY THROUGH THOUGHT LEADERSHIP

### Promoting Strategic Thought Leadership and Best Practices in Sustainability

#### Supporting SDGs:



As an early adopter of sustainability and pioneer in green building and green bonds in Singapore, CDL CSO Esther An was invited to share CDL's integrated strategy at various high-level conferences and summits in Q2 2019. Here is a look at some of those sustainability-focused speaking engagements.

### FEATURE STORY: UNEP FI Regional Roundtable APAC in Shanghai



陆家嘴金融城理事会绿色金融专业委员会  
Green Finance Development Committee, Lujiazui Financial City Council

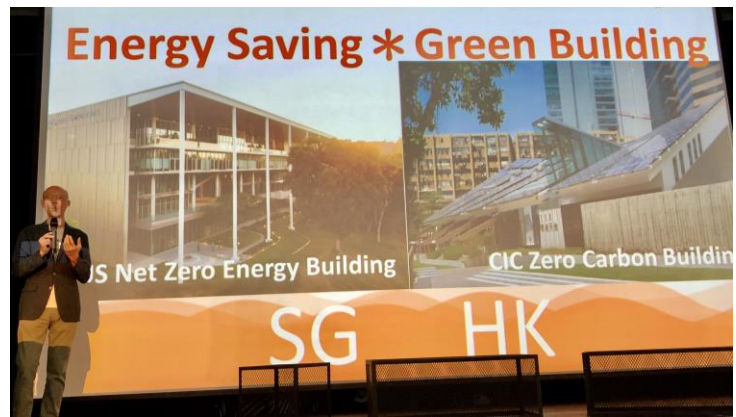
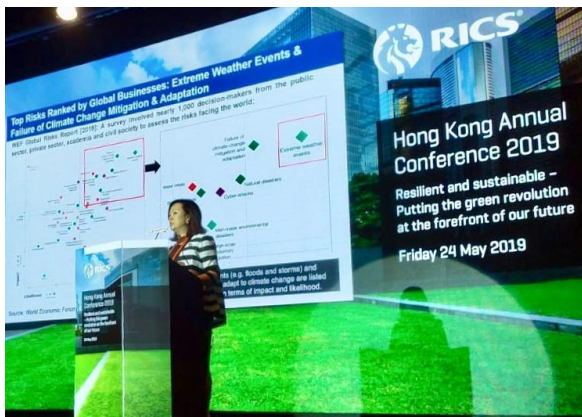


### Engaging Global Investors, Elevating CDL's Sustainability Leadership: Shanghai, 5 June

Co-hosted with the Shanghai Lujiazui Financial City Council Green Finance Development Committee (GFDC) in collaboration with Principles for Responsible Investment (UN PRI) as part of UN Environment's 2019 World Environment Day celebrations hosted by China, under the theme "Air Pollution", the United Nations Environment Programme Finance Initiative (UNEP FI) Regional Roundtable for Sustainable Finance in Asia Pacific took place on 5 – 6 June 2019 in Shanghai, China. This was the second round of Regional Roundtables on Sustainable Finance in 2019 which provided an opportunity for members and



actors in the sustainable finance community to come together locally to discuss the latest trends and



innovations and share good practice.

The Roundtables aim to bring together UNEP FI members and sustainable finance practitioners for two days of insights into advances in sustainable finance in 5 regions across the globe.

Plenary topic: Financing the UN SDGs and the Paris Agreement.

Outreach: some 300 investors, banking and finance executives, finance regulators, government officials, policy makers and business leaders in diverse sectors and sustainable finance from across Asia Pacific. CSO Esther shared CDL's business case on embracing the UN SDGs and the experience in issuing the first green bond by a Singapore company to accelerate the green building agenda.

#### **4 April | SGX-SAS Sustainability Debate**

#### **25 April | ULI Panel Discussion on ESG**

#### **23 May | Global Reporting Initiative – Corporate Action Group on SDGS Lab 1; Prioritising SDGs to act and report in a principled way**

#### **24 May | RICS Hong Kong Annual Conference 2019**

Engagement of over 400 professionals to address urgent climate change challenges and discuss about sustainability gaining traction in multiple sectors in Hong Kong. The CDL video on sustainability was also first launched and showcased at this event which is an international platform with a tremendous pool of overseas delegates. The topic of the conference was 'Resilient and sustainable: Putting the green revolution at the forefront of our future'.

#### **29 May | SGX Roundtable on ESG Investing: Time to Face Reality**

Hosted by SGX and moderated by BNP, CDL and CapitaLand shared with about 20 selected investors and bankers in a closed-door discussion on the growth opportunities of ESG integration.

#### **31 May | AVPN Roundtable on Sustainable Buildings**

#### **1 June | GGEF Youth Forum in Hong Kong**

#### **3 to 7 June | Innovation4Climate by World Bank & IFC**

CSO Esther was invited to be the panellist for multiple workshops during EcoSperity - closed-door workshop *Greening Construction Workshop: Decarbonising the Value Chain. Opportunities, Trends and Challenges for Green Bond Issuance for Financial Institutions in Asia*<sup>1</sup>, *Green Financing in Asia* workshop and the inaugural EcoSperity Advisory Group Roundtable, chaired by Chairman & CEO, Temasek, involving C-suite participants. The five-day conference facilitated CDL's engagement with hundreds of sustainability professionals, bankers and investors from around the globe.

**10 June | WGBC CEO Network Webinar**

**13 June | ICMA Green and Social Bond Principles AGM & Conference in Frankfurt**



Panel speaker on *Corporate Leadership Perspective: Are Corporates Ready to Mainstream Green and Sustainable Bonds?* She shared the Asian perspective and experience on sustainable financing tools, especially Green and Sustainable Bonds, how they play a key role to accelerate climate action and SDGs, and how these are becoming core elements of corporate financing policies. The outreach was to some 400 investors, issuers, intermediaries, external reviewers, policy makers and market supervisors, stock exchanges, index and data providers, law firms, and other important stakeholders. CDL was used as a case study for green bond/financing.

**25 June | WGBC Group Webinar – Advancing Net Zero in Asia Project**

**26 June | GAIL Sustainability Forum**

Panel speaker on *Conscious Capitalism & Sustainable Leadership in Asia: Business Strategy*. Shared CDL's alignment to SDG Goals and experience on use of green bonds and loans to develop green buildings and innovations with business and sustainability leaders. The forum was graced by Senior Minister of State, Ministry of the Environment and Water Resources & Ministry of Health, Dr Amy Khor.

**27 June | AVPN Conference 2019**

Panel speaker on *Singapore's Role in Mobilising Impact Capital for Asia*. Shared current trends towards social impact and Impact Investment in Asia and more so in ASEAN. Participants include global foundations (e.g. Rockefeller Foundation), funders, resource providers, and charitable and sustainability organisations.

## SUSTAINABILITY INSIGHTS FROM A GLOBAL EXPERT

As part of CDL's continued thought-leadership and advocacy efforts, we regularly feature sustainability insights from experts on our dedicated sustainability microsite [www.cdlustainability.com](http://www.cdlustainability.com). This issue features an article by Kevin Moss entitled "3 Ways Businesses can Lead the Transition to a Low-Carbon Economy" which was originally published on [WRI Insights](#).



There is ample evidence of various economic benefits of low-carbon growth. This blog post articulates three main ways businesses can capitalise on low-carbon opportunities. The first way is by reforming business practices. Adopting innovative business models e.g. a circular one and applying a shadow internal carbon price can help future-proof companies in the transition to a low carbon economy. Moss also advocates engaging with consumers due to the strong link between a company's brand and its market value. Businesses can utilise marketing influence to shift consumer preferences towards a lower-consumption, sustainable pathway. The last suggestion is to build a partnership with the government. By mutually

reinforcing positive action, governments and businesses can drive one another to ever-higher climate goals.

Kevin Moss is the Global Director of the Business Center, WRI's programme that helps the private sector develop strategies that support sustainable strategies and drive growth. He supports WRI's Signature Initiatives in developing impactful strategies that leverage the private sector, provides thought leadership in the field of corporate sustainability and supports the integration of private sector perspectives and impact across the full range of WRI programs. This includes WRI's Corporate Consultative Group which facilitates impactful engagement across a broad spectrum of leading corporate partners.

Interested to read more articles? Click [here](#).

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