## **Financing** Low-Carbon Performance





UDI URBAN DEVELOPMENT INSTITUTE PACIFIC REGION Affine Vancity

**FREE WEBINAR** Mar 9, 2022 9.30 - 10.30am PST zebx.org





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The ZEBx Podcast Decarb Lunch

The Builders Have Spoken: The Cost of High-Performance Construction

Season 1 Episode 4



zebx

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# Decars Lunch Series

zebx

**BC Hydro**Power smart



SFU Parcel 21: Achieving Step 4 at Conventional Construction Budgets Thu Mar 31, 2022, from 12- 1pm PDT Free Webinar I zebx.org



SIMON FRASER



ZERO EMISSIONS BUILDING EXCHANGE



# AMPLIFIED

#BUILDEXVancouver #BUILDEXAmplified

March 23 – 24, 2022

In Person @ Vancouver Convention Centre West

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#### Financing Low-Carbon Performance

Co-host:

Rocky Sethi, Chief Operating Officer, Adera Developments





#### Tell us about yourself!

Three-part anonymous poll







# ADERA 2025 VISION: Buildings For Better Lives

From our 2025 Vision:

"We acknowledge the environmental impact of our industry and are driven to develop new solutions to address the environmental crisis."

## Adera's Sustainability Value:

Operational excellence, technology, and a commitment to innovation unlock the path to sustainable development. We understand that price, product, location, and reputation remain paramount to our customers, but so does our unwavering commitment to sustainability and climate change. We deliver on this through leadership in mass timber. We will deliver more homes than any other in our class in the next five years. We are committed to reducing waste and emissions, and being advocate for climate change, while operating with fiscal prudence and accountability.

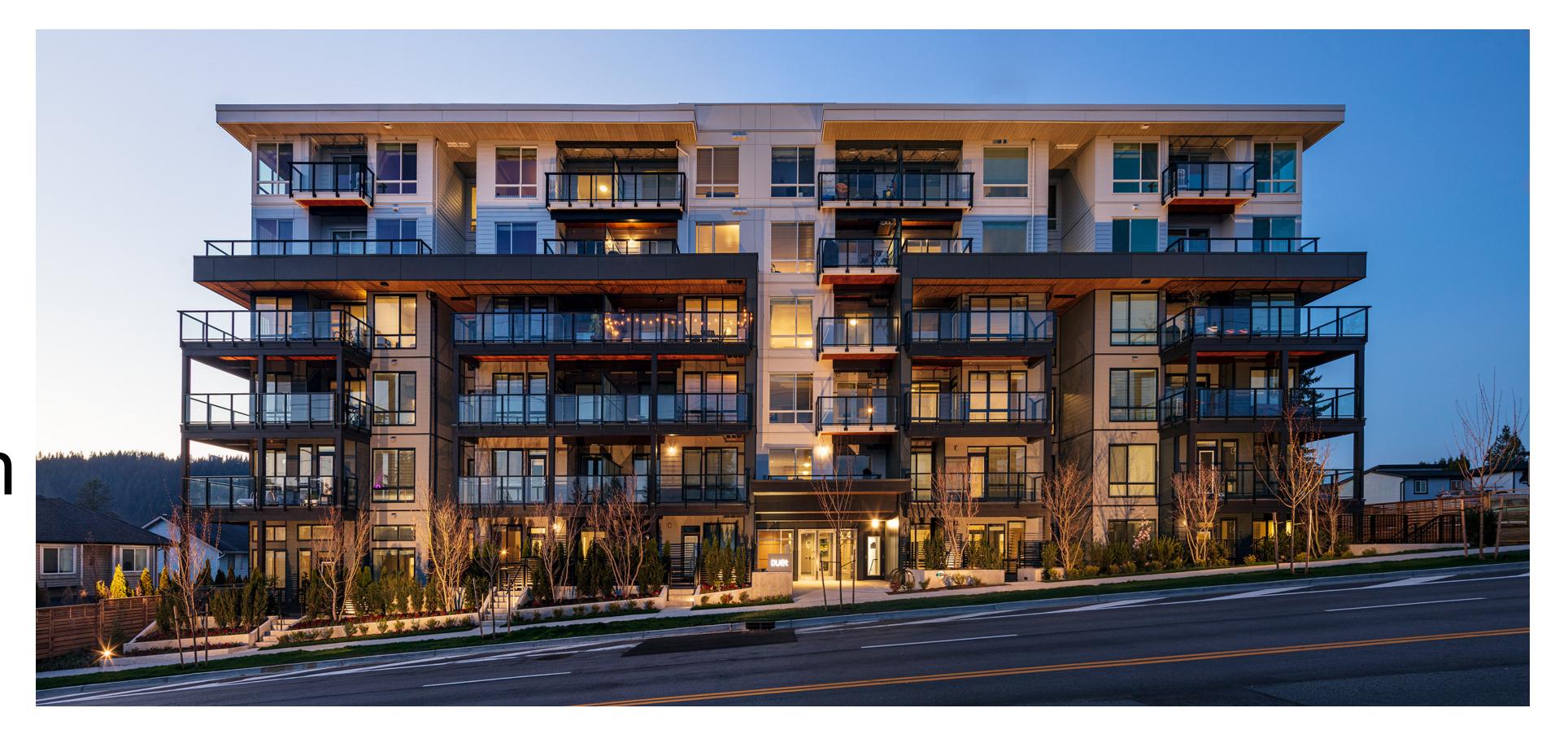


# Mass Timber Projects



Crest, North Vancouver

Duet, Coquitlam





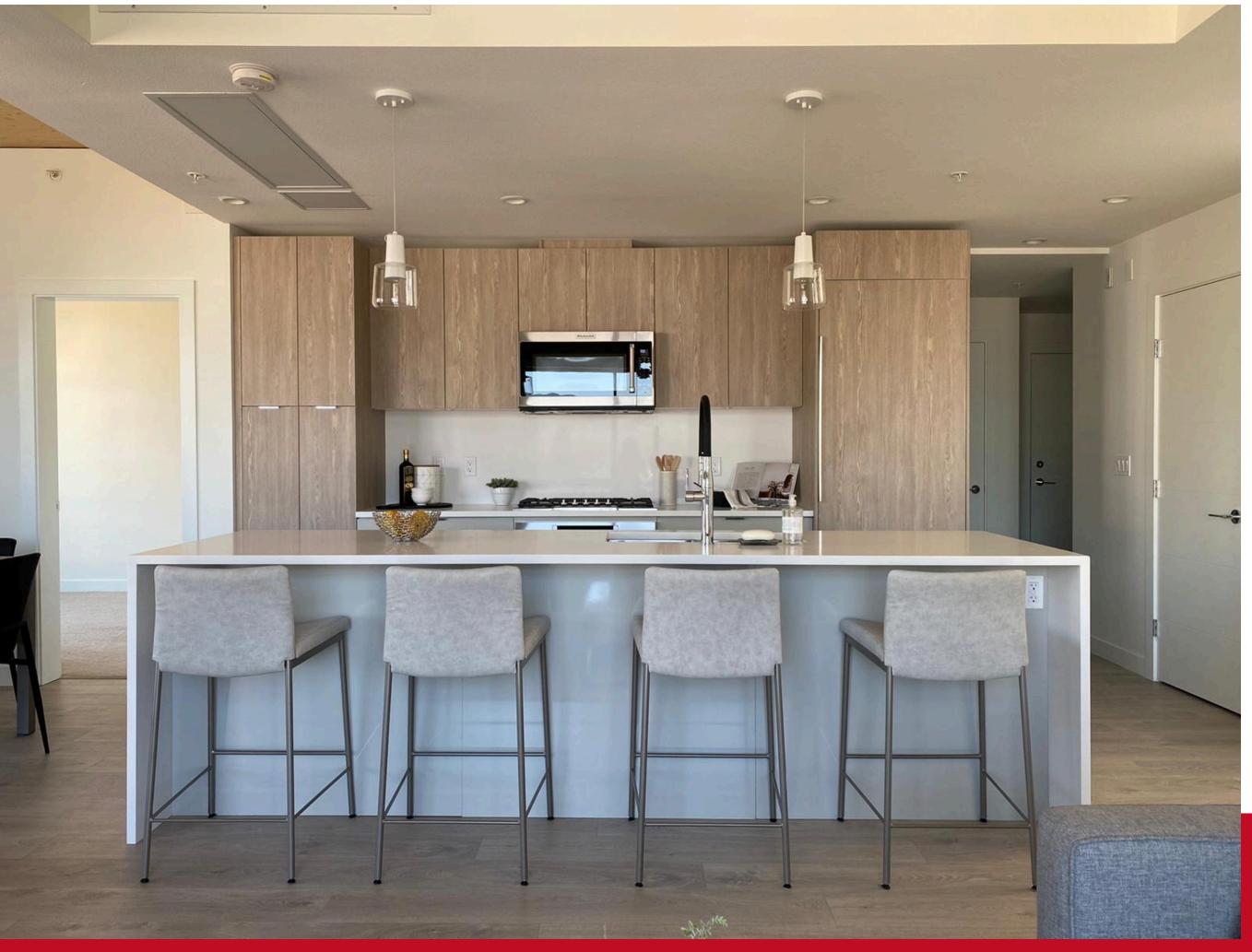
Virtuoso, UBC



# Mass Timber in our Homes









# Sustainability

#### CREST - CITY OF NORTH VANCOUVER

Results				EQUIVALENT TO		
2734 м <sup>3</sup>	7 MINUTES	2365 мт	2588 мт	4952 мт	1047 cars	<b>523</b> номеѕ
Volume of wood products used	Time to grow in U.S. & Canadian forests		Avoided greenhouse gas emissions	Total potential carbon benefit	Number of cars off the road for a year	Energy to operate homes for a year

#### **DUET FLATS - WEST COQUITLAM**

Results					EQUIVALENT TO		
1366 м <sup>3</sup>	4 MINUTES	1181 мт	457 MT	1638 мт	346 cars	173 HOMES	
Volume of wood products used	Time to grow in U.S. & Canadian forests		Avoided greenhouse gas emissions	Total potential carbon benefit	Number of cars off the road for a year		

#### **DUET CITYHOMES - WEST COQUITLAM**

	Results			EQUIVALENT TO		
1330 м <sup>3</sup>	4 MINUTES	1174 мт	1781 MT	2955 мт	625 cars	312 HOMES
Volume of wood products used	Time to grow in U.S. & Canadian forests		Avoided greenhouse gas emissions	Total potential carbon benefit	Number of cars off the road for a year	

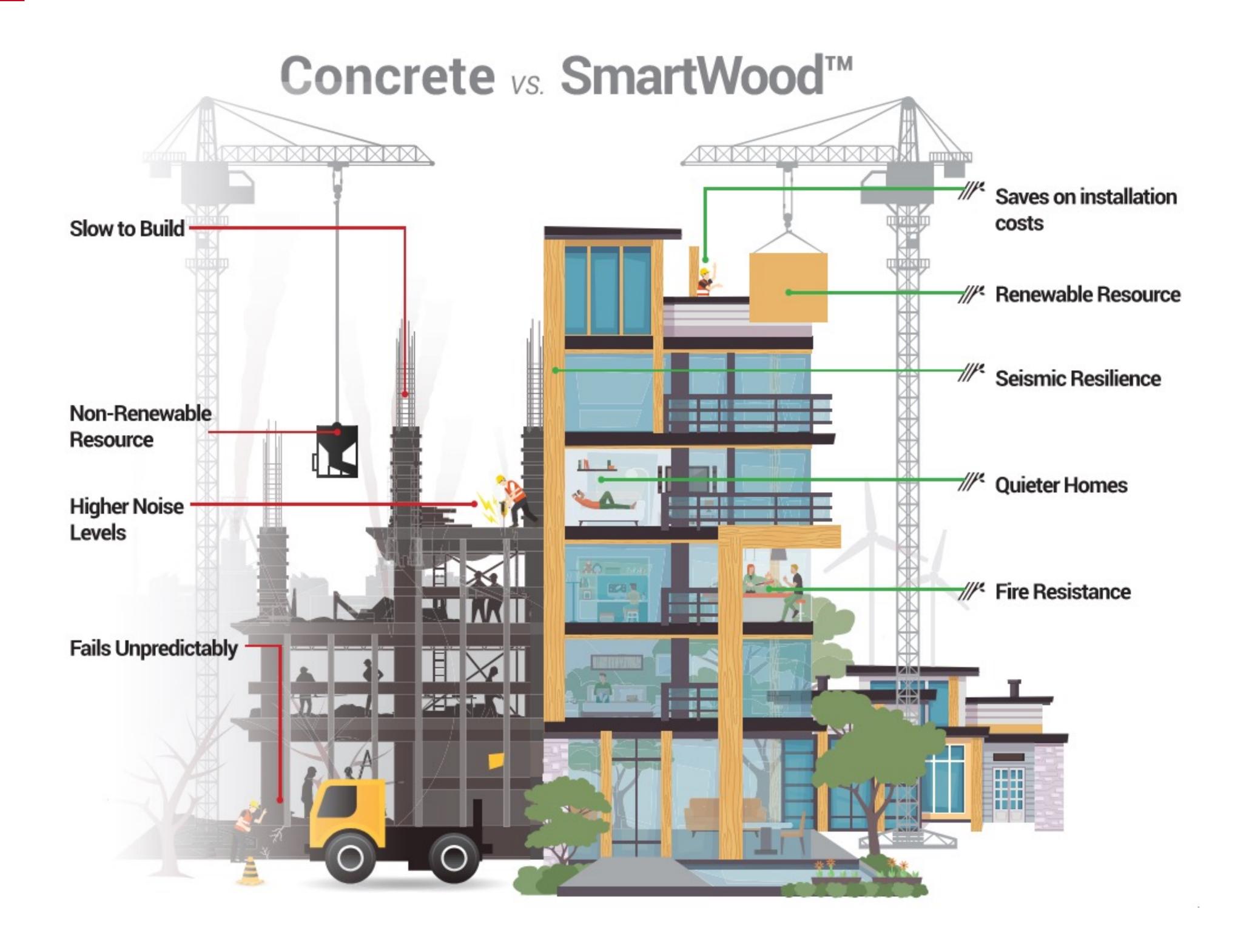
## BULLDING FOR THE FUTURE

At Adera, our goal is to create truly sustainable communities. For over 50 years, we've earned a reputation as leaders in sustainable and innovative building practices. We face the constraints of all others in our industry, but we address them differently. In order to provide a secure future for our families, our customers, and those who make our community whole, we are committed to finding better ways to build.

Adera has been constructing high quality, sustainable housing for more than a decade. We are proud to say that we have built more independently certified sustainable homes than any other market developer in B.C. As a result of Step Code, Adera introduced our Adera Sustainability Program or (ASP) approximately 4 years ago. Based on the essentials of LEED and BuiltGreen, our ASP offers buyers real value. Items such as low flow fixtures, LED lighting throughout the building, energy efficient appliances, efficient window/wall ratio to optimize insulative values, and air exchanges well below Building Code to maximize heating performance. This is all in addition to the aforementioned benefits of mass timber.



## SmartWood + Fitwel





- Increases Physical Activity
- Promotes Occupant Safety
- Reduces Morbidity and Absenteeism
- Supports Social Equity for Vulnerable Populations
- Instills Feelings of Well-being
- Impacts Surrounding Community Health
- Enhances Access to Healthy Foods

Fitwel's Health Impact Categories





#### Momentum in the Financial Sector

- COP 26: Glasgow Financial Alliance for Net Zero (GFANZ)
- Global Alliance for Banking on Values (GABV)
- Reporting frameworks on Climate-Related Financial Disclosures (TCFD)
- Matrices on how to factor climate risk into financial valuation.
- Implementation of climate commitments is the crucial next step.
- Lending and investment decisions are a key lever of influence.



#### Financing Low-Carbon Performance

#### **Speakers:**

 Morgan McDonald, Director of Operations, Ledcor Renew and Affine Climate Solutions

Bill Sherritt, Director, Community Business and Real Estate,
 Vancity Credit Union



# Climate Solutions

# Financial Tools for Low-Carbon Resilient Buildings

2022 March 9

#### Living Future Vancouver (LFV) -> Affine

- History
- Name change
- Mission



#### Our Mission

Provide tangible, inspiring decarbonization solutions for climate recovery.



#### Why Green Finance?



#### Why Green Finance?

- Scale
- Business case
- Find new value



# Working with Vancity

#### Finding the Value

Risk

- Physical risk
- Transition risk
- Future liability

Opportunity

- Leadership
- First-mover advantage









#### Context:

- Community-based
- Affordability
- Not green building experts



#### Low-Carbon Construction Financing Pilot

	Category	Climate Criteria
1	Operational Carbon	No fossil fuels except for emergency use
2	Embodied Carbon	Submit carbon Life Cycle Assessment (LCA)
3	Climate Resilience	Confirm that future (2050) climatic projections (temperature, rainfall, flood, smoke events) will be used in building design





#### Ongoing & Upcoming Work:

- Retrofit solutions with Vancity
- Solutions with other Financial Institutions
- Solutions for Non-Profit Housing Associations
- Solutions with First Nations



We believe Climate Recovery is possible.

We know how to help others achieve it.

Your support will put our knowledge into action.

## Thank you

www.affineclimate.ca



# Vancity Low Carbon Construction Financing Pilot

March 9, 2022

## We're longtime leaders in fighting climate change...

First in Canada to dedicate a portion of credit card profits to grants for local sustainability initiatives.



Canada's first financing vehicle for energy-efficient home renovation.



First financial institution in North America to win a Ceres-ACCA North American Sustainability Reporting Award.



All investment funds we manage are fossil-fuel free.

First financial institution in North America to achieve carbon-neutral operations.

mutual fund.

socially responsible

Canada's first

**1986 1990** 

2003

Canada's first lowinterest loan for

emissions vehicles.

purchasing low-

2004

2005

2008

2019

## Net zero by 2040

Our ambition is to make Vancity net zero by 2040 across all our mortgages and loans.

That means the carbon emitted from anything we finance will be eliminated or significantly reduced, with any remaining emissions being brought to net zero.



## Towards net zero



First measured and reported financed emissions in 2021



Bulk of emissions come from mortgage portfolios



Commercial Real Estate more emissions intensive than residential



## Focus on buildings

To deliver on net zero goal we are:



Decreasing emissions in portfolio via retrofits

#### Partnering for impact

Vancity Low-Carbon
Construction Financing Pilot





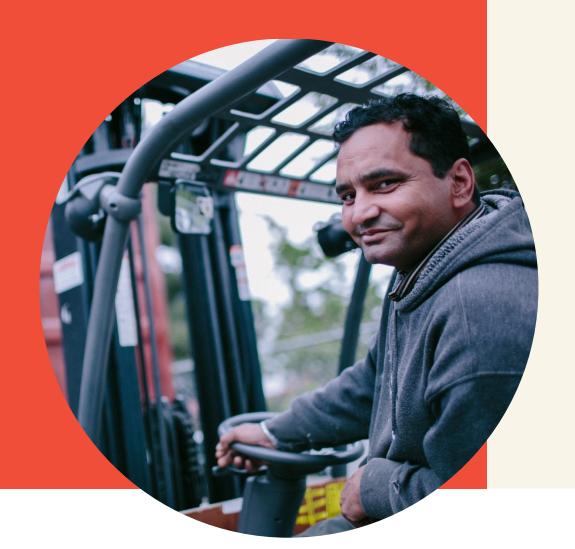
## Climate criteria



To qualify for the Low-Carbon Construction Finance Pilot, projects must meet the following criteria, in addition to meeting current building code requirements:

Category	Criteria	Verification
Operational Carbon greenhouse gas emissions generated from space and water heating, cooking, and powering the building once in operation	No fossil fuels except for emergency use	Engineer's letter
Embodied Carbon greenhouse gas emissions associated with building materials and construction practices	Submit carbon Life Cycle Assessment (LCA)	Copy of LCA
Climate Resilience a building's ability to continue to avoid or withstand climate change impacts such as extreme heat, flooding, and wildfire	Future (2050) climatic projections (temperature, rainfall, flood, smoke events) will be used in building design	Engineer's letter

## Low carbon = preferred terms.



Projects that meet climate criteria may be eligible for:

- Reduced rates and fees
- Extended amortization period
- Higher loan-to-cost ratio
- Other adjustments as appropriate

Developers must be experienced and meet usual requirements for financing.

### Let's talk.

#### We're on a journey to zero

If you want to discuss the Pilot, or other emissions reduction financing opportunities we're all ears.



**Bill Sherritt, Director, Community Business and Real Estate** 

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