Financers/Funders

PAINS	OPPORTUNITIES	
FINANCIAL LOGIC		
Lower rent buildings cannot be leveraged/borrowed against to the same degree as those that charge high rents	NOI uplift to monetize	
COLLABORATION		
One funder alone cannot adequately fund a project	 Build an ecosystem of trusted and reliable funding partners that work together to stack project funding 	
RISK and DATA		
There is perceived risk in funding owners who do not have a proven track record of delivering on construction/retrofit projects	 Build an ecosystem of trusted and reliable delivery partners Protect asset via bond Subordinate risk (NFPs can do this) 	
There is perceived risk in funding projects that harness lesser-known technology		
There is a lack of quality and easy to access data by which to accurately assess a projects risk profile (data as sub-theme for financers/owners)		

Owners

DAINC		
PAINS	OPPORTUNITIES	
FINANCING PROCESS DESIGN		
It is difficult to navigate the programs and their applications	 Align requirements across funding programs Consolidated sources of information with clear descriptions and financing support across government, private, and public supports Easy to navigate program applications 	
It is difficult to stack funding programs due to misaligned requirements		
FINANCIAL LOGIC		
Many owners do not have the upfront capital available to undertake deep retrofits and it can be	 Patient upfront capital that can wait for the amortization of benefits Longer amortization Lower insurance prices Provide backup funds for emergencies 	
hard to cover costs when needing to maintain profitability		
Paying for other people's consumption		
It is difficult to share benefits of retrofits with shareholders on financial statements	 Contained unit monitoring Ability to measure and report potential savings on balance sheets and financial statements 	
Traditional financers don't understand "green" accounting practices	 Ability to measure and report potential savings on balance sheets and financial statements Being able to clearly demonstrate the benefits of retrofits 	
Rent increase allowances do not align with inflation		
RISK and DATA		
Deeply retrofitting older buildings is more complicated and higher risk than doing so in newer buildings	Lower the cost of insurance Dravida backup funda for emergencies	
	 Provide backup funds for emergencies Train contractors in new tech 	
There is a perceived risk in using newer technology due to fear of poor performance and lack of expertise in the contractor community	• Evidence to demonstrate the benefits of retrofits and tools to make it easy to tell the story	
There is a lack of quality and easy to access data by which to accurately assess a projects risk profile (data as sub-theme for financers/owners)		
RESIDENT MANAGEMENT (TRUST)		
Retrofits of any size disrupt residents, leading to retaliation against workers, constant complaints, and rent reduction requests	 Single point of contact for owners, contractors, residents to go through Tenant swing space Phased retrofitting 	
Owners are the middle person between shareholders and tenants and the desire to be a 'good owner' does not align with the financial logic or the risk profile of deep retrofits		

There is strong media and political retaliation against owners who are perceived to be 'bad'

Residents

PAINS	OPPORTUNITIES	
RESIDENT MANAGEMENT (TRUST)		
Retrofits cause disruption to tenant's daily lives as it relates to scheduling and their physical space (noise, dust)	 Tenant accommodation plans that consider schedules, accessibility, and disruptions to the physical space Provide insurance or guarantees to tenants in the event their belongings are damaged Tenant engagement plan that includes clear explanations of process, benefits, and opportunities for tenants to provide feedback about the process and input into scheduling Tenant liaison who leads with respect and validation App to schedule and provide feedback to contractors/owners Appropriate heating and cooling options Beautiful home Tenant swing space 	
Personal and tangible risk concerns (e.g., stuff getting damaged) inherent to having someone else in your space		
Tenants feel anonymous, powerless, and uniformed throughout the retrofit process, and do not trust that any parties (owners, contractors) have their best interest in mind		
Unsuitable and deteriorating livable conditions		
(Fear of) rent increases and unpredictable bills due to retrofits		

Common pain themes across actors

Financial Logic

Risk

•

- Lower rent buildings cannot be leveraged/borrowed against to the same degree as those buildings that charge high rents
- Many owners do not have the upfront capital required to fund deep retrofits/cover costs to maintain profitability, especially when they struggle to share the benefits of retrofits with shareholders and financers via financial statements
- Risk falls into three categories: financial, physical, reputational
 - There is perceived risk in funding owners who do not have a proven track record of delivering on construction/retrofit pro jects and funding projects that use lesser-known technologies. Much of this perceived risk is due to a lack of quality and accessible data by which to accurately assess a projects risk profile.

Data Collection, Analysis, Value, and Mobilization

- There is a lack of quality and easy to access data by which to accurately assess a projects risk profile
- It is difficult to meaningfully incorporate data and communicate the benefits of retrofits with shareholders and residents, making such projects harder to justify using traditional valuation processes

Resident Management and Trust

- There is the potential for a retrofit to seriously disrupt a tenant's entire quality of life and they often feel uninformed and powerless throughout the process, which breeds a lack of trust
- When residents experience disruption and do not trust owners/contractors, there is a risk that their response can delay a project, increasing its overall cost

Overall Insights

• Current funding opportunities feel misaligned from one another and hard to access

... so the solution must consider reducing the cognitive load of accessing financing

- Due to the high capital cost, no one group can fund deep retrofit projects ... so the solution must consider collaboration/stacked funding
- Various building, financing, and retrofit process conditions impact the effectiveness of solutions

... so we must consider these various conditions when testing our solutions.

Moving towards a valued and wellfunded deep retrofit ecosystem will require gaining trust across the actors through data (about owners, technology, and financial/quality of life impact)

... so the solution must (re)consider how it will meaningfully use, quantify, value, assess, and contribute to data in the retrofit space. To do so we must consider:

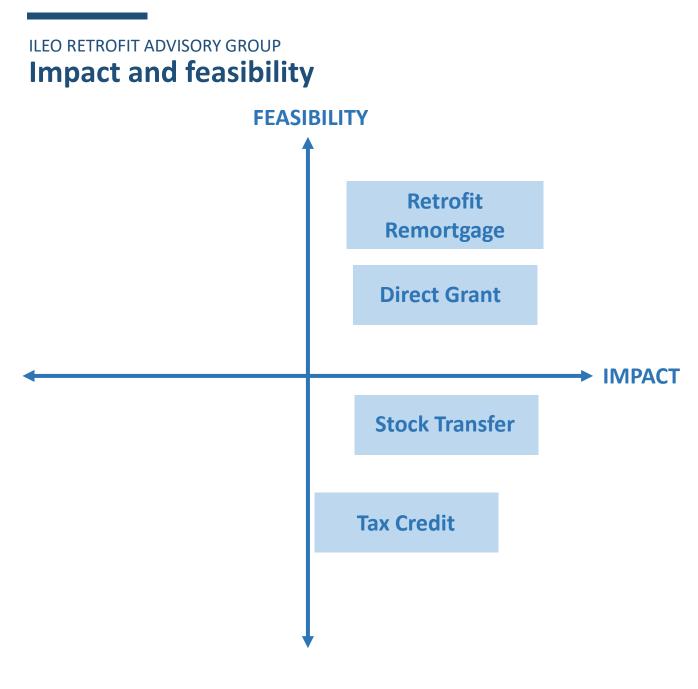
- What data is meaningful to various stakeholders;
- How we quantify and story tell the non-financial benefits of retrofits

 Activating deep retrofit projects will need to involve every actor reconsidering how they assess and manage risk

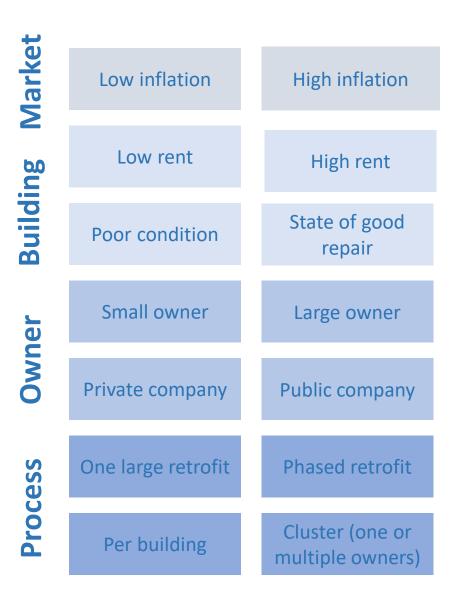
... so the solution must consider:

- What would it take to fund and adopt lesser-known technology?
- What would it take to support an owner with fewer assets or retrofit experience?
- Adequate resident management
 (including knowledge sharing,
 communication, scheduling input,
 QOL considerations) would benefit
 ALL actors and outcomes in the
 retrofit ecosystem

... so the solution must have a clear resident management focus.



Conditions to consider



How can the tool...

be simple and clear to design, understand, and use?

• The tool must reduce administrative burden, easily stack with others, and be predictable and consistent.

be applicable to the GGM and beyond, and sustainable long-term?

• The tool must apply to a variety of business models and set the groundwork for the retrofit industry to self-sustain.

have a significant impact on the business case?

• The tool must have a direct and indirect impact on the business case.

incent other outcomes?

• The tool must consider social outcomes, such as maintaining affordability and tenant security.

Retrofit Advisory Group Exploration Spaces

To prevent the loss of these already affordable units, we need to support capital investments that motivate and enable private owners to undergo deep retrofits while keeping rents affordable, to ensure affordable and healthy living for vulnerable populations across Canada. To do this we must:

Find a way to reduce the capital gap for owners. To do this we will explore: Determine what mechanism is best to preserve rents. To do this we will explore:

- Grants
- Remortgage Tools
- Tax Credits

**specifically, we will explore under what tool conditions an owner would forgo future revenue from rent uplift for access to the equity tool*

• Different affordability requirements attached to the equity tool

• Partial/Full stock transfer to NFPs

*we will also dedicate time to exploring tenant experience during retrofit

Greenhouse Gas and Energy Regulations

Should there be regulations in the next 5-10 years, owners will be required to either undergo a (deep) retrofit or pay penalties. Below are examples of regulations and penalties from other jurisdictions.

NYC Local Law 97, 2024

A law that permits a certain level of emissions based on zoning designation. Emissions must be reduced by 40% by 2030 and 80% by 2050, with annual penalties for non-compliance.

- Applies to all residential and commercial buildings over 25,000 square feet with leniencies for income-restricted and rent-regulated housing.
- Penalty of \$268 per metric ton over the allotted limit; one building estimated a penalty of \$2.4M.
- Offered alongside incentives and a support program, but it is the owner's responsibility to finance and manage the retrofit.
- Annual analysis of energy use is required.
- Option to purchase renewable energy credits in place of retrofit, but this will likely only benefit the commercial sector.

Boston's Building Energy Reporting and Disclosure Ordinance 2.0, 2025

An ordinance that permits a certain level of emission based on building typology. Buildings must reach net-zero by 2050. Daily penalties of up to \$1,300 for non-compliance.

- Applies to all commercial and residential buildings of at least 20,000 square feet or 15 units.
- Penalties for non-adherence to the emission standards, as well as for non-compliance with reporting requirements and failure to accurately report emissions.
- Owners required to submit decarbonization plans with targets every five years.
- Energy Star Portfolio Manager is used to report energy and water consumption.

Owner Types

Small private owners: These owners run small portfolios that range from a single to half a dozen buildings. They are often limited in financial capacity, dependent on mortgage finance, and have limited corporate capacity to engage in large and complex projects. However, they often have flexible decision-making capacity with private and family run boards.

Mid-sized private owners: This class of owner operates portfolios of up to several dozen buildings. They have the decision-making flexibility of small owners but with greater financial capacity. They are often tied to development corporations.

Large private investment fund owners: This class of owner operates large portfolios tied to investment funds, managing assets to enable a rate of return for private investors with both long and short-term horizons. Decision-making is made by a private board of directors and is tied to fund performance. There are two classes: non-taxable corporations, (e.g., pension funds) and taxable corps (e.g., private investment)

Large Publicly Traded **Owners (including REITs):** Publicly traded private companies, often in the form of Real Estate Investment Trusts, manage large portfolios of properties. Decision making is tied to quarterly reporting, stock unit performance and dividend expectations. They can leverage large sums of capital at low interest rates, yet investment is tied to financial performance as outlined.

Owner and Building Variances

For profit owners are motivated by long-term Net Operating Income (NOI) and based on their priorities and financial situations, different owner classes have different relationships with debt and taxes, influencing what types of incentives will motivate them to undergo deep retrofits. Building characteristics will also impact the attractiveness of each type of tool and must be considered when determining widespread impact.

Financial Priorities

- Institutional owners have long term interest in holding assets so will likely not be motivated by capital gains in the short term. They will weigh the benefits of access to capital and related commitments with the opportunity cost of reduced long-term rents.
- Smaller owners are more concerned about the impacts on their realization of their asset at sale.

Portfolio Size

- Owners with a smaller number of units will have a larger capital gap to overcome per project.
- The lead time and planning needed to access funds is at times prohibitive on a single building basis.
- Institutional owners have long term interest in holding assets so will likely not be motivated by capital gains in the short term.

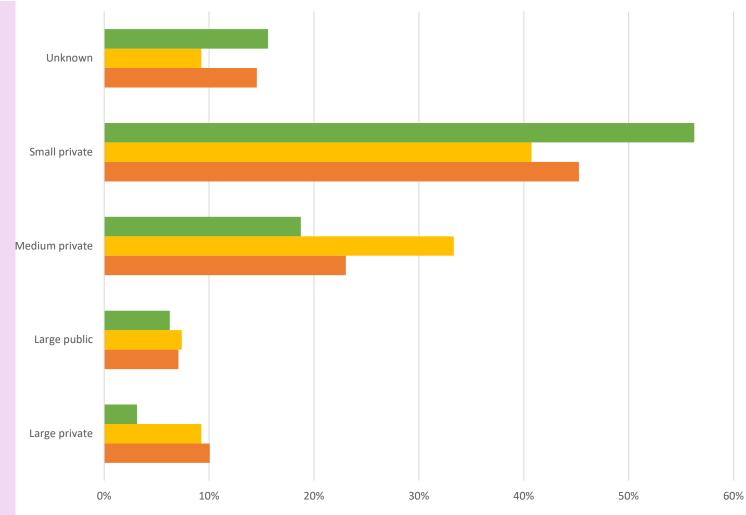
Vacancies and State of Repair

- In buildings with high vacancies and high annual maintenance costs, retrofits can lead to new net revenues through expanded rental income via reduced vacancies and reduced maintenance costs.
- Buildings with substantive repair backlogs will likely require greater upfront investment for retrofits.
- Retrofits are more difficult on older buildings.

6

The Greater Golden Mile Owner Types

- There are approximately 40 distinct owners in the GGM (90 buildings, 13,000 units).
- Small private entities account for the largest percentage of buildings, units, and distinct owners.
- Expanding our bounds from the GM to the GGM increases the market share held by small and medium private entities.
- Approximately 20% of buildings had a property manager listed in place of an owner; they were excluded from this analysis.



Direct Grants

Direct Grants are financial incentives to contribute towards retrofit project costs and may include costs associated with general asset renewal. Funds may be for specific interventions or for the total share of the project costs up to a maximum funding cap, but often come with strict eligibility requirements. These funds primarily come from public organizations and utility companies.

Strengths

- Simple for the funders to design and administer
- No requirement to hit profitability metrics
- Can be catalytic for additional debt financing
- May allow for streamlined data collection that can catalyze the industry and de-risk future projects
- Suitable across owner types
- Can be stacked with tax credits and favourable debt products
- Can have a sliding scale with larger grants given to those groups that have a larger capital gap to overcome

Challenges

- Due to limited availability and reliance on political support, grants are seen has having low potential to make long-term impact
- With a high administrative load (that can include environmental assessments/audits/modelling) and a lack of clarity about grant eligibility/application process, owners can find applying for grants to be difficult and uncertain
- The need for technical audits often require 3rd party support, which is an additional cost
- Very specific program requirements, use restrictions, and application timelines do not always align with owners needs and can be make grants hard to stack with other programs.
- Grants typically have a max cap on funding
- Hard to build complementary programs around multiple Provincial grants 29

Direct Grant Case Studies

FCM's Sustainable Affordable Housing Grant

This \$300M initiative (grant/loan combination) supports affordable housing providers to retrofit existing affordable housing units or construct energy efficient new builds that emit lower greenhouse gas emissions. It is available for a range of project stages: planning, studies, pilot projects, and capital project and the grant/loan combination is reflective of energy savings and depth of retrofit, funding up to 80% of retrofit costs.

Eligibility

- NFPs, housing co-ops, and municipally owned corporations
- Northern applicants have less stringent commitments and further incentives
- Must have municipal support

Commitments

- Affordability: 30% of units are less than 80% of MMR for duration of loan repayment (up to 50 years)
- Environmental: minimum 25% reduction in energy consumption; further incentives available for deeper retrofits

Key Insights

- Offered alongside a capacity-building program led by established organizations to help proponents access funding and maximize energy and greenhouse gas savings
- Minimal work is required by the applicant ahead of the planning grant
- Eligible costs include base state of repair in addition to energy/GHG
- Av. wait time of 2-3 months for plans/studies and 6 months for capital projects causing delay between completion of studies/application and project start time



This **up to 80K in grant funds supports the planning for deep energy and carbon retrofit projects**. A second phase is coming shortly to expand eligibility to the co-op sector and finance project implementation. **It was** designed to **complement existing supports**, including FCMs and CMHCs offerings

Eligibility

- Non-profit housing providers and organizations that support them; expanding to housing co-ops shortly
- Vancity member

Commitments

Must move buildings towards net-zero

Key Insights

- There are no stipulated commitments in terms of environmental, economic, or social requirements
- There is no formal application process; process is adjusted based on the organization
- First phase is designed to support portfolio planning, feasibility studies, energy studies, and building organizational capacity to eventually feed into the second phase of the program (project implementation)
- Vancity funded strategic partnerships with BCNPHA, AHMA, and Affine Climate Solutions to support applicants in developing climate-aligned portfolio plans
- The program is funded by Shared Success, a program through which Vancity shares 30% of net profits with members and the community

Direct Grant Case Studies Continued



This **low-interest loans and contributions** (forgivable loans) program can be used to renovate existing buildings for affordable housing to ensure energy efficient, accessible, and socially inclusive housing that is mixed-income, mixed-tenure, and mixed-use. The forgivable loans are only available in certain circumstances (higher performing projects, community housing etc.) and projects must have **support from another level of government.**

Eligibility

- Community housing providers
- Municipalities, provinces/territories as well as Indigenous governments and organizations
- Private sector

Commitments

- Affordability: 30% of units at 80% MMR for 20 years
- Energy and GHG: 25% reduction over previous performance
- Accessibility

Key Insights

- Additional prioritization for proximities to amenities, social inclusion, and supporting priority groups; evaluation methodology is unclear
- Coordination with another level of government is very difficult for some
- Accessibility requirements are a major challenge for existing buildings due to the scale of required expenditure (often require floor plan reconfiguration)
- Project by project approach
- Required documentation for project application comes at a substantial financial/administrative cost
- For repair and renewal only; cannot be combined with new build infill

Direct Grants Recommendations (1)

The group suggested ways we may tweak, shift, and improve direct grants. Below are some challenges and innovative ways to address them based on the ideation sessions.

Due to limited availability and reliance on political support, grants are seen as having low potential to make long-term impact.

To address this, consider:

- Accessing capital from foundations, many of whom have an interest in climate and sustainability initiatives
- **Developing social impact metrics** to get access to other mission capital
- If **government health funding could be accessed** given health benefits for tenants
- If **CMHC could provide additional grants** using income from our insurance program
- **Partnering with an insurance company** to offer grant money, as these retrofits should lower risk and therefore carrying costs of the building. If owners could get grants by from participating insurance companies and undergoing retrofits for a future reduced rate, it could be a win-win for both insurers and owners.
- Service companies providing grants for the due diligence phase of the work so that this isn't covered by the owner

With a high administrative load (which may include environmental assessments, audits, modelling, etc.) and a lack of clarity about grant eligibility/application process, owners can find applying for grants to be difficult and uncertain.

To address this, consider:

- Enabling diverse granters to harness one consistent platform, application, or grant requirements
- Enabling a "one stop shop" that can support with various types of financing. This may be a concierge service who can provide clarity, forward guidance, and redirection to programs the owners are eligible for
- **Phased approach applications** that start with an expression of interest prior to larger commitments of resources

The need for technical audits often require 3rd party support, which is an additional cost.

To address this, consider:

Making enabling costs eligible for grant spending

Direct Grant Ideation (2)

The group suggested ways we may tweak, shift, and improve direct grants. Below are some challenges and innovative ways to address them based on the ideation sessions.

Very specific program requirements, restrictions, and application timelines do not always align with owners needs.

To address this, consider:

- Providing upfront funding
- Allowing funding to be put towards tenant experience or other upgrades that go beyond regulated upgrades
- Using an aggregator, who is approved by the granter for a package of funding, as they can deploy grants/stacked capital more quickly than individual project approval by the granter

Grants typically have a max cap on funding.

To address this, consider

• **Tying funding to savings performance:** the deeper the savings, the greater the funding

It is hard to build complementary programs around multiple grants.

To address this, consider:

- Enabling diverse granters to harness one consistent platform, application, or grant requirements
- **Combine the granting and financing pipeline** so financers can help owners access grants and include these into the lending assessments

Retrofit Remortgage Tool Ideation (1)

The group suggested ways we may tweak, shift, and improve retrofit remortgage tools. Below are some challenges and innovative ways to address them based on the ideation sessions.

Although it can be stacked with a grant, grants are often accessed via another source, adding some administrative load. This combined with long wait times make Retrofit Remortgage Tools hard to access.

To address this, consider:

- A concierge service that provides turnkey access to both financing and grants
- Having a commercial lender do the initial screening and underwriting and then go to the government for loan refinancing and potentially a grant (the federal contribution). This will streamline and speed up the process for owners and commercial lenders are able to work faster than government lenders

Retrofit Remortgage tools should incentivize deeper retrofits.

To address this, consider:

- Converting up to 30% of the loan to a grant to incentivize deeper retrofits
- Tailoring GHG reduction requirements to regional emission factors, as 40% is not very high in some areas, depending on emission factor of the region
- Gear interest to GHG emissions (like CIB and MLI)
- Including the grant portion in the financing assessment of the asset amount they can leverage in the loan
- The role of additionality: for a retrofit to be considered additional and not have occurred in the absence of the tool, the possibility to receive the preferred terms must play a make-or-break role in the decision to undergo it

Retrofit Remortgage Tool Ideation (2)

The group suggested ways we may tweak, shift, and improve retrofit remortgage tools. Below are some challenges and innovative ways to address them based on the ideation sessions.

Retrofit Remortgage Tools are not easily applicable across owners and building types.

To address this, consider:

Allowing a minor rent uplift in the NOI to make more capital available

Retrofit Remortgage tools be made more attractive to owners.

To address this, consider:

- Loaning upfront so the group can get started, which includes employing experts need to drive higher quality results
- Loaning for elements that enable the retrofit (including tenant needs and other physical requirements to access building systems)

Direct Grants Recommendation Case Studies



McConnell

IVEY foundation

Environment Funders Canada (formerly Canadian Environmental Grantmakers Network – CEGN) is a national network of philanthropic foundations and other organizations that support efforts to transition toward a more sustainable world. Members work with NGOs, community groups and other charitable organizations to develop and deliver programs that can make communities healthier and more resilient, while protecting vital ecosystem services and the natural world's storage technologies. McConnell Foundation is a Canadian foundation that contributes to diverse and innovative approaches to address community resilience, reconciliation, and climate change. They recently hired to receive advisory services from Dunsky Energy + Climate, a group that leads governments, utilities, firms and non-profits in their efforts to build a sustainable energy future. Their focus is on the demand side of the equation, which includes deploying energy efficiency and other demand-side energy resources in buildings and industry, accelerating the deployment of energy and storage technologies. In November 2022, the <u>Ivey Foundation</u>, which is focused on improving the wellbeing of Canadians and Canada's natural environment, announced that it will wind down operations by 2027 and distribute its full \$100 M endowment, starting in 2023. They announced that the majority of the funding will be used to address climate change and advance Canada's low Carbon economy. The Board of Directors made the decision to spend the money now as they want to address the critical issues Canada faces today and that addressing climate change requires timely capital distribution to achieve maximum impact.

Retrofit Tax Credit

Retrofit tax credits are refundable income tax credits for qualifying retrofits that improve the energy efficiency/greenhouse gas emissions of eligible buildings, which meet a specific target or objective, which are typically a certain percentage of the project costs. Other tax credits include:

- Capital Gains Tax Reductions, which spare a seller from paying taxes on a portion of earned profits at point of sale)
- **Capital Cost Allowance (CCA)**, which is the amount of allowed depreciation on a building that can be claimed by a building owner in any year, reducing taxes payable on the income from the property in that year. These are decided on by the CRA and dependent on total revenues of all properties in portfolio. It is a form of delayed income taxation, reducing taxes in the early years. CCAs are only effective when an owner can finance a project with debt and have enough income to take advantage of the tax benefits.

The effect of a tax incentive is dependent on the length of time the current owner is likely to hold the asset, the owner's tax treatment, their level of debt on the property and their cost of capital (opportunity cost attributed to the capital that is being invested), and assumptions about future cost and price inflation. General tax credits are more broadly applicable and attractive than other tax incentives but more difficult to institute. The tax credit can only be applied against owners tax liability, but could be distributed to owner/investors in a partnership or limited partnership that owned the building and applied against corporate or individual tax liability related to other income producing activity.

Update: The 2022 fall economic statement just announced a new refundable investment tax credit of 20-30% for investments in air-or-ground source heat pumps. This is a more significant incentive than the existing accelerated depreciation incentive, and useable for more private apartment owners because you can get the full amount even if it exceeds your tax liability (refundable).

Strengths

- Opportunity to link to standardized certification to increase simplicity and scalability
- Less stringent eligibility requirements than grants
- More politically neutral than direct grants, so often have stronger staying power
- More predictable than grants

Challenges

- Tax credits are fragmented between
 Federal and Provincial governments,
 making them harder to scale
- Changing Federal tax laws takes a long time
- Larger owners benefit more from tax credits than smaller owners
- It can be difficult to communicate the financial benefit of a tax credit to a less sophisticated owner

Tax Credit Case Studies



BC's Clean Building Tax Credit

This is a refundable income tax credit for qualifying retrofits that improve energy efficiency, amounting to 5% of qualifying expenditures paid on the retrofit that is claimed on the proponent's income tax return filed with the CRA.

Eligibility

- A corporation with a permanent establishment in BC
- An individual/trust that lives in BC or earns income in BC
- Commercial buildings
- Multi-unit residential buildings with four or more units

Commitments

• Must reduce energy use intensity (targets depend on type of building)

Key Insights

- Eligible expenses are limited to specific measures
- The retrofit must be certified with the Ministry of Finance, requiring a certificate from a qualified professional stating the energy savings achieved



United States' Low-Income Housing Tax Credit This tax incentive is for housing developers to construct, purchase, or renovate housing for low-income individuals or households. It is offered as a 10-year tax credit of either 9% (no other credits or subsidies) or 4% (other credits or subsidies). Managed by the federal government, funds are allocated to states according to their population.

Eligibility

• Housing developer constructing, purchasing, or renovating housing for lowincome individuals

Commitments

- Low-income: must rent to low-income tenants for a 15-year period
 - 20%+ of tenants earn less than 50% of median income
 - 40%+ of tenants earn less than 60%
 - No tenants earn more than 80%

Key Insights

- The tax credit can cover almost the entirety of the taxable expense for the building
- States manage the application process
- There are usually more applications than credits available; developers must compete for permits

Tax Credit Case Studies



Germany's Tax Deductions for Building Renovations

A tax incentive for homeowners to undergo energy efficiency renovations with deductions of **20% of renovation costs** up to 40,000 euros from their taxes. Additional credits are allotted for a certified energy consultant (up to 50% of the cost).

Eligibility

- Owner-occupied dwellings
- Owner must be a tax resident in Germany
- The building can be located in other EU-member states or countries of the European Economic Area

Commitments

• Cannot transfer the property within a three-year period, or else any unclaimed benefit is forgone

Key Insights

- Eligible costs are limited to specific measures associated with energy savings
- Payment is distributed over three years
- Projected to save up to 3.4 million tons of CO2 by 2030
- States will receive compensation for losses in tax revenues from the federal government

Tax Credit Recommendations

The group suggested ways we may tweak, shift, and improve direct grants. Below are some challenges and innovative ways to address them based on the ideation sessions.

Larger owners benefit more from tax credits than smaller owners due to scale of expenses.

To address this, consider:

- Longer periods to roll over tax credits to accommodate owners who offer affordable rents and do not have a high net operating income (NOI)
- Offering an annual credit (vs. one time) that offsets rent uplift and is more beneficial to yearly NOI

Tax credits should incentivize deeper retrofits.

To address this consider:

- The role of additionality: for a retrofit to be considered additional and not have occurred in the absence of the tax credit, the possibility to receive the credit must play a make-or-break role in the decision to undergo it
- **Tying credit to performance:** the deeper the owner goes with their retrofits, the more funding they receive in terms of tax credits

Other innovative ideas include:

- Create a local market that monetizes the tax credits in a manner that allows owners/buildings to trade both affordability and credits amongst themselves
- In addition to capital investment credits, **add production credits** for GHG reduction that is ongoing and performance based
- Designate preferential tax treatment zones for owners who make retrofit investments while maintaining affordability. These zones can align with affordability and climate data or areas when governments are making large infrastructure investments
- Consider the additionality framework of carbon credits

Tax Credit Recommendation Case Studies



New Market Tax Credits offer tax credits (5% of initial investment for three years, 6% for the next for, for a total of 39%), to CDE's (Community Development Entities) making investments in designated areas. These entities have the primary mission of serving low-income communities via geographic investments. Tax credits can only be applied to annual federal tax returns. Since its beginnings in 2000, it has funded over 5,400 business and developed 178 million square feet of business space. NMTC must be annually approved by Congress. To note, there has not been much empirical evidence on the impacts of NMTCs on poverty reduction.



Opportunity Zones are defined as economically distressed communities where new investments may be eligible for preferential tax treatment. This benefit permits previously earned capital gains to be temporarily deferred by placing these assets in Opportunity Funds (an investment vehicle organized as a corporation or partnership for the purpose of investing in Opportunity Zone property). Those assets are not taxed until they are no longer in the possession of the investor. With capital gains placed in an OF for at least 5 years, the investor's basis on the original investment increases by 10%. If it is invested for at least 7 years, the amount increases by 15%. After 10 years, any additional appreciation on the initial investment is tax-free. This program is part of the IRS rule and does not need to be approved yearly. Critiques of this have named that capital dropped in a community is not the same as capital designated for community benefit and that the gains are more waited to the financial gain of investors over value add to community members.

Retrofit Remortgage Tool

A <u>retrofit remortgage tool</u> offers better loan terms (interest and amortization) based on energy and greenhouse gas reductions, as well as other criteria. The more committed owners are to the outcomes, the better the incentives.

Remortgage tools also offer owners the *opportunity to access some of the equity in their building,* which is of particular benefit to owners who do not have other sources of equity to fund a retrofit, reducing reliance on building NOI. Although one can remortgage at any time, it is traditionally best to do it at the end of the current mortgage so as not to pay a prepayment penalty.

The tool could be *provided either via commercial banks or direct lending*; the terms rates and volume of lending would vary depending on the approach, with lower rates possible though direct lending and a larger program with broader reach possible through commercial banks. The *paradox between ease of program engagement and ensuring quality execution* with these types of programs can be tackled by creating national standards with a designer accreditation system on the front end and an auditing system at the back end. This type of tool is traditionally best suited for assets with large repair backlogs, high operating expenses, and high vacancies.

Update: BMO and CIB are currently partnering on a product, looking at a tool for current BMO clients at end of their initial mortgage period. They would roll the existing commercial mortgage into a bridge loan, which would finance the retrofit construction period and retrofit construction loan.

Strengths

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- Stackable with grants to augment base finances
- Can be structured so owners benefit from reduced operational costs
- Retrofits extend the life of the building and lowers operational cost, which improves NOI and the value of the building, which can extend amortization periods, driving monthly savings that reduce reliance on rent uplift
- If done through a bank, has the potential to reach a wide range of building owners, making it a widely scalable tool
- This is a tool people are familiar with and is streamlined within standing refinancing cycles, which means additional loan applications (and administrative work) are not required
- Target assets at point of sale, which is when owners are primed to make major investment in a building
- When the bank retains the senior secured position as the lender, the client benefits from lower rates due to the security on the building

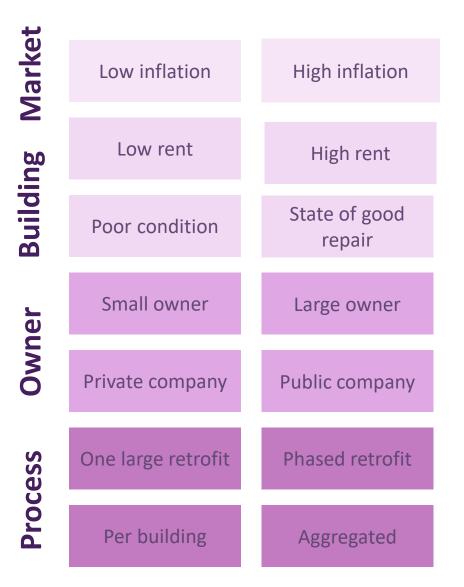
Challenges

- Energy retrofit measures are generally accounted for in terms of payback period rather than yearly ROI so when additional funds are accessed, the debt position of the primary lender can impact the rate and terms of subsequent debt, making use of additional debt for low yield investments unattractive
- Asset managers do not like taking on debt
- Harder to apply across different building conditions
- Although it can be stacked with a grant, the grant is often accessed via another source, adding some administrative load

Retrofit Remortgage Tool: Diving Deep

- Are there new and innovative ways to **approach remortgage tools** that this group can test?
- Are there new and innovative ways to make a retrofit remortgage tool beneficial to more owner and building types?
- Is there a new and innovative way we could approach affordability and retrofit commitments to increase uptake that this group can test?
- Is there a new and innovative risk mitigation mechanism that could be added onto the remortgage tool that this group could test?
- What would need to be true about **remortgage tool design** to increase uptake? Consider:
 - Application and administration;
 - Capital flow timing;
 - Flexibilities; and
 - Stackability with other incentives.
- Who are ideal stakeholders and what roles would they need to play to test this solution?

Conditions to consider



Retrofit Remortgage Tool Case Studies



A multi-unit mortgage loan insurance product focused on affordability, accessibility, and climate compatibility for both new and existing properties. It **offers reduced premiums and longer amortization periods based on commitment levels and uses a point system** that allows applicants to focus on either a single area or to commit across multiple priority areas.

Eligibility

- Standard rental, SRO, supportive housing and retirement homes, student housing owners and developers
- Minimum of 5-units with at least 70% residential space

Commitments

- Affordability: 10- or 20-year commitment based on median renter income
- Environment: energy and GHG reductions over current performance (retrofit) or 2017 NECB (new construction)
- Accessibility: CSA standards

Key Insights

- Matrix-style approach promotes flexibility for a wide range of applicants; does not mandate minimum points for any of the categories
- Clear standards for each of the three areas of commitments
- Applicants are relatively easily able to reach the minimum requirements



KfW's EBS Program

Kfw is a German and state-owned investment and development bank that offers a hybrid grant/low-interest loan model calibrated to building performance outcomes for new construction and retrofits. It provides up to 100K euros per unit (up to 30% is offered as a grant if commitments are exceeded). The commercial banking sector works in collaboration with KfW to provide the initial screening of applications; the KfW then refinances the loan at a more favourable rate and converts a portion of it to a grant should the applicant exceed retrofit standards.

Eligibility

- Private homeowners and homeowner associations
- Housing companies

Commitments

• Environmental: must adhere to the national retrofit standards set in place by the federal government

Key Insights

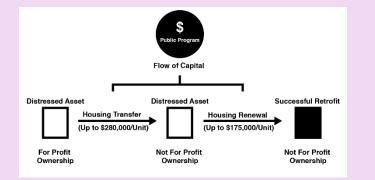
- The program is enabled by the federal government's strong climate change policy with national retrofit standards
- Relies on accredited professionals who follow clear performance guidelines and submit design and energy performance reports as part of the finance approval process
- Covers only costs associated with reduced energy and greenhouse gas emissions 41

Stock Transfer to a Not-for Profit

A <u>stock transfer to a not-for-profit</u> is the process through which an owner transfers either a percentage of units or an entire building to a not-for-profit. It is a mechanism that *ensures affordability* in these buildings is maintained and/or they are not entirely lost once the owner puts the building up for sale.

If the entire building is transferred, a NFP can then seek NFP *specific funding to undergo a deep retrofit.* Depending on the agreement, these units may be owned or leased by the not-for-profit who manage the operations and tenancy of the units/building.

There is also an **option for the transfer to start as a lease and transfer to ownership overtime**. Asset transfers between not-for-profits are more common than those between private owners and not-for-profits. These transactions can be enabled by public funding (grants and financing) that jointly supports acquisitions and renewals, tax treatments that incentivize the sale of housing assets to NFPs through capital gains tax reductions, and/or elimination of land transfer tax.



Strengths

- Provides certainty that the units would be kept affordable in perpetuity
- Opportunity to provide additional supports to tenants via the NFP, providing additional social outcomes to tenants and the community at large
- There are a variety of retrofit funding opportunities for NFPs already in market
- Longer time horizons (5-10 years) support the payback of the NFPs capital investment
- Opportunities for infill can enhance the appeal of this transaction for the NFP
- The current market may be a good time for stock transfers as REITs are slowing acquisitions, making the market less competitive. Some REITs are also looking for capital and may be selling some of their stock.

Challenges

- Sellers are often looking to sell for maximum profit and cash constrained NFPs are not competitive in heated housing markets
- It can be difficult for NFPs to determine how they will pay for the transaction (and a retrofit) while maintaining affordable rents
- Within current ecosystem conditions and available programs, not many NFPs would have the capital to both acquire and retrofit a building
- Requires a lot of financial engineering to line up funding for acquisition and retrofits

Stock Transfer to NFPs Case Studies

WOODGREEN

Opportunity made here. Daniels, Sunlife, and WoodGreen's EVOLV Public-Private Partnership

Within Daniel's 346 rental until EVOLV Building in Regent Park , 34 units are designated for graduates of WoodGreen's Homeward Bound program. Daniel's and Sunlife have a Head Lease and Ancillary Agreements with WoodGreen, who play the role of tenancy manager, supporting tenant recruitment, retention, and vacancy management as well as collecting and forwarding rents. They also provide additional supports to tenants as needed. Affordable units are funded through the City of Toronto's allocation of the Federal-Provincial Ontario Housing Initiative which committed \$150,000 for each of the affordable units and waived property taxed through the Open Doors Program

Commitments

 Apartments are rented at 80% AMR for 40 years with rents being adjusted to 80% of CMCH's AMR when vacated

Key Insights

- Demonstrates the possibility that a NFP can manage units within a privately owned building while ensuring that affordable units go to those in need
- WoodGreen's services cost approximately \$68,000/year
- WoodGreen did not invest any capital and owners assume responsibility for the building development and operations
- WoodGreen is the sole partner in the project that was eligible to access public affordable housing funds, and assumed responsibility for obtaining government funding and upholding the responsibilities of the 40-year contribution agreement with the City of Toronto



Opportunity made here. Partial WoodGreen Ownership at 125 George Street

125 George Street is a 39-storey mixed use building in downtown Toronto developed by Diamon Corp and Alterra. In exchange for leniencies regarding heritage preservation and the opportunity to exceed height and density limits of the existing Zoning By-laws, the City of Toronto secured 7 affordable units for operation by WoodGreen Community Housing (1 one-bedroom, 4 two-bedrooms 2 threebedroom).

Commitments

- Apartments are rented at 80% (or below) of the City's current definition of affordable housing for a minimum period 49 years (which is currently AMR)
- The condos fees for the affordable units are reduced by 50% for 49 years
- All tenants of the affordable rental dwelling units with access to, and use of, all amentias in the development at no extra charge and with the same terms and conditions as other residents

Key Insights

- The obligations for the Section 37 Agreement are registered on title to the lands
- Developer exchanged the ownership of affordable units for other development leniencies and access to Open Doors Affordable Housing incentives
- WoodGreen pays the condo fees, not the residents

Stock Transfer to NFPs Case Studies



Canada's Ecological Land Reserves Tax Credit

This program **completely eliminates the capital gains tax on certain gifts** of publicly listed securities and ecologically sensitive land (to note: gifts are usually taxed at 50%). **Donors are not taxed on any of the capital gain accrued on the donated property** and **receive the full benefit of the donation tax credit** on donation.

Eligibility

• Tax payer who owns ecologically sensitive land

Commitments

• Must be a property on ecologically sensitive land (certified by the Minister of Environment and Climate Change)

Key Insights

- Between 1995 and 2022, 1697 ecological gifts valued at over \$1 B have been donated across Canada for conservation efforts through this mechanisms, protecting over 216,00 hectares of wildlife habitat
- Corporate donors may deduct the eligible amount of their gift directly from taxable income (approximately 29% of the value)
- An individual receives a non-refundable tax credit
- No limit on the dollar amount of donations in any given year
- Any unused portion of a gift may be carried forward for up to 10 years
- Can be stacked with provincial/territorial tax credits



City of Toronto's MURA Program

The MURA (Multi-Unite Residential Acquisition) Program is a non-market, public and community-based **rental acquisitions strategy to preserve the existing supply of affordable rental housing** in the city. Funding facilitates the purchase and conversion of at-risk private market rental housing to create permanent affordable homes owned by non-profit and Indigenous housing organizations, including community land trusts.

Eligibility

- NFPs (including CLTs) and Indigenous housing providers
- 6-60-unit privately-owned residential or mixed-use properties that are either occupied or vacant, with a focus on multi-tenant homes or low-rise apartment buildings

Commitments

- 99-year affordability with rent not exceeding 100% AMR for any one unit with the objective of overall project average rent of 80% AMR
- Programs may be required to accept tenants in receipt of housing benefits

Key Insights

• Properties are eligible for purchase and renovation funding of up to \$200,000 per dwelling unit for apartment buildings and \$150,000 per dwelling room for multi-tenant houses, with the remainder to be funded or financed by the proponents.



City of Montreal's First Right of Refusal

To respond to the shortage of affordable rental housing in Montreal, the City of Montreal has introduced a right of first refusal (ROFR) bylaw. Introduced in March 2020, the bylaw gives the City the ability to purchase properties with priority over any other buyer by substituting itself for the latter when the seller has accepted an offer to purchase. It does this in order to carry out projects that are deemed for the benefit of the community, such as creating or preserving social housing. Owners of land or buildings subject to the city's ROFR bylaw are sent a notice informing them that their property will be subject to the bylaw (for a period of 10 years). The notice is then entered into the City's land registry database. The ROFR bylaw does not force any owner to sell their property - ownership rights remain intact. That said, as soon as an owner of a property subject to the ROFR bylaw accepts an offer on their property, they must inform the City. The City then has 60 days to inform the owner of its decision to exercise or not its ROFR right. If it choose to use its ROFR bylaw right, the City has to notify the owner that it will replace the potential buyer.



ommunity LandTrust

City of Toronto's transfer of TCHC single family homes to NFPs

The TCHC transferred 643 properties with 761 units to The Neighbourhood Land Trust and Circle Community Land Trust. The goal of rh transfers was to help improve service to the tenants, bring the units into a state of good repair, protect the affordability of the units in perpetuity, and build the capacity of the NFP housing sector.

Commitments

- Both CLTs entered into social housing agreements with the City that are registered on title, ensuring that the properties remain affordable in perpetuity
- Programs may be required to accept tenants in receipt of housing benefits

Key Insights

- Both CLTs entered into social housing agreements with the City that are registered on title, ensuring that the properties remain affordable in perpetuity
- City will continue to have a strong oversight role in the operations of the assets
- TCHC, the Land rusts and the City created a join transition team to lead the transfer for the financial, property, and tenant records
- Land Trusts got funding for the purchase from VanCity and CMHC Co-I funded the repair
- Neighbourhood Land Trust partnered by YWCA Toronto to serve as the landlord; all tenancy and rent administration goes through them

Stock Transfer to NFP Recommendations

The group suggested ways we may enable stock transfers to not-for-profits. Below innovative ways we may increase the uptake of this method to preserve affordability (and potentially increase retrofit uptake).

Focus on owners that may be more open to transferring their stock.

These may include:

- Family owners who have community roots who are interested their long-standing legacy in the community
- **Buildings with high needs tenants,** as they present less competition and NFPs are willing to pay asking price
- Those that get good publicity and/or meet certain ESG targets, as some owners may be hesitant to stock transfer to NFPs in order to maintain a certain profile. As such, consider ways to offset this risk.

Focus on methods that may enable stock transfers to NFPs.

These may include:

- **Providing tax credits for owners who stock transfer,** which could open capital for other projects
- Providing grant/tax credits to the private owner to manage the renewal upon commitment they will transfer units to an NFP to maintain affordability
 - Note- conditional sales like this do present risk
- Transferring a portion of units first and reducing retrofit costs for private owner by tapping into financing specifically for NFPs re: the NFP held units

Potential Paths Forward

Should there be GHG regulations in the next 5-10 years, owners will be required to either undergo a (deep) retrofit to be compliant or pay penalties (if applicable). Once this occurs, there are five possible scenarios:

Owner wants to keep building and complete the retrofit

- 1) Owner is enabled to retrofit building and commits to maintaining affordability as per the agreed affordability terms of the capital support
- Owner is enabled to retrofit and makes a partial stock transfer of units to an Not For Profit (NFP) to maintain affordability as per the agreed terms of the capital support

Owner wants to sell building

- 3) Owner is incented to sell their building to a NFP (over private sector), and NFP is enabled to acquire and retrofit the building
- 4) Owner is incented to sell to municipality (over private sector), municipality is enabled to bulk purchase buildings and retrofit
- 5) Owner sells to private sector and affordability is (likely) lost

Should the owner want to retrofit:

- New innovative tax credits are NOT a viable solution to enable in the short-term due to long timelines to amend current provincial / federal tax credit laws
- There is a lack of existing grants to address full capital gap
- A mortgage could be the base of the capital stack
- In order to drive widescale uptake, we will need to determine how the different tools can come together to address the capital gap in such that owners are willing to maintain rent prices affordable for tenants

Aggregation

Aggregation refers to the process of **grouping together several similar buildings** into **one large project portfolio with the aim of supporting multiple projects while driving down costs.**

This occurs **by reducing the fragmentation** and lack of understanding within the retrofit sector (and financing sector) and **designing easily repeated retrofit solutions** that drive up economies of scale and drive down costs.

A designated entity plays the role of aggregator that enables the process, including access to **lower-cost financing** from institutional investors who want to make large investments **and/or retrofit solutions.**

Depending on the entity, the aggregator **may** also provide technical and project management expertise to design, build, and operate the retrofits.

To note, aggregators **can be commercial** (bank/private entity) **or public** (NFP/municipality)

Strengths

- By reaching more buildings, aggregators harness a broader portfolio approach to enable more private finance in the retrofit sector
- Combining projects reduces project development transaction costs, which have historically been a barrier for smaller owners
- By increasing economies of scale, aggregation enables innovative retrofit approaches (e.g., prefabrication) which can simplify retrofits and reduce disruptions for occupants
- Aggregation shifts performance risk away from the individual building owners to the portfolio, which reduces risk to any one specific project and/or owner
- Greater ability to link grant programs and funding programs into aggregation process (e.g., CIB)
- One larger competitive bidding process could attract new players to the retrofit sector (particularly those with innovative ideas to test, or greater R&D budgets) that would otherwise be uninterested in a smaller project
- With access to aggregated and standardized data, there is the opportunity to build evidence for best practices and replicable retrofit solutions that will eventually drive economies of scale and drive down costs. This aggregated evidence can reduce cognitive load for other owners.
- Aggregation can encourage standardization of investments, and potentially certification programs to reduce administrative burden for evaluators and proponents of retrofit funding/financing programs

Challenges

- Because it is a relatively new approach there are fewer designated entities who can play the role of aggregator
- Aggregation works best with similar type buildings and when owners have similar responsibilities and interests, reducing the number of buildings that can be effectively bundled and/or increase the complexity of the aggregation
- Takes a lot of time, skill, and energy and there is currently a significant skills gap in workforce capacity when there are large scale projects, necessitating large-scale education and training.

Aggregator Recommendations

The group suggested ways we may contribute to the aggregation space. Below innovative ways we may enable this method to drive more projects forward,

Focus on getting more foundations involved.

Additional information:

- Foundations don't require the aggregation of multiple projects as they are willing to write smaller checks for refinancing.
- Foundations could be used to create a revolving pool of capital, similar to the money provided by TAF. This revolving capital could be used to lubricate the market to get to aggregation.
 - Note: This would get around the fact that TAF funding can't be used with CIB funds due to their cap on Federal funding in a project.

Aggregation Case Studies



<u>Efficiency Capital</u> provides clients with upfront capital to undertake required retrofit work in exchange for a share of end-of-project utility cost savings. They design, invest, install, manage, and measure building upgrades. EC allows owners and managers to increase building profit by realizing savings on operating costs. **EC is serving as an aggregator for CIBs \$2B commercial building retrofit initiative.**

Key Insights

- Beyond aggregating demand, EC takes a structured approach that mitigates design and implementation risk and ensures improved performance and reduced energy consumption while generating sustainable financial savings
- No upfront investment or internal resources are required from building owners
- Technology agnostic: flexibility on choice of equipment, offering the best technology at the most competitive price
- Building owners pay only for results, reducing the financial risk (equal to or less than energy savings)
- Building owners retain all savings after project payback (7-10 years)

SOFIAC is an investment fund age

<u>SOFIAC</u> is an investment fund agency that enables owners to increase their cost-effectiveness and competitiveness while reducing energy consumption and GHG production. SOFIAC has access to \$200M for investment over the next five years for building owners with annual energy expenditure of more than \$500K (portfolio). It provides complete turnkey solutions for large-scale energy efficiency retrofits of commercial and industrial assets. It is funded by CIB as an aggregator.

Key Insights

- SOFIAC funds deep retrofits (25-40% energy savings, 30-50% GHG reductions) with 12–15-year paybacks
- Supports the full cost of retrofit projects and offers specialist technical consultant support
- Recoups investment through the appropriation of energy savings
- Interest rate of loan is determined as a direct function of the reduction in GHG emissions realized by the various projects
- No upfront investment or internal resources are required from building owners
- Non-recourse, long-term junior debt has no impact on borrowing capacity
- Involvement of CIB is essential to SOFIACs success as it mitigates the financial risk and facilitates the bankability of projects

* List of approved aggregators for CIB's Building Retrofit Initiative available <u>here</u>.

ILEO RETROFIT ADVISORY GROUP Concierge Approach / Market Development Teams

The concierge approach is a **"one-stop-shop"** that provides **project management, and technical and financial support** to enable building owners to undergo deep retrofits.

The approach aims **to overcome the complex**, **fragmented**, **redundant**, **and costly** approach to retrofits via **massive scale-up**. Playing the role of project partner, they guide building owners through the retrofit.

Typically, they favour **systematic and modular approaches** to affordable deep energy retrofits.

Market development teams stimulate demand, facilitate access to financing, and standardize delivery to ultimately reduce retrofit costs, mitigate risk, generate financial savings, and improve building performance.

Beyond benefits to individual owners, this process builds industry capacity to develop the market conditions necessary for a massive scale-up of deep energy retrofits.

Strengths

- The standardized delivery, technical/financial support, and project management support reduces risks and administrative efforts for building owners and contractors
- Greater capacity to demonstrate the technical and economic feasibility of whole building retrofits that integrate energy efficiency, decarbonization, and climate adaptation
- Facilitates access to, and structuring of, funding and financing, including increasing the uptake of funding and financing programs offered by various levels of government and utilities
- Facilitates equitable access to the full range of support required for deep retrofits enabling those with less technical and financial capacity to undertake more complex retrofit projects
- Standardizes project delivery and procurement to reduce overall costs
- Highlights and drives towards co-benefits for owner, such as maintaining rents, minimizing disruption to tenants, and returning value to owners and investors, which increases retrofit uptake
- Ability to include social, environmental, and economic outcomes, (often including maintaining affordability); individual owners must adhere to these outcomes to participate in programming
- Stimulate and aggregate demand, which in turn creates local economic activity and jobs
- Ability to tie in with a regulatory framework (building codes, equipment standards) due to localized nature of market development teams

Challenges

- Tends to serve a specific market segment or geographic region, meaning that a network of market development teams are required to service all of Canada
- Tends to work best with buildings with similar retrofit pathways and approaches
- Requires public investment to establish and maintain market development teams, which is usually separate from program funding set aside for capital projects

ILEO RETROFIT ADVISORY GROUP Concierge Model / Market Development Team Case Studies

TAF

The Atmospheric Fund is a regional, NFP climate agency that invests in low-carbon solutions for the GTHA. Funded by endowments, it was originally created to combat climate change and improve air quality in Toronto. It provides a carbon emissions inventory, impact investment, direct grants, and programs, including the <u>Retrofit Accelerator Program</u>, which helps building owners reduce carbon emissions and improve their housing via expert services to deliver deep energy retrofits in the MU sector.

Key Insights

- Collaborates with building owners, utilities, governments, residents, and other stakeholders to maximize health, social, environmental, and economic outcomes
- Acts as a partner throughout the retrofit process
- Stimulates and aggregates demand
- Facilitates access to and structuring of funding and financing, including navigating and increasing uptake of funding programs
- Standardizes project delivery and procurement to reduce costs
- Plans and coordinate project delivery
- Provides accountability for social, environmental, and economic outcomes

PEMBINA institute

Reframed Initiative is a market development initiative of BCNPHA, the City of Vancouver, Metro Vancouver Housing Corporation, and the Pembina Institute. It brings together the construction industry, building owners, policy makers, and the financial sector to scale deep retrofits through a demonstration project with 6 MU buildings throughout BC.

Key Insights

- Seeks to demonstrate retrofits that integrate energy efficiency, decarbonization, seismic safety, and climate adaptation
- Scale-up solutions that keep rent affordable, minimize disruption to tenants, and return value to owners and investors
- Uses collective problem solving and exploratory pursuit through workshops to develop repeatable schematic designs for retrofits that integrate co-benefits
- Invites public to participate in design sessions as deep retrofit solution providers
- Dropped "energy" from "energy retrofit" to expand bounds of what can be achieved via retrofit



In an effort to build a systematic and modular approach to affordable deep energy retrofits, the **<u>ReCover Initiative</u>** seeks to develop a market for the Energiesprong model. Through their work, research and lessons learned in Nova Scotia, they are building a community to enable the acceleration and scaling of solutions to address climate change and build a sustainable economy.

Key Insights

- Faster and less disruptive than a traditional retrofit; occupants can remain in-home
- Following a systematic process reduces risk to contractors and cost to owners
- Emphasis on local production
- Sharing research and lessons learned is key to their mandate; operate as an "open source" organization
- Focus on low-rise multi-family buildings because of their prevalence, simple structures, and uniform window sizes in Nova Scotia
- No funding model to accompany EnergieSprong; a thirdparty funder or financial institution needs to prioritize this to enable scaling
- Looking to ensure that the work does not promote rent increases and that vulnerable populations can remain i68 place

Clustering refers to **identifying buildings in proximity that are of similar construction, building typology, and age in order to introduce a range of deep retrofit measures and upgrades within the cluster**. The approach has the potential to harness various economies of scale, bring in additional building owners, and demonstrate projects of best practice.

Clustering tends to be best suited in neighbours where the building age and type of construction are similar. Benefit are amplified when demographics and affordability are similar, as it supports with outreach and generating understanding/acceptance.

Strengths

- Develops larger local markets to demonstrate and scale the use of technology and its benefits
- Can catalyze energy sharing/district energy approaches due to their proximity
- Can phase development across multiple sites, which could minimize the disruption caused by relocation
- If buildings are clustered together, there is an opportunity to coordinate site design, which may enable better community design via coordinate use of community benefit funds
- Can harness the benefits of engaging in longer term labour contracts and larger supply acquisition

Challenges

- May take longer to get group participation and buy-in on common approach
- When an owner has multiple properties in a cluster, the economic and logistical requirements are challenging to align given the varying asset management plans and equipment needs

Innovation Pilot Idea:

Could the municipality implement a "carbon budget" for clustered sites? For example, when a developer wants to add infill they need to retrofit their other building to keep within their carbon budget.

Affordability Covenants

In absence of a Stock Transfer, affordability covenants attached to contributions will need to balance both tenant and owner needs as it relates to rent and profit. Finding a balance that entices owners to act will be a delicate balancing act.

Learnings and Ideas

- Each state that harnesses the <u>US Department of Energy's</u> <u>Weatherization Assistance Program (increases energy efficiency of</u> low-income households, reducing their energy costs), have their own affordability covenants. Some states mandate that landlords can never increase rent as a result of improvements made by WAP while others have time limits (12-24 months for rent stabilization)
- City of Toronto's <u>Hi-RIS program</u> requires that property owners agree not to apply for any rent increases above the guideline as identified in connection with any improvements funded through the Program, however they do not have any rules re: vacancy decontrol
- Proformas in Ontario assume vacancy decontrol (10-15% yearly turnover which moves rent to AMR). Affordability covenants attached to Retrofit Funding could mandate a prorated rent upon turnover, which would mimic the portion of the building that does not turnover very often.

Further Questions

- Is there a reasonable allowable rent uplift for owners?
- Is there a role of long-term rent supplements which provide more stability to revenue then market rent?

Owner Motivation

Different owners and building types will have different motivations for decision making. Below are some considerations when thinking about attracting owners to undergo deep retrofits that maintain affordability:

Early adopters will likely need to be actively approached. Consider owners who:

- Have stated ESG targets
- Have deep roots in the community and want to continue to have a positive reputation/legacy
- Are 3rd/4th generation owners who want to maintain their buildings so they can keep them within their family
- Opportunistic early adopter as those who were already planning to spend money on other upgrades. For example, a roof upgrade cannot harness CIB funding but it can be covered should it be part of a solar panel upgrades. Also, even when certain elements aren't end of life, could use logic that adopting deep retrofits can reduce projects costs AND net present value of the projet.

The Government will play a key role in adoption. Consider how every level of government can play a role in:

- Providing support with benchmarking to identify both the work and potential savings
 - Ex. City of Toronto's <u>STEP Program</u>, which does a high-level inventory of building components, systems, and condition assessments and recommends energy conservation measures
- Setting regulations and ensure there is clear information symmetry and dissemination regarding penalties for not meeting performance standards and not reporting.
 - Vancouver and Toronto have announced but not yet enforced regulations
- Elevating information about incentives and costs/benefits as well as providing roadmaps in one easy to access location, to reduce cognitive overload and motivate action, which should include technology specific archetypes citing expected savings, cost, and return on investment (ROI).
- Develop educational materials for different audiences including condominium boards, building owners etc.
- Collect and disseminate project results using consistent metrics

Additional Considerations

Innovative ideas have been raised about additional partners and contexts that can catalyze or set the conditions for the models we are testing to thrive.

Additional catalyzers

- Incremental payments from energy savings to installation and/or construction-allowing for distribution of risk and better retrofits
- **Beneficial insurance implications-** improvements lower building risk in a variable climate, risk costs are starting to influence business cases.
- **Connect with engineering firms and HVAC companies** who have connections to owners
- **Economies of scale-** can increase savings and net present value of projects when deep retrofits are added to other upgrades
- Support for owners to capture any additional income stream from retrofits via proactive support with monitoring/reporting and supporting in recoup of investments, including factoring energy savings into financial statements and assessments to reassure shareholders
- Investment recovery via utility bills (e.g. on-bill financing)
- **District Energy Centres,** which would reduce costs of emissions reductions for individual buildings via economies of scale while freeing up capital for other projects.
- Enabling infill development in conjunction with retrofits
- Alternative capital from impact investors or health funds

Ways we may test (now or in the future)

- Including retrofits and affordability planning when building transit oriented communities
- Creating 'regulatory sandboxes' in neighbourhoods with big unfractured investments. These would allow governments to experiment with new rules and regulations in order to test what works and adopt the best solutions. These are frameworks that make it possible to trial new business models in practice by relaxing rules and regulations on a trial basis in order to permit them to develop. Examples of this could be Opportunity Zones that test tax credits (see Tax Credit Iteration Signals).

Perceived and Actual Tenant Harms from Retrofits

Despite the potential for a range of benefits for tenants resulting from deep retrofits, potential harms do exist and must be mitigated.

Although there are many tenant benefits associated with deep retrofits, potential harms include:

- Disruption and inconvenience to daily living due to noise, contractor access needs and potential temporary relocation requirements
- Feeling a lack of control or understanding related to work done on their homes
- Deepening distrust between landlord and tenant
- Risk of above guideline rent increases, impacting the affordability of unit
- Increased bills due to installation of new HVAC systems (e.g. heat pumps, cooling systems, etc.)

When tenants are unhappy it can not only lead to budget increases of 5-20% but it can also impact the landlord's reputation, which can impact business further down the line.

Facilitating a Positive Tenant Experience (1)

Deep retrofits with tenants in place is possible but intentional and sufficient tenant engagement and considerations are necessary to ensure projects stay on time and on budget and that tenants maintain a strong sense of security. Below are overviews of some well documented mechanisms for achieving a positive tenant experience:

Tenant Engagement Strategy

- <u>A strong tenant engagement strategy</u> for the entire duration of the retrofit (including planning) can be a requirement to achieve funding to ensure tenants are equitably and accessibly considered and consulted throughout the project lifecycle. This includes in detailed communication re: expectations, scope, timelines, tenant prep, etc.
- <u>Spending on tenant engagement strategies</u> should be eligible for funding
- <u>A tenant stakeholder group</u> can be a key element to the strategy. They can be collaborators (help choose contractors), champions (share benefits and spread the word with other tenants) and support the tenant liaison

Tenant Liaison

- <u>A tenant liaison</u> is a member of the retrofit team that works directly with tenants and the construction team through the retrofit to keep them informed, sequence activities and timelines, and minimize impacts on tenants through planning and communication. They work to understand and address tenant concerns and work to accommodate special needs and scheduling by ensuring tenants are being considered throughout the project scope
- Having a <u>tenant liaison requirement</u> and ensuring this position is eligible for full funding can support more positive tenant experiences

Facilitating a Positive Tenant Experience (2)

Deep retrofits with tenants in place is possible but intentional and sufficient tenant engagement and considerations are necessary to ensure projects stay on time and on budget and that tenants maintain a strong sense of security. Below are some well documented mechanisms for achieving a positive tenant experience:

Hiring contractors with tenant lens

- <u>Ensure contractors</u> <u>have experience</u> retrofitting with tenants in place
- Include "<u>minimize tenant disruption</u>" in design terms of reference
- Get clear <u>codes of conducts</u> from workers and ask how these are enforced on site
- Include <u>tenant liaison role in</u> <u>contractor requirements</u> via the project tender documents

Pre-fabrication and efficient installs

- Do as much <u>offsite fabrication</u> as possible allowing for quick installation to minimize noise and vibrations
- Try to do <u>same day installs</u> by pairing trades to reduce the number of unit
 entries required
- Accessing a unit for eight hours on one day is often preferred to twice for four hours over two days

Swing and back-up spaces

- When units need to be accessed, consider <u>having swing spaces</u> that can be used by tenants. These could be empty units or modular spaces outside the building
- Consider providing <u>meal vouchers</u> for nearby cafes so tenants have somewhere to go for to go for respite from the noise
- Prepare a weekly <u>schedule that</u> <u>includes additional backup units</u> if a tenant could not accommodate access on the scheduled day

Facilitating a Positive Tenant Experience (3)

Deep retrofits with tenants in place is possible but intentional and sufficient tenant engagement and considerations are necessary to ensure projects stay on time and on budget and that tenants maintain a strong sense of security. Below are some well documented mechanisms for achieving a positive tenant experience:

Tenants of Communication

- Communication between property management, construction company, and tenants before, during, and after retrofit, should focus on the following information:
 - Overview of the renovation, including timeline
 - Contact information of point-person and/or social media site to air concerns/provide input
 - Requirements for tenants to prepare for the retrofit
 - Implications of construction process on health
 - Impacts on energy performance
 - Co-benefits of the retrofit (affordability, health, aesthetics, thermal comfort)
 - Information on how to use equipment post-retrofit
- Written materials should be translated into commonly spoken languages; employ a tenant to do the translation if possible

Mechanisms to Maintain Affordability (1)

Our group has been exploring ways to fill the financial gap for retrofits to prevent landlords needing to recoup costs via rent uplifts. Despite filling this gap, we still need to explore other motivating factors for landlords to undergo retrofits AND maintain affordable rents.

Affordability covenants

- Public grants and low-cost financing may be tied to affordability covenants for a set number of years. Typical formulations include:
 - <u>Tenant-focused</u>: x% of tenants at or below a set income level
 - <u>Rent-focused</u>: x% of units are at "affordable" rents; rents remain fixed; rents remain within a set range, rents can increase by x% with turnover
- "Affordable" is typically defined as either 80% of MMR or 30% of tenant income
- It has been speculated that mission-oriented developers or owners subject to additional affordability criteria are those that primarily engage with covenants. *How do we make covenants more appealing to other landlords?*

Examples

Efficiency Nova Scotia: rebates covering up to 80% of costs for specific energy efficient interventions for affordable multifamily units, rents are to be maintained as affordable for 12 years

City of Toronto Deep Retrofit Challenge: grants up to 25% of project costs (up to \$500k), cannot apply for above guideline rent increases <u>Minneapolis 4d Affordable Housing Incentive:</u> 40% reduction in tax rate on qualifying units, 20% of units are affordable for households making 60% of median income for 10 years

Mechanisms to Maintain Affordability (2)

Our group has been exploring ways to fill the financial gap for retrofits to prevent landlords needing to recoup costs via rent uplifts. Despite filling this gap, we still need to explore other motivating factors for landlords to undergo retrofits AND maintain affordable rents.

Shared savings

- When tenants pay for energy use, some sort of shared incentive between landlord and tenant may help compel landlords to invest in retrofits
- When owners pay for energy use, landlords may demonstrate how utility savings benefit tenants
- Shared saving agreements may be done through lease structures, making them relatively simple to implement
- These agreements enable owners to spend money on efficiency improvements and recoup costs by raising rent by a certain percentage of realized energy savings passed on to the tenant

Examples

New York City: owners' capital expense can be passed on the tenant for up to 80% of predicted utility savings in a given year, tenants therefore receive savings of +/-20% Efficiency Nova Scotia: offers on-bill financing for energy efficiency upgrades, tenants are then supported to negotiate a reduction in rent equivalent to all or part of the on-bill financing

Considerations when Considering Affordability Mechanisms

The response to affordability mechanisms are as nuances as the owners we need to adopts them. Below are some considerations as we work to tie affordability levers to deep retrofit support.

To consider in general:

- There is no set understanding of the relationship between incentive and covenant. It differs depending on the building and owner.
- The larger companies like REITs are less likely to engage with covenants associated with low-cost financing as they likely already have capital available. They tend to limit their participation to grants.
- Affordability covenants must directly speak to the objective of the program, such as contributing to the Affordable housing stock, ensuring existing tenants are able to remain etc.
- Covenants are both financially and psychologically fettering so must be worthwhile. Public funding must be sufficient to generate reasonable uptake.

To consider when thinking about early adopters:

- The pioneers would likely be mid- to large-sized owners with ESG requirements and a critical mass in the area, but not REITs (i.e. Oxford). Smaller owners may be late adopters because of fear/uncertainty, or, if they were to adopt early, would need significant support
- The pilot must be implemented alongside a push for a comprehensive framework to support deep retrofits that maintain tenant security via a variety of regulatory mechanisms such as energy disclosure, low-income energy programming, energy benchmarking, recommended updates to the RTA etc.

Ontario's Regulatory Framework (1)

One of the reasons why tenants are hesitant to support a retrofit is a fear of above guideline rent increases and/or eviction. In Ontario, the existing regulatory framework outlines legal protections with respect to rent control, eviction, and renovation/repairs. It protects from major rent increases in existing units but upon unit turnover there are no legal protections to maintain affordability.

Rent control

- <u>Rent can only be increased once in a 12-month period</u>. The rent increase must come at a minimum of 12 months after the last legal rent increase or when tenancy began. 90-day notice must be given to the tenant.
- <u>The yearly rent increase is limited to a set guideline.</u> For 2023, this increase is 2.3%. <u>This does not apply to new units</u>, additions, or buildings (built after Nov 15 2018) <u>or when the unit turns over.</u>
- Landlords can apply to the Landlord and Tenant Board for an <u>Above Guideline Increase</u> under certain conditions, including significant renovations, repairs, and replacements to the building or units. <u>If the renovation is eligible (i.e. is not cosmetic and is</u> done to increase accessibility or conserve energy), the landlord may be allowed to <u>increase rents by an additional 3% above the</u> <u>yearly guideline for up to 3 years.</u>

Eviction and renovation/repairs

- Landlords are permitted to renovation/repairs during a lease if the repairs are not overly disruptive.
- If a landlord choses to undergo major repairs, the <u>tenant may be</u> <u>temporarily evicted with 120 days notice</u>. They are entitled to return to the same unit at the same rent upon completion of the renovation.
- If the building has 5+ units, <u>the landlord must compensate the</u> <u>tenant for vacating the unit</u>.
 - If the tenant plans to return, the landlord must pay the equivalent rent for the duration of the renovation, up to 3 months.
 - If the tenant does not plan to return, the landlord must pay this amount or offer another acceptable rental property.

• Tenants can challenge an illegal rent increase.

Ontario's Regulatory Framework (2)

In 2022, the City of Toronto has put forward <u>recommendations</u> for Council, the Province of Ontario, and the Federal Government to prevent renovictions.

Amendments to the Residential Tenancies Act

- <u>Require landlords to find temporary accommodation</u> for their tenants if they need to leave a unit so that it can be repaired or renovated, and the tenants intend to move back post-repair/renovation
- Provide the same rights afforded to tenants in buildings with five or more units to those in buildings with less than five units
- <u>Re-introduce rent control</u> to cover units occupied after Nov 15 2018
- Amend AGI rules to make expenditures that are necessary to address non-compliance with municipal property standards/municipal orders around health, safety or maintenance standards to be ineligible for AGIs
- Require landlords to provide tenants with clear, detailed information about the scope of work to be performed on a rental unit well in advance of it being carried out, and to provide evidence of actual costs incurred, in order to be eligible for an AGI

Other Recommendations (not exhaustive)

- That the Government of Ontario to establish a centralized data system and rental registry
- That the Federal and Provincial governments to establish acquisition programs to create permanent affordable rental homes