

Session 411: Mastering maintenance with the principles of good debt

Using Energy Performance Contracting to finance backlog maintenance, lifecycle replacements and fund asset expansion

Presented by: Stuart Galloway, Espirito Corp. & Joe Valente, Ameresco Canada

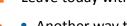




Key take-homes from today



Leave today with:



- Another way to address backlog maintenance, rising utility costs and lifecycle replacements
- Save money for more optimal deployment within the organization
- Improve service delivery for tenants

AND

De-risk all of the above for the Non-Profits

Introductions



Stuart Galloway leads the Capital and Infrastructure Project Solutions national practice looking at projects across Canada and provides all the necessary advice and expertise of over 25 years in

Infrastructure and project finance. Stuart has worked closely with the Non-Profit housing sector across the entire continuum since 1996, working in both the UK and Canadian markets. Stuart has a passion for creating affordable housing solutions and is actively involved across the Country with various organizations that look to him to assist in realising their project ventures, drawing upon both his technical and finance skills to offer solutions and deliver them.





Joe Valente is Vice President, Business Development for Ameresco Canada. Over the last 20 years, he has assisted clients in the Non-Profit, Municipal and Higher Education sectors in

identifying and addressing their most pressing facility needs through guaranteed capital creation strategies designed to ensure the long term viability of their assets. Joe has helped to develop and implement facility improvement strategies throughout North America, using energy and operating savings to fund these improvements.



"Places Enabling People"

Landscape



Significant Facts About the Housing Non-Profit Sector in Ontario

- A large NP sector in Ontario, operating circa 223,000 units of long term affordable housing:
 - Number of Private NP units: 83,165
 - Number of Municipal NP/Local Housing Corporation units: 140,720
- Number of households on NP waiting lists: over 156,000
- ONPHA represents 70% of these units across 770 members
- The sector is diverse and NPs differ in resources and capabilities
- Sector is fragmented, 70% managing less than 100 units
- Sizeable assets across the collective
- Ageing stock with the majority built before mid-80s
- · Sector faces uncertainty over its future sustainability

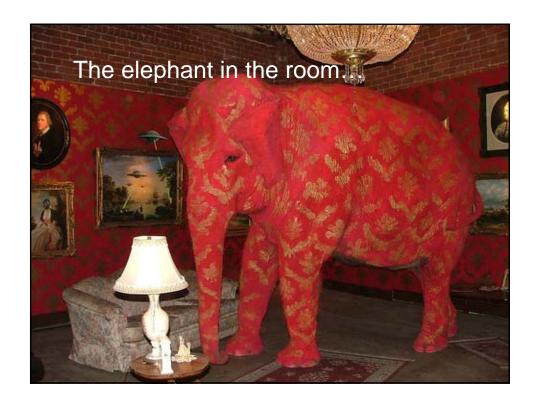
Landscape

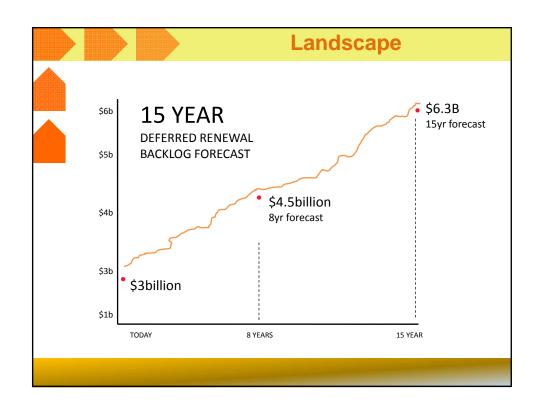


Common Challenges Facing All



- Increasing demand for good quality housing supported by growing waiting lists
- Demand for greater diversity of affordable housing
- Aging units and mounting backlog repairs Double by 2030!
- · Operating costs which outstrip rental income
- Significant concerns over the potential impact of ending operating subsidies
- Rising energy cost Operating cost pressures



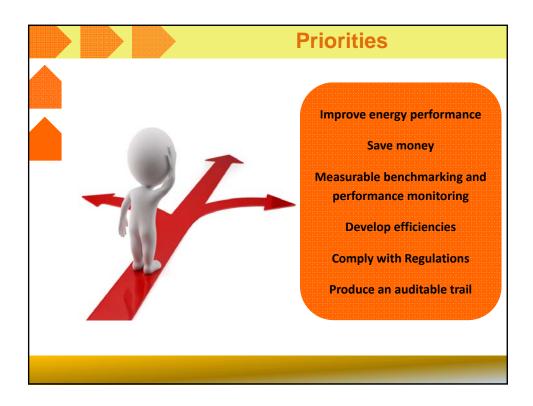




Consequences

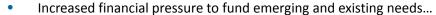


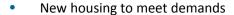
- Health & Safety, increased risks and tenant dissatisfaction
- Building system failure, facility closures, lost revenue, displaced tenants
- Sub-optimal, inefficient, carbon intense building environments with comfort issues for tenants
- Building fatigue, reduced community pride, increased vandalism, increased operational costs, hampering of future growth
- Facility functionality, unable to meet trending demands, waste in the "system"
- Lost opportunity to increase present value of assets
- Wasting money on utility costs that could be spent by the NP



Catalyst for Change?







- Unfunded deferred renewal growing
- Lifecycle replacements

Quality of Housing Asset Condition Risk

- Decline in the quality of affordable housing environments
- Avoidance of closures

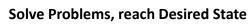
Creation of Jobs from within the Community

- 15,000-30,000 new jobs
- Reduce the demand



Mortgaging our Future

What If?

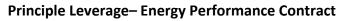


- Use operational cost savings to generate capital
- Solve the maintenance problem that has been accumulating for decades
- Reduce energy demand, consumption and CO₂ emissions
- Accelerate the Housing Agenda Using new technology to create more comfortable, more reliable accommodation
- Reduce our waiting lists, give people hope of advancement

What If

.... We could do all this within our current spending parameters?

Plan to Succeed

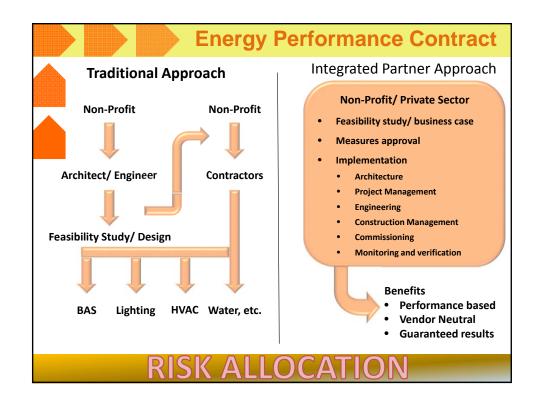


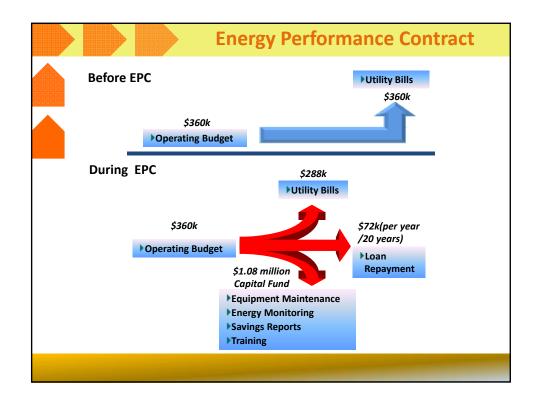
- Identify and measure operational and energy cost savings potential
- Implement energy savings measures; lighting, HVAC, water conservation, waste reduction, power generation, systems management

Additional Incentives

- Leverage and bundle capital creation strategies
- Look at methods to generate capital through existing operational budget
- Joint initiatives, collaboration

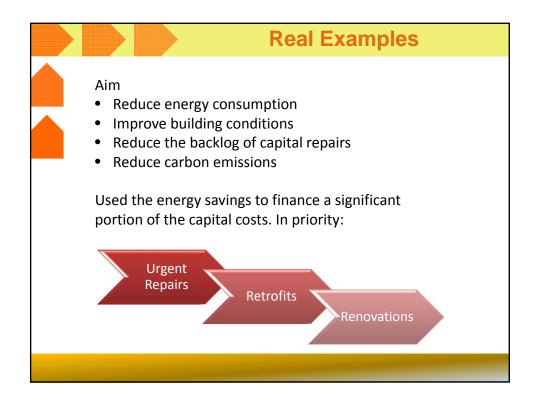




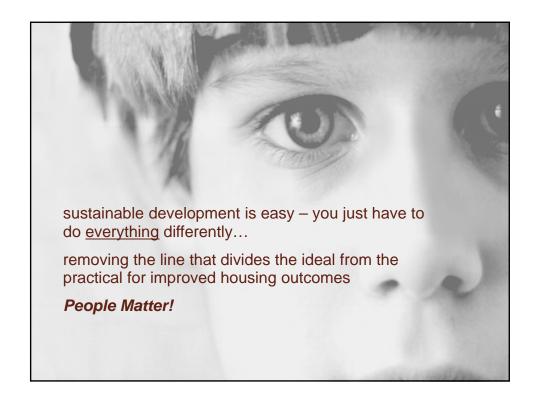


Energy Performance Contract

- Alignment of stakeholders to a common focus and purpose...galvanize the coalition
- Public sector and private sector finance
 - Ratio 1:3
 - Blended interest 3.2%
 - Repayment term 20 years
- Repayment of the loan is through annual Energy cost savings that are identifiable, measureable and sustainable.









Real Examples

TCHC

Project Scope – 10 Developments Project Value - \$60 million Timeframe – 4 Years Annual Savings - \$1.1 million pa

Potential Capital Fund - \$20 million

Tenant engagement is a vital component of the Building Renewal Program. Tenants contribute their ideas so that priorities can be set within the renewal section of the Building Renewal Program.

BC Housing

Project Scope – 2,865 units Project Value - \$62 million Timeframe – 3 Years Annual Savings - \$1.1 million pa

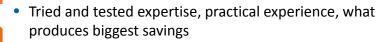
Potential Capital Fund - \$20 million





Why the Private Sector?





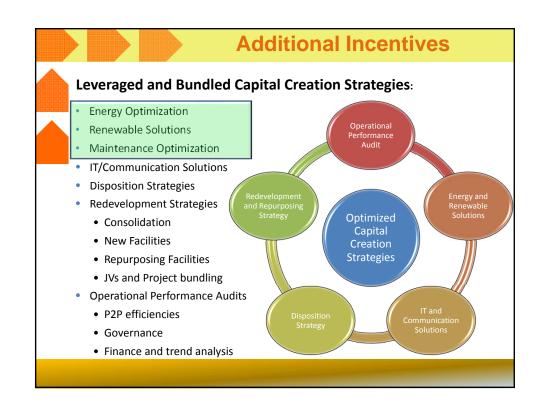
- No up-front costs for NP surveys, design, build, measurement
- Performance Risk Private sector ensures no project cost overruns and is responsible to ensure that building systems operate to intended design and operation
- Construction Risk Private sector is responsible to bond the entire project cost that will mitigate any financial risk between main contractor and the project sub-trades and product providers.

Why the Private Sector?



- Performance energy saving guarantee to repay capital loan –
 private sector guarantees and is responsible to ensure the
 energy savings generated each year meet loan obligations. If
 there is a savings shortfall the private sector bridges the gap
 and pays the shortfall.
- Identification and application for Grant funding
- Protocols/ reporting to audit and measure financial performance to ensure the projects are performing

Important: The NP remains in full control of all decisions: sites selected, what project measures are selected, products, sub trades etc...





Benefits of EPCs



The results of EPC's can be far reaching, especially when combined with a performance audit on operations:



- Comprehensive database of assets and lifecycle replacement profile
- Detailed understanding of organization's spend profile
 - Benchmarking
 - Identify trends, further efficiencies
 - Better accountability, financial tracking Economy, Efficiency and Effectiveness
 - Predictable spend more accurate budgeting less waste
- Significant utility reduction and CO2 emissions
- Full financial accountability and performance guarantee to repay capital loan

Benefits of EPCs (continued)



- Provide an opportunity to assess performance trends against predefined measures
- Offer opportunity to introduce course corrective measures on a timely basis
- Identification of areas of strength and enable organization to build on these
- Enable identification of direct savings as well as process efficiencies from which plans to implement these can be developed
- Assessment of key asset performance indicators, tenancy indicators and operational indicators as well as benchmarking against peer groups
- Better quality, more reliable housing stock
- Safe and healthy tenants
- Significant reduction in deferred renewal challenge

