GREEN HOMES SUMMIT

Strategies to achieve sustainability in multiunit residential buildings session

Next Generation MURBs
Challenges and Opportunities

January 28, 2016

Prepared by:
Subhi Alsayed
About Tridel

Eight Decades of Home Building. Over 80,000 Homes Built. Tridel Communities are Built Green. Built for Life.®

Quality  Built Green  Innovation  Giving Back
About Tridel

The largest LEED builder in the high-rise MURB sector in Ontario

- Of Construction Waste Diverted on Tridel sites: 90%
- Of LEED MURBS in ONTARIO Are Tridel buildings: 25%
- Average Energy & Water Use Reduction In a typical Tridel building: 40%
About Tridel

LEED Platinum Candidates

AQUALINA
AT BAYSIDE TORONTO

AQUAVISTA
AT BAYSIDE TORONTO
Innovation in Sustainable Green Buildings?

Financial Innovation

Technology Innovation

Foundation: Quality Build
Innovation Program

Maintains Tridel’s strategic competitive advantage in the green real-Estate market

Internal R&D

External Tech Innovation
Tridel & Tower Labs

External Innovation

Founded in 2010. Not for Profit
Innovation, Emerging Technology

Seed Fund/Investment

Demonstration Projects

real estate owners/developers
Innovation Risk

Builders
Contractors
Investors
Designers

Collaboration
Stakeholders
Performance Verification
Scale

De-Risk Innovation
Stakeholders Engagement
Key Innovation Projects
**Key Innovation Projects**

Ventilation Evolution in High Rise residential buildings.
Key Innovation Projects

view Dynamic Glass
Key Innovation Projects

Carbon Cure Concrete
Key Innovation Projects

Balcony Slab Thermal Break
Key Innovation Projects

Community Gardens – Aqualina Rooftop
A NetZED home produces as much energy as it consumes.
THE CONCEPT

netZED suite
Sustainability Value Proposition—Home Owners
Sustainability Value Proposition – Home Owners

Performance: Code vs LEED

Comparison of the last OBC building to the 1st LEED Building

Utility consumption was lower by:

- Natural Gas < 50%
- Res Electricity < 18%
- Comm. Elect < 7%

24 Months of Utility Bills Data

2009/2010

International Performance Monitoring and Verification Protocol

(IPMVP) Option C and D
Sustainability Value Proposition—Builders
Sustainability Value Proposition—Builders

Quality

- Good Quality Build
- Comfortable to Live in
- Equipment Operates as Intended

Green rating systems, such as LEED, are bringing back the old ways of doing things RIGHT the FIRST time
Sustainability Value Proposition—Builders

Integrated Design
Integrated Build

Cost Reductions and Operational Efficiencies
Sustainability Value Proposition—Builders

Differentiation

SMART Buildings
Sustainability Value Proposition—Builders Differentiation

SMART Buildings

Control-Convenient- Empowerment- Behavior Change
Sustainability Value Proposition—Builders Differentiation

Climate Change Adaptation
Sustainability Value Proposition—Builders

Differentiation

Toronto, July 2013

Climate Change Adaptation

Toronto, December 2013
Abundance of Building Technologies

Re-Think How Buildings are Designed and Built
THANK YOU