One Planet Living
Successes at Zibi

Toronto Green Homes Summit      January 2016
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Roadmap

2. OPL – Aligns Project Stakeholders
3. OPL – Green Distinction
4. OPL Principles in Action – Water and Carbon
Zibi: one of the world’s greenest communities
Zibi by the Numbers

$1.2B
Development

37
Acres

3
Islands

2
Provinces
Key players

Real Estate Development
- Urban infill
- Sustainable
- Communities

Real Estate Advisory Services:
- Faith Lands
- Development Lands
- Campus Lands

Micro-Utility Development
On-site renewables-based micro-utilities
One Planet Living = Green Distinction
Only 12 OPL Projects Worldwide

12 Worldwide

2 United States

1 Canada - Zibi
OPL Aligns Stakeholders

- Inner Circle
- Municipality of Gatineau
- City of Ottawa
- Province of ON
- Province of QC
- Hydro Ottawa
- Hydro Quebec
- Algonquin-Anishinabe people
- Krueger Paper
- BioRegional
- Local residents

Developer
Investor
Consultants

Extended consultation

Typical stakeholders
One Planet Living

A vision of a world in which people enjoy happy, healthy lives within their fair share of the earth’s resources, leaving space for wildlife and wilderness.
OPL Framework

- Health and happiness
- Equity and local economy
- Culture and community
- Land use and wildlife
- Sustainable water
- Local and sustainable food
- Sustainable material
- Sustainable transport
- Zero waste
- Zero carbon
Health and Happiness
Encouraging active, sociable, meaningful lives to promote good health and well being
Healthy Living
Equity and Local Economy

Creating bioregional economies that support equity and diverse local employment and international fair trade
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Innovation Hubs

Industrial Core Innovation Zone
Noyau Industriel zone de l’innovation

District Z Innovation Zone
District Z zone de l’innovation

Albert Island Innovation Zone
Île de Albert zone de l’innovation
Culture and Community

Respecting and reviving local identity, wisdom and culture; encouraging the involvement of people in shaping their community and creating a new culture of sustainability.
Culture + Heritage
Land Use and Wildlife

Protecting and restoring biodiversity and creating new natural habitats through good land use and integration into the built environment.
Access to Waterfront
Sustainable Water

Using water efficiently in buildings, farming and manufacturing. Designing to avoid local issues such as flooding, draught and water course pollution.
Local and Sustainable Food
Supporting sustainable and humane farming, promoting access to healthy, low impact, local, seasonal and organic diets and reducing food waste
Sustainable Material

Using sustainable and healthy products, such as those with low embodied energy, sourced locally, made from renewable or waste resources.
Sustainable Transport
Reducing the need to travel, and encouraging low and zero carbon modes of transport to reduce emissions
Zero Waste
Reducing waste, reusing where possible, and ultimately sending zero waste to landfill
Zero Carbon

Making buildings energy efficient and delivering all energy with renewable technologies
District Energy System
Zibi is a Complete Community
OPL Principles in action: Carbon and Water
Water Value Proposition

Potable Water Use
L/person/day

Baseline
35% more eff fixtures
50% more efficient irrigation
Non-Potable for 100% flush volume

OPL Target
125

Lowest Global
90

0 50 100 150 200 250 300

Baseline
35% more eff fixtures
50% more efficient irrigation
Non-Potable for 100% flush volume
Water Value Proposition

Flushing Demand: 55 L/p/d

Rainwater Supply: $0.7/sf

Greywater Supply: $2.0/sf

Riverwater Supply: $1.5/sf
Carbon Neutral Value Proposition

Drive Energy Demand Down

- Community Baseline: 240
- Efficient Building: +145
- Energy Management: +128
- Carbon Neutral: -128

Source: Carbon Neutral Supply

- Kruger Waste Heat
- biomass fed boilers
- run of river hydro
- sewer heat recovery
Carbon Neutral Value Proposition
OPL: 20-Year Commitment

ZIBI endorsed as OPL Community

Year 1 - We Are Here

Coming - 1st Annual Report

Beyond Bricks, mortar & utilities - Health, Happiness, Community Engagement over 20 years
Key OPL Take-Aways

1. Green Distinction
2. Stakeholders Aligned
3. Performance, not Prescription
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