DOCKSIDE GREEN

DOCKSIDE GREEN BIOMASS GASIFICATION SYSTEM
Project Description

- Customer: Dockside Green Energy LLP
- Location: Victoria, B.C. on the Upper Harbour
- Application: Residential/Commercial heating and hot water
- Nexterra Scope of Work: Turnkey gasification system
- Capacity: 7 MMBtu/hr
- Fuel Source: Locally sourced, clean urban wood residue
- Fuel Moisture Content: 20 - 55%

System Highlights

- Canada’s first urban gasification facility
- Air Emissions: 50% below BC Ministry of Environment’s most stringent requirements for particulate matter (PM)
- Noise: Meets City of Victoria noise bylaw (55 decibels)
- Dockside Green is one of 16 founding projects for Clinton Climate Initiative’s Climate Positive Development Program
- Dockside Green biomass plant is owned and operated through a partnership among Vancity Capital, Terasen Energy Services and Corix Utilities

Expected System Performance

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<tr>
<td>Annual Thermal Capacity (NG Equivalent)</td>
<td>74,000 MMBtu/yr</td>
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<td>Annual Savings</td>
<td>$400,000 - 600,000/yr</td>
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<td>Avoided CO₂ Emissions</td>
<td>3,460 tonnes/yr (expected load)</td>
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<td>Avoided CO₂ Emissions (Car Equivalent)</td>
<td>850 cars/yr</td>
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<td>Avoided CO₂ Tax ($30/tonne)</td>
<td>$103,800/yr</td>
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<td>Wood Fuel Trucks Required</td>
<td>60-100 trucks/yr @ 60% capacity</td>
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<td>Ash Production (recycled as compost)</td>
<td>220 tonnes/yr @ 60% capacity</td>
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“We are delighted with the results of Nexterra’s gasification system at Dockside Green and have had overwhelming interest from the general public and media. This is a premier showcase for clean energy technology in a truly sustainable urban development, and we applaud Nexterra on this important achievement.”

- Lee Davis, President and CEO of Vancity Capital
CONSTRUCTION PHASE
Dockside Green

Elevation Keynotes

1. Concrete - Painted Gray
2. Vertical Gutters/ Metal Siding
3. Vertical ProFile Metal Siding - Blue
4. Standing Seam Metal Roofing
5. Low-E Glazing - Natural or Light Green tint
6. 1/000 @ 7' 11" Bulbacks
7. Guardrail w/ Vertical Rails
8. Exhaust Stacks - Stainless Steel
9. Exhaust Louvers
10. Acoustical Intention Wall
11. Planter
12. Metal Stair Stringer - Painted Black
13. Building Lighting - Low energy high output industrial type fixture
14. Greenhouse Door
15. Main Door
16. Concrete Parking Screen Pony Wall
About Dockside Green Development
Victoria, British Columbia

Dockside Green is a 1.3 million-square-foot residential and commercial development in Victoria’s Inner Harbour, demonstrating the latest in sustainable design and best practices including green roofs, on-site wastewater treatment, and a biomass gasification district energy system supplying heating and domestic hot water.

Dockside Green’s sustainable features include:
- Highest rating LEED® Platinum
- Renewable heating and hot water
- On-site sewage treatment
- On-site car sharing and mini-transit system
- Energy-efficient light fixtures and EnergyStar rated appliances
- Selected by the Clinton Climate Initiative as one of 16 founding members of the “Climate Positive Development Program”

For more information:
www.docksidegreenenergy.com

About Nexterra Systems Corp.
Vancouver, British Columbia

Nexterra is a leading developer and supplier of advanced biomass gasification solutions that enable customers to self-generate heat and/or power inside-the-fence at institutional and industrial facilities using low cost biomass fuels. Nexterra’s strategic relationships include GE Energy, Johnson Controls and Andritz.

Projects include:
- Nexterra Product Development Centre (PDC), Kamloops, BC
- Tolko Industries Ltd., Heffley Creek Division, Kamloops, BC
- University of South Carolina, Columbia, SC
- Dockside Green Development, Victoria, BC
- U.S. Department of Energy (DOE), Oak Ridge National Laboratory, Oak Ridge, TN
- Kruger Products Limited, New Westminster, BC
- University of Northern British Columbia, Prince George, BC

For more information:
www.nexterra.ca