



WMABC

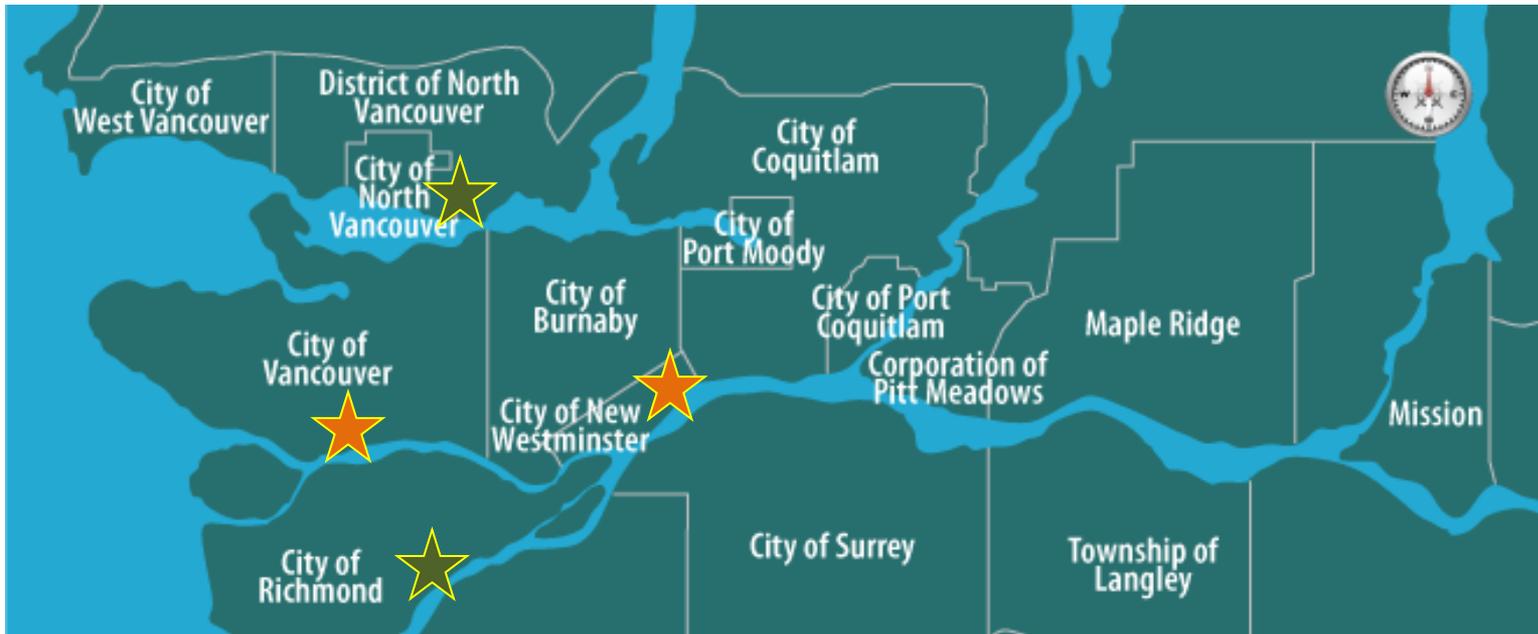
2018 Annual Conference

Presenters Peter Bissada & Steve Yli-Villamo

Introduction

- Harvest operates over 25 facilities in the US and Canada and processes over 2 million tonnes of material
- Winner of multiple awards including Clean Tech 100 Top Global Clean Tech companies, New Energy Pioneers award from Bloomberg and was named “One of the most innovative companies in the world” by Fast Company
- In the Metro Vancouver region, Harvest is a long-standing service provider turning waste into resources.
- In the last decade Harvest Power has acquired both of our wood processing sites: Urban Wood Waste as well as our SEI facility in Vancouver.
- Urban Wood Waste has been successful in produce biomass fuel from C & D waste for going on 20 years.

Sites and Services in the Lower Mainland



Food Scraps and Yard Trimmings



Construction and Demolition (C&D) Debris

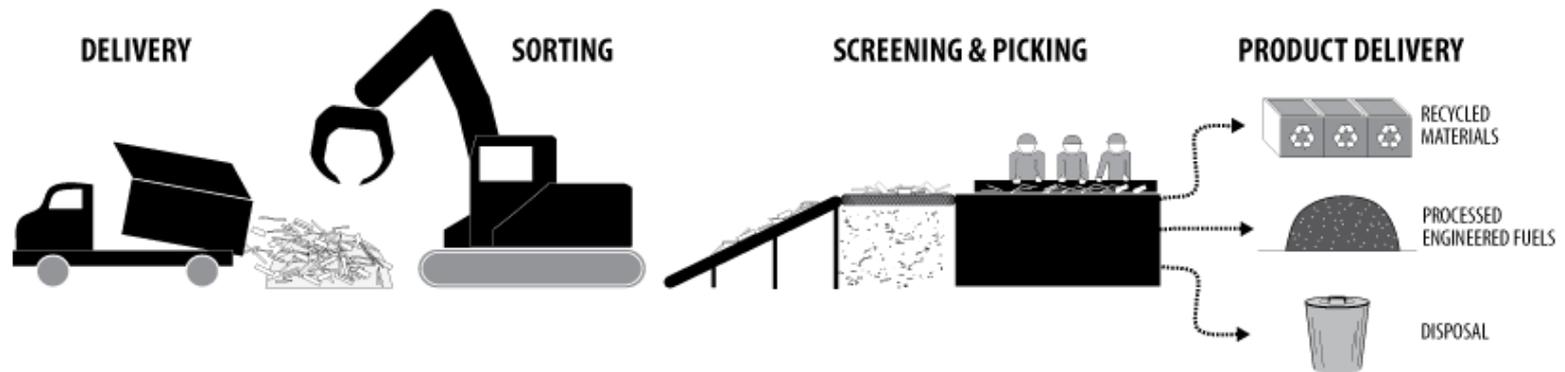
Providing Jobs



- Over 70 full time employees year round
- Dedicated staff with 13 staff members with 10+ years of service and additional 30 with 5+ years of service.
- Operations and site managers with 35 years off experience combined
- Diverting 55,000-65,000 MT of waste out of landfills per year



Material Flow



Turning C&D Materials into Biomass Fuels



- **Inbound**
 - Demolished Buildings and homes
 - New Construction
 - Renovations
 - Manufacturing
- **Outbound**
 - Clean processed Biomass
 - Fuels





LEED Certification

Our recycling processes qualify most construction and demolition projects for a credit under the Construction and Demolition Debris Management Planning section of LEED certification.

- We help keep materials local.
- We help divert materials from the landfill.
- We supply materials for reuse.
- Whether you're outlining your solid waste management plan or trying to reach diversion goals, we can help you meet your LEED goals.
- Every load tipped is given a detailed breakdown of the makeup
- Loads are broken down by percentage of recyclable materials and indicated on the scale ticket.

Challenges

Different challenges all year round

- Seasonal demands – We see peak inbound during spring/summer when demand for biofuel is low.
- During the winter demand for biofuels is at a high, and inbound is lower.
- Increase in comingled inbound (mixed material) in recent years has slowed down processing times
- Need to find ways to incentivize customers to bring cleaner material.
- Disposal of residual waste costs has increased with landfill costs
- Limited capacity due to license restrictions
- Resources are hard to find. With a boom in C&D in recent years it is a struggle to find equipment, people and transport.
- **Struggle to operate in Urban areas with high rises being built around the site and industrial land**

wood is good metal & cardboard, Too.



B



80% WOOD &
RECYCLABLES

SUPER SORTER

Keep up the great work. Almost everyone can fill most of the bin with wood, metal, and cardboard.



50-0% WOOD
& RECYCLABLES

F

M'EH. IN THE DUMP

If more than half of a load is garbage, there is very little that can be done to recover the recyclables. Look at your bin placement. Put up signage. Having regular meetings with your staff. Get your space sorted.



100% WOOD &
RECYCLABLES

A+

ALL STAR RECYCLER!

Source separation is key. Construction and demolition waste generators like you are sorting each piece carefully. This helps lower costs and increase diversion rates.

G



50-80% WOOD
& RECYCLABLES

NEED TO GET MORE PICKY

If half of a load is garbage, the system backs up and costs go up. No one wins. Shoot for a higher grade.

Contact

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