

2013 SYSTEM OPTIMIZATION COMMITTEE MEMBERS

Co-Chair	Albino Metauro	Cascades Recovery
Co-Chair	Dan Lantz	Cascades Recovery
Co-Chair	Das Soligo	County of Wellington
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	Tricia Berta	Canada Fibers
	Debbie Mowat	Canadian Liquid Processors
	David Yousif	City of Hamilton
	Bonnie Ballam	City of Toronto
	Luc Lortie	Costco
	Laurie Westaway	County of Peterborough
	Marina Pietrosel	Éco Entreprises Québec
	Mylène Fugere	Éco Entreprises Québec
	Emmie Leung	Emterra Environmental
	Paulina Leung	Emterra Environmental
	Ben Bennett	Municipal Waste Association
	Usman Valiente	Owens-Illinois, Inc.
	John Mullinder	PPEC – Paper
	Karyn Hogan	Region of Peel
	Kevin Mehlenbacher	Region of Peel
	Norman Lee	Region of Peel
	Paul Schutes	Recycled Paperboard Alliance
	Heather Mak	Retail Council of Canada
	Ronald Cotterman	Sealed Air
	Rick Denyes	Stewardship Ontario
	Carol Patterson	TDL Group, Tim Hortons
	Emma Rogers	TDL Group, Tim Hortons
	Mustan Lalani	Tetra Pak
	Christian Shelepuk	Walmart



PACKAGING MATERIALS RECOVERY SYSTEMS MAP

PAC NEXT is proud to present the Packaging Materials Recovery Systems Map. This map was created by our Systems Optimization committee to help package designers, decision makers, manufacturers understand the flow of packaging materials through the current collection and recovery systems and how design and material choices can impact overall recycling and recovery rates.

120+ Materials Identified

With over 120 materials identified to date by the PAC NEXT System Optimization committee, the number and quantity of materials being captured in today's recycling systems continues to grow. In October 2011, the System Optimization committee was commissioned with the task of developing a baseline process map of how the material recovery process and supporting infrastructure function today. The Packaging Materials Recovery Systems Map allows for a common understanding of what elements are included in the system.

Collection Methodologies

The process starts with the various generators or points where materials are discarded; each with a different discarded materials characterization. There are a number of collection methodologies available with some being more appropriate than others. The choice is dictated by convenience, cost and efficiency relative to the materials being collected.

The Processing Streams & Materials Recovered

There are two main diversion avenues: recycling and composting. Some recycling processes generate material mixes that require secondary processing. Through primary or secondary processing, materials are made market ready. A recovery opportunity also exists for materials not recyclable or compostable.

End Market

Market ready materials are sent for consumption by manufacturers. Materials going to Energy from Waste/Waste to Energy have their intrinsic energy recovered. All materials not recycled, composted or recovered ultimately end up in landfill.

The Packaging Materials Recovery Systems Map shows empty percentage fields to follow how materials flow through the system. It also shows that losses can be expected as materials flow through the system.

The Packaging Materials Recovery Systems Map is the first step in establishing preferred, efficient systems and the respective cost models, which will be developed as more data become available.

We thank all PAC NEXT members who collaborated on this project and provided their valuable input.

If you would like to receive more information and/or learn how to join the System Optimization committee, please feel free to contact us.

With thanks,

Albino Metauro
CASCADES RECOVERY
System Optimization Co-Chair
2011 - Present

Das Soligo
COUNTY OF WELLINGTON
System Optimization Co-Chair
2013 - Present

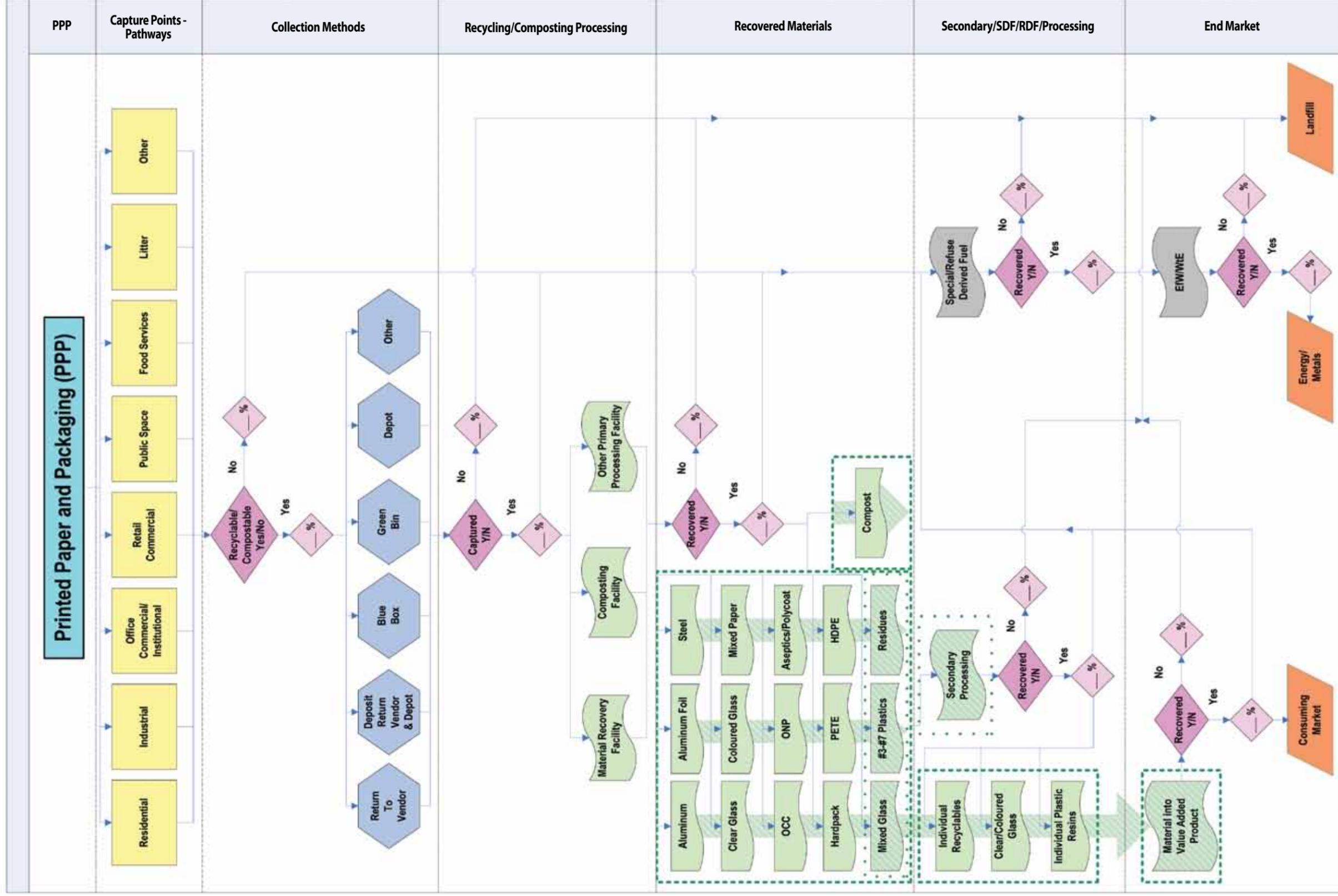
Daniel Lantz
CASCADES RECOVERY
System Optimization Co-Chair
2011 - Present

Norman Lee
REGION OF PEEL
System Optimization Co-Chair
2011 - 2012

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Packaging Materials Recovery Systems Map



ABBREVIATIONS:

- OCC (Old Corrugated Containers)
- ONP (Old Newsprint)
- PETE (Polyethylene terephthalate, resin code #1)
- HDPE (High-density polyethylene, resin code #2)

- SDF (Special Derived Fuel)
- RDF (Refuse Derived Fuel)
- EfW (Energy from Waste)
- WtE (Waste to Energy)