

Solid Waste Forecast FY 2017 – 18
Review of methods, process and results
January 19, 2017

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Director of Property & Environmental Services

Solid Waste Forecast FY 2017-18

www.oregonmetro.gov/solid-waste-forecast

Agenda

- 1. Purpose and Uses of the Solid Waste Forecast
- 2. Internal Review Process
- 3. Methods and Assumptions
- 4. Results
- 5. Question & Answer Period

Purposes of SW Forecast

1 Setting Solid Waste Rates



3 Establishing Allocation Bases



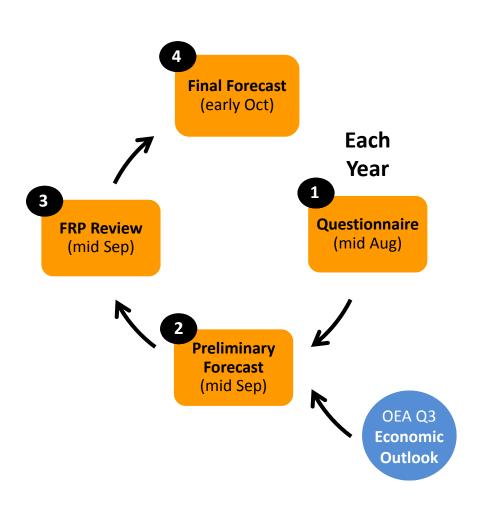
2 Estimating Costs & Revenues



4 Aiding Other Planning Functions

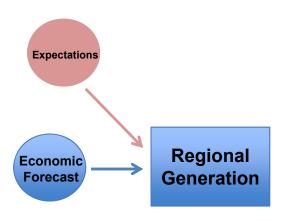


Review Process



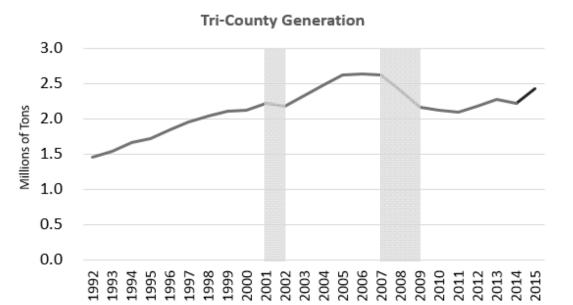
- Questionnaire
 - Distributed internally
 - Solicits key forecast assumptions
 - Forms basis for preliminary forecast
- 2 Preliminary Forecast
 - Based on Office of Economic
 Analysis (OEA) 3rd quarter economic
 outlook & questionnaire feedback
- **3** Forecast Review Panel
 - SW directors, Metro economist
 - Meet to review preliminary forecast
 - Forms basis for final forecast
- 4 Final Forecast
 - Distributed to all stakeholders

Methods & Assumptions Generation

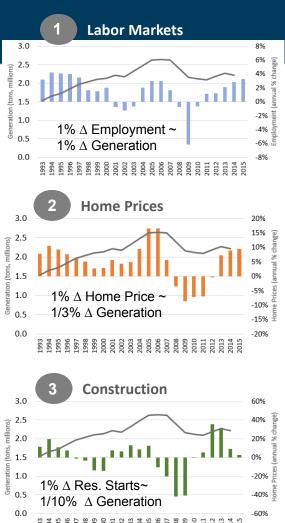


Methods & Assumptions

Generation



Sources: Oregon DEQ 2014 Oregon Material Recovery and Waste Generation Rates Report Metro Solid Waste Information System National Bureau of Economic Research

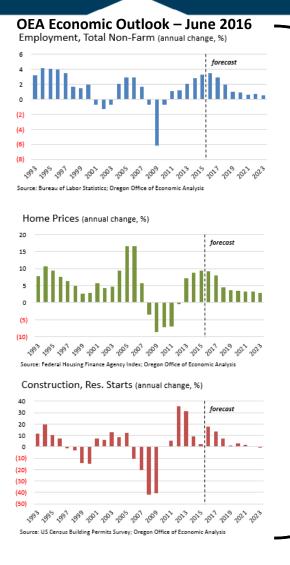


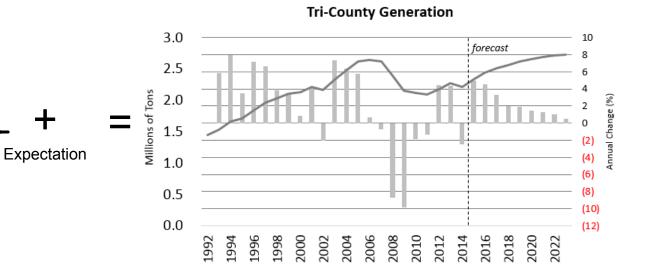
Sources: 1) Bureau of Labor Statistics (*Oregon total non-farm*)

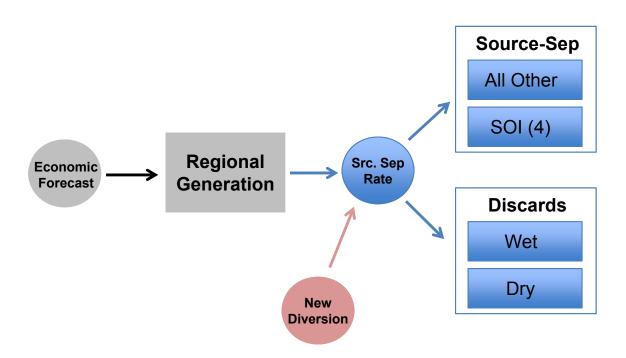
2) FHFA (Oregon home price index)

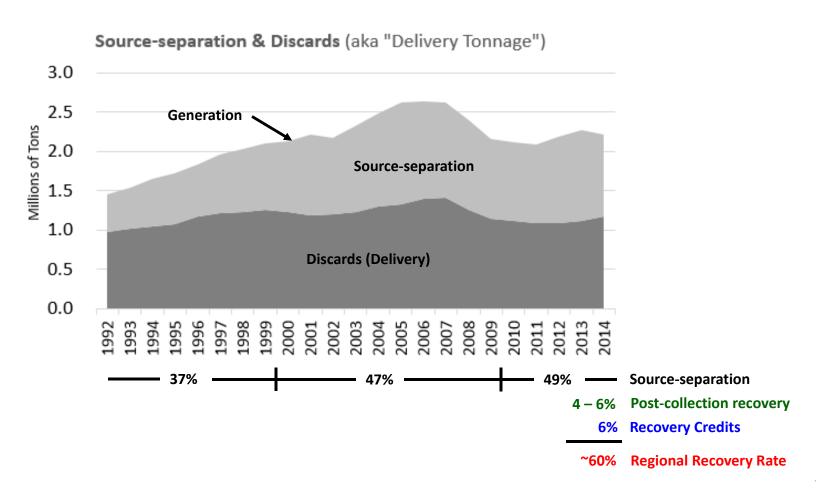
3) US Census BPS (Oregon residential house starts)

Methods & Assumptions Generation







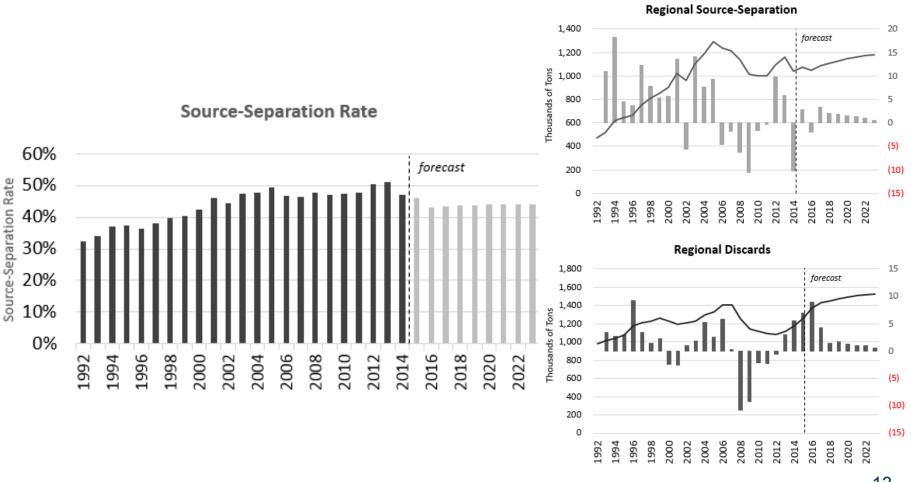


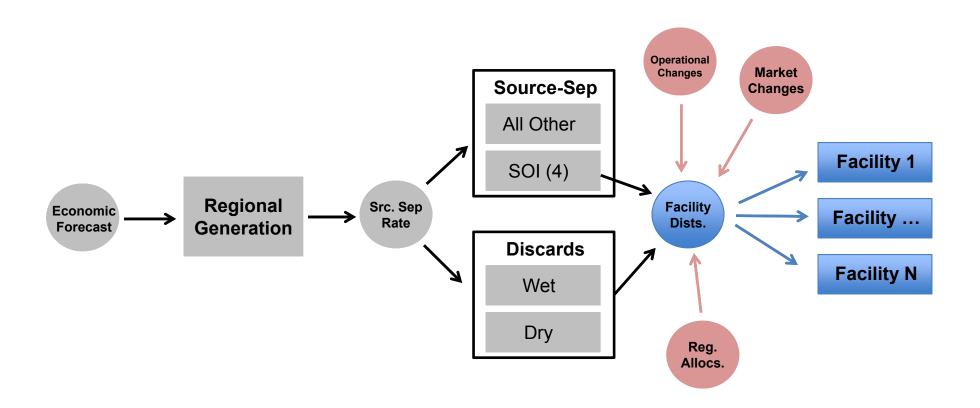
New Residential FW/YD Programs

- Recent programs Cities of Forest Grove, Lake Oswego
- Likely programs Cities of West Linn, Gresham, and WA County
- 3,400 tons per year additional diversion by CY 2018

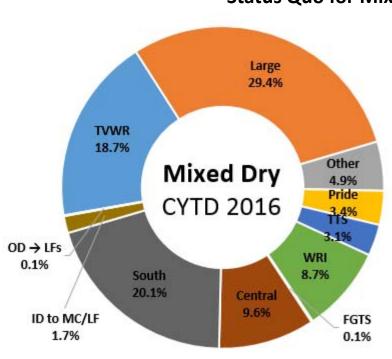
New Commercial FW Programs

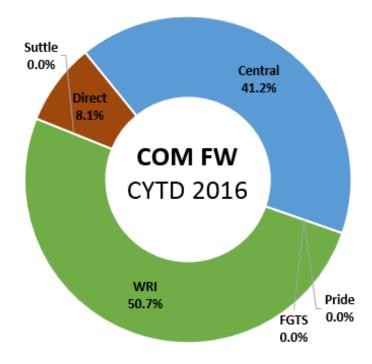
- Metro program under development
- City of Portland program Spring 2018 (Phase 1) Spring 2021 (Phase 4)
- 23,000 tons per year additional diversion by CY 2021/22





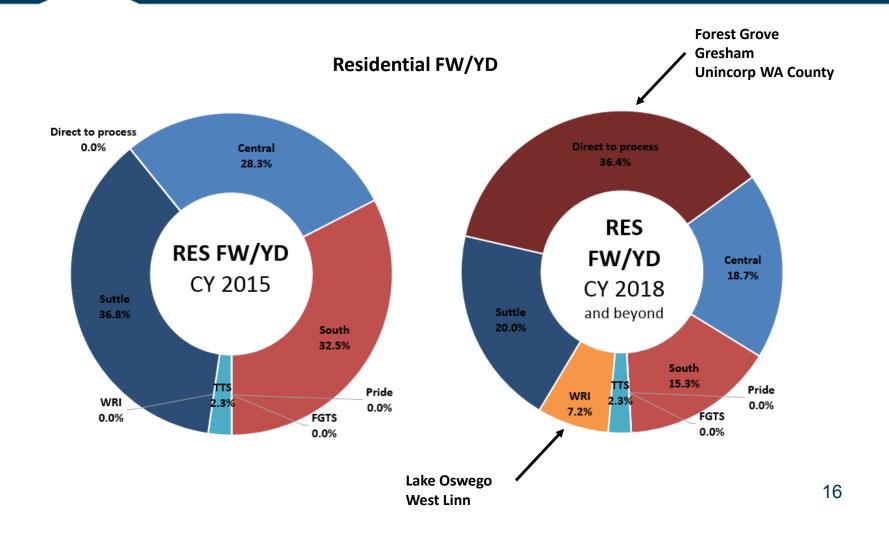
Status Quo for Mixed Dry and Commercial FW





MRF Categories

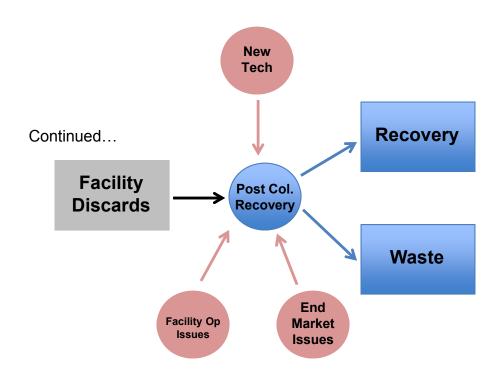
- Large (ECR, Greenway, Suttle)
- Other (Aloha, CORE, KB, NW Shingle(s), Foster)



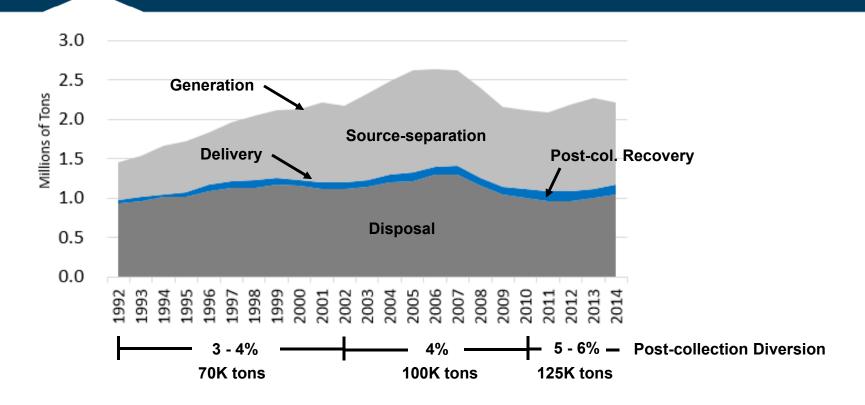
Putrescible

	CY 2015		CY 2017			CY 2018 -
Based on Percentage	Percentage		Allocatable	Allocation	Resulting %	CY 2023
Pride	10.69 %	X	724,649	= 77,435	10.69 %	•
TTS	10.69 %	X	724,649	= 77,435	10.69 %	•
WRI	10.69 %	X	724,649	= 77,435	10.69 %	•
Based on Tonnage						
FGTS				125,000	•	
New TS/Gresham				23,000	3.17 %	•
New TS/CORE				1,000	.14 %	•
Direct to Vancouver				30,119	4.16 %	•
Direct to Canby				16,600	2.29 %	•
Direct to Covanta				1,680	.23 %	•
Direct to Landfill				180	.03 %	•

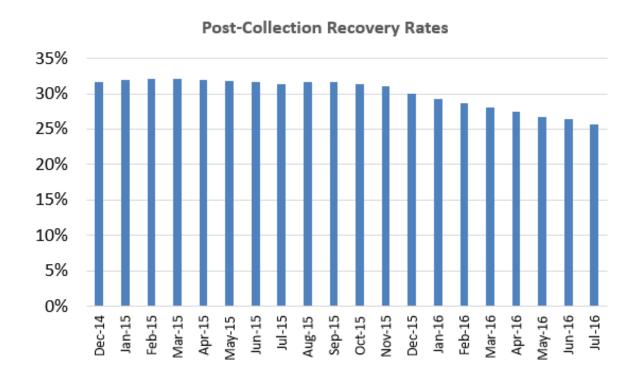
Methods & Assumptions Post-collection Recovery



Methods & Assumptions Post-collection Recovery

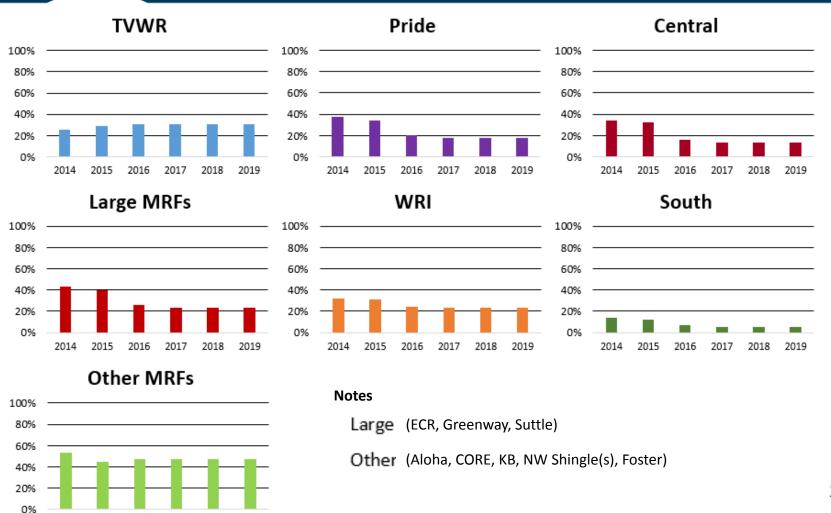


Methods & Assumptions Post-collection Recovery

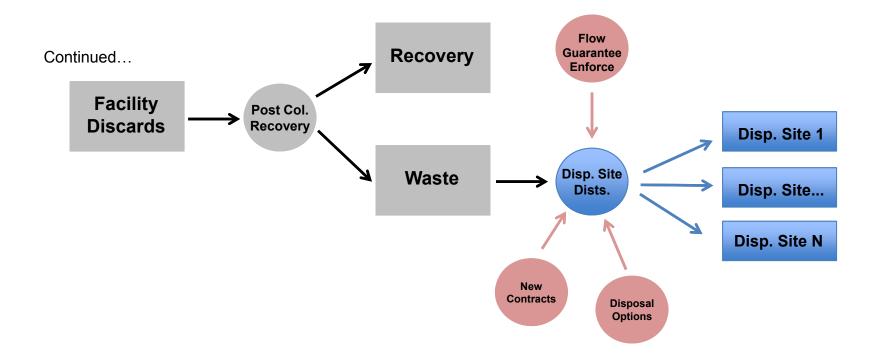


Methods & Assumptions

Post-collection Recovery



Methods & Assumptions Disposal



Methods & Assumptions

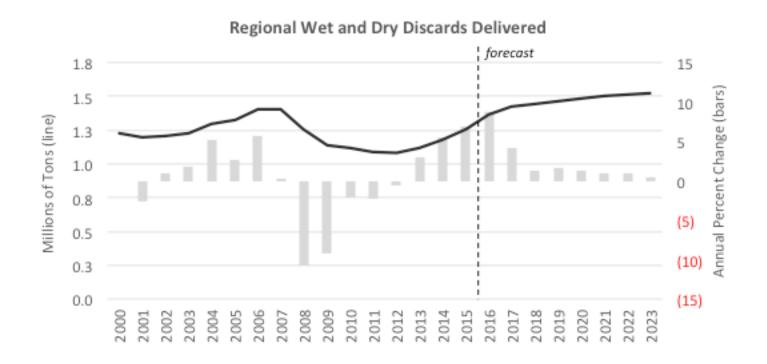
Main Assumptions

- Status quo assumed (Riverbend/Columbia Ridge an option, Waste Management disposal contractor, Flow Guarantee enforced)
- Cowlitz County Landfill comes into mix for waste
- Flow Guarantee excludes private waste post-2019

ResultsTonnage Focus Areas

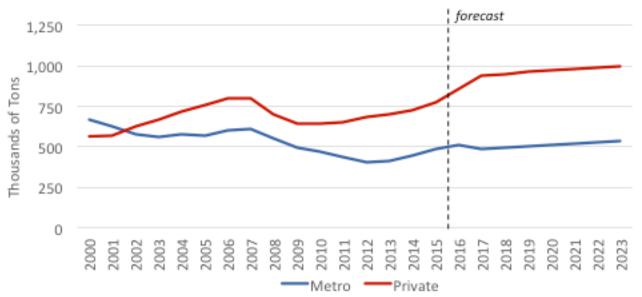
- Model produces over 40 time series
- Tonnage focus areas:
 - 1. Core delivery tonnage (wet and dry discards)
 - 2. Revenue tonnage (discards subject to solid waste fees and taxes)
 - 3. Wet allocatable tonnage

ResultsCore Delivery Tonnage



ResultsCore Delivery Tonnage

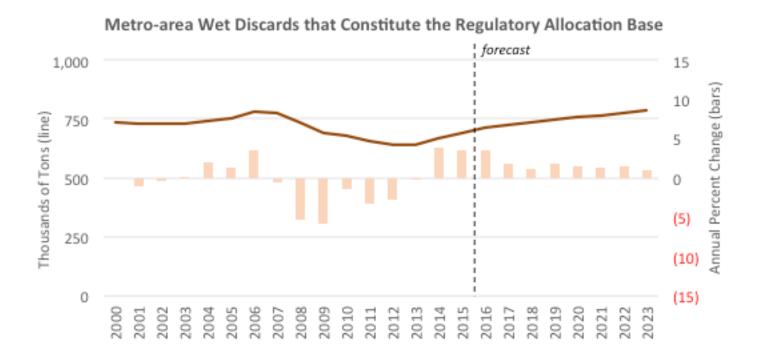




ResultsRevenue Tonnage

Discards Subject to Metro's Regional System and Solid Waste Excise Tax forecast 1.8 15 Annual Percent Change (bars) 1.5 Millions of Tons (line) 1.3 1.0 0.8 (5) 0.5 (10)0.3 0.0 (15)2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2016 2017 2015 2019 2020 2012 2013 2014

ResultsAllocation Tonnage



Summary

- Economy grows but slower in 2017 and beyond
- Generation growth shifts to long-run trend growth
- Additional food source-separation minimal and comes later in 2018
- Post-collection recovery declines stabilize mid-2017
- Discards continue strong near-term growth, then slower growth

Questions?

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