SPU Waste Prevention & Recycling Programs

Presentation to the Customer Review Panel

November 9, 2016

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Presentation Outline

- **Background -** Seattle's vision and goals for waste prevention and recycling
- **Current status -** progress to date and plans going forward
- **Next up -** program focus and progress needed in future years
- **Challenges ahead**
- **Input** that we will seek from Panel

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Background - Fulfilling *Our Promise* in Solid Waste

Saving resources to save money and reduce environmental impacts:

- **Being efficient** - Reducing waste and diverting resources to reduce disposal costs and keep rates down
- **Forward looking** - Strong planning to leverage the right mix of services, outreach, incentives and requirements
- **The best place to live** – Seattleites love their recycling and composting services, and also appreciate the environmental benefits

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Background – Setting the Vision

A national leader for over 25 years:

- **Vision and guidance in a series of Solid Waste Plans**
  - 1989 *On the Road to Recovery*
  - 1998/2004 *On the Path to Sustainability* (and update)
  - 2013 *Keeping up the Pace to Zero Waste*
- **2013 Plan sets vision and programs for a decade**
  - Provides blueprint for waste prevention and recycling programs and initiatives for 2012-2022
  - Sets goals to reduce or divert 60% of our waste by 2015 and 70% by 2022
- **2013 Plan adopted by City Council**, and specifically the 60% & 70% goals, in February 2013

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Current status – Where are we?

- Implementing over **100 programs and initiatives** for waste prevention and recycling from the Solid Waste Plan
- Over **75% of programs or initiatives** partially or fully completed by 2016
- **Total waste generation** below residential and economic growth
- **2015 diversion at 58%,** just below 2015 plan goals

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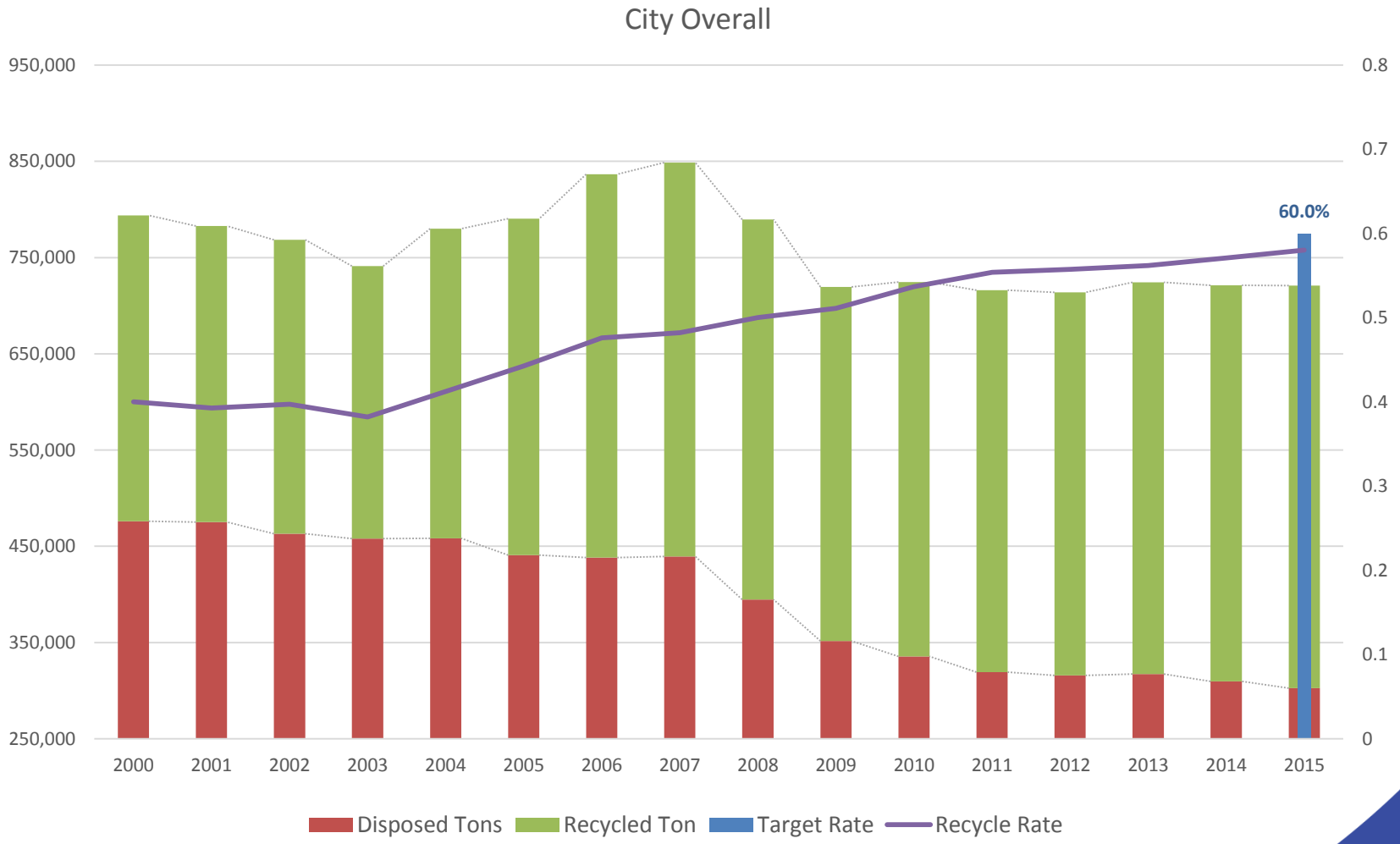
Status - City Tons & Diversion



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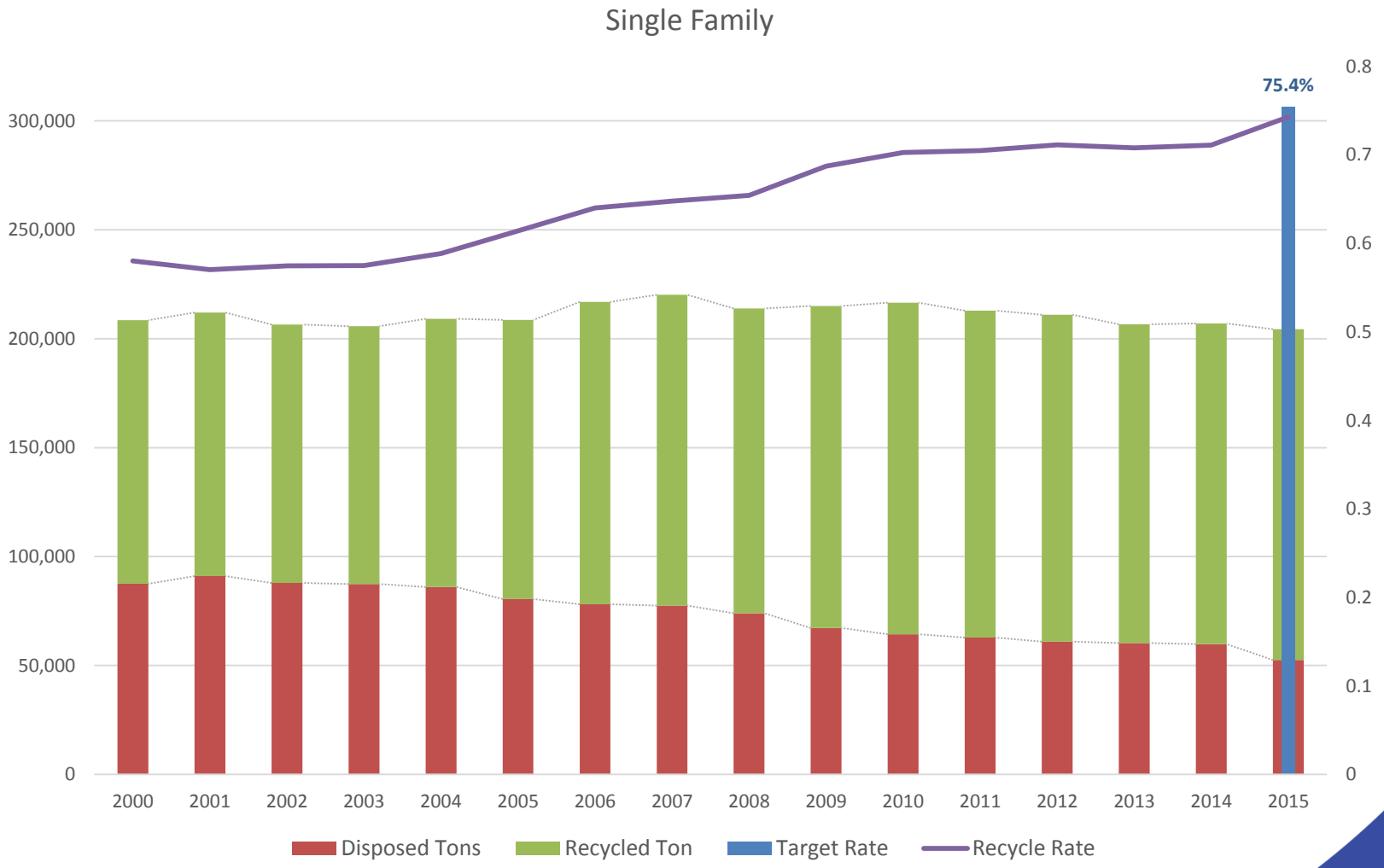
Status – Single-family Sector



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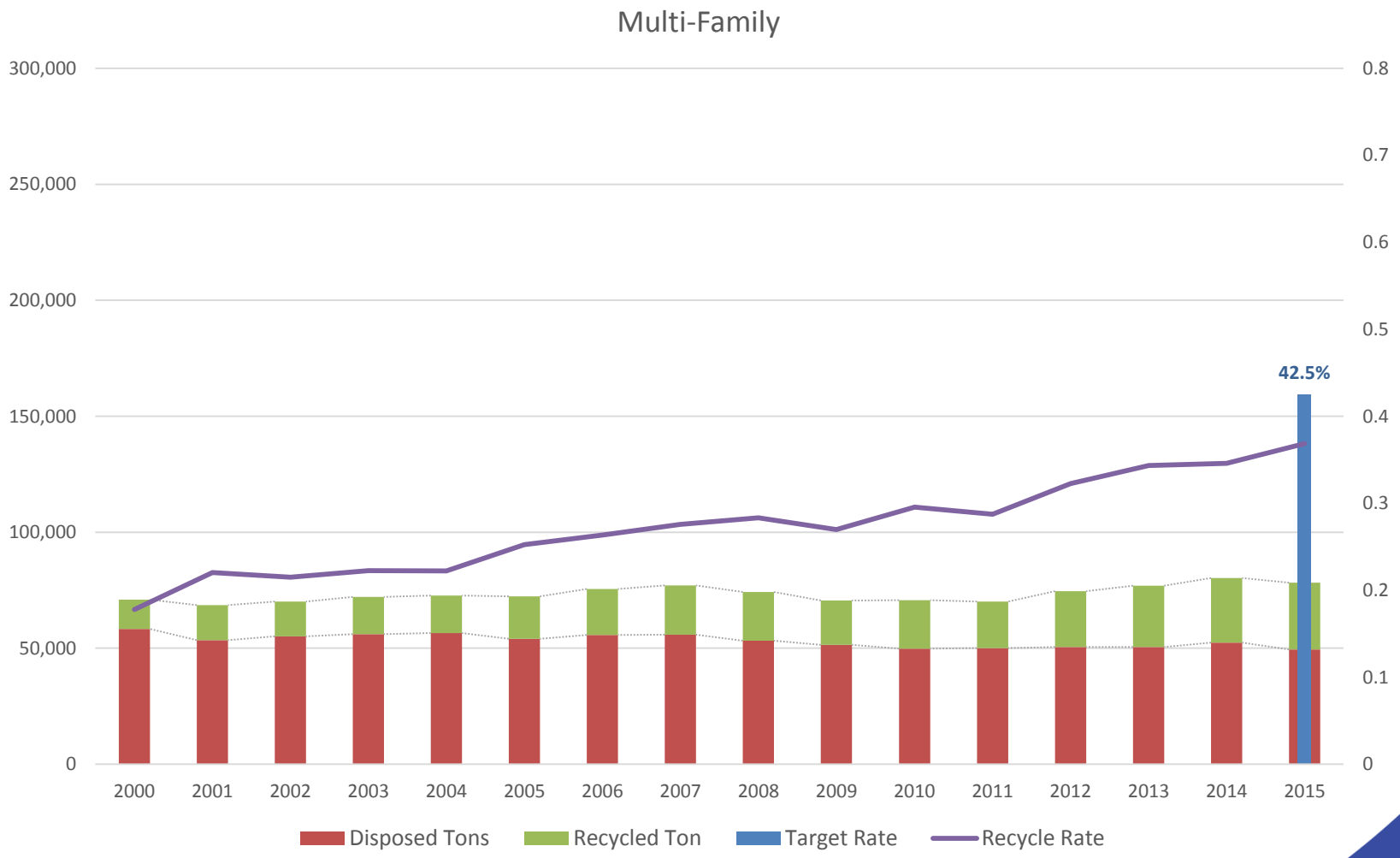
Status – Multifamily Sector



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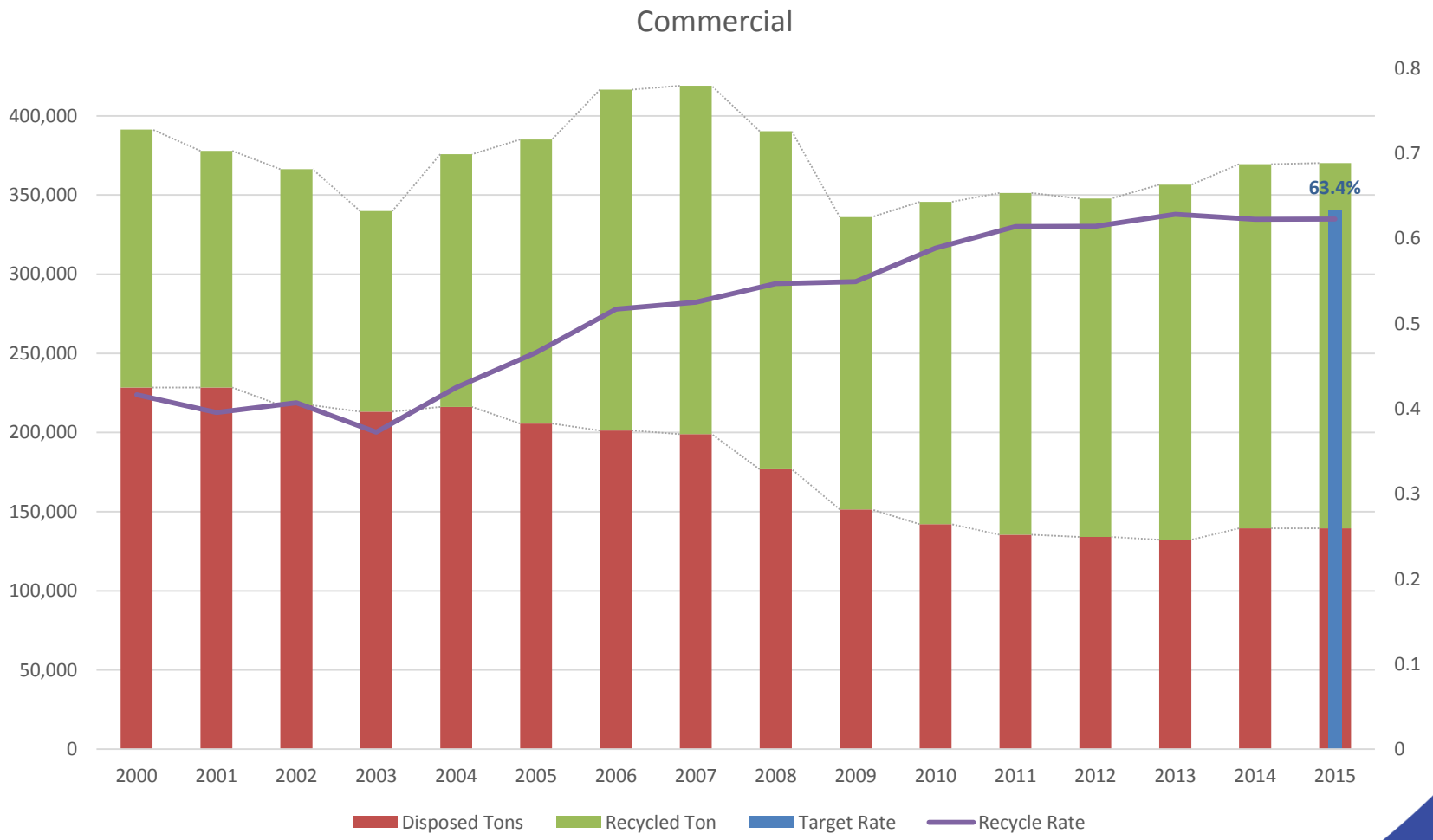
Status - Commercial Sector



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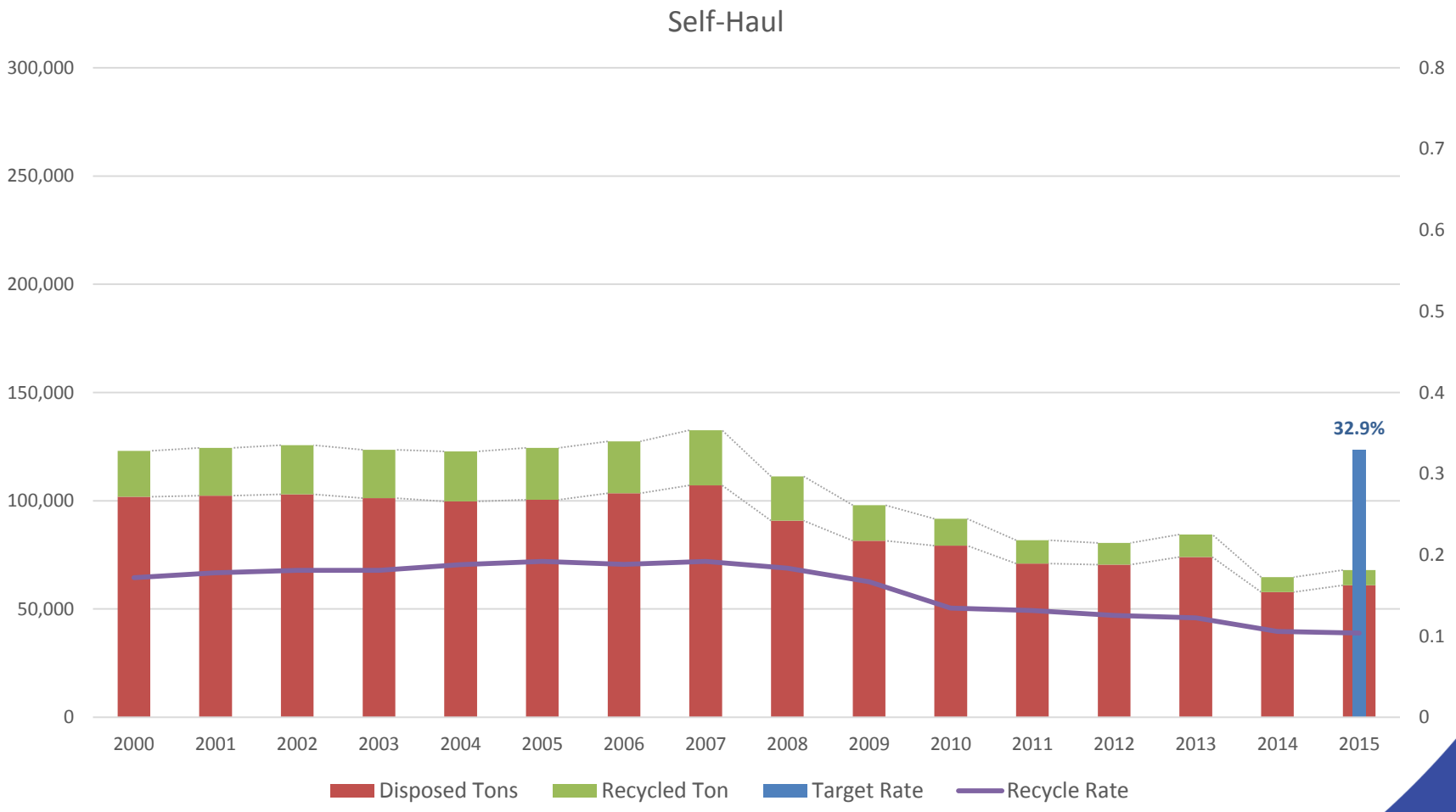
Status - Self Haul Sector



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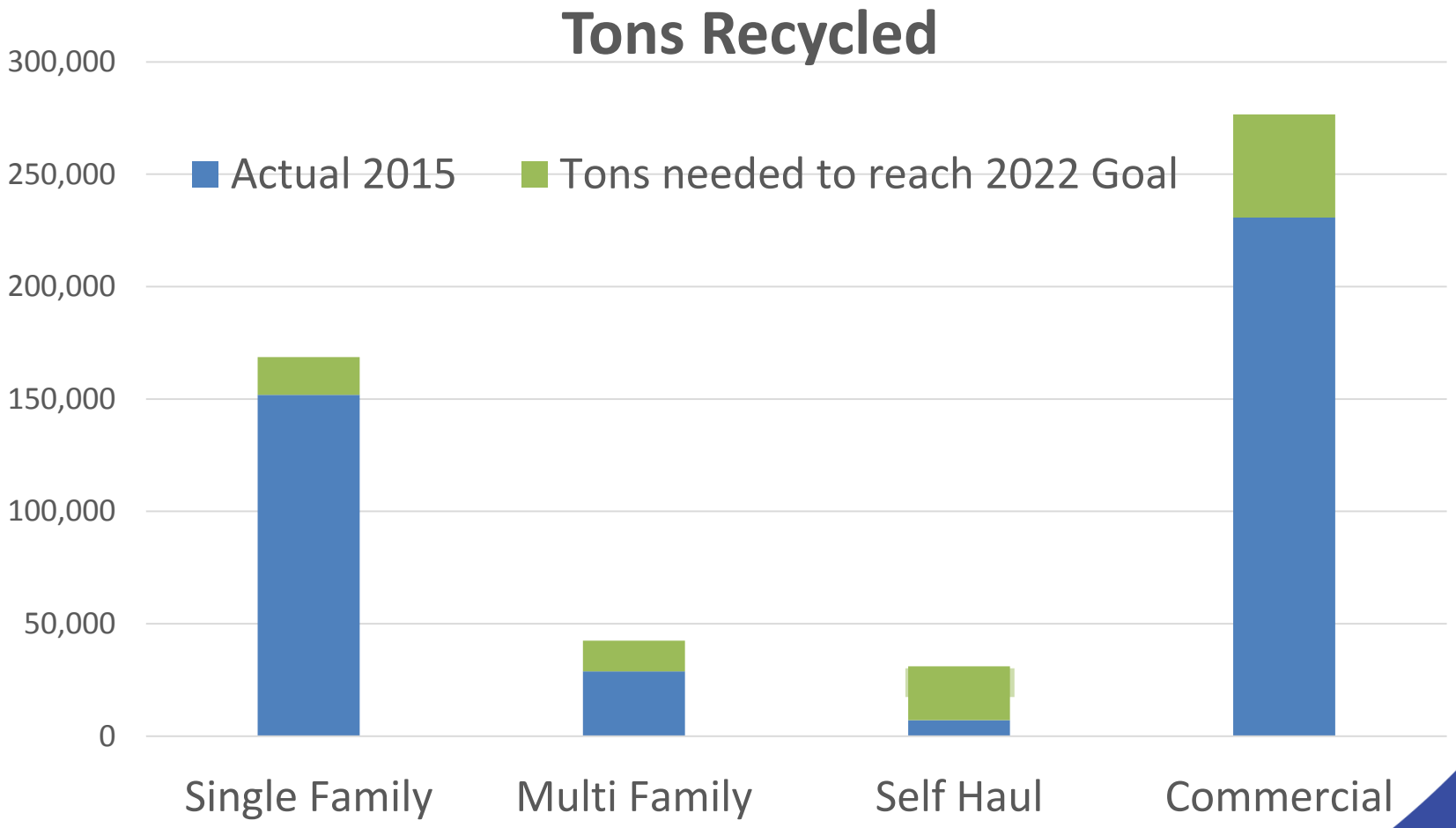
Next up - Tons for 70% Goals



Tons needed calculated on 2015 generation using "70% Scenario" sector specific goals. Self Haul light green assumes

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Next up - Residential Focus to Reach 70%

New residential recycling diversion by 2022:

- Expanded organics participation and enforcement (26,000 tons)
- Expanded recycling participation and enforcement (8,600 tons)
- Increased product stewardship/prevention in textiles, retail bags, latex paint, etc. (3,000 tons)
- Initial ramp up of pet waste/diaper service (2,400 tons)

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Next up - Commercial & Self-haul Focus to Reach 70%

New commercial recycling diversion by 2022:

- Expanded organics participation, enforcement and food ware (34,900 tons)
- Expanded recycling participation, enforcement, audits, and additional bans (23,100 tons)

New self-haul recycling diversion by 2022:

- Expanded recycling participation, enforcement, audits, and additional bans (15,800 tons)
- Floor sort of construction waste loads (12,600 tons)

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How did We Determine the 70% Goal and Programs?

Program modeling built on prior data and forecast outcomes:

- *What's left in garbage?*
  Sort the waste - to target materials and sectors
- *What will it take to capture (recycle) these targets?*
  Price and analyze most cost-effective approaches
- *What is the lowest cost overall approach?*
  Model combined outcomes with *Prevention and Recycling Potential Assessment (*PRPA)

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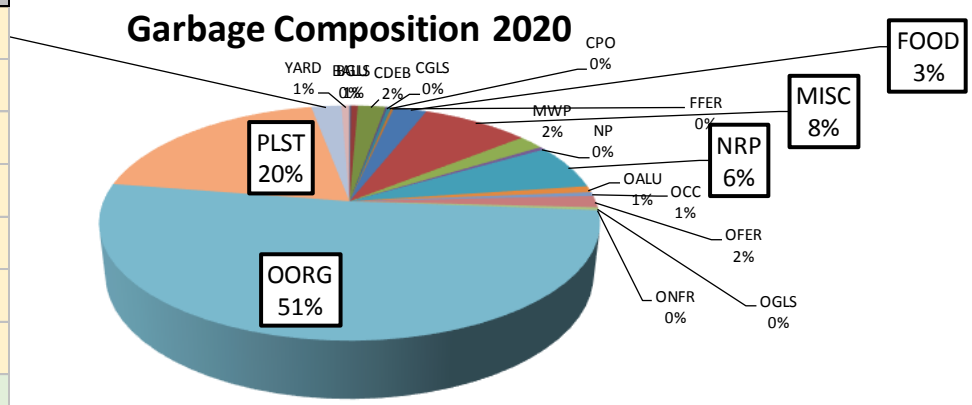
Model Process *(Program Example)*

Single Family Sector

Set Programs → **Results**

Program	Program Name
2 Old	Curbside Recycle SQ
3	Backyard Yard in city bins
4	Backyard food in city bins
5	Grasscycling
6	Backyard yard waste not in city bins
7	Backyard food not in city bins
8	SF Status Quo 2008 Yard and Food Waste
12 New	Textile Market Development - SF
15	Pet Waste & Diapers - SF
16	Plastic bag ban - SF
19	Increase SF Res Ban Enforcement
20	Reusable bag campaign - SF
41	Restore Education - SF
42	Product Stewardship - SF

New SBP	Residential organics ban single family



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Recycling Savings – Back of the Envelope

- SPU pays appx $55 per ton to load, haul and dispose of garbage
- SPU pays appx $50 per ton to load haul and process organics
- SPU pays appx $10 per ton to load and process recyclables (net of market values)
- Additional collection savings and positive revenue lag

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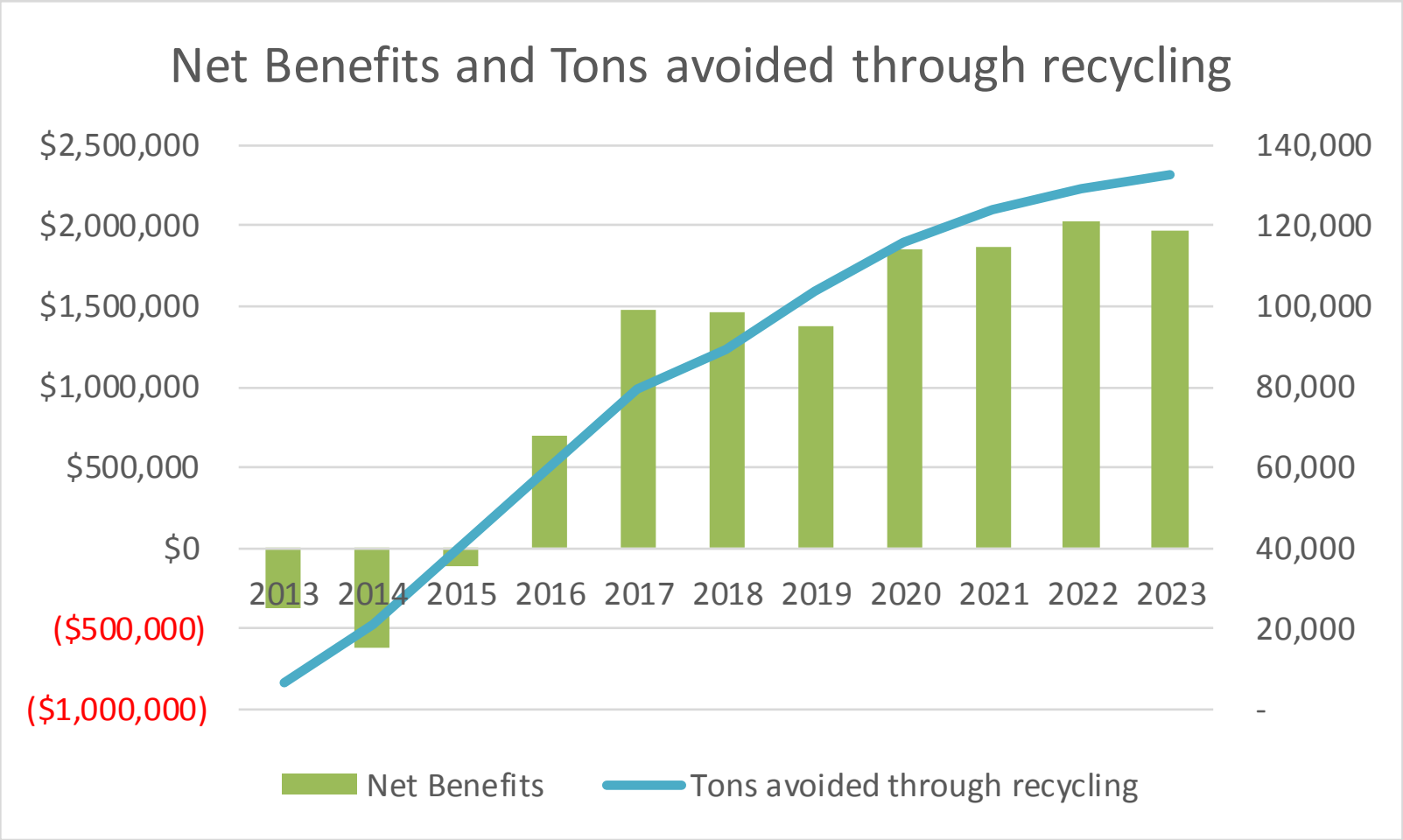
Recycling Savings 2013 - 2023



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Looking Forward - Challenges

- **Customer evolution** - Ramping up to successful service of and participation for thousands of new residents, especially multifamily.
- **Program evolution –** Increasing assistance and enforcement assistance to reach all customers.
- **Services evolution** – Minimizing contamination as services expand and participation increases. Investments for potential new pet waste/diaper services.
- **Infrastructure evolution** – Opportunity for future garbage sorting facility (to remove high value materials) but limited facility and capital capacity.

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Looking forward - SBP Review

SPU is confirming waste prevention and recycling investments (and savings) for 2018-2023

- Targeted outreach, assistance, and enforcement
- Disposal and collection savings
- Potential future waste service and/or facilities

Input from Customer Review Panel in early 2017

(SPU will update our Solid Waste Plan in 2018)

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