

Special Infrastructure Services Committee

Solid Waste Workshop

Thursday, March 2, 2017

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Workshop Agenda

- 1) Warm Up Exercise
- 2) Understanding Today's Context for Service Delivery
- 3) Current Service Delivery Model
- 4) Funding & Expenditures
- 5) Tools
- 6) Developing a Plan – 2 years and 5 years timeframe
- 7) Workshop Summary



Workshop Format

- Open dialogue
- Directions only – staff will come back with a report which contains Recommendations.
- Staff will act as workshop facilitators, content experts and scribes.



Terminology

1. Solid Waste = industry term for garbage, recycling, waste reduction
2. Local = entire Sunshine Coast
3. SWMP = solid waste management plan
4. Diversion = not landfilled; recycled or reused
5. C&D = construction & demolition
6. ICI = institutional, commercial, industrial



Terminology

7. **EPR = extended producer responsibility**
Producer/industry pays for recycling of item produced
Identified in the MoE's Recycling Regulation, Schedule 5
8. **Stewardship Programs = programs part of EPR**
e.g. batteries, electronics, PPP, paint, tires
Requires a plan approved by MoE
9. **PPP = Printed Paper and Packaging**
Stewardship Program operated by MMBC
10. **MMBC = Multi-Material BC**
Stewardship Agency responsible for PPP Recycling

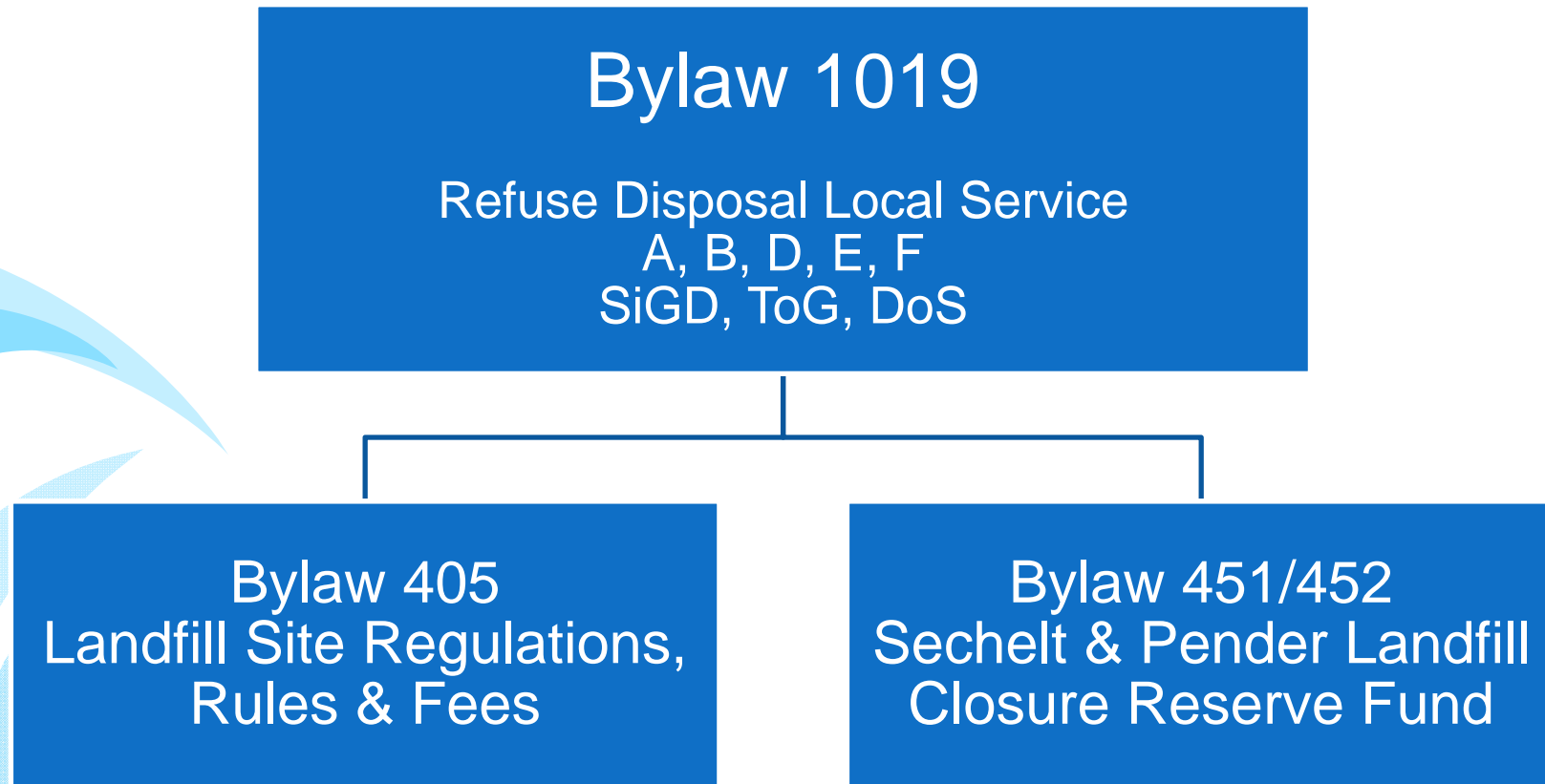


Local Context

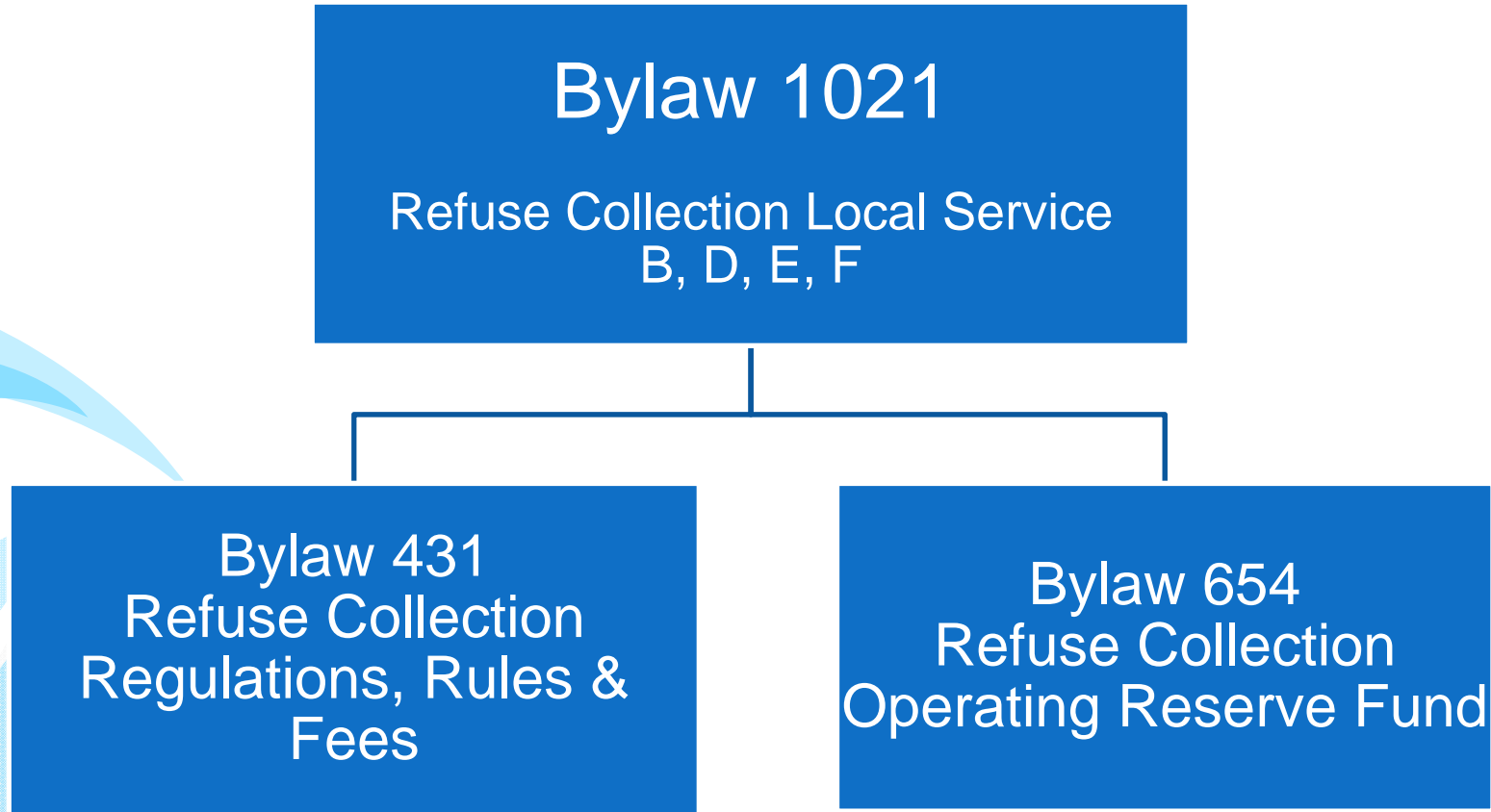
- Few contractors, minimal competition
- Influenced by seasonal residents and visitors
- Increase in residents from lower mainland
- Landfill & Transfer Station subject to market conditions
 - Many materials require delivery off-coast for processing
 - Good economy = increased tonnage received
 - Commodity prices for revenue of recyclables (metal) fluctuate



SCRD Bylaws



SCRD Bylaws



SCRD Bylaws

Pursuant to Section 814 of LGA
Reserve fund established under
Section 188 of the Community Charter

Bylaw 653
Regional Solid Waste
Operating Reserve
Fund

Bylaw 670
Eco-Fee
Reserve Fund



SCRD Bylaws

Bylaw 405 – Landfill Site Regulations, Rules & Fees

- Tipping fee based on material type
- Identifies recyclables materials that must be diverted or double tipping-fee applies at time of transaction
- Gaps:
 - Cardboard, EPR items are not listed as recyclable material
 - Food scraps is not listed as recyclable material

Bylaw 431 – Refuse Collection Regulations, Rules & Fees

- “Collectible Garbage” provides exclusions
- One can limit, 77L
- Extra garbage with use of tag
- Gaps:
 - No exclusion for: recyclables or food scraps
 - Does not indicate place garbage out morning of collection (wildlife)



Legislation

Ministry of Environment

Environmental Management Act

- Landfill development, operations, closure, environmental monitoring
- SWMP
- Recycling Regulation
- Reporting
- Performance Measures



Legislation

Ministry of Environment

2016/17 – 2018/19 Service Plan

Solid Waste Performance Measures by 2019/2020

- 450 kg/pp/yr to 350 kg/pp/yr – solid waste disposal
- 75% - BC population covered by organic waste disposal restriction



SCRD's SWMP



Target: 65% – 69%
Diversion by 2016

1996

**1st SWMP
Adopted &
Approved**

2005

**SWMP
Adopted &
Approved**

2009

**SWMP
Review
& Public
Consultation**

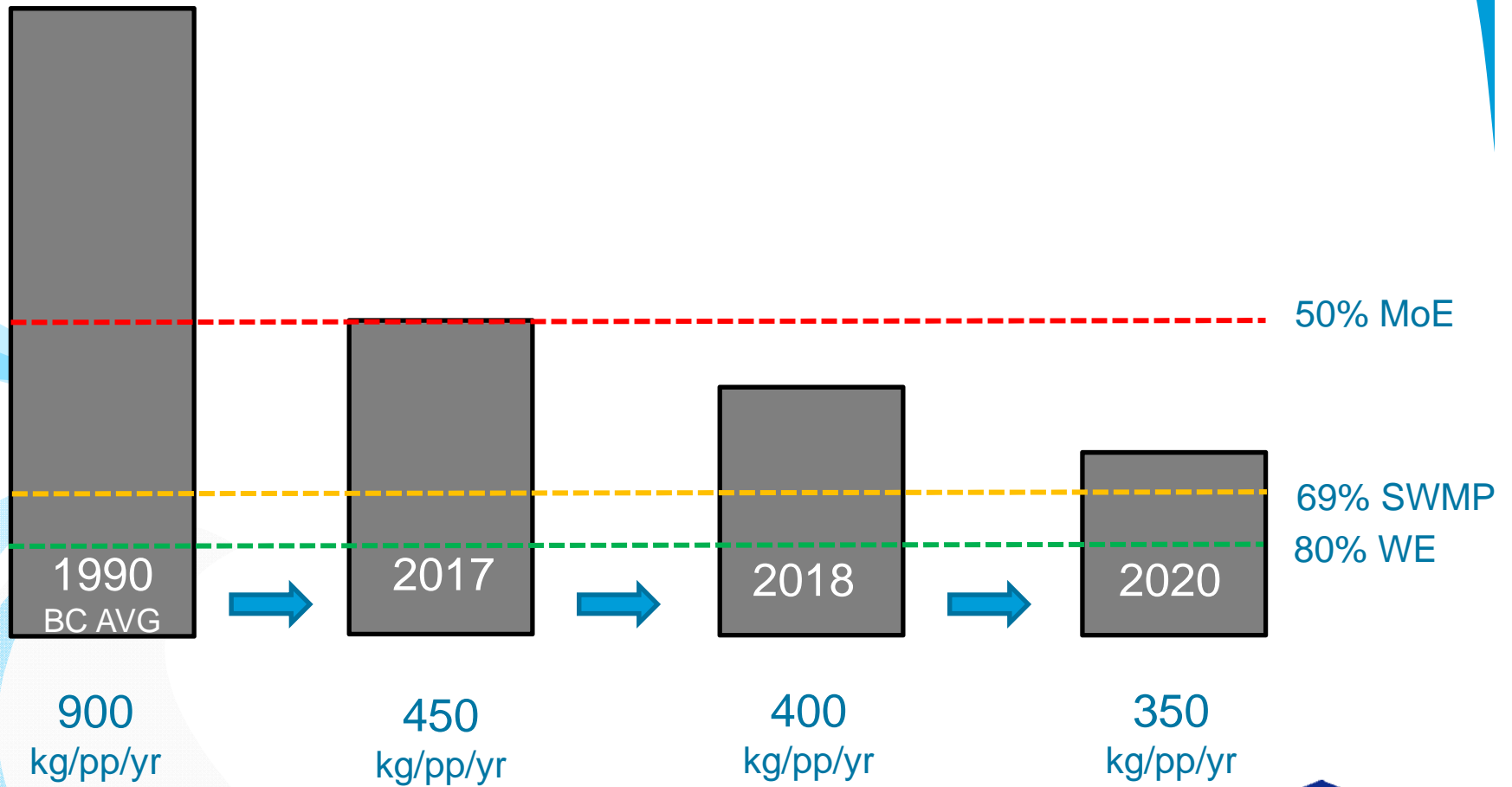
2011

**SWMP
Adopted &
Approved**

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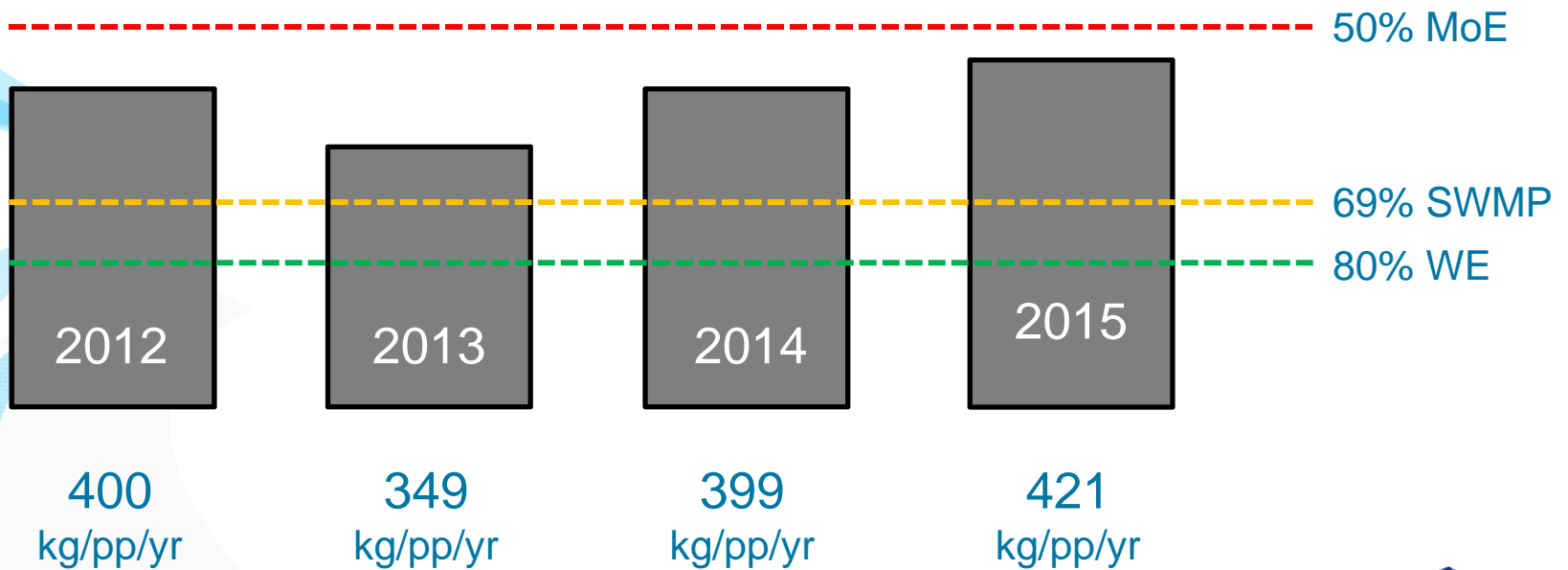


Targets: Per-capita Disposal



SCRD Per-capita Disposal

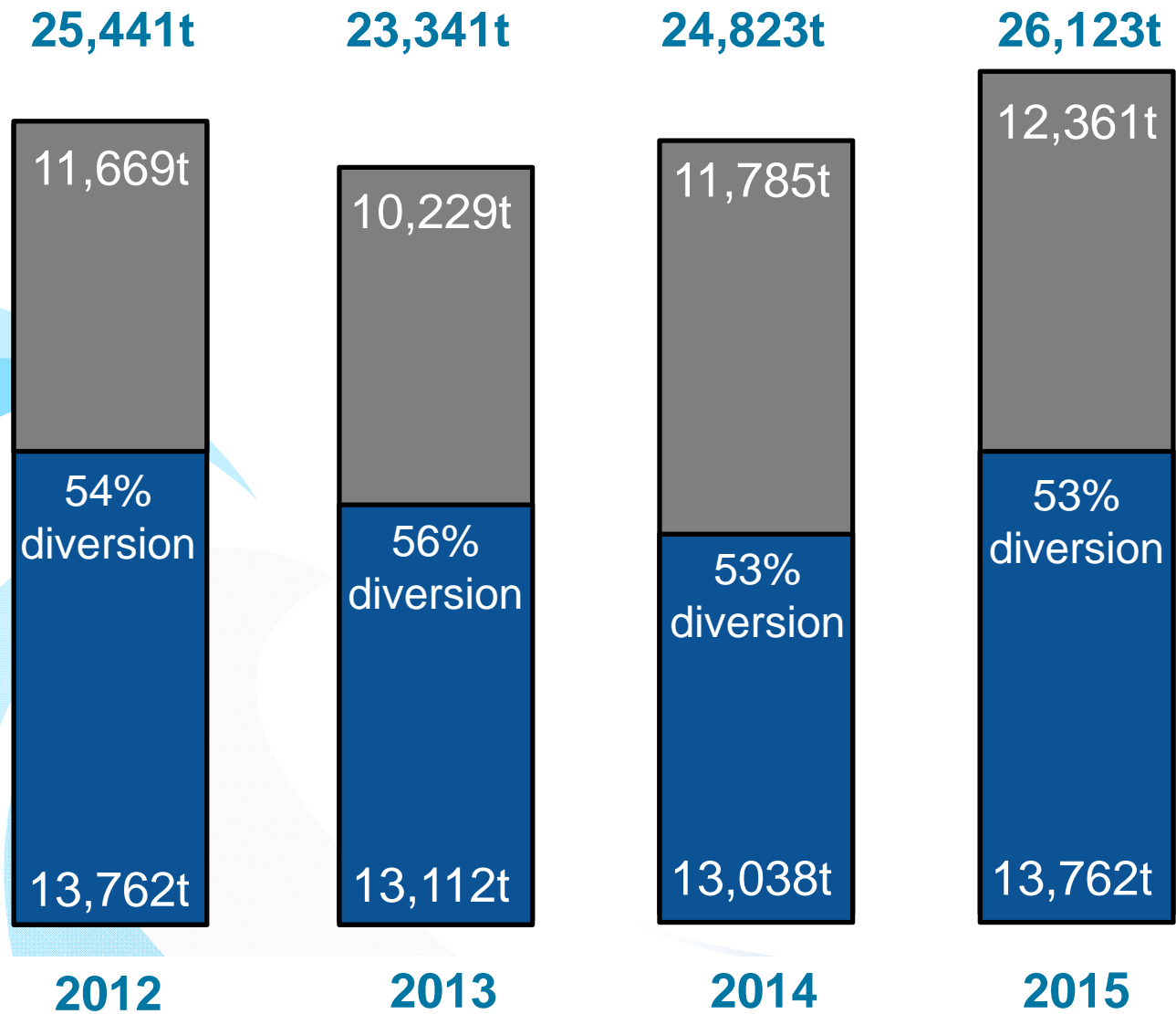
Targets



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SCRD Regional Diversion



SCRD Disposal & Diversion

Disposal and Diversion (t)	2009*	2009	2010	2011	2012	2013	2014	2015
Disposal								
Pender Harbour Landfill	1,436	1,436	1,346	1,246	1,155	1,158	1,338	1,816
Sechelt Landfill	11,609	11,609	11,609	10,923	10,524	9,071	10,447	10,545
Total disposal	13,045	13,045	12,955	12,169	11,679	10,229	11,785	12,361
Diversion								
At Landfills	1,645	1,645	1,767	2,029	2,434	2,239	2,156	3,302
Green Waste	3,066	3,066	3,517	2,499	3191	3,437	3,672	3,415
Recycling - Curbside	570	570	620	667	701	685	642	605
Recycling - Depots	1,201	1,201	1,345	1,412	2,198	1,495	1,367	1,117
Extended Producer Responsibility	1,013	1,013	1,088	963	983	1,000	1,005	1,068
C&D Estimate (as per SWMP)	4255	4255	4255	4255	4255	4255	4255	4255
Total diversion	11,750	11,750	12,592	11,825	13,762	13,112	13,097	13,762
Total waste generation (disposal + diversion)	24,795	24,795	25,547	23,994	25,441	23,341	24,883	26,123
Diversion rate (diversion/waste generation)	47%	47%	49%	49%	54%	56%	53%	53%
Population	29,551	28,528	28,590	28,918	29,222	29,270	29,512	29,390
Disposal per person per year (kg)	441	457	453	421	400	349	399	421

Notes:

Based on how diversion was calculated in the SCRd's SWMP

*2009 using the population numbers as in the SWMP

Population estimates based on BC Stats as listed on Feb 28, 2017



Current Service Delivery Model

Regional Solid Waste [350]

Illegal Dumping

- Backroad Trash Bash
- Good Samaritan Program
- Annual collaborative meeting of inter-agencies



Current Service Delivery Model

Regional Solid Waste [350]

Garbage

- Islands Clean Up – annual event
- Garbage collection at 6 locations to service Island residents



Current Service Delivery Model

Regional Solid Waste [350]

Education & Outreach

- Advertising including SCRD website, Facebook, Twitter, local newspapers
- Booths at community events
- Compost Awareness Week
- Holiday Waste Reduction
- Recycling Directory
- Waste Reduction Week

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Current Service Delivery Model

Pender Harbour Solid Waste [351]

Pender Harbour Transfer Station

- Open Mon, Wed-Sun summer only
- Closed Tue year round
- Closed Sundays & stat holidays in winter
- 1 scale
- Site operation by contractor

Recycling at Transfer Station

- Appliances, cardboard, drywall, mattresses, metal, propane tanks, tires, wood
- Shreshed



Current Service Delivery Model

Sechelt Solid Waste [352]

Sechelt Landfill

- Open Tue-Sun
- Closed Mon year round & stat holidays in winter
- 1 scale
- Site operation by contractor

Recycling at Landfill

- Appliances, cardboard, drywall, mattresses, metal, paint, propane tanks, tires, wood
- Shareshed



Current Service Delivery Model

Residential Green Waste [351-352]

Funded from taxation

Depot Services – Residential only

Drop-off at 3 locations

- i. Gibsons - Town of Gibsons
- ii. Sechelt - Salish Soils
- iii. Pender Harbour - Transfer Station (SCRD)

Commercial Green Waste

Funded from Tipping Fees

Commercial Drop-off at 2 locations

- i. Sechelt: at Landfill
- ii. Pender Harbour: at Transfer Station

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Current Service Delivery Model

Regional Recycling [353]

Depot Recycling Service – Residential Only

Drop-off at 3 depots

- i. Gibsons - Gibsons Recycling
- ii. Sechelt - Salish Soils
- iii. Pender Harbour - GRIPS

Materials Accepted

- MMBC: Cardboard, glass, paper, plastic & metal containers, plastic film, polystyrene
- Books: Gibsons only

Note: Depots may accept other materials in addition to the SCRD funded materials.

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Current Service Delivery Model

Refuse Collection [355]

Garbage

- Weekly collection, curbside, one 77L can limit
 - Remote container service in 3 locations
- Extra garbage with tag, \$2.50 per tag
- Portions of Areas B, D, E, F

Clean Up Coupon

- 1 “free” load up to 450 kg
- Requires being delivered to Sechelt Landfill
 - Includes one month drop-off at a South Coast location (contracted service)
- For SCRD residences that receive garbage collection

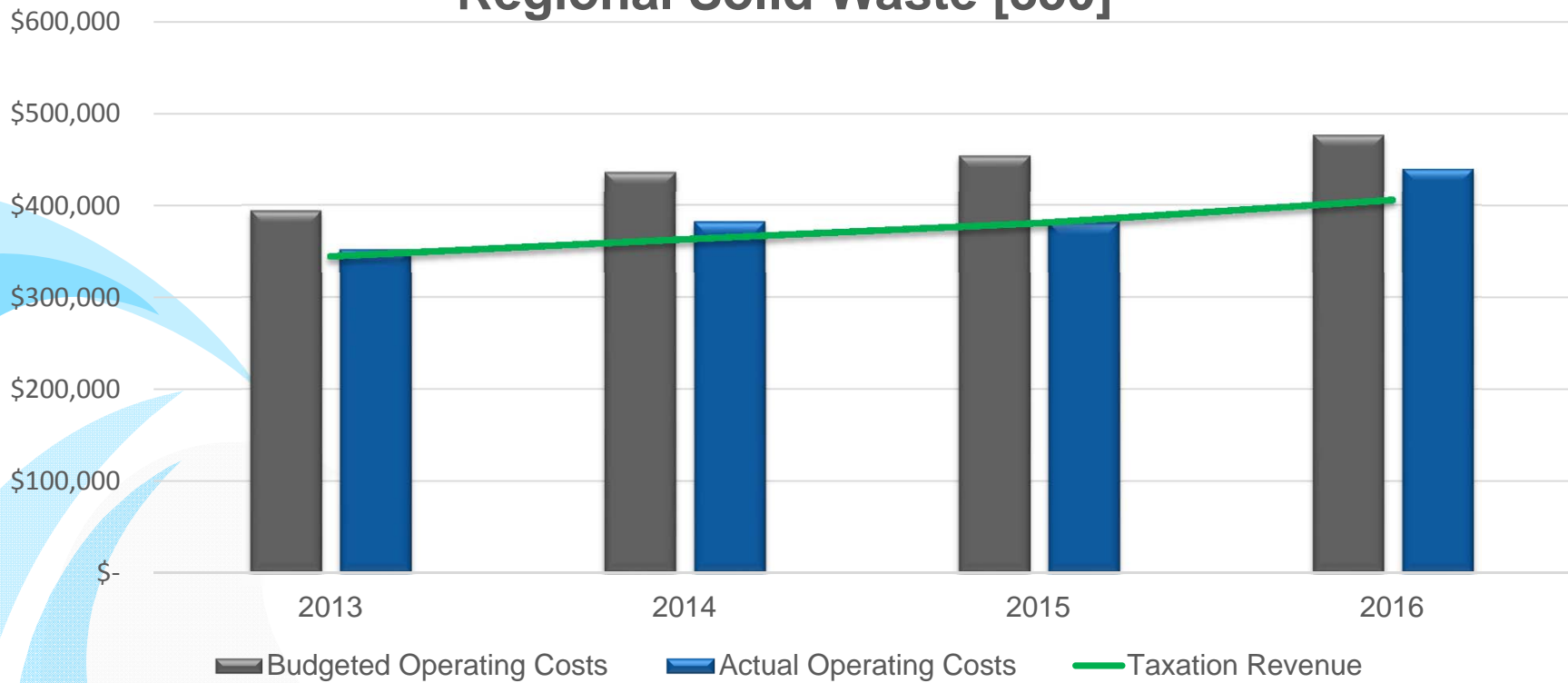
Note: Area A residences receive coupon; funded from Pender Harbour Transfer Station [351]

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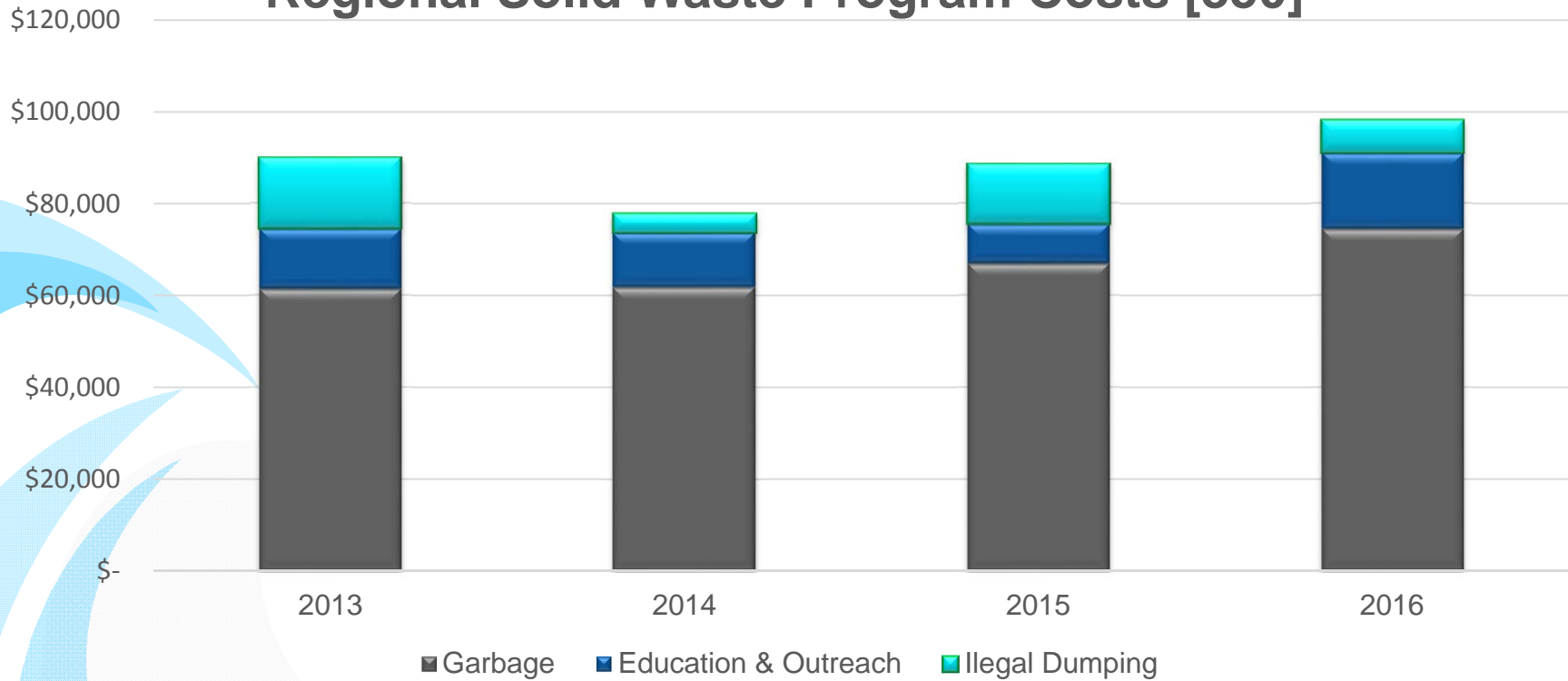
Funding & Expenditures

Regional Solid Waste [350]



Funding & Expenditures

Regional Solid Waste Program Costs [350]



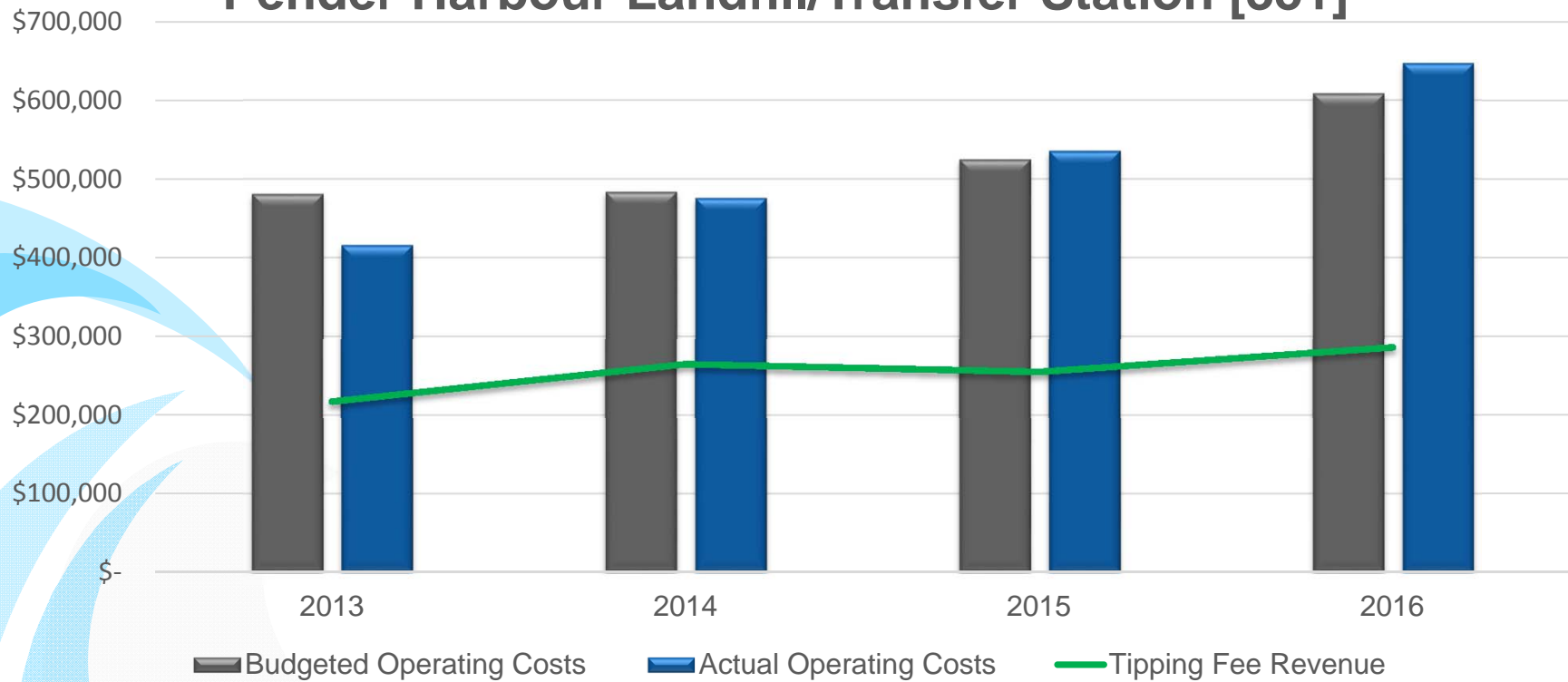
Garbage:
Islands Clean Up
Garbage containers

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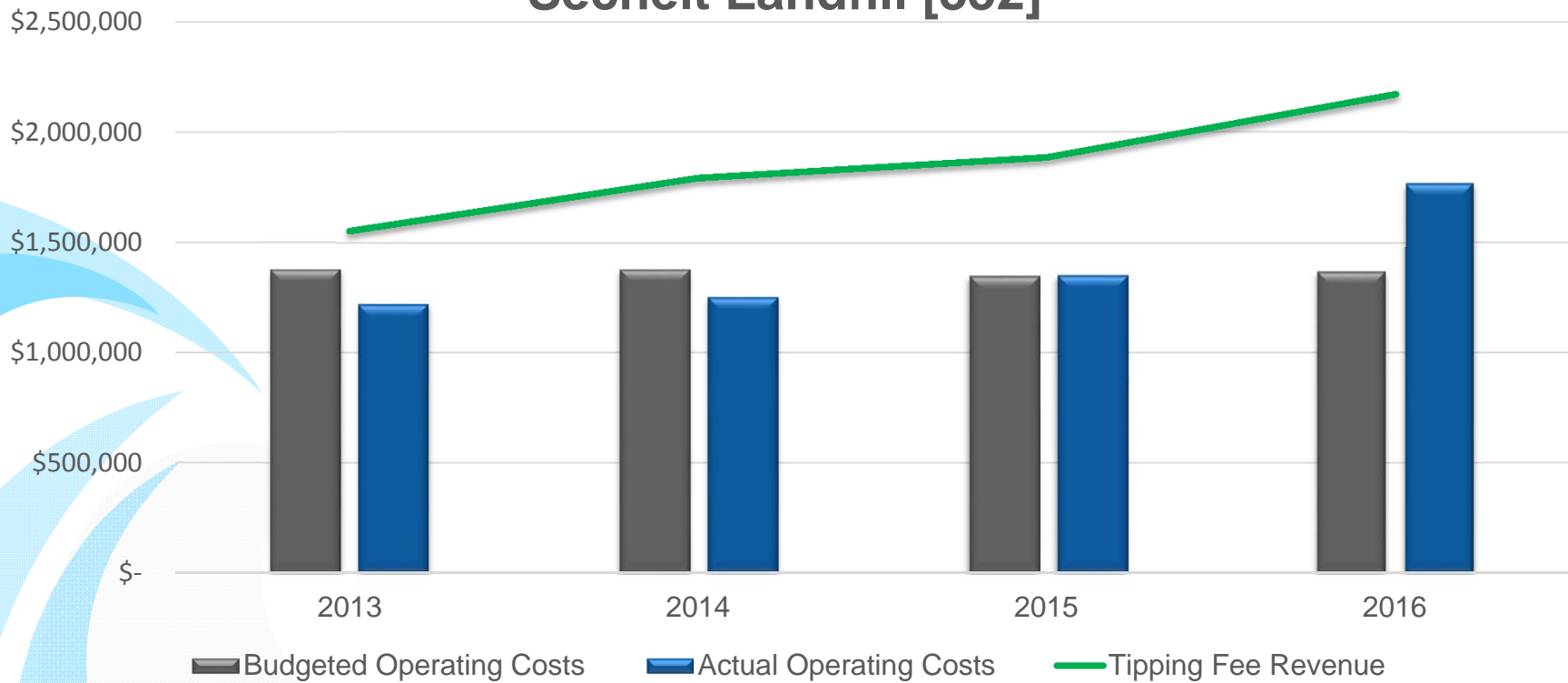
Funding & Expenditures

Pender Harbour Landfill/Transfer Station [351]



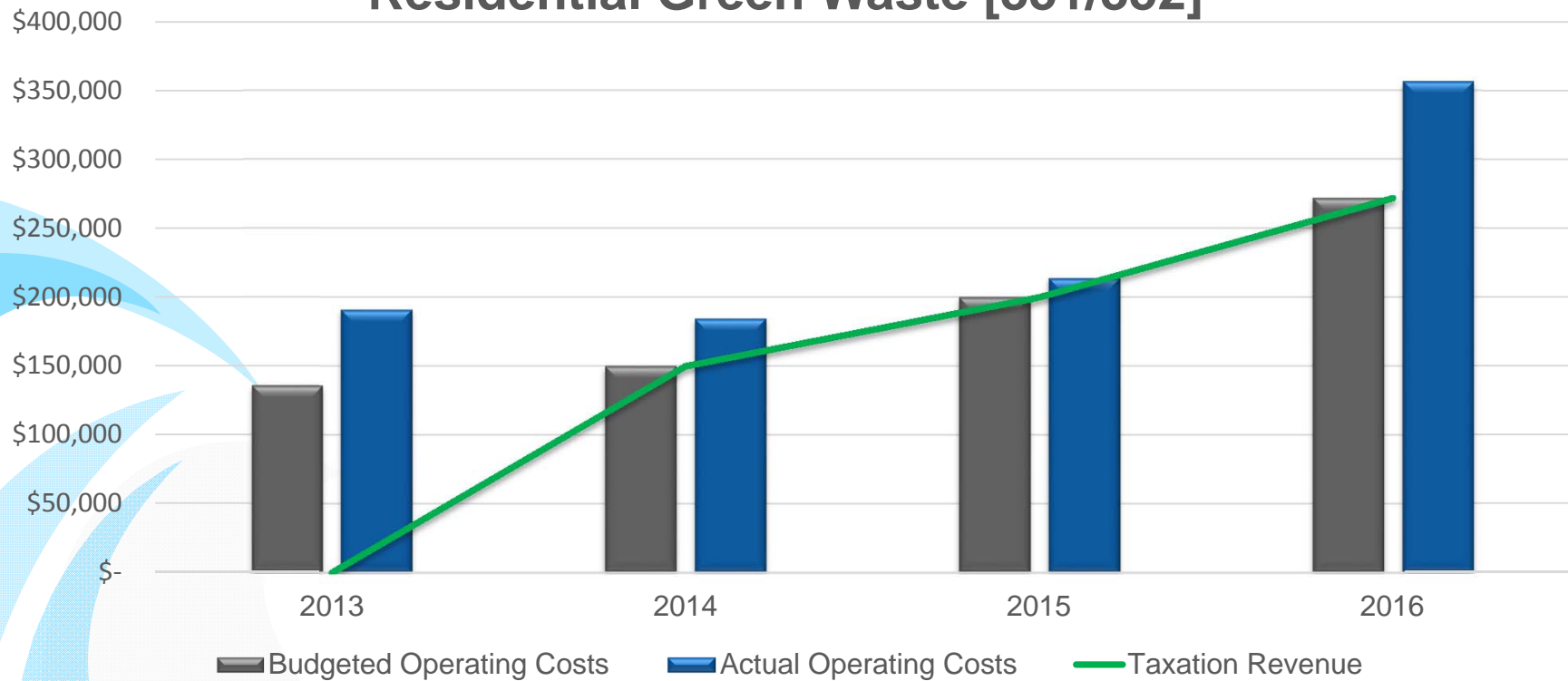
Funding & Expenditures

Sechelt Landfill [352]



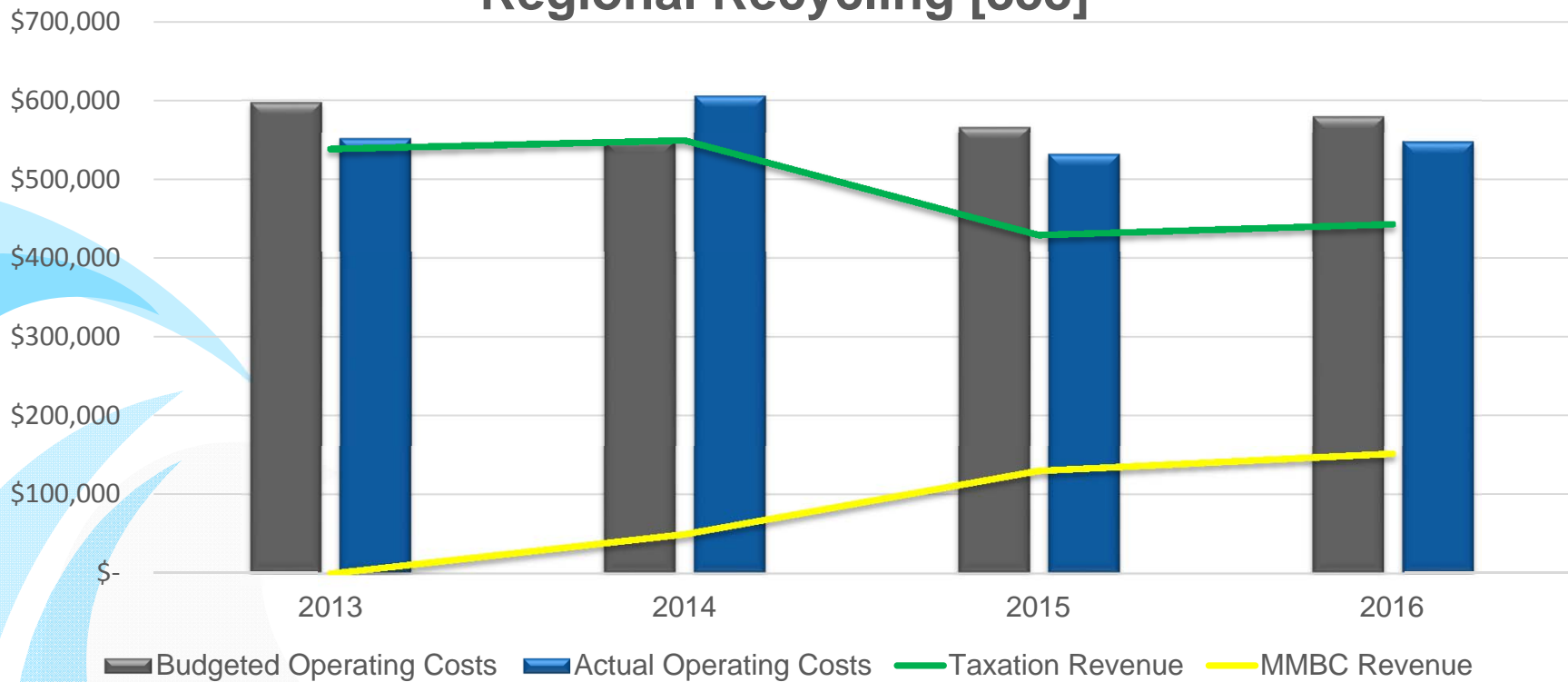
Funding & Expenditures

Residential Green Waste [351/352]



Funding & Expenditures

Regional Recycling [353]

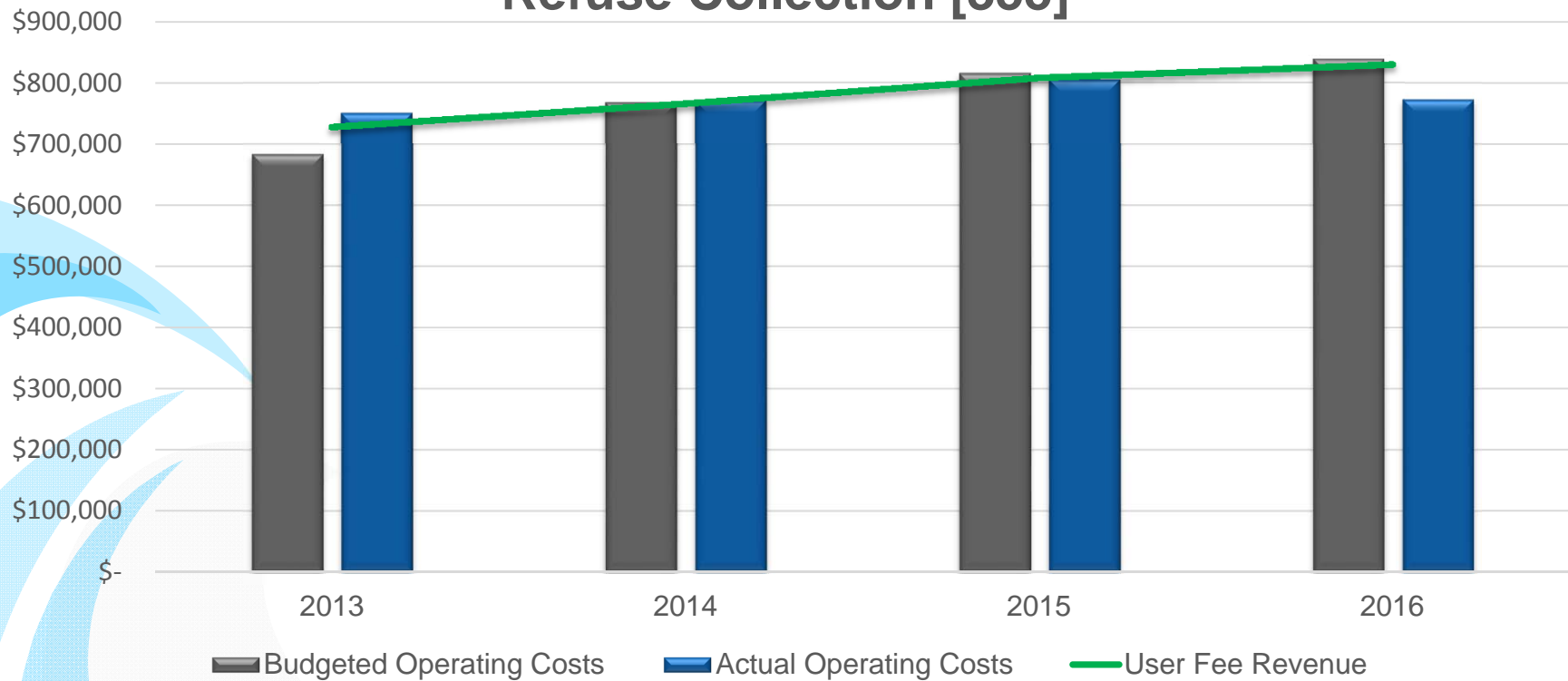


Note: Taxation and MMBC Revenue equals the total budgeted operating costs



Funding & Expenditures

Refuse Collection [355]



Tools

- Advocacy: AVICC, UBCM
- Bylaws: new, update
- Eco-fee reserves
- Education and outreach including CBSM
- Service level and types: change service delivery model, change hours of operation, add or remove services
- Site regulations
- Tipping Fees



Outside of the Box Thinking

Regional Solid Waste [350]

Challenges

- Illegal dumping is multi-jurisdictional
- Illegal dumping is limited to clean up and volunteers
- Shoreline debris
- No recycling at remote container sites (Islands)
- Islands Clean Up is once per year
- Education is limited to outreach on existing services & programs

Opportunities

- Illegal dumping prevention program
- Recycling at remote container sites
- Increase frequency for Islands Clean Up
- Add staff to develop & implement education program



Outside of the Box Thinking

Pender Harbour Solid Waste [351]

Challenges

- Transfer station, materials require transport
- Increased summer traffic and wait times
- Small site

Opportunities

- Open on Tuesdays in the summer due to higher volume
- Add cardboard as recyclable item in Bylaw
- Add food as recyclable item in Bylaw
(as part of comprehensive regional organics strategy)
- Change tipping fees



Outside of the Box Thinking

Sechelt Solid Waste [352]

Challenges

- Approx. 15-17 years remaining
- Increased traffic and wait times
- Increased costs for diversion and recycling

Opportunities

- Re-open on Mondays due to high volume and requests from haulers
- Add a second scale to separate inbound & outbound traffic
- Add cardboard as recyclable item in Bylaw
- Add food as recyclable item (as part of comprehensive regional organics strategy)
- Change tipping fees



Outside of the Box Thinking

Residential Green Waste [351-352]

Challenges

- Increased costs based on increased tonnage
- Depot only service, residents must deliver to sites
- Gibsons site – green waste drop-off only; no other materials

Opportunities

- Offer curbside collection of green waste
- Build a Transfer Station on the South Coast to accept wide range of recyclables and garbage
- Home Composting program



Outside of the Box Thinking

Regional Recycling [353]

Challenges

- Depot-only service, residents must deliver to sites
- Contracted service
- Differing hours of operations, differing seasonal closures
- Depots are required for polystyrene, film plastic and glass
- Current service level is only for MMBC items (and books in Gibsons)
- Limited or no recycling option on Coast for household hazardous materials e.g. oil, anti-freeze, chemicals

Opportunities

- Offer curbside collection of recycling
- Increase operating hours for Sechelt Recycling Depot
- Add additional items for recycling at depots
- Offer annual household hazardous waste collection event



Outside of the Box Thinking

Refuse Collection [355]

Challenges

- One bin size and one rate not equitable
- Black garbage bag
- Over 45% of residential garbage is recyclable
- Coupon program is contrary to waste reduction, requires delivery to the site, Pender residents are not paying for the program

Opportunities

- Pay-as-you-throw garbage with bin size options
- Clear bag for garbage
- Introduce other services e.g. food scraps, green waste, recycling
 - Every-other-week for garbage
- Cancel coupon program; replace with large item pick-up program



Next Steps

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