

# 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

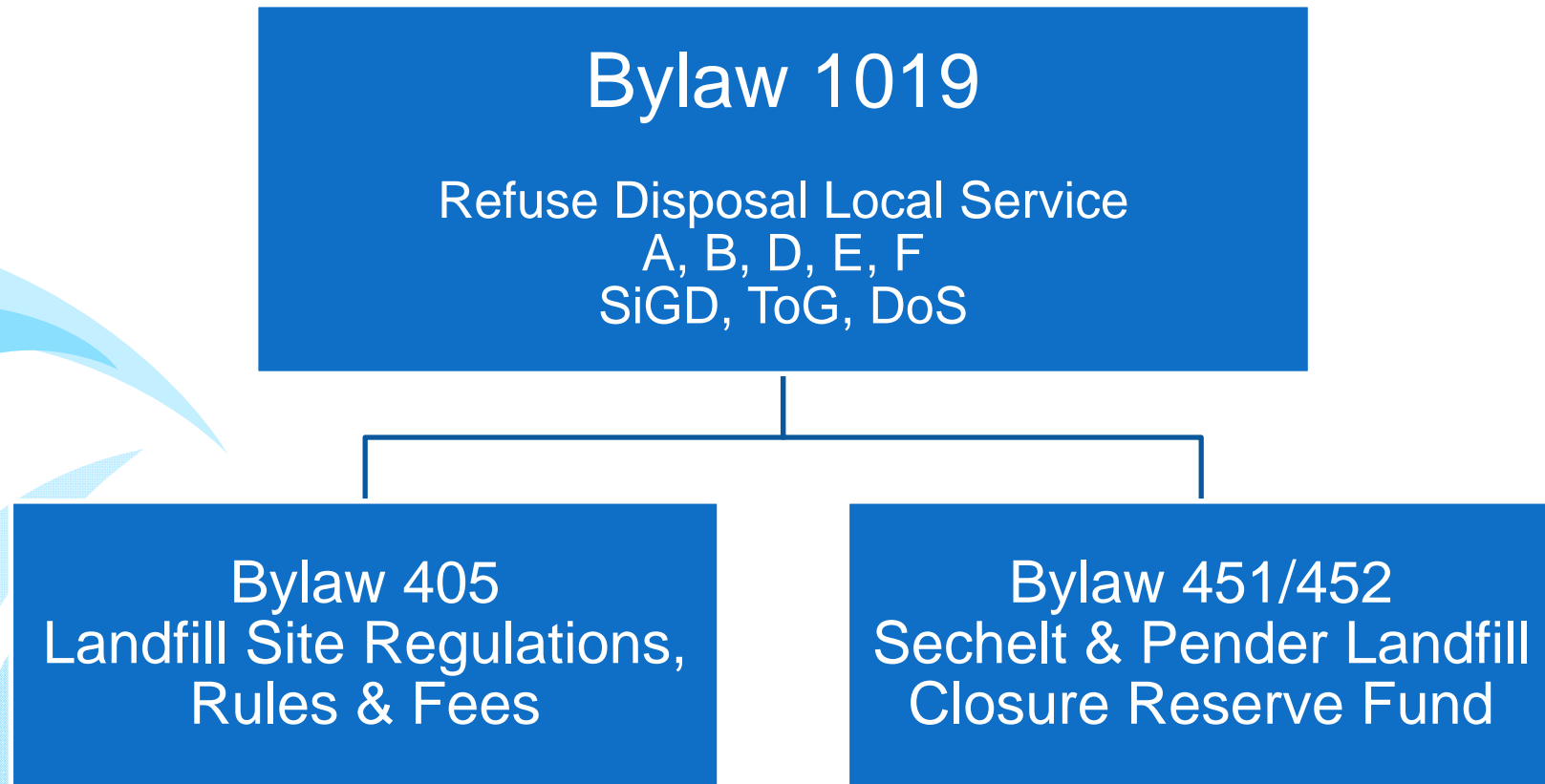


# Local Context

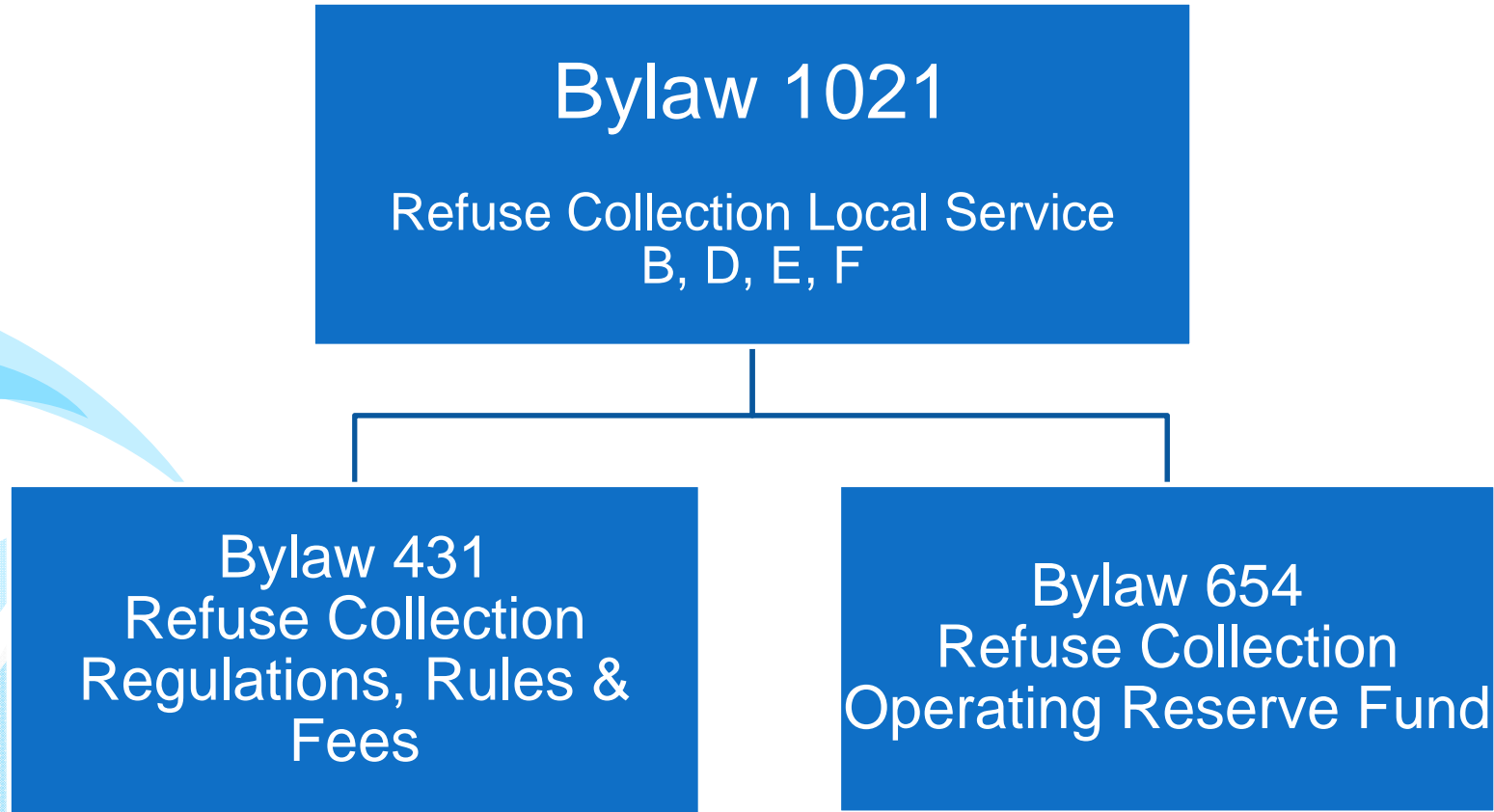
- Few contractors, minimal competition
- Influenced by seasonal residents and visitors
- Increase in residents from lower mainland
- Landfill & Transfer Station subject to market conditions
  - Many materials require delivery off-coast for processing
  - Good economy = increased tonnage received
  - 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**

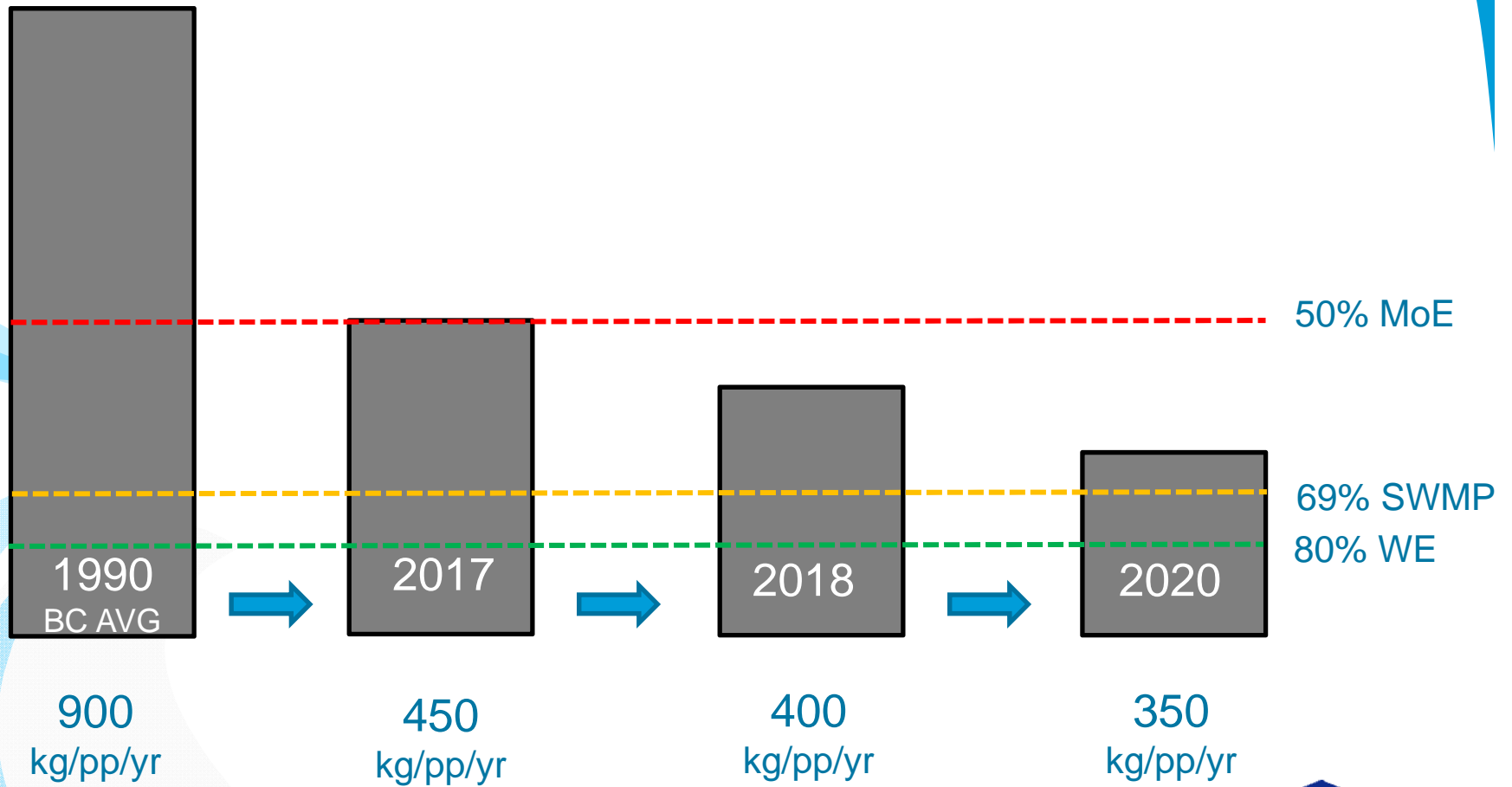
2011

**SWMP  
Adopted &  
Approved**

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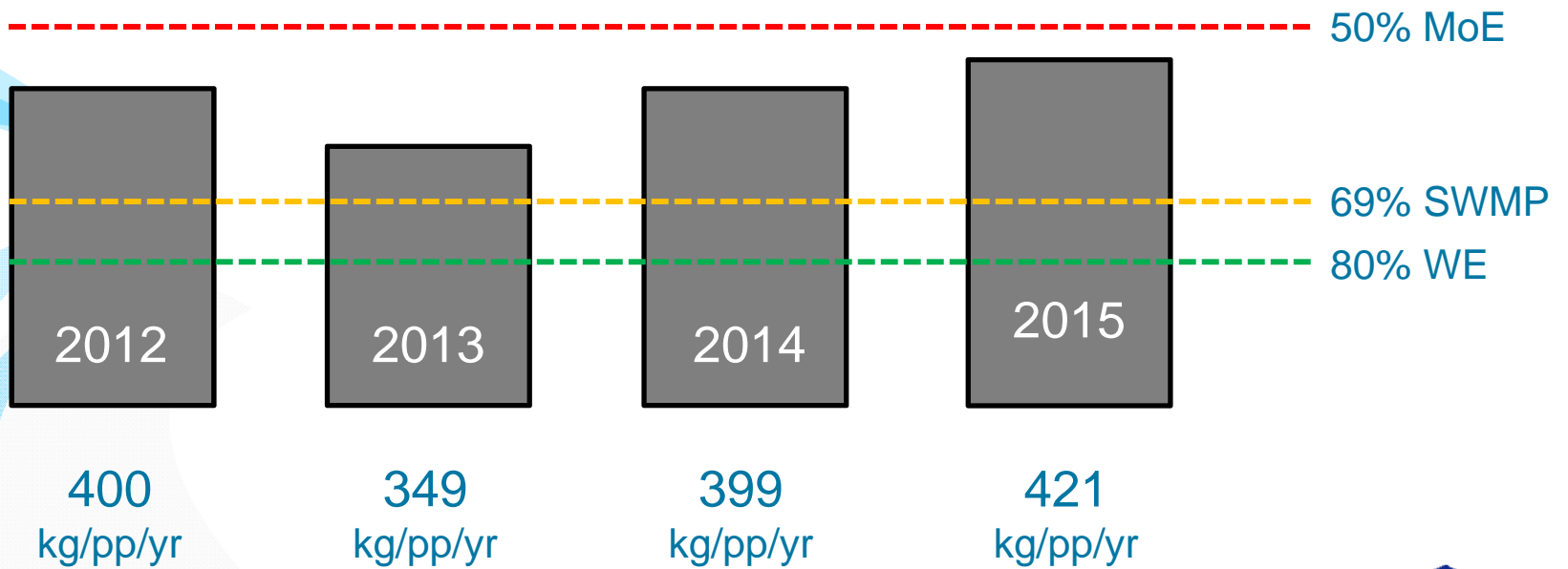


# Targets: Per-capita Disposal



# SCRD Per-capita Disposal

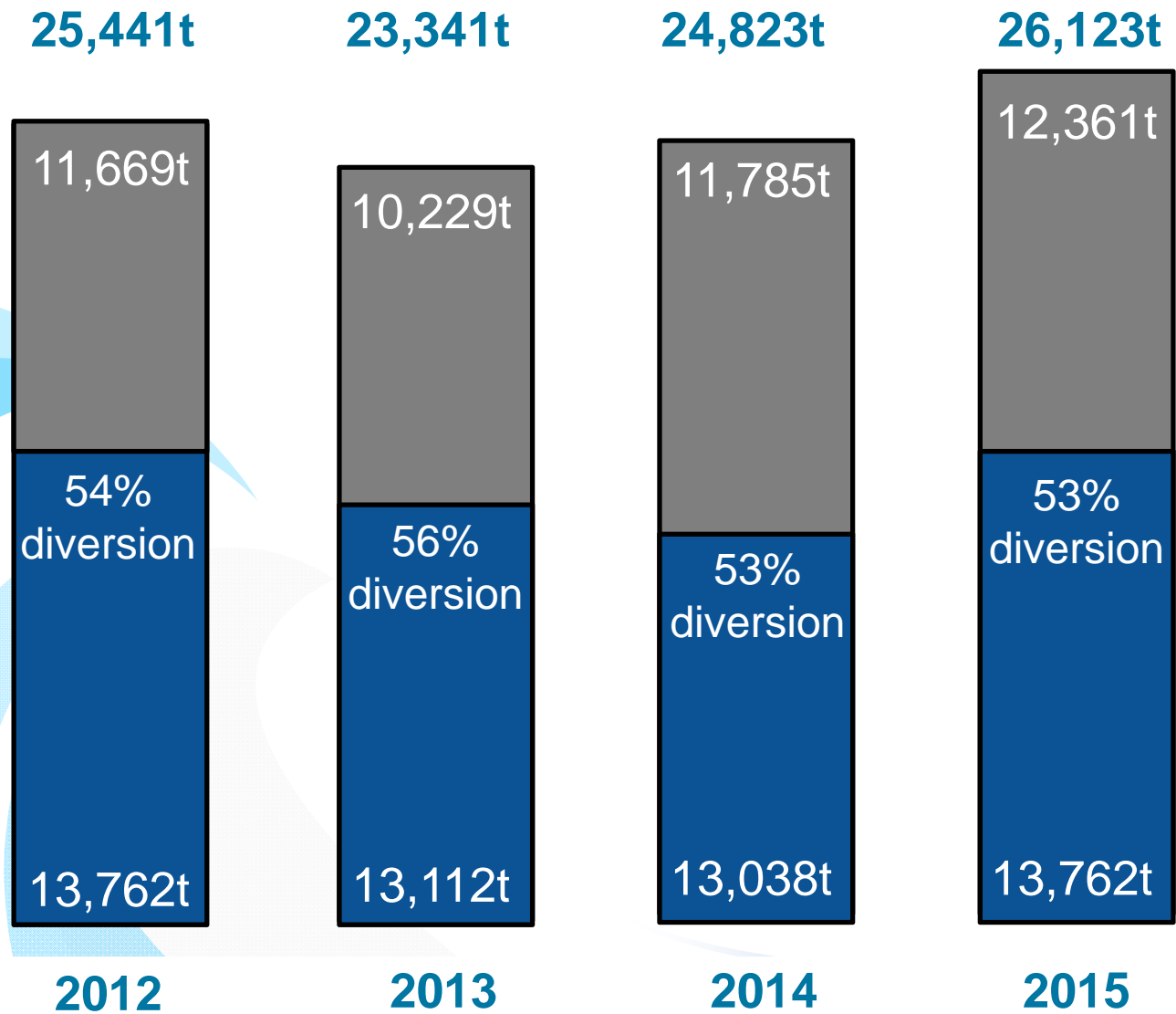
## Targets



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# SCRD Regional Diversion





# SCRD Disposal & Diversion

<b>Disposal and Diversion (t)</b>	<b>2009*</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Disposal</b>								
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
<b>Total disposal</b>	<b>13,045</b>	<b>13,045</b>	<b>12,955</b>	<b>12,169</b>	<b>11,679</b>	<b>10,229</b>	<b>11,785</b>	<b>12,361</b>
<b>Diversion</b>								
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
<b>Total diversion</b>	<b>11,750</b>	<b>11,750</b>	<b>12,592</b>	<b>11,825</b>	<b>13,762</b>	<b>13,112</b>	<b>13,097</b>	<b>13,762</b>
<b>Total waste generation (disposal + diversion)</b>	<b>24,795</b>	<b>24,795</b>	<b>25,547</b>	<b>23,994</b>	<b>25,441</b>	<b>23,341</b>	<b>24,883</b>	<b>26,123</b>
<b>Diversion rate (diversion/waste generation)</b>	<b>47%</b>	<b>47%</b>	<b>49%</b>	<b>49%</b>	<b>54%</b>	<b>56%</b>	<b>53%</b>	<b>53%</b>
<b>Population</b>	<b>29,551</b>	<b>28,528</b>	<b>28,590</b>	<b>28,918</b>	<b>29,222</b>	<b>29,270</b>	<b>29,512</b>	<b>29,390</b>
<b>Disposal per person per year (kg)</b>	<b>441</b>	<b>457</b>	<b>453</b>	<b>421</b>	<b>400</b>	<b>349</b>	<b>399</b>	<b>421</b>

**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

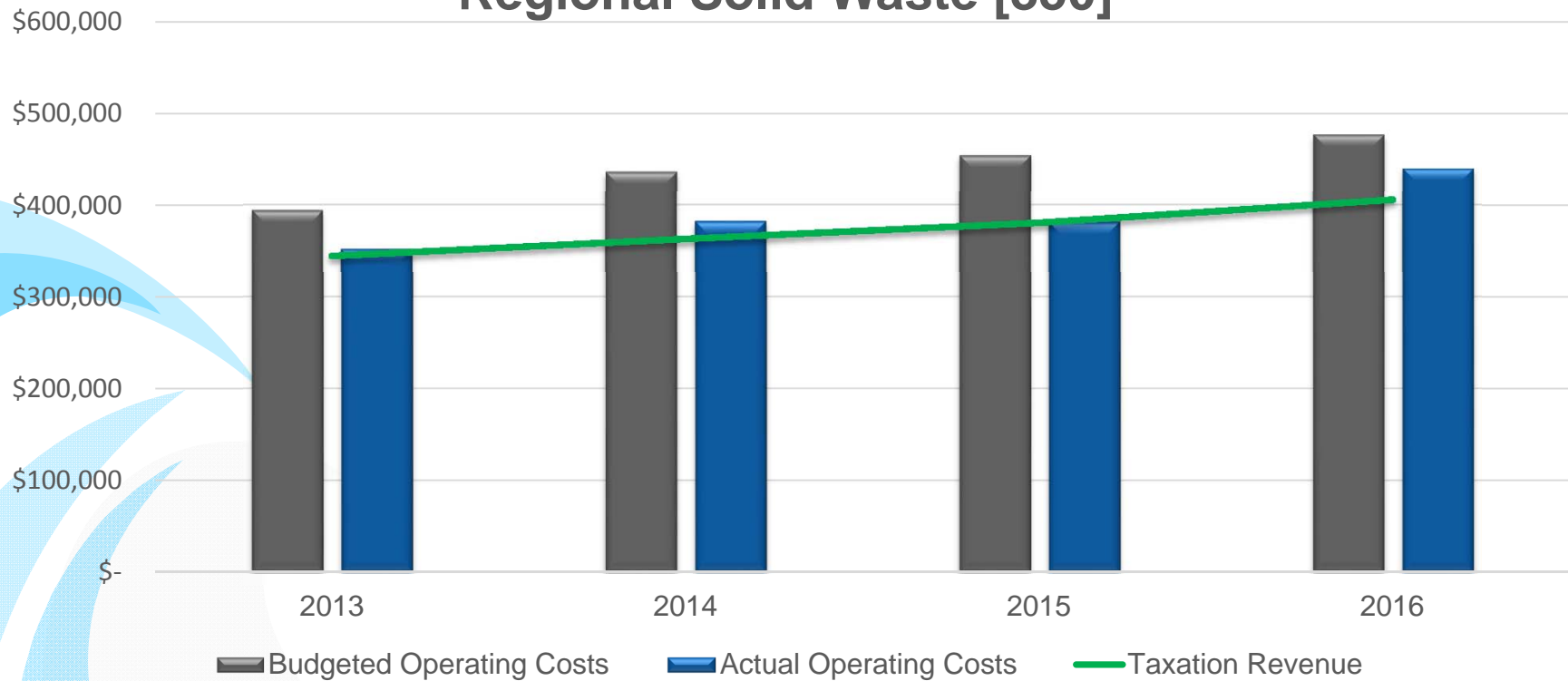
Note: Area A residences receive coupon; funded from Pender Harbour Transfer Station [351]

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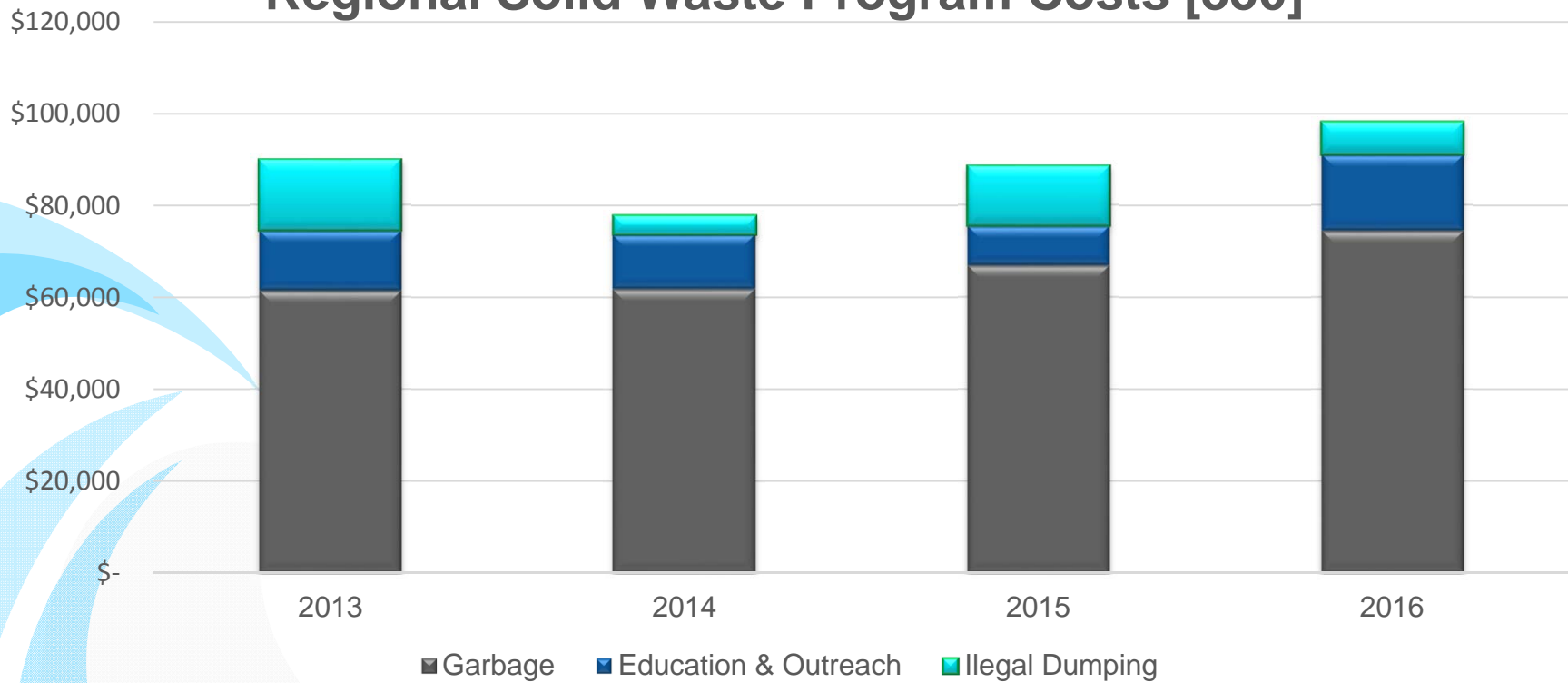
# Funding & Expenditures

## Regional Solid Waste [350]



# Funding & Expenditures

## Regional Solid Waste Program Costs [350]



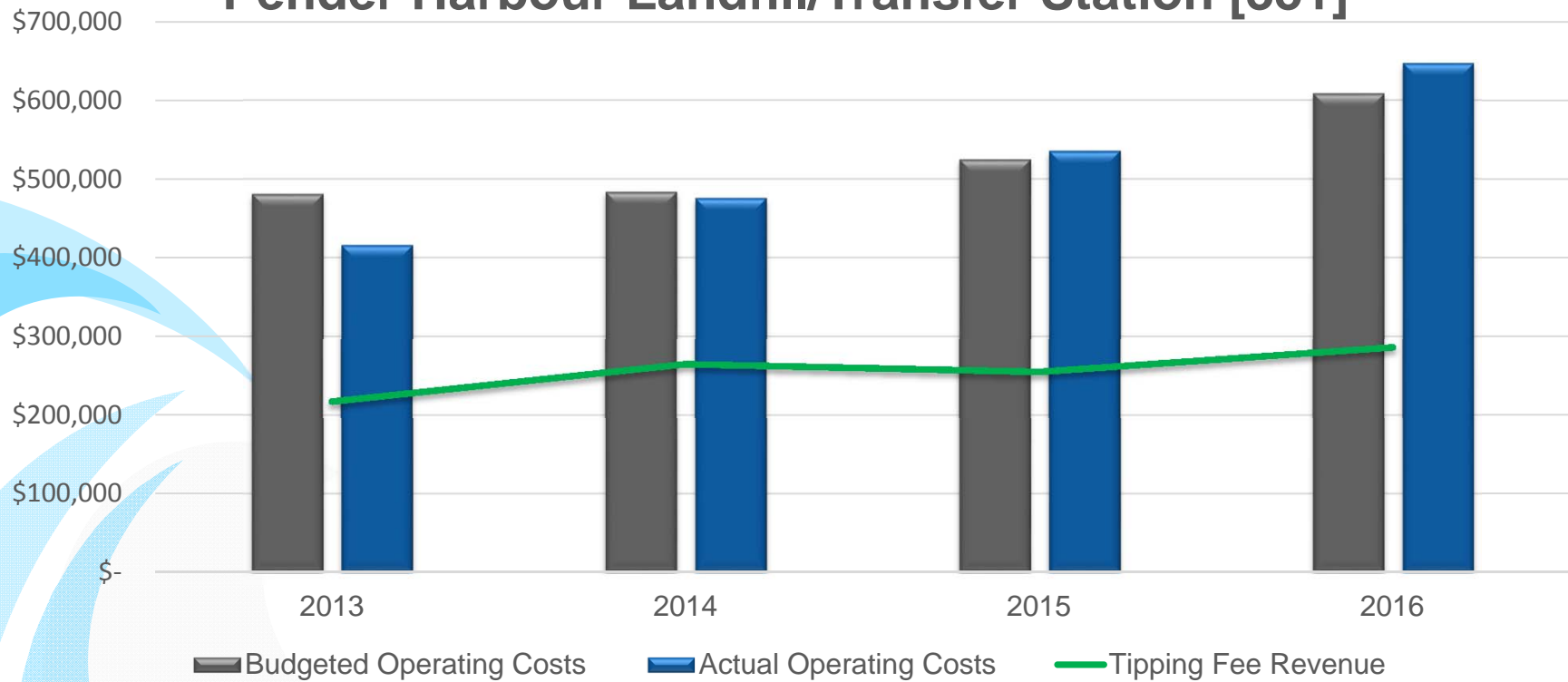
Garbage:  
Islands Clean Up  
Garbage containers

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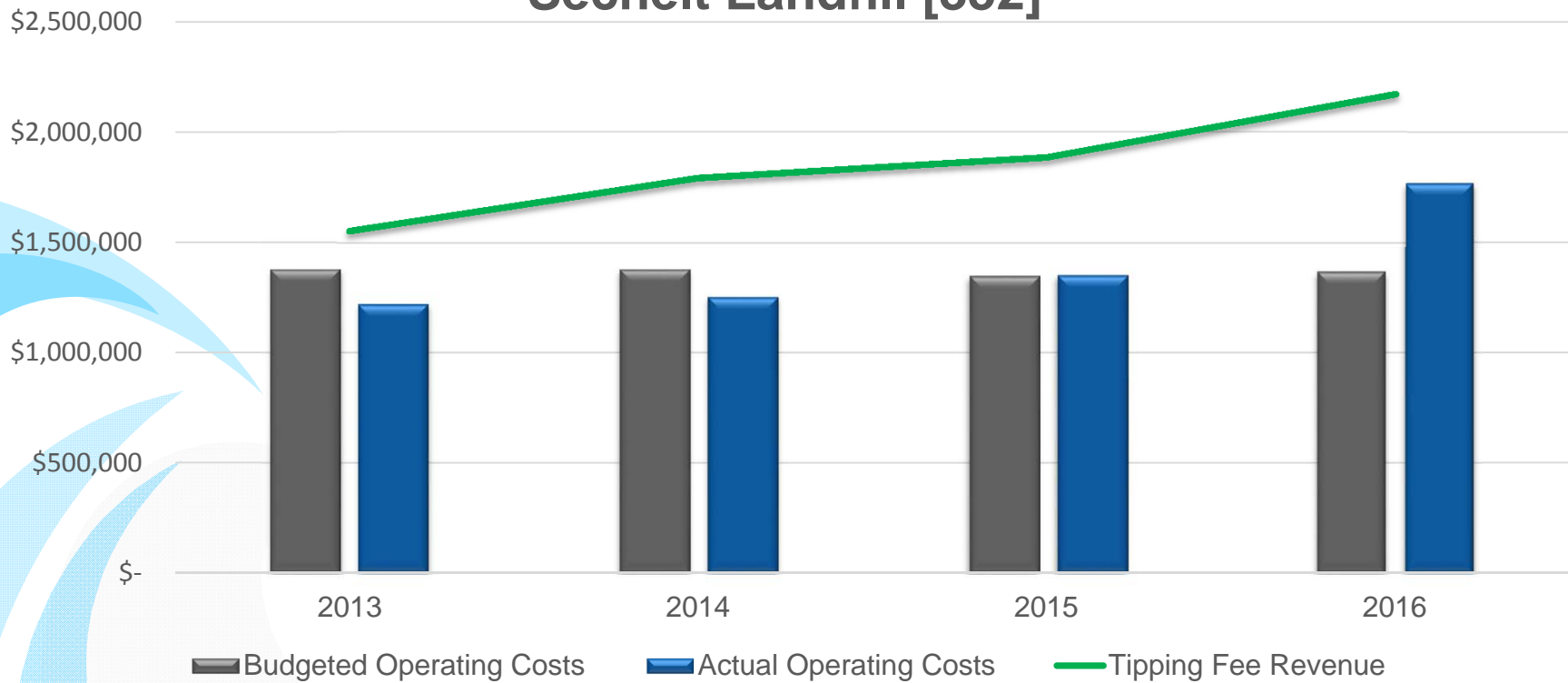
# Funding & Expenditures

## Pender Harbour Landfill/Transfer Station [351]



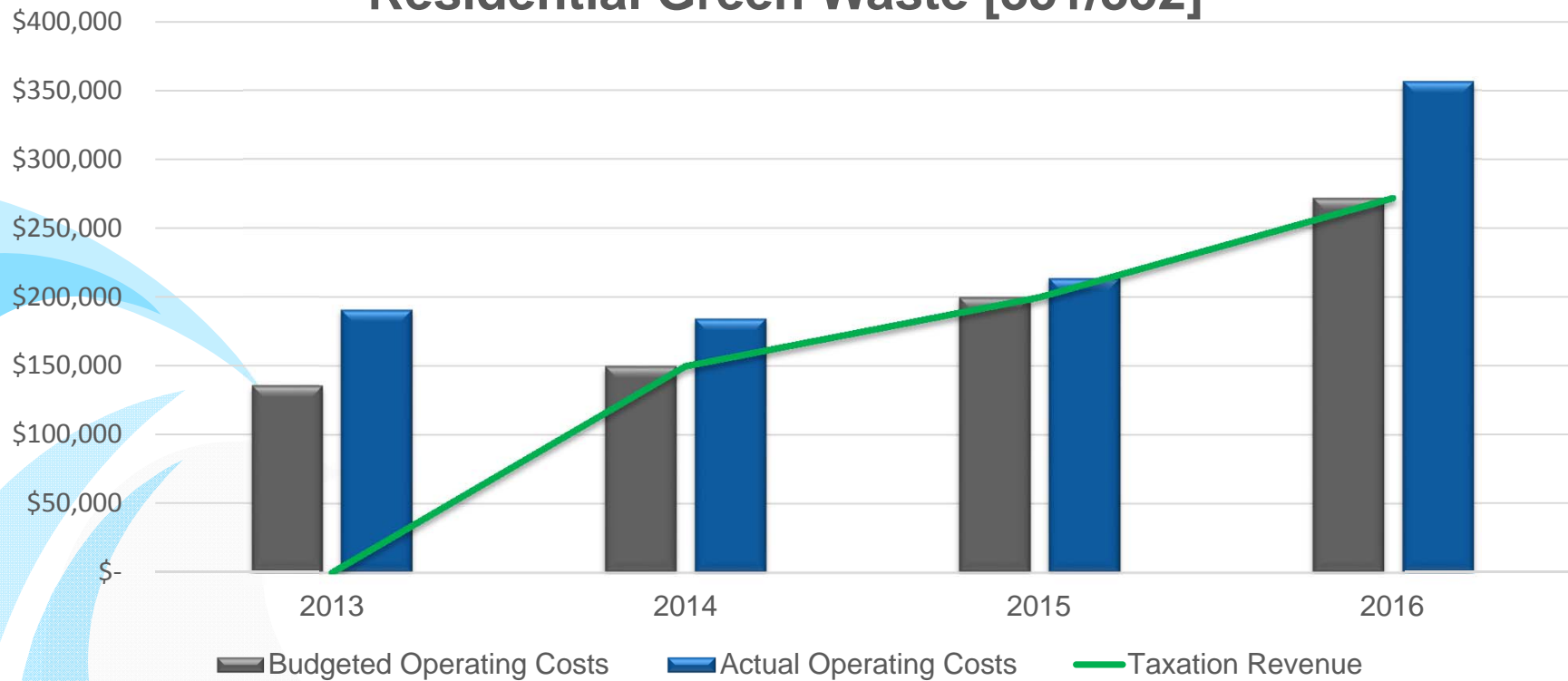
# Funding & Expenditures

## Sechelt Landfill [352]



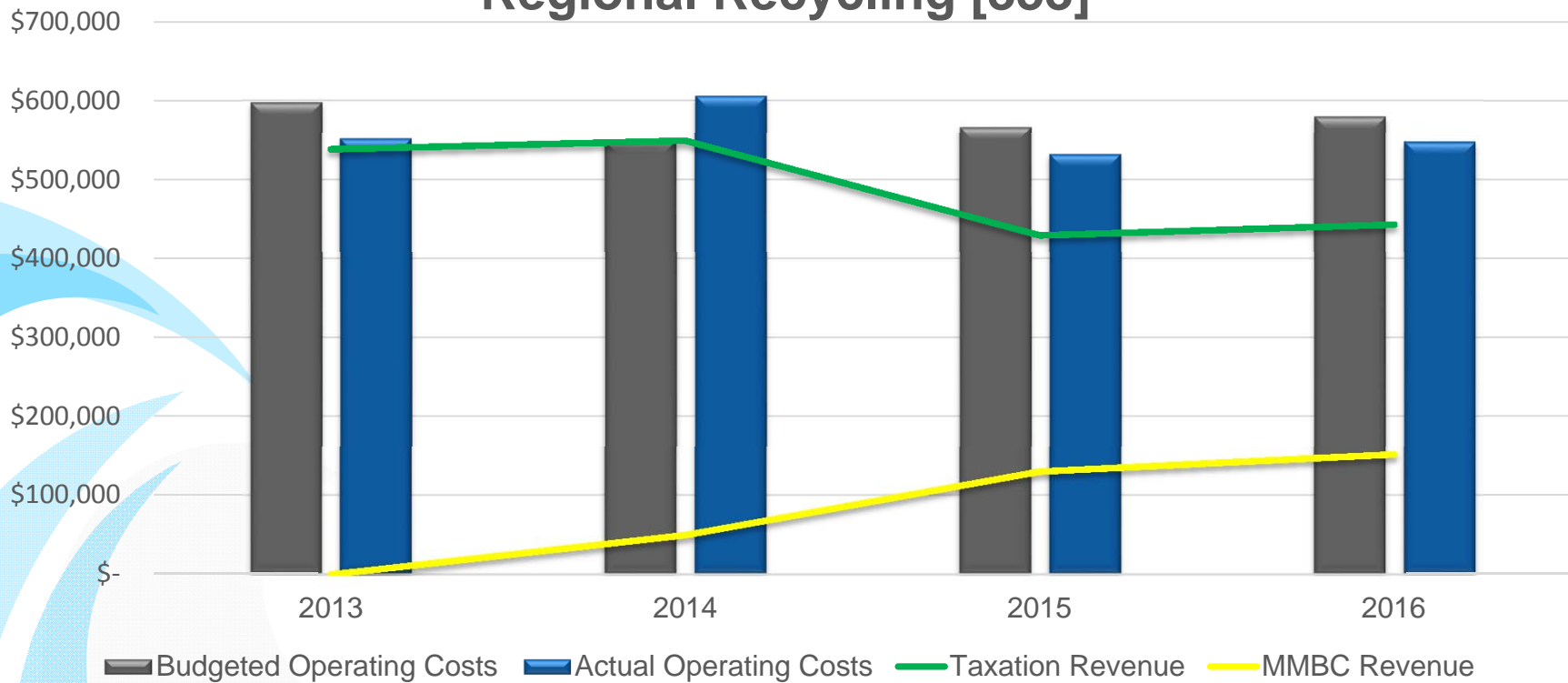
# Funding & Expenditures

## Residential Green Waste [351/352]



# Funding & Expenditures

## Regional Recycling [353]

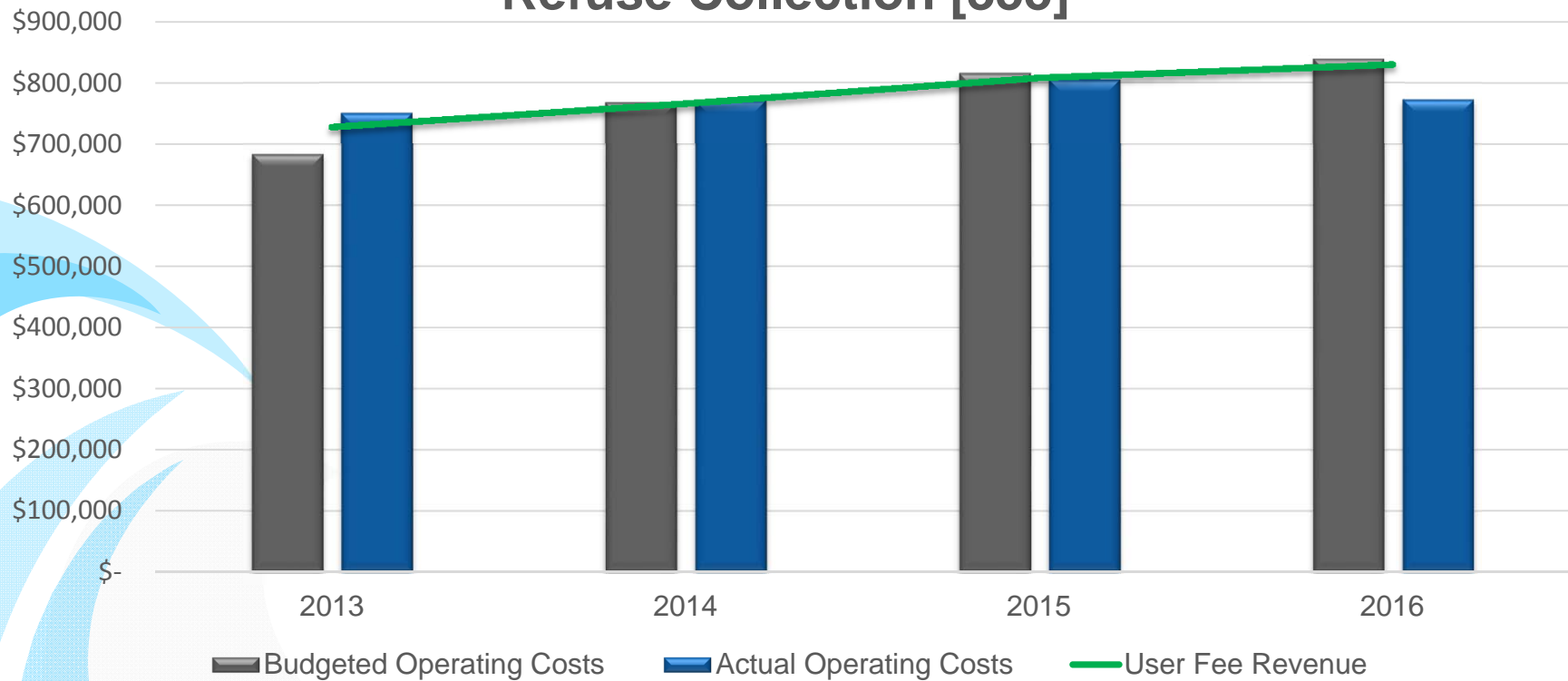


Note: Taxation and MMBC Revenue equals the total budgeted operating costs



# 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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