
THIS WAY
THAT WAY
ANOTHER WAY
King County
Department of
Natural Resources and Parks
Solid Waste Division
Waste Prevention
Resource Recovery
Waste Disposal
Comprehensive Plan
Recommendations for Regional Advancement
6/7/2018
1


Key Policy Choices
PAPER
GLASS
METAL
PLASTIC
%
Long Term Disposal
Transfer Services
Recycling Policy
2019/20 Rate
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All The Easy Choices Have Already Been Made!
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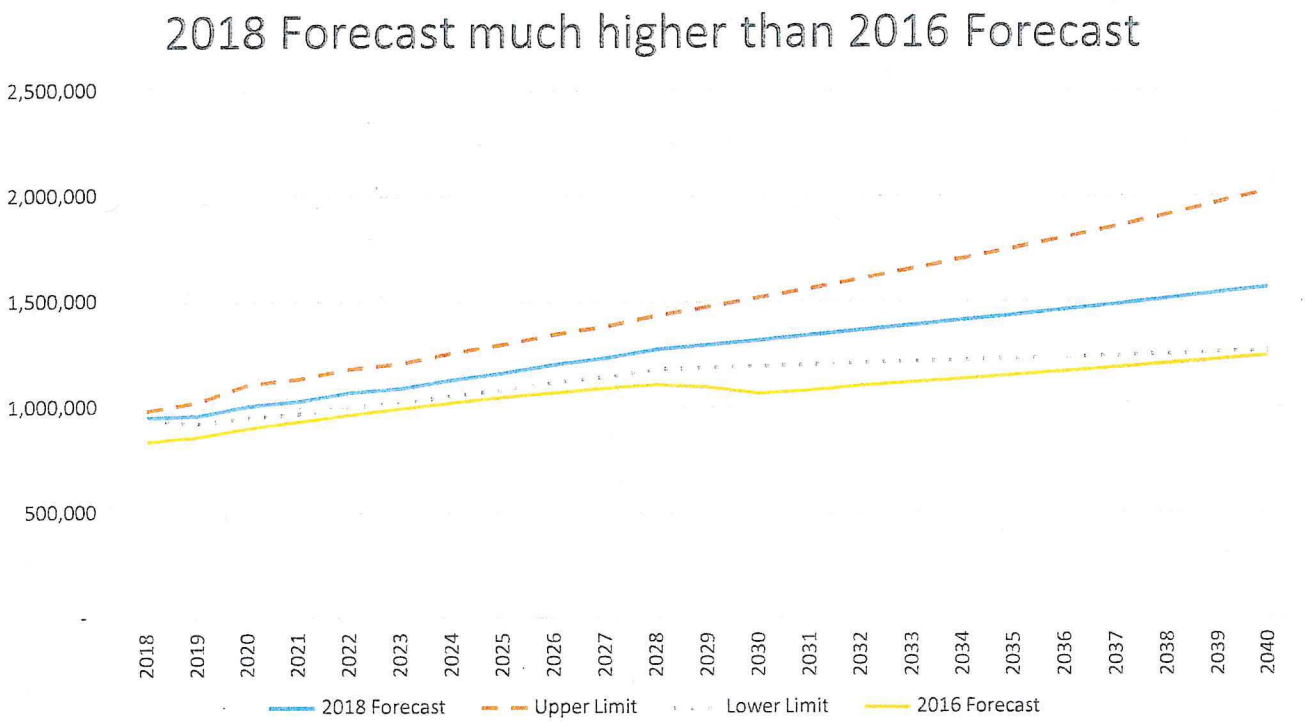
2018 Forecast much higher than 2016 Forecast
2,500,000
2,000,000
1,500,000
1,000,000
500,000
-
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2018 Forecast
Upper Limit
Lower Limit
2016 Forecast


Cedar Hills Reaches Capacity in 2028 – What's Next?
Long Term Disposal
• Build capacity to 2040
• Export waste via rail
• Build a Waste to Energy facility
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We only have 10 years to implement the right solution!
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Comparison of Long Term Disposal Options

COMPARATIVE ATTRIBUTE	FURTHER DEVELOP CEDAR HILLS CAPACITY	EXPORT TO OUT-OF-COUNTY LANDFILL	WASTE-TO-ENERGY FACILITY
Cost per Ton (2029$)	$41	$55	$136
Rate (2029$)	$172	$182	$230
Curbside Customer Impact Per Month (2029$)	$9.20	$9.30	$11.31
Life Cycle Greenhouse Gas Emissions (EPA's WARM Model)	(131,000) MTCO2e	(77,000) MTCO2e	12,000 to 80,000 MTCO2e
Annual Greenhouse Gas Emissions (EPA's eGGRT)	95,000 MTCO2e/year	95,000 MTCO2e/year	1,200,000 MTCO2e/year
Recycling Rate	No change	No change	2% increase
Risks	SEPA, Permitting	Rail Capacity, Control	Siting, Sizing

Cedar Hills Is Best Choice for Long Term Disposal

- Cedar Hills Advantages
  - Lowest Rate Impact
  - Most Favorable GHG
  - Manages Waste Locally
  - Maintains System Control
  - Lowest Experience Risk
  - Anticipate City Support
- Export
  - Rail Capacity Risks
  - Higher Rate Impact
- Waste to Energy
  - Highest Rate Impact
  - SEPA/Siting Challenges
  - Plant Sizing Risks

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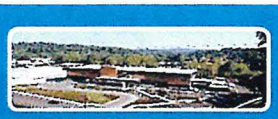
Will Northeast Be Only Urban Area Without Full Service Station?



Transfer Services

- Keep Houghton "As-Is"?
- Site and build a new facility?
- Use a combination of facilities?

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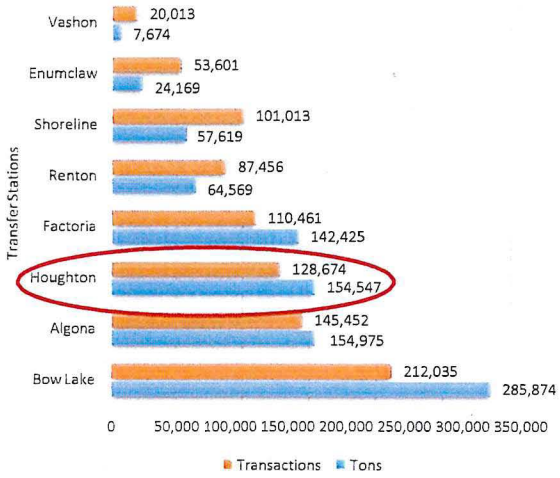
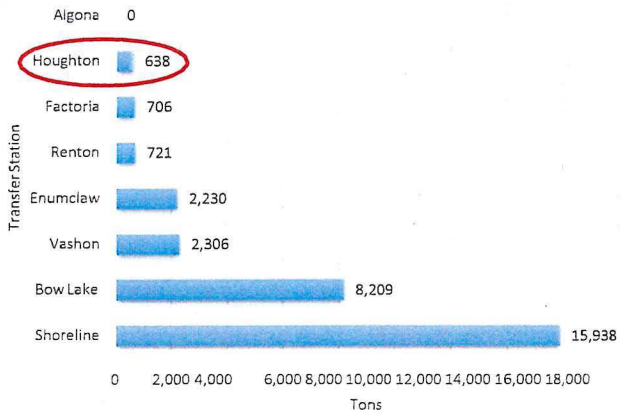
Tons/Transactions vs Recycling at Stations

Houghton is Third Busiest King County Transfer Station
2017 Tons and Transactions



Houghton Collects the Least Amount of Recyclables of King County Transfer Stations that Collect Recyclables
2017 Recycling Tons



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Full Service Station Costs More But Offers Greatest Flexibility and Environmental Benefits

Comparative Attribute	Houghton "As Is"	NERTS	Combo
Total cost per Ton (2029)	$2.39	$13.11	$9.79
GHG Reductions from Station Recycling (2029)	(2,165 MTCO2e)	(32,098 MTCO2e)	(28,802 MTCO2e)
Which of the 6 Key Levels of Service are Supported?	• ~~Daily Tonnage Capacity~~ • ~~Vehicle Capacity~~ • ~~Compaction~~ • ~~Recycling~~ • ~~Time On Site~~ • ~~Emergency Storage~~	• Daily Tonnage Capacity • Vehicle Capacity • Compaction • Recycling • Time On Site • Emergency Storage	• Daily Tonnage Capacity • Vehicle Capacity • ~~Compaction~~ • ~~Recycling~~ • Time On Site • ~~Emergency Storage~~
Recycling	• 3 Recyclable Materials	• 8+ Recyclable Materials	• 6 Recyclable Materials
Risks	• Limited Recycling • Little Flexibility For The Future • Host City Opposition	• Station Siting May Take Time And Be Costly • Potential Host City Opposition	• Limited Recycling • Less Future Flexibility • Siting Can Take Time • Potential Host City Opposition

NERTS is Best Choice for Environment, Equity & Service

- NERTS Advantages
  - Addresses Regional Inequities
  - Maximizes Service Offering
  - Most Favorable GHG
  - Most Cities Support Approach
  - Consistent with Long Standing Regional Plan
- Combo
  - Siting Challenges Multiplied
  - See Houghton "As-Is" Issues
- Houghton "As-Is"
  - Minimal Recycling
  - Low Operational Efficiency
  - Host City Concerns

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NERTS is the most expensive option, but less than $1/month)

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China's "National Sword" Policy Is Causing Region to Rethink Our Own Recycling Policy

- Cities have been asking for a menu of choices for recycling policies.
- This is now in question given the resource contamination that has challenged global markets - "Wishful Recycling"
- New task forces are formed in King County and across the State to pursue more unified approaches.

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It's too confusing – no wonder there is contamination

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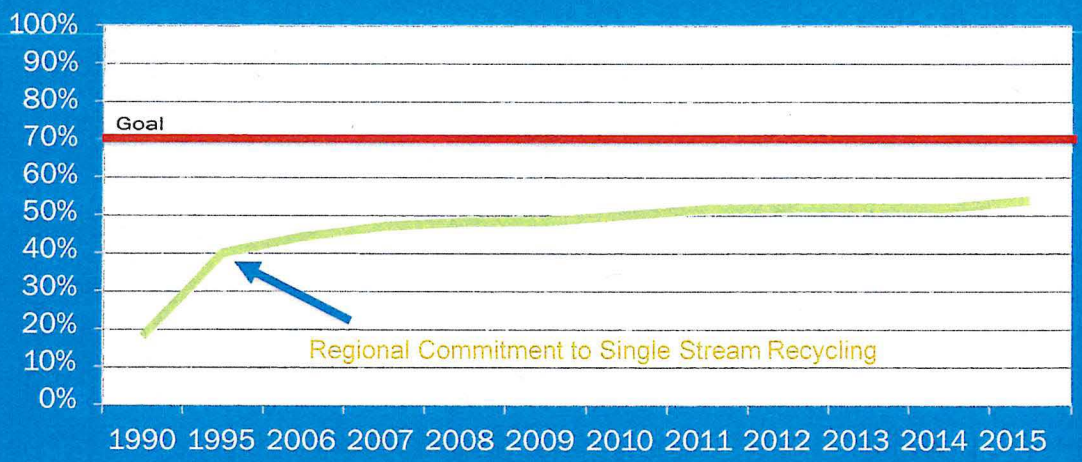

Regional Recycling Rate

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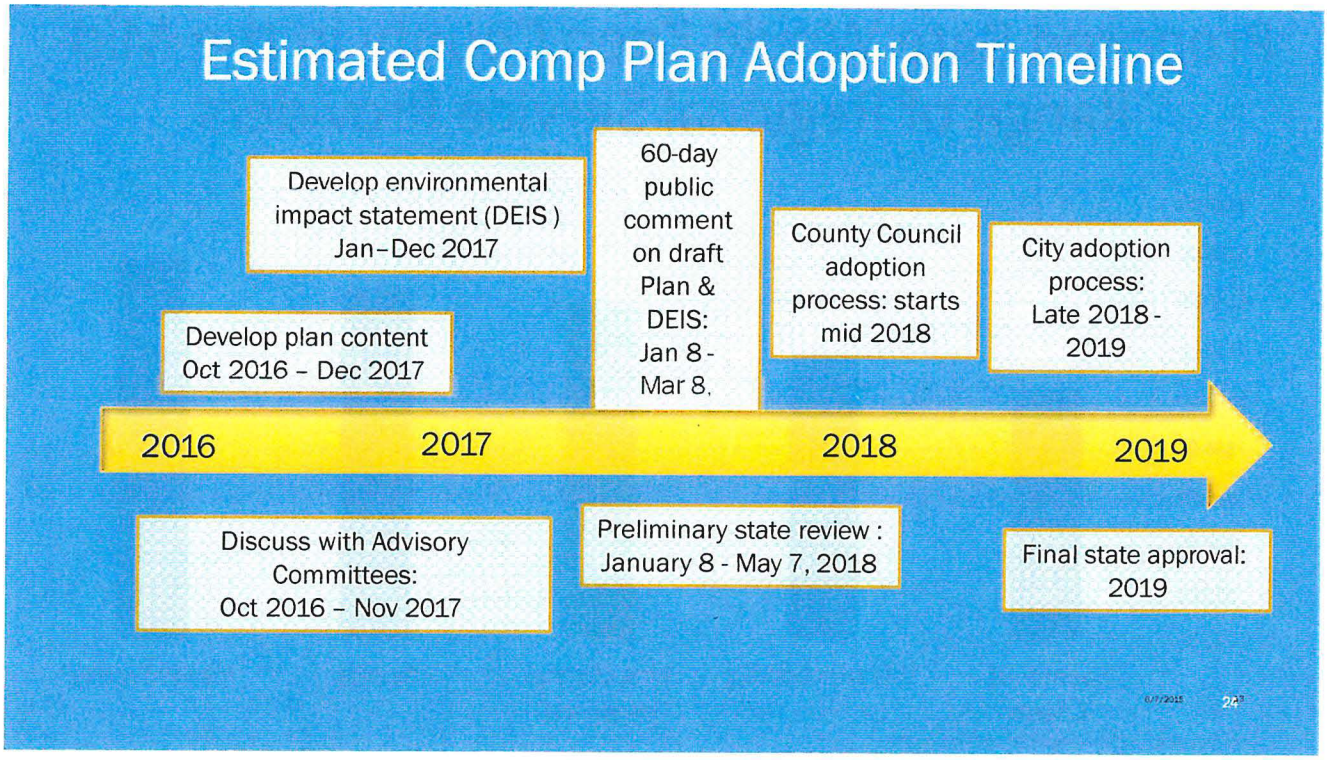
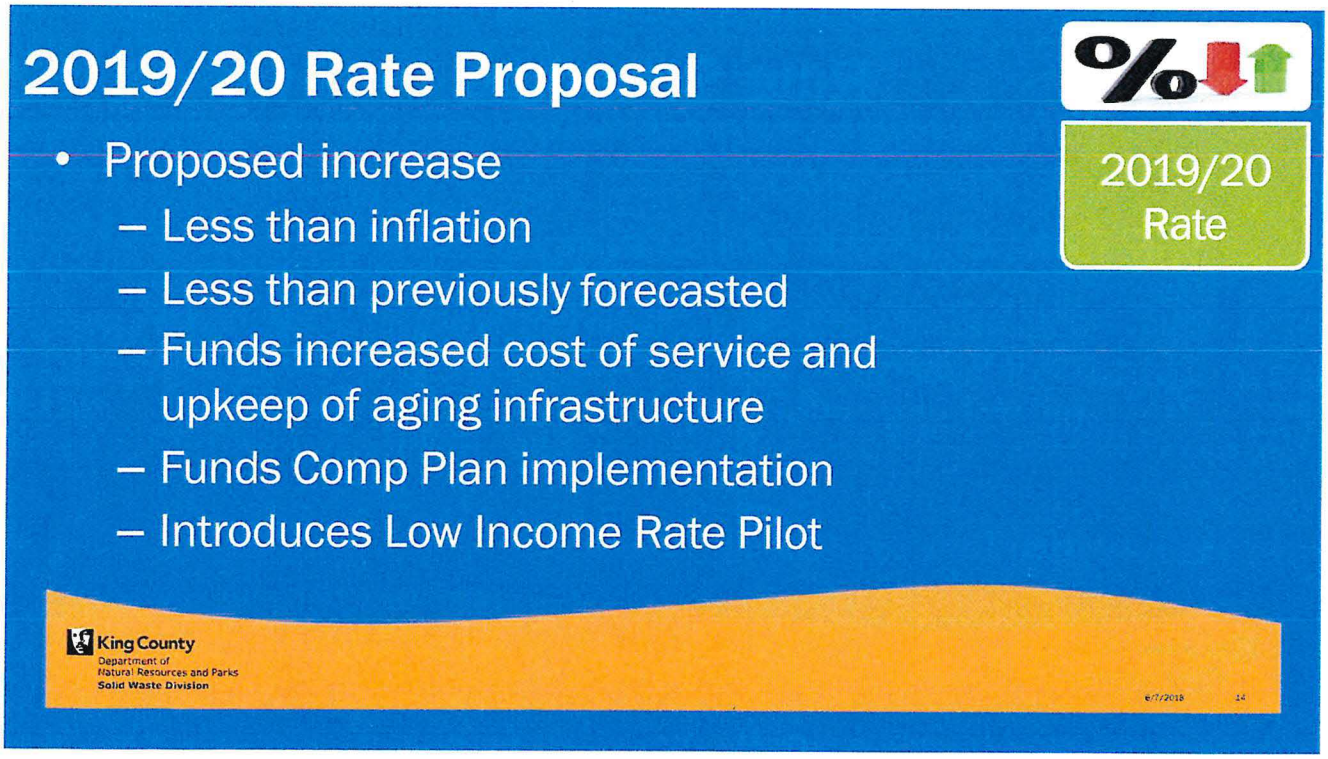

Estimated Comp Plan Adoption Timeline
Develop environmental impact statement (DEIS) Jan–Dec 2017
60-day public comment on draft Plan & DEIS: Jan 8 - Mar 8,
County Council adoption process: starts mid 2018
City adoption process: Late 2018 - 2019
Develop plan content Oct 2016 – Dec 2017
2016
2017
2018
2019
Discuss with Advisory Committees: Oct 2016 – Nov 2017
Preliminary state review : January 8 - May 7, 2018
Final state approval: 2019


2019/20 Rate Proposal
2019/20 Rate
• Proposed increase
– Less than inflation
– Less than previously forecasted
– Funds increased cost of service and upkeep of aging infrastructure
– Funds Comp Plan implementation
– Introduces Low Income Rate Pilot
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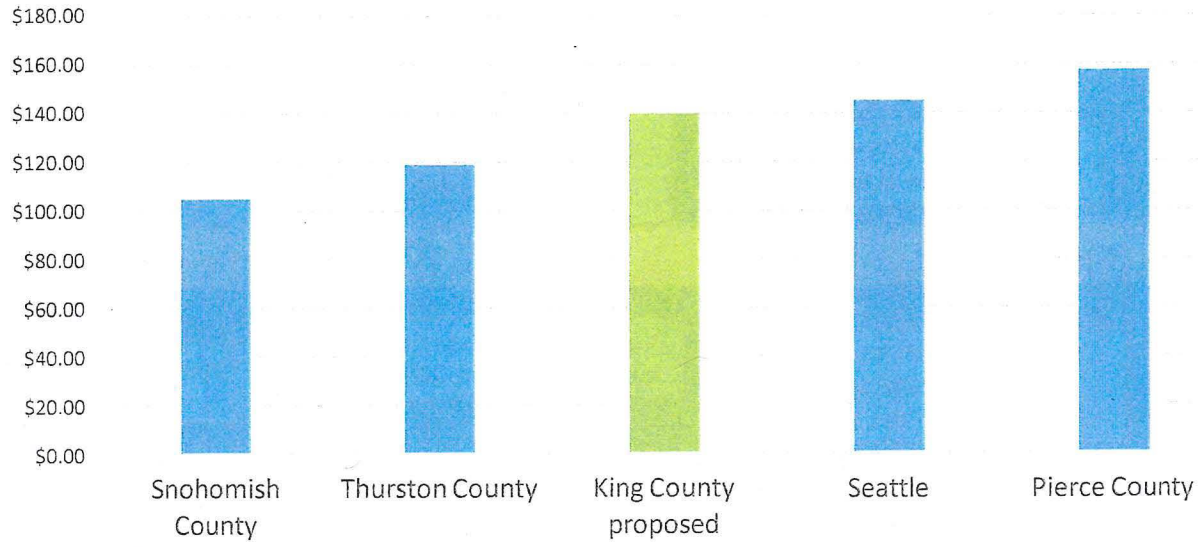
Proposed Rate Would Keep County in the Mid-Range of Regional Service Providers



Source: County and Seattle websites, accessed March 13, 2018.

Rate Schedule

- County Decision Making
  - To the County Council on June 28, 2018
  - County must approve rates by the end of September to meet advance notice requirements for WA Utilities and Transportation Commission and partner cities
- Effective Date: January 1, 2019

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Waste **Prevention** | *Resource* **Recovery** | *Waste* **Disposal**

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