



# The Timeline

WORKING GROUP MEETING – 03/01/21

# RENEWALS

- First Renewal Term started = 7/3/18
- Second Renewal Term would start = 7/3/23
- Final Renewal Term would start = 7/3/28



# SECOND RENEWAL

- Deadline to Renew = 1/15/22
- All Contracted Processable Waste would be required to be delivered to South Waste-to-Energy Plant
- Two Preconditions on Renewal



# SECOND RENEWAL PRECONDITIONS

- 425,000 tons of Contracted Processable Waste delivered each year of current contract term ✓
- Binding commitment from local governments whose residents and businesses have generated **at least 500,000 tons of waste/year** to deliver all Contracted Processable Waste to South Waste-to-Energy Plant
  - Commitment may be by ILA or direct contract
  - The 500,000 tons based on tonnage provided to WES during last contract year
  - For governments not currently participating, it will be based on an affidavit





# The Need

WORKING GROUP MEETING – 03/01/21

**Table 5A**  
**Final Disposition of Municipal Solid Waste (2013)**  
 Excludes recycling credits for renewable energy and yard trash beneficially using landfill gas.  
 By Descending Population

County	Population <sup>1</sup>	Total MSW Collected Tons	Municipal Solid Waste								
			Recycled				Landfilled		Combusted		
			Certified Tons	Non-Certified Tons	Total Tons	Unadjusted Recycling Rate	Adjusted Recycling Rate	Tons	%	Tons	%
Miami-Dade	2,582,375	3,476,874	561,492	462,299	1,023,791	29%	29%	1,519,699	44%	933,384	27%
Broward	1,784,715	3,285,645	1,336,669	161,125	1,497,794	46%	46%	1,235,030	38%	552,821	17%
Palm Beach	1,345,652	2,496,469	809,352	153,782	963,134	39%	39%	831,854	33%	701,481	28%
Hillsborough	1,276,410	1,803,829	577,740	197,226	774,966	43%	43%	324,042	18%	704,821	39%
Orange	1,202,978	2,216,621	566,778	473,782	1,040,560	47%	47%	1,176,061	53%	0	0%
Pinellas	926,610	1,319,423	160,935	289,581	450,516	34%	34%	294,414	22%	574,493	44%
Duval <sup>2</sup>	876,075	1,707,960	356,275	414,984	771,259	45%	45%	935,093	55%	1,608	0%
Lee	643,367	1,246,576	283,380	284,940	568,320	46%	46%	259,117	21%	419,139	34%
Polk	613,950	945,050	148,146	91,685	239,831	25%	25%	688,682	73%	16,537	2%
Brevard	548,424	1,264,586	102,511	549,762	652,273	52%	52%	578,068	46%	34,245	3%
Volusia	498,978	794,111	225,772	47,535	273,307	34%	34%	520,804	66%	0	0%
Pasco	473,566	663,580	97,863	140,230	238,093	36%	36%	189,467	29%	236,020	36%
Seminole	431,074	593,405	224,012	37,474	261,486	44%	44%	331,605	56%	314	0%
Sarasota <sup>2</sup>	385,292	790,684	157,254	293,460	450,714	57%	57%	339,970	43%	0	0%
Marion	335,008	338,576	75,454	59,730	135,184	40%	40%	203,392	60%	0	0%
Manatee	333,880	578,410	121,424	158,070	279,494	48%	48%	280,488	48%	18,428	3%

2019

## Final Disposition of Municipal Solid Waste

Excludes recycling credits for renewable energy and yard trash beneficially using landfill gas.

By Descending Population

County	Population <sup>1</sup>	Total MSW Collected Tons	Certified MSW Tons Recycled	Non-Certified MSW Tons Recycled	Total MSW Tons Recycled	Unadjusted Recycling Rate	Adjusted Recycling Rate	MSW Tons Landfilled	%	MSW Tons Combusted	%
Miami-Dade	2,812,130	4,264,169	562,271	172,066	734,337	17%	17%	3,048,221	71%	481,611	11%
Broward	1,919,644	3,905,355	599,399	610,545	1,209,944	31%	31%	2,134,756	55%	560,655	14%
Palm Beach	1,447,857	3,433,090	478,960	1,058,603	1,537,563	45%	45%	832,808	24%	1,062,719	31%
Hillsborough	1,444,870	3,061,922	551,486	882,951	1,434,437	47%	47%	1,218,865	40%	408,620	13%
Orange	1,386,080	3,805,786	634,673	650,001	1,284,674	34%	34%	2,521,112	66%	0	0%
Pinellas	978,045	2,412,099	326,090	894,555	1,220,645	51%	51%	458,037	19%	733,417	30%
Duval	970,672	2,752,896	368,133	1,202,684	1,570,817	57%	57%	1,182,079	43%	0	0%
Lee	735,148	2,274,100	398,553	937,196	1,335,749	59%	59%	517,563	23%	420,788	19%
Polk	690,606	1,180,928	214,482	189,875	404,357	34%	34%	776,571	66%	0	0%
Brevard	594,259	1,829,735	142,460	891,658	1,034,118	57%	57%	795,617	43%	0	0%
Volusia	538,763	1,439,180	298,254	404,336	702,590	49%	49%	736,590	51%	0	0%
Pasco	527,122	1,154,749	146,744	339,244	485,988	42%	42%	426,552	37%	242,209	21%
Seminole	471,735	664,352	151,672	120,582	272,254	41%	41%	392,098	59%	0	0%
Sarasota	426,275	1,341,307	172,437	466,362	638,799	48%	48%	702,508	52%	0	0%
Manatee	387,414	1,006,682	87,855	529,220	617,075	61%	61%	389,607	39%	0	0%
Collier	376,706	1,438,214	168,569	745,576	914,145	64%	64%	524,069	36%	0	0%
Osceola	370,552	311,423	95,714	30,433	126,147	41%	41%	185,276	59%	0	0%
Marion	360,421	1,108,133	89,644	565,532	655,176	59%	59%	452,957	41%	0	0%
Lake	357,247	567,461	63,140	36,876	100,016	18%	18%	354,851	63%	112,594	20%

**Table 5A**  
**Final Disposition of Municipal Solid Waste (2013)**  
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Palm Beach	1,345,652	2,496,469	809,352	153,782	963,134	39%	39%	831,854	33%	701,481	28%
Hillsborough	1,276,410	1,803,829	577,740	197,226	774,966	43%	43%	324,042	18%	704,821	39%

**2019**

**Final Disposition of Municipal Solid Waste**  
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Miami-Dade	2,812,130	4,264,169	562,271	172,066	734,337	17%	17%	3,048,221	71%	481,611	11%
Broward	1,919,644	3,905,355	599,399	610,545	1,209,944	31%	31%	2,134,756	55%	560,655	14%
Palm Beach	1,447,857	3,433,090	478,960	1,058,603	1,537,563	45%	45%	832,808	24%	1,062,719	31%
Hillsborough	1,444,870	2,061,922	551,186	882,951	1,434,137	47%	47%	1,218,865	40%	408,620	12%





# The Cost

WORKING GROUP MEETING – 03/01/21

Facility	2025			2040			2060		
	Processing Lines Required	Facilities Required <sup>1</sup>	Est. Facility Cost (2020 dollars)	Processing Lines Required	Facilities Required <sup>1</sup>	Est. Facility Cost (2020 dollars)	Processing Lines Required	Facilities Required <sup>1</sup>	Est. Facility Cost (2020 dollars)
<b>Common Elements</b>									
Materials Recycling Facility	5	3	\$ 63,000,000	5	3	\$ 63,000,000	6	3	\$ 76,000,000
Combined Bulky Waste/Yard Trash/C&D Facility	10	5	\$ 39,000,000	11	6	\$ 42,000,000	12	6	\$ 46,000,000
Yard Trash Facility	1	1	\$ 3,000,000	1	1	\$ 3,000,000	2	1	\$ 6,000,000
<b>Constants Subtotal</b>			\$ 105,000,000			\$ 108,000,000			\$ 128,000,000
<b>Scenario A</b>									
Mixed Waste Processing Facility	10	5	\$ 172,000,000	10	5	\$ 172,000,000	11	6	\$ 189,000,000
Organics Processing Facility (excludes Yard Trash)	4	2	\$ 52,000,000	4	2	\$ 52,000,000	4	2	\$ 52,000,000
<b>Waste-to-Energy (WTE)</b>									
WSB Expansion (Add 4th 750 tpd Boiler Unit)	0	0	\$ -	0	0	\$ -	1	0	\$ 180,000,000
<b>OR</b>									
New WTE Facility (750 tpd Boiler Units)	3	1	\$ 675,000,000	3	1	\$ 675,000,000	4	1	\$ 900,000,000
<b>Scenario A (4th WTE Unit at WSB) TOTAL</b>		<b>16</b>	<b>\$ 329,000,000</b>		<b>17</b>	<b>\$ 332,000,000</b>		<b>18</b>	<b>\$ 549,000,000</b>
<b>Scenario A (New WTE Facility) TOTAL</b>		<b>17</b>	<b>\$ 1,004,000,000</b>		<b>18</b>	<b>\$ 1,007,000,000</b>		<b>19</b>	<b>\$ 1,269,000,000</b>
<b>Scenario B</b>									
Mixed Waste Processing Facility	10	5	\$ 172,000,000	10	5	\$ 172,000,000	11	6	\$ 189,000,000
<b>Waste-to-Energy (WTE)</b>									
WSB Expansion (Add 4th 750 tpd Boiler Unit)	1	0	\$ 180,000,000	1	0	\$ 180,000,000	1	0	\$ 180,000,000
<b>OR</b>									
New WTE Facility (1,050 tpd Boiler Units)	3	1	\$ 945,000,000	3	1	\$ 945,000,000	3	1	\$ 945,000,000
<b>Scenario B (4th WTE Unit at WSB) TOTAL</b>		<b>14</b>	<b>\$ 457,000,000</b>		<b>15</b>	<b>\$ 460,000,000</b>		<b>16</b>	<b>\$ 497,000,000</b>
<b>Scenario B (New WTE Facility) TOTAL</b>		<b>15</b>	<b>\$ 1,222,000,000</b>		<b>16</b>	<b>\$ 1,225,000,000</b>		<b>17</b>	<b>\$ 1,262,000,000</b>
<b>Scenario C<sup>2</sup></b>									
<b>Waste-to-Energy (WTE)</b>									
WSB Expansion (Add 4th 750 tpd Boiler Unit)	1	0	\$ 180,000,000	1	0	\$ 180,000,000	1	0	\$ 180,000,000
<b>OR</b>									
New WTE Facility (1,050 tpd Boiler Units)	3	1	\$ 945,000,000	3	1	\$ 945,000,000	4	1	\$ 1,260,000,000
<b>Scenario C (4th WTE Unit at WSB) TOTAL</b>		<b>9</b>	<b>\$ 285,000,000</b>		<b>10</b>	<b>\$ 288,000,000</b>		<b>10</b>	<b>\$ 308,000,000</b>
<b>Scenario C (New WTE Facility) TOTAL</b>		<b>10</b>	<b>\$ 1,050,000,000</b>		<b>11</b>	<b>\$ 1,053,000,000</b>		<b>11</b>	<b>\$ 1,388,000,000</b>

Scenario <sup>1</sup>	2025 Est. Facility Cost (2020 dollars)	2040 Est. Facility Cost (2020 dollars)	2060 Est. Facility Cost (2020 dollars)
<b>Scenario A<sup>2</sup></b>			
Assuming 4th WTE Unit @ South Broward	\$ 329,000,000	\$ 332,000,000	\$ 549,000,000
Assuming New WTE Facility	\$ 1,004,000,000	\$ 1,007,000,000	\$ 1,269,000,000
<b>Scenario B</b>			
Assuming 4th WTE Unit @ South Broward	\$ 457,000,000	\$ 460,000,000	\$ 497,000,000
Assuming New WTE Facility	\$ 1,222,000,000	\$ 1,225,000,000	\$ 1,262,000,000
<b>Scenario C<sup>3</sup></b>			
Assuming 4th WTE Unit @ South Broward	\$ 285,000,000	\$ 288,000,000	\$ 308,000,000
Assuming New WTE Facility	\$ 1,050,000,000	\$ 1,053,000,000	\$ 1,388,000,000



# The Assessments

WORKING GROUP MEETING – 03/01/21

RESIDENTIAL - BROWARD COUNTY TO GENERATE \$100M					
Type of Property	Broward County Property Appraiser Parcel Count	Broward County Estimated Number of Units	Residential Rate *	Broward County Estimated Revenue PARCELS	Broward County Estimated Revenue PROJECTED UNITS
Single Family	387,548	321,818	\$166	\$64,332,968	53,421,788
Mobile Homes	4,144	21,882	\$157	\$650,608	3,435,474
Other Residential	294,030	459,527	\$88	\$25,874,640	40,438,376
Government	3,541	26,515	\$130	\$460,330	3,446,950
<b>Total Residential</b>	<b>689,263</b>	<b>829,742</b>		<b>91,318,546</b>	<b>100,742,588</b>

RESIDENTIAL - BROWARD COUNTY TO GENERATE \$150M					
Type of Property	Broward County Property Appraiser Parcel Count	Broward County Estimated Number of Units	Residential Rate *	Broward County Estimated Revenue PARCELS	Broward County Estimated Revenue PROJECTED UNITS
Single Family	387,548	321,818	\$226	\$87,585,848	72,730,868
Mobile Homes	4,144	21,882	\$217	\$899,248	4,748,394
Other Residential	294,030	459,527	\$148	\$43,516,440	68,009,996
Government	3,541	26,515	\$190	\$672,790	5,037,850
<b>Total Residential</b>	<b>689,263</b>	<b>829,742</b>		<b>132,674,326</b>	<b>150,527,108</b>

RESIDENTIAL - BROWARD COUNTY TO GENERATE \$200M					
Type of Property	Broward County Property Appraiser Parcel Count	Broward County Estimated Number of Units	Residential Rate *	Broward County Estimated Revenue PARCELS	Broward County Estimated Revenue PROJECTED UNITS
Single Family	387,548	321,818	\$286	\$110,838,728	92,039,948
Mobile Homes	4,144	21,882	\$277	\$1,147,888	6,061,314
Other Residential	294,030	459,527	\$208	\$61,158,240	95,581,616
Government	3,541	26,515	\$250	\$885,250	6,628,750
<b>Total Residential</b>	<b>689,263</b>	<b>829,742</b>		<b>174,030,106</b>	<b>200,311,628</b>

<b>COMMERCIAL - BROWARD COUNTY ESTIMATE TO GENERATE \$100M</b>				
<b>Broward County</b>	<b>Square Footage</b>	<b>Commercial Rate</b>	<b>Estimated Revenues</b>	<b>Percentage</b>
<i>Low Generator</i>	43,340,531	\$0.026	\$1,126,854	8.63%
<i>Medium Generator</i>	421,804,313	\$0.148	\$62,427,038	83.99%
<i>High Generator</i>	37,062,934	\$1.000	\$37,062,934	7.38%
<b>Total</b>	<b>502,207,778</b>		<b>\$100,616,826</b>	<b>100%</b>

<b>COMMERCIAL - BROWARD COUNTY ESTIMATE TO GENERATE \$150M</b>				
<b>Broward County</b>	<b>Square Footage</b>	<b>Commercial Rate</b>	<b>Estimated Revenues</b>	<b>Percentage</b>
<i>Low Generator</i>	43,340,531	\$0.039	\$1,690,281	8.63%
<i>Medium Generator</i>	421,804,313	\$0.222	\$93,640,557	83.99%
<i>High Generator</i>	37,062,934	\$1.500	\$55,594,401	7.38%
<b>Total</b>	<b>502,207,778</b>		<b>\$150,925,239</b>	<b>100%</b>

<b>COMMERCIAL - BROWARD COUNTY ESTIMATE TO GENERATE \$200M</b>				
<b>Broward County</b>	<b>Square Footage</b>	<b>Commercial Rate</b>	<b>Estimated Revenues</b>	<b>Percentage</b>
<i>Low Generator</i>	43,340,531	\$0.052	\$2,253,708	8.63%
<i>Medium Generator</i>	421,804,313	\$0.296	\$124,854,077	83.99%
<i>High Generator</i>	37,062,934	\$2.000	\$74,125,868	7.38%
<b>Total</b>	<b>502,207,778</b>		<b>\$201,233,652</b>	<b>100%</b>

**\*\* The Palm Beach SWA commercial rates were used with their percentage of commercial property that falls within the low, medium and high generator categories along with the Broward County commercial square footage from the Broward County Property Appraiser's Office to generate a revenue estimate for the commercial portion of the special assessment.**

<b>Palm Beach SWA FY21 Revenues - Special Assessment and Tipping Fees</b>		
	FY21 Revenue Budget	Percentage
Special Assessment	\$157,404,520	79%
Tipping Fees	\$41,535,445	21%
<b>Total Revenues</b>	<b>\$198,939,965</b>	<b>100%</b>
Note: Only included the special assessment and tipping fee revenues. Other revenues like electric and recycling were excluded.		

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### Population

Palm Beach County total population 1,466,494; unincorporated is 639,000.

Broward County total population 1,932,212; unincorporated is 15,375. Broward has 465,718 more residents compared to Palm Beach, which is approximately 32% more.



# Benefits and Drawbacks of Solid Waste Governing Structures

WORKING GROUP MEETING – 03/01/21



# Interlocal Agreement

## Benefits

- ▶ Meets criteria in terms of timeline, money raised, and capabilities.
- ▶ Local control over all elements after legal entity is formed.
- ▶ Flexibility in structure and composition.
- ▶ Can levy appropriate assessments.
- ▶ No restrictions on facilities, debt, or structure if created properly.

## Drawbacks

- ▶ Requires cooperation and communication between all parties – trust is key.
- ▶ Less historical examples in Florida of raising required amount of money for new capital projects.
- ▶ Cannot levy taxes, though can levy assessments.

# Dependent Solid Waste District

## Benefits

- ▶ Meets criteria in terms of timeline, money raised, and capabilities.
- ▶ Local control over all elements.
- ▶ Flexibility in structure and composition.
- ▶ Can levy appropriate assessments.
- ▶ No restrictions on facilities, debt, or structure.

## Drawbacks

- ▶ Requires maximum buy-in from all municipalities.
- ▶ Requires the District to be dependent to the County in one of three criteria – approval of the membership, approval of budget, or serving as governing body.
- ▶ Potential issue with dual office holding.

# Independent Solid Waste District

## Benefits

- ▶ Meets criteria in terms of money raised, and capabilities.
- ▶ Independence - not bound to a single entity in anyway.
- ▶ If legislature allows, flexibility in terms of composition.
- ▶ Can levy appropriate assessments.
- ▶ No restrictions on facilities, debt, or structure.

## Drawbacks

- ▶ Cedes local control of all elements, from facilities to composition of the District.
- ▶ Longest timeline – likely not ready until after contracts expire in 2023.
- ▶ Possible interference from state and other parties – loss of local control concerns.