

2017 Republic Services[®] SASB Disclosure



We'll handle it from here."

2017 Republic Services® SASB Disclosure

This disclosure was prepared following the SASB Waste Management Sustainability Accounting Standard, Version 2018-10, using the reporting entity described in the Republic Services 2017 10-K. All data is as of December 31, 2017 for calendar year 2017.

2017 Republic Activity Metrics

SASB	Activity Metric	2017 Results	
Code			
	Number of customers by category:		
	Municipal	N/A	
IF-WM-	Commercial	N/A	
000.A	Industrial	N/A	
	Residential	N/A	
	IF-WM-000.A Republic does not archive historical customer counts by these categories.		
		24,837 including collection fleet, service	
000.B		vehicles, and equipment	
	Number of:		
	Landfills	195 active landfills	
		124 closed landfills	
		0 active hazardous landfills	
	Transfer Stations	204	
IF-WM-	Recycling Centers	90	
000.C	Composting Centers	9	
	Incinerators	0	
	All other facilities	68 renewable energy and landfill gas projects	
		37 CNG fueling stations	
		7 TRD facilities	
		11 SWD wells	
IF-WM-	Amount of material managed by our business:		
	Total tons managed	113 Million short tons	
000.D	IF-WM-000.D We believe the amount of material we manage is an appropriate metric when calculating		
000.D	and evaluating certain intensity comparisons. Data includes MSW, Recycling, and E&P waste tons managed.		
N/A	Revenue	\$10,042 Billion	

2017 Republic Sustainability Accounting Metrics

SASB Code	Sustainability Accounting Metric	2017 Results	
Couc	Greenhouse Gas (GHG) Emissions		
	(1) Gross global Scope 1 emissions	13,486,262 Metric tons CO ₂ e	
	(2) Percentage covered under emissions-limiting regulations	83 %	
	(3) Percentage covered under emissions-reporting regulations	85 %	
	Discussion/clarifications/assumptions/etc (including measurement/estime	rtion methods):	
IF-WM- 110a.1	(1) Scope 1 emissions include emissions from landfills and fleet that are owned, leased, or operated by Republic. Scope 1 emissions are not a measured metric. For landfills, they are calculated using U.S. 40 CFR Part 98 Subpart HH, developed by the EPA and industry. These calculations are known to have a margin of error of +-200%. Fleet emissions are based on emissions factors for the various types of fuels that are used. See Section IF-WM-110b for more details on fuel types. Sequestered carbon is not subtracted from the landfill emissions total, per GHG Protocol guidance. For more information on gasses covered, calculation methodology/protocols, etc see the 2017 GRI Report, pages 26-28, which can be found at www/republicservices.com/sustainability.		
	Municipal Solid Waste Landfills (US 40 CFR Part 60, Subparts WWW and XXX) and Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills (U.S. 40 CFR Part 60, Subparts Cc and Cf), as well as the State of California's Landfill Methane Control Measure (17 CCR §§ 96560 – 95476).		
	(3) Only certain landfill types and those that emit >25k MTCO ₂ e/year are covered under emissions reporting regulations, according to the U.S. EPA Greenhouse Gas Reporting Program. Percentage also does not include fleet emissions, as they are not regulated under emissions-reporting regulations.		
	CO ₂ e = carbon dioxide equivalents (a standard unit for measuring carbon footprints)		
	(1) Total landfill gas recovered	78,942,711 MMBTUs	
	(2) Percentage flared	55 %	
	(3) Percentage used for energy	45 %	
IF-WM- 110a.2	Discussion/clarifications/assumptions/etc (including measurement/estimation methods):		
	(1) This total represents the amount of landfill gas that was collected in both open and closed landfills, via gas collection systems and is typically described as "landfill gas recovered." Landfill gas generated (as requested by SASB guidelines) is a calculated amount using U.S. 40 CFR Part 98 Subpart HH and is subject to error, therefore recovered landfill gas is used.		
	MMBTUs = million British Thermal Units (a measure of the energy content in fuel)		
	Description of long-term and short-term strategy or plan to manage Scope 1 and life-cycle emissions, emission-reduction targets, and an analysis of performance against those targets:		
1F-WM- 110a.3	In 2014, Republic established three public goals intended to drive greenhouse gas reductions in our own operations and in our customers' lifecycle operations. We developed programs that enabled us to reduce these combined emissions by 2.5 million tons of carbon dioxide equivalent over a five-year period, including:		

- development of at least two landfill gas-to-energy projects each year;
- reducing the greenhouse gas emissions from our fleet by 3%;
- addition of at least 150,000 tons per year of recycling capacity.

We achieved these goals in 2018. From 2013 through 2017, Republic reduced its own scope 1 & 2 greenhouse gas emissions by 15.6%. For more details about each of these goals and our yearly progress, please refer to the 2017 GRI Report, pages 34-37, which can be found at www/republicservices.com/sustainability.

Fleet Fuel Management			
	(1) Fleet fuel consumed	19,544,955 GJ	
	(2) Percentage natural gas	19 %	
	(3) Percentage renewable	7 %	
	Discussion/clarifications/assumptions/etc (including measurement/estimation methods):		
IF-WM- 110b.1	 (1) Number includes fuel consumed by collection and service vehicles only. (2) Number includes renewable natural gas. (3) Renewable as defined consistent with the U.S. Renewable Fuel Standard (U.S. 40 CFR 80.1401) and includes renewable natural gas, biodiesel, etc. GJ = gigajoule (a measure of energy that enables comparisons amongst different types of fuel) 		
IF-WM-	Percentage of alternative fuel vehicles in fleet	19 %	
110b.2			
	Discussion/clarifications/assumptions/etc (including measurement/estimation methods):		
	Number represents CNG vehicles as a percent of collection vehicles only.		

Air Quality			
IF-WM- 120a.1	Air emissions of the following pollutants:	Air Emissions (metric tons)	
	(1) NOx (excluding N ₂ 0)	1,304 Metric tons	
	(2) SOx	314 Metric tons	
	(3) Volatile organic compounds (VOCs)	31 Metric tons	
	(4) Hazardous Air Pollutants (HAPs)	49 Metric tons	
IF-WM-	Number of facilities in or near areas of dense population	N/A	
120a.2			
IF-WM-	Number of incidents of non-compliance associated with air	N/A	
120a.3	emissions		
RSG-AQ-	SEC disclosable environmental enforcement proceedings relating to	0	
01	air and odor		
	Discussion/clarifications/assumptions/etc (including measurement/estimation methods)		

Discussion/clarifications/assumptions/etc (including measurement/estimation methods):

IF-WM-120a.1 Includes landfill emissions only. Landfill air emissions are calculated using measured landfill gas flow to flares, engineering calculations and mass balance calculations. For additional details on scope and method of calculations, please see the 2017 GRI Report, pages 26-28, which can be found at www/republicservices.com/sustainability.

IF-WM-120a.2 Data not available for 2017.

IF-WM-120a.3 SASB reporting guidelines are unclear for this metric. RSG-AQ-01 Please refer to Item 103 of SEC Regulation S-K. We had zero new proceedings relating to air/odor in 2017. The four proceedings disclosed in our quarterly filings for 2017 were continuations from prior years. **Management of Leachate and Hazardous Waste** IF-WM-(1) Total Toxic Release Inventory (TRI) releases N/A 150a.1 (2) Percentage released to water N/A Number of corrective actions implemented for landfill releases IF-WM-N/A 150a.2 IF-WM-Number of incidents of non-compliance associated with N/A 150a.3 environmental impacts SEC disclosable environmental enforcement proceedings relating to RSG-ML-0 management of leachate, water, and hazardous waste 01 RSG-ML-Total leachate collected and treated 1.745 Billion gallons 02 Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-150a.1 We have replaced the SASB advised metric of Total Toxic Release Inventory (TRI) releases with Total leachate collected and treated (RSG-ML-02) because TRI releases are de minimis for our business. IF-WM-150a.2 SASB reporting guidelines are unclear for this metric. IF-WM-150a.3 SASB reporting guidelines are unclear for this metric. RSG-ML-01 Please refer to Item 103 of SEC Regulation S-K. We had zero new proceedings relating to management of leachate, water and hazardous waste in 2017. The one proceeding disclosed in our 2017 quarterly filings was a continuation from prior years. We have added the Total leachate collected and treated metric below (RSG-ML-02) to our SASB report, because we feel that this provides context to the small number of SEC disclosable proceedings in this disclosure relative to the large amount of leachate collected and treated. RSG-ML-02. Total reflects leachate that is treated by either Republic Services or a third party and then returned to the water cycle. **Labor Practices** IF-WM-Percentage of active workforce covered under collective bargaining 24 % 310a.1 agreements IF-WM-(1) Number of work stoppages 310a.2 (2) Total days idle 0 Discussion/clarifications/assumptions/etc (including measurement/estimation methods), including reason for the work stoppage, impact on operations and any corrective actions taken: IF-WM-310a.1 As of December 31, 2017, approximately 24% of our workforce was represented by

Workforce Health & Safety

agreements (CBAs) that were set to expire during 2018. See page 111 of our 2017 10-K.

various labor unions, and approximately 6% of our workforce was covered by collective bargaining

IF-WM- (2) Fatality Rate (3a) Near Miss Frequency Rate (NMFR) for direct employees N/A		(1) Total Recordable Incident Rate (TRIR)	3.646	
320a.1 (3a) Near Miss Frequency Rate (NMFR) for direct employees N/A				
(ab) Near Miss Frequency Rate (NMRR) for contract employees Safety Measurement System BASIC percentiles: (1) Unsafe Driving (2) Hours-of-Service Compliance (3) Driver Fitness (4) Controlled Substances/Alcohol (5) Vehicle Maintenance (6) Hazardous Materials Compliance (8) Hazardous Materials Compliance (9) Hazardous Materials Compliance (9) Hazardous Materials Compliance (10) Hazardous Materials Compliance (10) Hazardous Materials Compliance (11) Farm Harmonia Materials Compliance (12) Discussion/clarifications/assumptions/etc (including measurement/estimation methods): (13) Harmonia Materials Compliance (14) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://al.fmcsa.dot.gov/SMS . We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery (1) Amount of waste incinerated that is hazardous (2) Percent of waste incinerated used for energy recovery (3) Amount of waste incinerated used for energy recovery (4) Amount of waste incinerated used for energy recovery (5) Agail container (6) Perc				
Safety Measurement System BASIC percentiles: (1) Unsafe Driving (2) Hours-of-Service Compliance (3) Driver Fitness (4) Controlled Substances/Alcohol (5) Vehicle Maintenance (6) Hazardous Materials Compliance (6) Hazardous Materials Compliance (6) Hazardous Materials Compliance (7) See below (8) See below (9) Hours-of-Service Compliance (9) See below (1) Hours-of-Service Compliance (2) The facility rate is calculating residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The facility rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS. We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. IF-WM-420a.1 I				
IF-WM-320a.2 (2) Hours-of-Service Compliance See below (2) Hours-of-Service Compliance See below (3) Driver Fitness See below (3) Driver Fitness See below (4) Controlled Substances/Alcohol See below (5) Vehicle Maintenance See below (6) Hazardous Materials Compliance See below (6) Hazardous Materials Compliance See below (6) Hazardous Materials Compliance See below (7) White Maintenance See below (7) White Materials Compliance See below (8) White Materials Compliance See below (16) White Materials Compliance (1				
IF-WM-320a.2 (2) Hours-of-Service Compliance See below (3) Priver Fitness See below (4) Controlled Substances/Alcohol See below (5) Vehicle Maintenance See below (6) Hazardous Materials Compliance See below (6) Hazardous Materials Compliance See below (7) Vehicle Maintenance See below (8) Hazardous Materials Compliance See below (7) Vehicle Maintenance See below (8) Hazardous Materials Compliance See below (8) Hazardous Materials Compliance See below (9) Vehicle Maintenance See below (10) Vehicle Maintenance See below (10) Vehicle Maintenance (10) Vehicle Ma			See below	
III-WM 320a.2 (4) Controlled Substances/Alcohol See below (5) Vehicle Maintenance See below (6) Hazardous Materials Compliance See below (6) Hazardous Materials Compliance See below (7) Vehicle Maintenance See below (8) Paradous Materials Compliance See below (10) Paradous Maintenance See below (10) Paradous Multiple Maintenance See below (10) Paradous Multiple Mult				
(4) Controlled Substances/Alcohol See below (5) Vehicle Maintenance See below (6) Hazardous Materials Compliance IF-WM-320a.3 Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-320a.1: (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS. We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery (1) Amount of waste incinerated that is hazardous 0 % (3) Percent of waste incinerated that is hazardous 0 % (3) Percent of waste incinerated used for energy recovery 0 % Discussion/clarifications/assumptions/etc (including measurement/estimation methods): (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container 24 % Large container 12 % (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %		,		
(5) Vehicle Maintenance (6) Hazardous Materials Compliance See below (6) Hazardous Materials Compliance See below (7) Mumber of road accidents and incidents (8) Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-320a.1: (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS. We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. **Recycling and Resource Recovery** (1) Amount of waste incinerated in owned facilities 0 Metric tons (2) Percent of waste incinerated that is hazardous 0 % (3) Percent of waste incinerated that is hazardous 0 % (3) Percent of waste incinerated used for energy recovery 0 % Discussion/clarifications/assumptions/etc (including measurement/estimation methods): (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container 24 % Large container 12 % (2) Percent of open market) 25 %	320a.2	(4) Controlled Substances/Alcohol	See below	
IF-WM-320a.3 Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-320a.1: (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS . We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery				
Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-320a.1:		(6) Hazardous Materials Compliance	See below	
Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-320a.1: (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS . We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery	IF-WM-	Number of road accidents and incidents	162	
IF-WM-320a.1: (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS . We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery (1) Amount of waste incinerated in owned facilities (2) Percent of waste incinerated that is hazardous (3) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container 12 46 12 % 12 Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %	320a.3			
(1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS . We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 2017 GRI Report, pages 47-48, which can be found at www/republicservices.com/sustainability. Recycling and Resource Recovery (1) Amount of waste incinerated in owned facilities (2) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container		Discussion/clarifications/assumptions/etc (including measurement/estime	ation methods):	
(1) Amount of waste incinerated in owned facilities (2) Percent of waste incinerated that is hazardous (3) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 24 % Residential (municipal + open market) 25 %		 (1) TRIR is a company-wide rate, including residential, commercial, and industrial collection, calculated using OSHA reporting guidelines (per 100 employees). All incidents, regardless of whether treated in-house or externally, are recorded. (2) The fatality rate is calculated per 100,000 full-time equivalent employees, consistent with OSHA and Bureau of Labor Statistics (BLS) reporting guidance. IF-WM-320a.1 (3a)/(3b) Republic does not track near miss data. IF-WM-320a.2 The Federal Motor Carrier Safety Administration (FMCSA) calculates BASIC percentiles for the 60+ Department of Transportation numbers under which Republic operates. These scores are available to the public at https://ai.fmcsa.dot.gov/SMS. We created a public goal in 2014 to reduce our Total Recordable Incident Rate (TRIR) by 7% on a year-over-year basis, from a 2014 baseline. Our safety performance (based on OSHA recordable rates) is 41% better than the industry average. For more information and our historical performance see the 		
(1) Amount of waste incinerated in owned facilities (2) Percent of waste incinerated that is hazardous (3) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 24 % Residential (municipal + open market) 25 %		Recycling and Resource Recovery		
(2) Percent of waste incinerated that is hazardous (3) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container 12 % (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %			0 Metric tons	
IF-WM- 420a.1 (3) Percent of waste incinerated used for energy recovery Discussion/clarifications/assumptions/etc (including measurement/estimation methods): Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 24 % Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %				
IF-WM- 420a.1 Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) 72 % Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 24 % Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %				
Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K (page 2). (1) Percentage of customers receiving recycling services by customer type: Residential (municipal + open market) Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %	IF-WM-			
Residential (municipal + open market) Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %	420a.1	Republic does not own or operate waste incineration facilities. See Item 1 – Business in 2017 10-K		
Residential (municipal + open market) Small container Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %		(1) Percentage of customers receiving recycling services by customer type:		
Large container (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 12 % 25 %				
420a.2 Large container 12 % (2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %		Small container	24 %	
(2) Percent of customers receiving composting services by customer type: Residential (municipal + open market) 25 %		Large container	12 %	
, , , , , , , , , , , , , , , , , , ,	42Ud.2			
Small container 1 %		Residential (municipal + open market)	25 %	
		Small container	1 %	

	Large container	1 %	
IF-WM- 420a.3	(1) Amount of material recycled	5.4 Million metric tons	
	(2) Amount of material composted	453 Thousand metric tons	
	(3) Amount of material processed as waste to energy	43 Million metric tons	
IF-WM-	(1) Amount of electronic waste collected	473 Metric tons	
420a.4	(2) Percent of electronic waste recovered through recycling	≥ 99 %	
	Discussion/clarifications/assumptions/etc (including measurement/estimation methods): IF-WM-420a.2 The customer categories shown above are consistent with Republic's financial for collection services. IF-WM-420a.3 (1) and (2) These totals include material that is processed at Republic owned or recycling and composting facilities from both Republic and third-party haulers. These figures include material collected by Republic and taken to third-party facilities for processing.		
	(3) This is the amount of MSW that goes to Republic landfills that creates renewable energy through gas to energy projects.		