



Republic Services® 2017 Global Reporting Initiative G4 Content Index & Report



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Republic Services

2017 Global Reporting Initiative G4 Content Index & Report

Unless the context requires otherwise, all references in this 2017 GRI Report to “Republic,” “the Company,” “we,” “us” and “our” refer to Republic Services, Inc. and its consolidated subsidiaries.

Coverage of the company's publicly available economic, governance, environmental and social indicators is for 100% of our business operations where data is available, unless otherwise noted.

All externally referenced documents can be found at:

- 2017 10-K - <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-SEC>
- 2018 Proxy Statement - <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-sec>
- Corporate Governance Documents - <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-govhighlights>
- 2017 Sustainability Report - <http://republicservices.com/sustainability>

General Standard Disclosures	Page Number or External Reference	Reporting Status
GENERAL STANDARD DISCLOSURES		
G4-1	Pg 7 of this Report	Complete
G4-2	Pg 8 of this Report	Complete
G4-3	2017 10-K	Complete
G4-4	2017 10-K	Complete
G4-5	2017 10-K	Complete
G4-6	2017 10-K	Complete
G4-7	2017 10-K	Complete
G4-8	2017 10-K	Complete
G4-9	2017 10-K	Complete
G4-10	2017 10-K, Pg 15 of this Report	Partial
G4-11	2017 10-K	Complete
G4-12	2017 10-K	Complete
G4-13	2017 10-K	Complete
G4-14		Incomplete
G4-15		Incomplete
G4-16		Incomplete
G4-17	2017 10-K	Complete
G4-18	G4-2 of this Report	Complete
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G4-34	2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-35	2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-36	2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-37	2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter, G4-2 of this Report	Complete
G4-38	2018 Proxy Statement, Governance website	Complete
G4-39	2018 Proxy Statement, Governance website	Complete
G4-40	2018 Proxy Statement, Nominating & Corporate Governance Committee Charter	Complete
G4-41	2018 Proxy Statement, Governance website	Complete
G4-42	2018 Proxy Statement, Governance website	Complete
G4-43	G4-2 of this Index, 2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-44	G4-2 of this Report, 2018 Proxy Statement, Sustainability & Corporate Responsibility Committee Charter	Complete
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G4-46	G4-2 of this Report, 2018 Proxy Statement, Audit Committee Charter, Sustainability & Corporate Responsibility Committee Charter	Complete
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G4-48	G4-2 of this Report, Sustainability & Corporate Responsibility Committee Charter	Complete

G4-49	G4-2 of this Report, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-50	G4-2 of this Report, Sustainability & Corporate Responsibility Committee Charter	Complete
G4-51	2018 Proxy Statement	Complete
G4-52	2018 Proxy Statement	Complete
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G4-54	2018 Proxy Statement	Complete
G4-55	Pg 21 of this Report	Partial
G4-56	Code of Ethics & Business Conduct	Complete
G4-57	Code of Ethics & Business Conduct	Complete
G4-58	Code of Ethics & Business Conduct	Complete
SPECIFIC STANDARD DISCLOSURES		
DMA and Indicators		
CATEGORY: ECONOMIC		
G4-EC DMA	Pg 22 of this Report	Complete
G4-EC1	2017 10-K	Complete
G4-EC2	2017 10-K	Complete
G4-EC3	2017 10-K	Complete
G4-EC4	2017 10-K	Complete
G4-EC5		Incomplete
G4-EC6		Incomplete
G4-EC7		Incomplete
G4-EC8		Incomplete
G4-EC9		Incomplete
CATEGORY: ENVIRONMENTAL		
G4-EN DMA	Pg 22 of this Report	Complete
G4-EN1		Incomplete
G4-EN2		Incomplete
G4-EN3		Incomplete
G4-EN4		Incomplete
G4-EN5		Incomplete
G4-EN6		Incomplete
G4-EN7		Incomplete
G4-EN8		Incomplete
G4-EN9		Incomplete
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G4-EN13		Incomplete
G4-EN14		Incomplete
G4-EN15	Pg 26 of this Report	Partial
G4-EN16	Pg 28 of this Report, G4-EN15	Partial
G4-EN17	Pg 29 of this Report, CDP Report, G4-EN15	Partial
G4-EN18	Pg 33 of this Report	Complete
G4-EN19	Pg 34 of this Report	Partial
G4-EN20		Incomplete
G4-EN21	Pg 37 of this Report	Complete
G4-EN22	Pg 37 of this Report	Partial
G4-EN23		Incomplete
G4-EN24		Incomplete
G4-EN25		Incomplete
G4-EN26		Incomplete
G4-EN27		Incomplete
G4-EN28		Incomplete
G4-EN29	2017 10-K	Partial
G4-EN30		Incomplete
G4-EN31	2017 10-K	Partial
G4-EN32		Incomplete
G4-EN33		Incomplete
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CATEGORY: SOCIAL		
SUB-CATEGORY: LABOR PRACTICES AND DECENT WORK		
G4-LA DMA	Pg 39 of this Report	Complete
G4-LA1		Incomplete
G4-LA2		Incomplete
G4-LA3		Incomplete
G4-LA4		Incomplete
G4-LA5		Incomplete
G4-LA6	Pg 46 of this Report	Complete
G4-LA7	Pg 48 of this Report	Complete
G4-LA8		Incomplete
G4-LA9	Pg 48 of this Report	Complete
G4-LA10		Incomplete
G4-LA11		Incomplete
G4-LA12		Incomplete
G4-LA13		Incomplete
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G4-LA15		Incomplete
G4-LA16		Incomplete

SUB-CATEGORY: HUMAN RIGHTS		
G4-HR DMA	Pg 49 of this Report, 2017 10-k	Complete
G4-HR1		Incomplete
G4-HR2		Incomplete
G4-HR3		Incomplete
G4-HR4		Incomplete
G4-HR5		Incomplete
G4-HR6		Incomplete
G4-HR7		Incomplete
G4-HR8		Incomplete
G4-HR9		Incomplete
G4-HR10		Incomplete
G4-HR11		Incomplete
G4-HR12		Incomplete
SUB-CATEGORY: SOCIETY		
G4-SO DMA	Pg 49 of this Report	Complete
G4-SO1	Pg 50 of this Report	Partial
G4-SO2		Incomplete
G4-SO3		Incomplete
G4-SO4	Pg 50 of this Report, Code of Business Ethics and Conduct	Partial
G4-SO5	Pg 50 of this Report, 2018 Proxy Statement	Partial
G4-SO6	Pg 50 of this Report, Political Contributions Policy	Partial
G4-SO7		Incomplete
G4-SO8		Incomplete
G4-SO9		Incomplete
G4-SO10		Incomplete
G4-SO11		Incomplete
SUB-CATEGORY: PRODUCT RESPONSIBILITY		
G4-PR DMA	Pg 51 of this Report	Complete
G4-PR1		Incomplete
G4-PR2		Incomplete
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G4-PR4		Incomplete
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G4-PR6	Pg 51 of this Report	Complete
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G4-PR9		Incomplete
Appendix		
Inventory Verification	Pg 52 of this Report	

G4 General Standard Disclosures

G4-1 Provide a statement from the most senior decision-maker of the organization (such as CEO, chair, or equivalent senior position) about the relevance of sustainability to the organization and the organization's strategy for addressing sustainability.

MESSAGE FROM DON SLAGER *President and Chief Executive Officer*

In 2014, Republic Services® introduced a multifaceted, enterprise-wide sustainability platform to guide every aspect of our business, establishing durability throughout our operations and programs. At the core of our sustainability platform, we set four goals:

- Reduce our OSHA recordable rates by 7% year-over-year.
- Add an additional 150,000 tons or more per year of recycling capacity by 2018.
- Reduce absolute fleet emissions by 3% from our direct operational impacts by 2018.
- Develop at least two landfill gas-to-energy projects per year through 2018.

I am pleased to report we have achieved all of our time bound goals. This is a testament to our employees, and I would like to commend our team for their contributions to these initial achievements. Soon, we will announce new sustainability goals that will guide us as we grow and solidify our position as a leading protector of our Blue Planet.

The breadth and scope of our sustainability platform is earning noteworthy recognition. From products that provide solutions for our customers to an industry-leading safety program, and from a fleet that reduces its carbon impact to landfills that generate renewable energy, we are leading in every way possible.

In 2017, Republic was named to the gold standard of sustainability rankings for the second consecutive year — the Dow Jones Sustainability World and North America indices. Republic was the only recycling and solid waste services company in the world to be included in either index. We were equally pleased to be named to the 2017 World's Most Ethical Companies List by the Ethisphere® Institute.

One area of our business, however, needs a reset if it is to remain financially viable. The recycling model — as Americans have known it for years — simply isn't working. Contamination has become rampant. This problem was compounded by China's decision to impose new acceptance criteria, effectively eliminating end-markets for many recyclers. These factors have reached a crisis point, and they jeopardize the future of many local recycling programs.

But, we believe a recycling reset represents opportunity — unprecedented opportunity to build a successful, sustainable recycling model suited for the 21st century.

This means partnering with customers to develop new contractual arrangements that are dynamic and mutually beneficial, and incentivizing improved recycling behaviors. It involves bringing simplification to customers and the general public alike on what and how to recycle. It also requires a steadfast commitment to the future of recycling.

In 2017, our commitment to the future of recycling was evident with the acquisition of ReCommunity, the largest independent recycling company in the country. The acquisition, which added important capacity in key locations, positions us to meet the growing needs of our customers under a new recycling model.

At Republic, we understand that we play a critical role in helping more than 14 million customers lessen their environmental impact. We also recognize that as we grow the business, our responsibility as environmental stewards grows — along with our potential for even greater impact. This is a source of pride for every employee, because our customers — and the communities we serve — can count on us for solutions that are responsible, reliable and resourceful.

Best Regards,



Don Slager

As responsible stewards of our nation's recycling and waste materials and protective guardians of our Blue Planet, it is Republic's responsibility to lead by example — to help create a cleaner, safer and more sustainable environment for future generations.

G4-2 Provide a description of key impacts, risks, and opportunities.

Identifying key Impacts, risks and opportunities

The foundation for determining our material issues to the business begins with identifying risks and opportunities at the company level through our Enterprise Risk Management (ERM) function, which includes involvement of key managers throughout the business, our leadership team and our Board of Directors. The ERM register is populated with risks and opportunities from across the business, including those related to sustainability (environmental, social and governance) topics. Aggregated risks and opportunities are then assessed and prioritized based on their impact to the strategy and organization. Finally, the outcome of the ongoing ERM process is provided to the Senior Leadership team as inputs to strategy development and to ensure the resilience of our strategy with respect to long-term value creation objectives. The most significant business risks and opportunities are reported publicly through the company's annual 10-K filing.

Many topics that impact our business, such as fuel and electricity consumption, emissions from our fleet, and emissions from our landfills, are directly linked to the environment and climate change. Many other topics, such as safety, employee engagement, and corruption are directly linked to broader social and governance challenges in the communities we serve. The Sustainability Function at Republic has a stand-alone process for identifying, quantifying and prioritizing risks and opportunities related to environmental, social and governance topics. This process is unique in that it handles medium to long term risks and seeks to quantify non-financial risks to help the ERM Team and the broader business understand the sustainability risks in the context of the business strategy. Risks identified by this team are combined with those from the broader business function and integrated into the ERM process for assessment, management and monitoring.

Sustainability Materiality Assessment Process

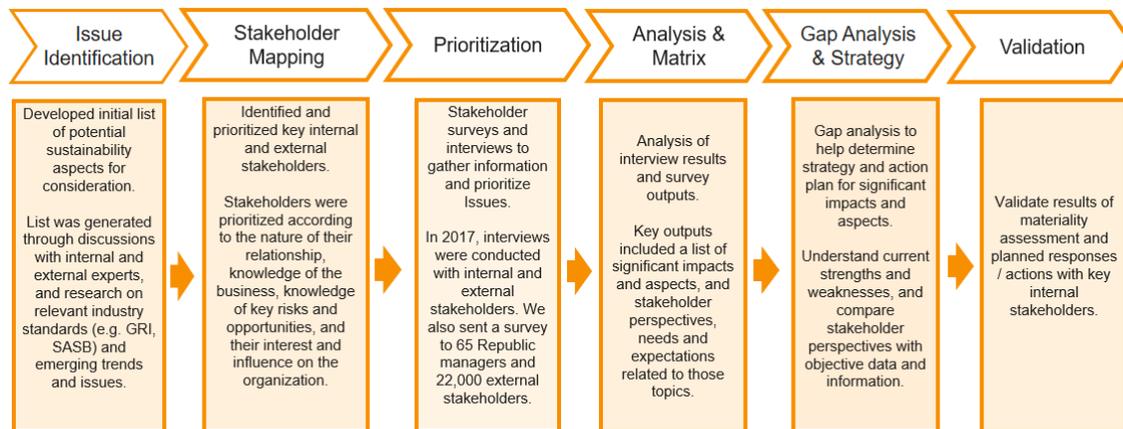
In 2014, Republic conducted a materiality assessment to identify and prioritize its priority sustainability impacts, risks and opportunities and understand the needs and expectations of its key stakeholders. Subsequent to this exercise, the parameters of our 2015 GRI Report were established based on a strategic assessment of the issues of greatest relevance to our business strategy, our stakeholders and the ability to make a positive impact within the communities that we serve. We initiated an update to the 2014 materiality exercise in 2017 and expect it to continue through the first half of 2018. In between the two formal assessment processes, Republic also continued to evaluate its most material issues through the ongoing engagement of internal and external stakeholders.

Our formal sustainability-specific materiality assessment aims to:

- Gather input on critical risk and opportunity drivers and sustainability issues across our businesses
- Evaluate the nature of specific impacts and our ability to affect the issues both directly and indirectly
- Provide context and review prioritized drivers for transparency and disclosure of sustainability risks and opportunities
- Identify gaps in our risk and opportunity assessment to inform our materiality-assessment process in subsequent years
- Suggest actions to enhance sustainability and corporate programs as well as improve our transparency and effectiveness in reporting

Together, the topics identified through our materiality assessment process make up the foundation of our sustainability program, called Blue Planet™. Understanding and prioritizing the topics that matter most to our stakeholders and our business will enable us to address the right topics in our sustainability strategy and guide communication on these topics.

Below is an overview of the materiality assessment process we initiated in 2017, which references the guidance provided in GRI 101: Foundation Standard (2016).



The stakeholder outreach we conducted in 2017-2018 was significantly broader than in 2014. We reached out to 22,000 external stakeholders and 65 internal managers at Republic and invited them to participate in a web based survey. We also conducted one-on-one interviews with select stakeholders. The external stakeholder groups we reached out to included:

- Customers
 - Municipal
 - Commercial
 - Residential
 - Industrial
- Supply chain partners
- Community representatives
- Non-governmental organizations
- Governmental organizations
- Thought leaders

Participants were asked to respond to the following questions:

- The importance of sustainability to participant / their organization?
- Rate list of sustainability topics in terms of significance (Low Significance / Medium Significance / High Significance / I Don't Know), and insights into why any topics were ranked as "High Significance"
- Rate how well each sustainability topic is currently being addressed by Republic (Not Addressed / Somewhat Addressed / Fully Addressed and Effective / Don't Know)

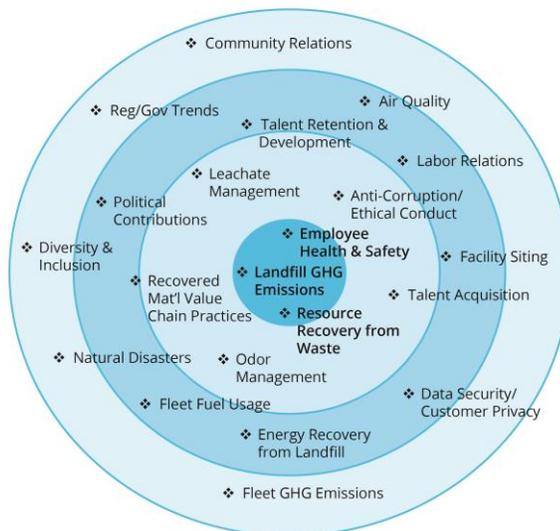
We developed an interactive dashboard to help visualize, analyze, and make sense of the magnitude of data we were able to collect from stakeholders on how they would prioritize each of the sustainability topics in the survey for our business and our perceived performance on those topics.

We were still in the prioritization phase at the end of 1H2018 (via stakeholder outreach) and will be spending time internalizing what the outcomes mean for our business, and our

strategy and reporting/ communication efforts moving forward. In next year’s report we plan to provide an updated view on the materiality map shown below, in particular, whether any topics have elevated in importance for our business and/or if there are any new topics.

Materiality Map

This materiality assessment process results in a suite of sustainability topics of significance to Republic. All topics listed in our materiality diagram below are deemed to be significant to Republic, and include impacts within and outside our organization. Those in the “bulls-eye” represent the most material impacts as identified by Republic and our stakeholders. While all three of these impacts have on-going management best practices in place, we also established public goals for each to demonstrate our commitment to vigilance on these topics and to enable our stakeholders to engage with us in monitoring our progress.



Sustainability topics in the outer concentric circles have decreasing importance; however, they still have a financial impact on our business and/or external aspects. Those nearer the center are more material than those in the outer loop. Every topic identified on our map currently has a management practice in place, and those practices as well as data points of significance are profiled in this report. For example:

- Environmental topics such as Landfill GHG Emissions, Air Quality, Leachate Management, etc are handled by our Environmental Management System described in section G4-EN DMA of this report
- Employee Health & Safety is handled by our Safety Management System described in section G4-LA DMA
- Social topics such as Labor Relations, Diversity & Inclusion, Anti-Corruption/Ethical Conduct, etc are handled by our Code of Conduct and Human Rights Policy described in sections G4-HR DMA and G4-SO DMA

We expect to share a revised materiality matrix when we publish the 2017-18 materiality assessment findings in our 2018 GRI report (published in 2019).

We anticipate the general sustainability materiality assessment process to be an ongoing initiative that stays current with emerging broader sustainability trends and the ongoing growth and evolution of our company.

Exploring Integrated Reporting and Changing Investor Expectations

In 2016, Republic began an evaluation of progress in the “Integrated Reporting” movement, which included a review of standards and recommendations from the Sustainability Accounting Standards Board (SASB), Task Force on Climate Related Financial Disclosures (TCFD), Climate Disclosure Standards Board (CDSB), Integrated International Reporting Council (IIRC) and others. Not only do these bodies provide insights on what investors are seeking in terms of how to disclose, but they also contain insights on what to disclose. In some cases, as with SASB, the stakeholders included in the process align closely with Republic’s stakeholders and thus provide a robust source of materiality inputs. We continued this evaluation in 2017 and have begun implementation of various relevant aspects of these guidelines/standards. It will be a multi-year effort to determine how/what to adopt, where to disclose, and to develop data integrity and controls for any additional material sustainability disclosures that may be integrated with current SEC reporting documents.

Targeted Stakeholders

In order to identify emerging issues on an ongoing basis, and assess whether there are any associated risks or opportunities that are potentially material to our business, we engage with a diverse set of stakeholders. Our targeted stakeholder-engagement process includes employees, customers, investors, supply chain partners and relevant governmental and non-governmental bodies/organizations.

Employees

- **Employee Engagement survey:** Through an annual employee engagement survey, an open-door policy, and our human capital development programs, we listen to our employees, show them we care, and most importantly, demonstrate our commitment to making Republic a great place to work for everyone. Our employee engagement score in 2017 was 86%, with an 85% participation rate. By completing our annual Republic Listens employee engagement survey, employees are able to provide valuable insight that allows us to take action on the things that matter most to them. The survey is administered by Towers Watson, an outside vendor that specializes in employee surveys and research. They develop the survey questions and compile the results while ensuring that responses stay confidential. Employees can participate in the survey either online or on paper at their location. The results are shared throughout the Company, allowing leaders the opportunity to see and understand them. Each department and Business Unit is responsible for discussing the results, as well as developing and executing action plans. Broader changes companywide are implemented by our HR teams, executives and the appropriate leaders.
- **Individual Employee Interviews:** Beginning in 2015 and due to be repeated in 2018, Republic launched a series of targeted one-on-one sustainability interviews with select

employees to better understand issues that matter most to our employees. This supports our ability to attract and retain the best employees, which supports the people and talent agenda pillar of our business strategy, as well as, enables us to monitor and improve performance around sustainability. This direct employee feedback is incorporated into the prioritization of material issues.

- Market Planning Process (MPP): In this local and asset level review, leaders are looking at the current and potential list of assets, competitive threats, strengths and weaknesses, risks and opportunities, growth plans, regulatory and legislative changes, and other key local market factors. In order to validate the assessment at the local and asset level we engage employees to identify material issues that are either potential risks or opportunities.

Customers

We listen to our customers on a daily basis and respond, as well as, anticipate their wants and needs through dedicated account management teams. In addition to our daily interactions, we employed the following strategies to inform customer-specific risks and opportunities in 2017:

- Directly engaged with our customers on the topic of what issues are most material to them and how Republic can contribute to a positive impact. We serve over 14 million customers across the United States. These range from Multi-National companies with multiple sites across the US, to “mom and pop” local businesses; from large municipalities representing millions of residents to single, rural homeowners. Each and every customer can contact Republic Services with feedback through various publicly available communication channels. In addition, we proactively seek input directly through our sales and customer service channels.
- Active participation in industry organizations, including the National Waste & Recycling Association, Institute of Scrap Recycling Industries, Environmental Research and Education Foundation, and many, many other national, state and local organizations both governmental and non-governmental.
- Focused interviews with select customers to solicit feedback and reflection on material issues to Republic, from their perspective.
- Invited a significant number of customers to respond to the web based and one-on-one materiality surveys/interviews, as described earlier.

Communities, Municipalities, and Organizations

We’re committed to each and every community we serve and that commitment is strengthened through our partnerships with local municipalities serving the interests of their communities. We are able to enhance our understanding of both local and global trends impacting our business, customers and communities around the world through these partnerships and programs. As a part of our materiality assessment process, we actively engaged with a selection of relevant municipalities to better inform the assessment of our company’s risks and opportunities related to society and sustainability at-large. The viewpoints of the municipalities with which we spoke ranged from the most progressive cities in the world to those with severe environmental and social challenges.

We also reach out to non-governmental organizations (NGOs) who often are leading the charge with scientific expertise on various sustainability issues. It is important to us to

understand these issues with the broader lens that NGOs typically represent, as well as the deep dive that they are able to offer. We look to partner with NGOs where interests align.

Investment Community

We have a well-developed shareholder engagement program that emphasizes year-round shareholder engagement and direct communication with our Board. Throughout 2017, we engaged directly with shareholders representing approximately 52% of shares outstanding, as well as proxy advisors. Key areas of discussion with shareholders in the past year included enhancements to our compensation and corporate governance framework, new Board members, sustainability oversight, and alignment of our executive compensation with our strategic goals. Our Board highly values these discussions and considers this feedback in Board deliberations and decisions.

Supply Chain Partners

We believe it's important to engage with our supply chain partners both downstream and upstream from our company. This helps us to better understand risks and opportunities to us and our stakeholders as a result of the actions of others. It also provides us with an opportunity to influence and educate our partners where we see gaps in sustainability activities. Where possible or needed, we engage with our supply chain partners to mitigate risks, take advantage of opportunities and/or strengthen our partnerships.

G4-3 Report the name of the organization.

Republic Services, Inc.

G4-4 Report the primary brands, products, and services.

Refer to Item 1, page 2 of our 2017 10-K report for more information.

G4-5 Report the location of the organization's headquarters.

18500 North Allied Way
Phoenix, Arizona 85054

G4-6 Report the number of countries where the organization operates, and names of countries where either the organization has significant operations or that are specifically relevant to the sustainability topics covered in the report.

Refer to Item 1, page 2 of our 2017 10-K report for more information.

G4-7 Report the nature of ownership and legal form.

Refer to the cover page of our 2017 10-K report for more information.

G4-8 Report the markets served (including geographic breakdown, sectors served, and types of customers and beneficiaries).

Refer to Item 1, page 2 and 4 of our 2017 10-K report for more information.

G4-9 Report the scale of the organization

Refer to Item 1, page 2, Item 1, page 4 and 8-10, and Item 8, page 67 of our 2017 10-K report for more information.

G4-10 a. Report the total number of employees by employment contract and gender.

We had a total of 35,524 full time employees as of December 31, 2017. The share of females in our total workforce is 18%, and 21% of our management positions are filled by females.

G4-11 Report the percentage of total employees covered by collective bargaining agreements.

Refer to Item 1A page 23 of our 2017 10-K report for more information.

G4-12 Describe the organization's supply chain.

Refer to Item 1, pages 9-10 of our 2017 10-K report for more information.

G4-13 Report any significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply chain

Refer to Item 1, pages 3-4, Item 7, page 30-51 and Item 8 pages 89-91 of our 2017 10-K report for more information.

G4-17 List all entities included in the organization's consolidated financial statements or equivalent documents.

Refer to Item 2, page 24; Item 8, pages 70-74 and 89-90, and Exhibit 21.1 of our 2017 10-K report for more information.

**G4-18 Explain the process for defining the report content and the Aspect Boundaries.
b. Explain how the organization has implemented the Reporting Principles for Defining Report Content.**

Refer to our Materiality Narrative in G4-2.

G4-19 List all the material Aspects identified in the process for defining report content.

Refer to our Materiality Narrative in G4-2.

G4-20 For each material Aspect, report the Aspect Boundary within the organization.

Refer to our Materiality Narrative in G4-2.

G4-21 For each material Aspect, report the Aspect Boundary outside the organization.

Refer to our Materiality Narrative in G4-2.

G4-22 Report the effect of any restatements of information provided in previous reports, and the reasons for such restatements.

Reporting for 2017 represents our fourth Sustainability Report to be issued by Republic Services, with our first being issued in 2014. The scope and boundary, as well as material aspects that are identified and reported upon in our 2017 Sustainability Report and within this GRI Index represent a similar scope to that presented in our 2016 report. Through 2015 to 2017, we have been assessing the approach, inputs and findings of our materiality assessment, and have incorporated the outcomes of this work into our 2017 report scope and business strategy.

We have restated some of our environmental aspects, specifically 2013-2016 emissions data for EN15 and EN18 as related to Scope 1 emissions. This is due to the following change:

- Anthropogenic emissions from landfill gas that is flared by Republic were previously omitted from our Scope 1 totals. These emissions are less than 0.1% of our total Scope 1 emissions; however, we have updated the Scope 1 emissions to include them in our 2017 emissions and historical, restated 2013-2016 emissions.

We look forward to continuing to enhance our transparency, and track and report on performance against our goals.

G4-23 Report significant changes from previous reporting periods in the Scope and Aspect Boundaries.

The scope and boundary, as well as material aspects that are identified and reported upon in our 2017 Sustainability Report and within this GRI Index represent a similar scope to that reported on in our 2016 report.

G4-24 Provide a list of stakeholder groups engaged by the organization.

Refer to our Materiality Narrative in G4-2.

G4-25 Report the basis for identification and selection of stakeholders with whom to engage.

Refer to our Materiality Narrative in G4-2.

G4-26 Report the organization’s approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process.

Refer to our Materiality Narrative in G4-2.

G4-27 Report key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, including through its reporting. Report the stakeholder groups that raised each of the key topics and concerns.

Refer to our Materiality Narrative in G4-2.

G4-28 Reporting period (such as fiscal or calendar year) for information provided.

Calendar year 2017, unless otherwise stated.

G4-29 Date of most recent previous report (if any).

June 2017.

G4-30 Reporting cycle (such as annual, biennial).

Annual

G4-31 Provide the contact point for questions regarding the report or its contents.

jbohan@republicservices.com

G4-32 Report the ‘in accordance’ option the organization has chosen.

Although we are including specific standard disclosures from the GRI G4 and align with the reporting principles of GRI G4, Republic Services has not endeavored to report in accordance with the Core or Comprehensive version of GRI G4.

G4-33 Report the organization’s policy and current practice with regard to seeking external assurance for the report.

Republic Services has not sought external assurance of this GRI G4 Content Index nor its 2017 Sustainability Report. Republic Services has completed a third-party verification of its publicly reported 2013 through 2017 Scope 1, 2 and 3 (Business Travel and Contract Hauling only) GHG emissions in accordance with the ISO 14064-3 Standard. Additional information is available through the CDP, at cdp.net.

G4-34 Report the governance structure of the organization, including committees of the highest governance body. Identify any committees responsible for decision-making on economic, environmental and social impacts.

Refer to pages 27-31 of our 2018 Proxy Statement and the Sustainability & Corporate Responsibility Committee Charter on the Republic governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-35 Report the process for delegating authority for economic, environmental and social topics from the highest governance body to senior executives and other employees.

Refer to pages 27-31 of our 2018 Proxy Statement and the Sustainability & Corporate Responsibility Committee Charter on the Republic governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-36 Report whether the organization has appointed an executive-level position or positions with responsibility for economic, environmental and social topics, and whether post holders report directly to the highest governance body.

Refer to pages 27-31 of our 2018 Proxy Statement and the Sustainability & Corporate Responsibility Committee Charter on the Republic governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-37 Report processes for consultation between stakeholders and the highest governance body on economic, environmental and social topics. If consultation is delegated, describe to whom and any feedback processes to the highest governance body.

Refer to page 18 of our 2018 Proxy Statement, our Materiality Narrative in G4-2 and the Sustainability & Corporate Responsibility Committee Charter on the Republic governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-38 Report the composition of the highest governance body and its committees.

Refer to pages 10-16 of our 2018 Proxy Statement and our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-govhighlights>

G4-39 Report whether the Chair of the highest governance body is also an executive officer (and, if so, his or her function within the organization's management and the reasons for this arrangement).

Refer to pages 21-23 of our 2018 Proxy Statement and our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-40 Report the nomination and selection processes for the highest governance body and its committees, and the criteria used for nominating and selecting highest governance body members.

Refer to pages 21 and 24-25 of our 2018 Proxy Statement and our Nominating and Corporate Governance Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-41 Report processes for the highest governance body to ensure conflicts of interest are avoided and managed. Report whether conflicts of interest are disclosed to stakeholders.

Refer to pages 21-25 and 34 of our 2018 Proxy Statement and our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-42 Report the highest governance body's and senior executives' roles in the development, approval, and updating of the organization's purpose, value or mission statements, strategies, policies, and goals related to economic, environmental and social impacts.

Refer to pages 22-31 and 40-42 of our 2018 Proxy Statement and our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-43 Report the measures taken to develop and enhance the highest governance body's collective knowledge of economic, environmental and social topics.

Refer to our Materiality Narrative in G4-2, pages 17-19, 27-28, and 31 of our 2018 Proxy Statement and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>

**G4-44 Report the processes for evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics. Report whether such evaluation is independent or not, and its frequency. Report whether such evaluation is a self-assessment.
b. Report actions taken in response to evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics, including, as a minimum, changes in membership and organizational practice.**

Refer to our Materiality Narrative in G4-2, pages 17-31 of our 2018 Proxy Statement and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-45 Report the highest governance body's role in the identification and management of economic, environmental and social impacts, risks, and opportunities. Include the highest governance body's role in the implementation of

due diligence processes. Report whether stakeholder consultation is used to support the highest governance body's identification and management of economic, environmental and social impacts, risks, and opportunities.

Refer to our Materiality Narrative in G4-2, pages 27-29, and 31 of our 2018 Proxy Statement and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-46 Report the highest governance body's role in reviewing the effectiveness of the organization's risk management processes for economic, environmental and social topics.

Refer to our Materiality Narrative in G4-2, pages 22-29 and 31 of our 2018 Proxy Statement, our Audit Committee Charter and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-47 Report the frequency of the highest governance body's review of economic, environmental and social impacts, risks, and opportunities.

Refer to our Materiality Narrative in G4-2, pages 22-29 and 31 of our 2018 Proxy Statement and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-48 Report the highest committee or position that formally reviews and approves the organization's sustainability report and ensures that all material Aspects are covered.

Refer to our Materiality Narrative in G4-2 and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-49 Report the process for communicating critical concerns to the highest governance body.

Refer to our Materiality Narrative in G4-2 and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-50 Report the nature and total number of critical concerns that were communicated to the highest governance body and the mechanism(s) used to address and resolve them.

Refer to our Materiality Narrative in G4-2 and our Sustainability & Corporate Responsibility Committee Charter on our governance website <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance>.

G4-51 Report the remuneration policies for the highest governance body and senior executives for the types of remuneration.

Refer to pages 40-80 of the 2018 Proxy Statement and <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-52 Report the process for determining remuneration. Report whether remuneration consultants are involved in determining remuneration and whether they are independent of management. Report any other relationships which the remuneration consultants have with the organization.

Refer to pages 40-80 of the 2018 Proxy Statement and <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-53 Report how stakeholders' views are sought and taken into account regarding remuneration, including the results of votes on remuneration policies and proposals, if applicable.

Refer to pages 50 and 60-61 of the 2018 Proxy Statement and <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-54 Report the ratio of the annual total compensation for the organization's highest-paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country.

Refer to pages 79-80 of the 2018 Proxy Statement for more information.

G4-55 Report the ratio of percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country.

We have reported the requested ratio (See G4-54) in our 2018 Proxy Statement, however since this is the first year this data was disclosed the change in percentage ratio will be reported in future reporting years.

G4-56 Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics.

Refer to our Code of Business Ethics and Conduct at <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-57 Report the internal and external mechanisms for seeking advice on ethical and lawful behavior, and matters related to organizational integrity, such as helplines or advice lines.

Refer to our Code of Business Ethics and Conduct at <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-58 Report the internal and external mechanisms for reporting concerns about unethical or unlawful behavior, and matters related to organizational integrity, such as escalation through line management, whistleblowing mechanisms or hotlines.

Refer to our Code of Business Ethics and Conduct at <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4 Specific Standard Disclosures

Economic

Disclosures on Management Approach

Refer to Republic Services 2017 10-K and our Annual Report for a detailed overview of the economic material aspects of our business, how we manage these aspects and impacts and the results of our management approach.

G4-EC1 Direct economic value generated and distributed

Refer to our 2017 10-K for more information.

G4-EC2 Financial implications and other risks and opportunities for the organization's activities due to climate change

Refer to our 2017 10-K pages 3-4 and 8-10 for opportunities and pages 13,16,18-19 and 21 for risks related to climate change.

G4-EC3 Coverage of the organization's defined benefit plan obligations

Refer to pages 104-113 of our 2017 10-K report for more information.

G4-EC4 Financial assistance received from government

Republic Services receives renewable energy tax credits from the US Federal government. A discussion on this is covered within our 2017 10-K page 102.

Environmental

Disclosures on Management Approach

Republic exercises the utmost responsibility in our operations. This includes our fleet, our buildings, our landfill technology and the day-to-day activities we conduct in the community. We're working hard to understand and measure our impact to the air, water and land to minimize or eliminate any negative consequences, where possible.

In 2014, we launched our Blue Planet™ initiative, which is our sustainability platform. Blue Planet represents our dedication to preserving a cleaner, safer, and healthier world where people thrive, not just for today but for future generations. This initiative continues into 2017 and beyond.

Coverage

Coverage of the company's publicly available environmental indicators is for 100% of our business operations where data is available, unless otherwise noted.

Commitments, Goals and Targets

At Republic Services, we recognize the opportunity we have to responsibly manage the diversity of materials in the waste stream. Not only to extract value from those materials in the form of commodities and energy, but to also reduce the greenhouse gas emissions associated with those materials.

Details on how we evaluate and manage these aspects, including our commitments and targets for these material aspects are provided here in Section G4-EN19. Additional information on how we have identified and prioritized these material aspects is provided in G4-2.

Policies and Procedures

Given the nature of our business it is essential for us to be in compliance with environmental laws and regulations. Non-compliance can put our employees, our brand or our environment at risk. We strive to conduct our operations in compliance with applicable laws, regulations and permits. Our facilities and operations are subject to a variety of federal, state and local regulations that regulate, among other things, the environment, public health, safety, zoning and land use.

Republic Services leverages an **environmental management system** (EMS) to ensure compliance, which has been in place for many years. In 2015, we engaged a consultant to assess our current system as compared to the ISO 14001:2015 Environmental Management Systems standard, with the goal of preparing the company to seek certification. The consultant completed a document review alongside interviews with key stakeholders who own the management and implementation of policies related to the ISO 14001:2015 criteria. A new EMS policy was formally issued on June 10, 2016 as a result of this assessment and includes the following items:

- ✓ Production operations / business facilities
- ✓ Selection / on-going evaluation of suppliers / service providers and contractors
- ✓ Development of new products and services
- ✓ Product distribution / logistics
- ✓ Management of waste
- ✓ Engineering / maintenance

The policy is publicly available on our website (<http://www.republicservices.com/sustainability>), and was highlighted in our 2015 Sustainability Report to demonstrate our commitment. Our policy is an overarching public

statement, signed by our CEO, signaling our intentions toward an ISO certified and comprehensive EMS aligned with our sustainability initiatives.

Republic is upgrading our EMS and intends to seek ISO certification as a pilot, at targeted sites, to focus on improving specific aspects of Recycling and Landfill operations and to build ISO support throughout the organization. The pilot approach to seeking ISO certification provides a platform to efficiently build and test EMS tools while proving value. In addition, the target sites will serve as “beacons” for the company. The pilot will inform our strategy and design of a multi-site EMS program, with the vision of ultimately scaling the system to cover all operations and seek multi-site ISO 14001:2015 certification. We’re very proud to announce that we achieved ISO 14001:2015 certification of our first recycling facility, our Mecklenburg MRF, in January of 2018. The certificate can be found at www.republicservices.com/sustainability. We continue to prepare for ISO certification at our other pilot sites.

Republic Service’s EMS is overseen by the Vice President, Engineering & Environmental Compliance, reporting to our EVP of Operations Support. This team is responsible for environmental compliance, engineering and environmental management. The EMS is managed under the **Corporate Environmental Compliance Policy** and is implemented in the field through Republic operations with the oversight of our Corporate team. The field teams are staffed with two Director of Field Operations who provide support to the local division engineering and environmental management activities. The company is now organized into 11 Areas, each with an Area Environmental Manager that oversees multiple Environmental Managers responsible for the implementation of the items described in the Corporate Environmental Compliance Policy. Environmental Managers also manage the services of several Environmental Specialists and Environmental Technicians within each Area.

The Corporate Legal Department with the support of Corporate Environmental Compliance is responsible for documenting, storing and tracking all environmental enforcement issues including inspections, Notices of Violations, Letters of Warning and other information related to environmental compliance with federal, state and local regulations. Operations Management is responsible for ensuring that all employees, contractors, vendors, and visitors to our facilities actively comply with our policies. Managers are also required to timely report, manage, and resolve all environmental enforcement violations. Given its importance, we have established **Absolutes and Standards** around environmental compliance. Our Absolutes and Standards are non-negotiable. They support a culture of consistency and policy compliance and further strengthen our Environmental Management System.

Our EMS program consists of several policies, manuals, standard operating procedures, reporting forms, tracking databases, etc. to ensure compliance with the Company’s policy. A few are listed below:

- **Corporate Environmental Compliance Policy:** as mentioned above, this is the overarching policy for our EMS. Third party facility approval and request processes

are also part of this policy. Republic guidelines require the use of approval procedures that must be followed for all agreements involving the use of non-Republic Services disposal, transfer station, and recycling sites. The use of the Republic Third Party Facility request form is required to initiate this process.

- **Landfill Air Compliance Program Standard:** The purpose of the Standard is to provide guidance and a consistent approach regarding air compliance services performed for Republic Services. This document is used by the company's Engineering and Environmental Management team and related third-party consultants - i.e., all personnel are responsible for conducting air compliance services and supporting such activity at Republic landfills.
- **Landfill and Transfer Station Operating Standard and Best Practices User Guide:** The Standards Manuals are designed to provide practical and comprehensive information to understand the operating standards of all Republic Services active landfills and transfer stations. The guides contain field-tested best practices describing policies and procedures that guide facility managers on how to comply with the standard.
- **Procurement Policy:** Republic has a centralized procurement team to manage and guide the company's procurement effort. Their policy is to provide professional procurement and supply chain management services through effective teamwork and communication with stakeholders and suppliers and by sourcing goods and services that meet the Company's needs at the highest quality and the lowest total cost.
- **Special Waste Management Policy:** Republic has in place a Special Waste Management Policy to meet all applicable federal requirements under the Resource Conservation and Recovery Act and implementing regulations (40 CFR Part 261) and the Toxic Substance Control Act and implementing regulations for polychlorinated biphenyl waste (40 CFR Part 761), along with any applicable state or permit requirements to prevent the acceptance of wastes not eligible for management at Republic landfills. For those wastes that are deemed acceptable, additional SOPs (e.g. Liquid Waste Solidification, Treated Medical Waste, and Radiation Monitoring) have been developed to help facilitate the proper handling, transportation and disposal of Special Wastes managed by the Company.
- **Engineering Policy:** This policy establishes guidelines for Corporate and Field personnel on the procedures for using the landfill and environmental budget model, project management practices, and environmental due diligence. It also includes landfill gas, leachate management, and air compliance SOPs. Due diligence, M&A and business development are also addressed.

In addition to seeking ISO certification, Republic conducts a number of different types and levels of audits for environmental compliance:

- We participate in CHWMEG independent auditing at a cross section of facilities on an annual basis. This covers roughly 10% of our landfills annually. CHWMEG, Inc. is a non-profit trade association comprised of manufacturing and other "industrial" companies interested in efficiently managing the waste management aspects of their environmental stewardship programs. One aspect of CHWMEG, Inc. includes conducting comprehensive, independent reviews of commercial facilities that treat, store, dispose, recycle, or transport waste. The facilities included in the CHWMEG facility review program are selected by the members, and the evaluations are performed according to a standard protocol by independent and experienced environmental firms under contract to CHWMEG, Inc. The cost of the facility review reports is shared by the member companies.
- There is an EH&S Self-Assessment in place with a questionnaire for all Republic Services lines of business (LOBs) to utilize in a self-evaluation process. The assessment covers internal controls, safety and environmental compliance standards. The site evaluations are reviewed by the responsible Area Environmental and Area Safety Managers. All Republic Services locations received the 2017 EHS Self-Assessment.

Certifications

Republic Services Energy Services operates businesses serving the oil and gas production industry. Many of the materials could potentially be DOT hazardous and, as required by regulations, all field operations are required to train employees and maintain HAZWOPER training credentials. Within this Area, 100% of field operations personnel are HAZWOPER certified. The remainder of our operations do not require HAZWOPER training and/or certification.

Governance

The Sustainability and Corporate Responsibility Committee was formed on April 22, 2015. Per the Charter of this Committee: The Sustainability and Corporate Responsibility Committee (the "Committee") is appointed by the Board of Directors (the "Board") to assist the Board in fulfilling its oversight responsibility and to act in an advisory capacity to the Company's management with respect to significant issues, strategic goals, objectives, policies and practices that pertain to (i) Republic's sustainability performance; (ii) Republic's corporate responsibilities that are of significance to the Company and its role as a socially responsible organization; and (iii) enterprise and other risk, including cyber security, environmental and reputational risks, facing the Company and the practices by which these risks are managed and mitigated.

G4-EN15 **Direct greenhouse gas (GHG) emissions (Scope 1)**

Scope 1 emissions reported are independent of any GHG trades, such as purchases, sales or transfers of offsets or allowances. The inventory includes CO₂, CH₄ and N₂O emissions from fuel consumption. HFC emissions from refrigerant use, PFCs, NF₃ and SF₆ are not included as Republic does not use these compounds at a materially reportable level. Emissions factors

used for electricity and other fuels are subregion-, country- or region-specific where applicable using the latest databases from governmental sources (i.e., EPA's eGRID, UK's Defra for mobile sources to supplement eGRID data gaps).

Emission Category (tCO2e)	2015	2016	2017
Total Scope 1 Emissions	14,956,224	13,979,024	13,486,262
Landfill Gas Emissions	13,365,175	12,404,374	11,981,159
Fuels	1,550,072	1,521,928	1,467,576
Stationary Combustion	29,858	41,237	24,394
Biogenic Emissions	6,402,962	6,660,382	7,232,596

Biologically sequestered carbon emissions are relevant to Republic Services and include:

1. CO₂ from the combustion of landfill gas via flares
2. CO₂ pass-thru from the combustion of landfill gas flares
3. Fugitive CO₂ generated from the biological decomposition of waste in landfills
4. CO₂ as a product of CH₄ oxidation in the landfill cap
5. Mobile combustion of biodiesel and biogas.

We also have carbon that is permanently biologically sequestered from municipal solid waste by the landfill.

The five sources of biologically sequestered carbon emissions listed above are reported in aggregate as "Biogenic Emissions" and treated separately from Scope 1 in accordance with the GHG Protocol. The first three sources comprise 93% of Republic Service's biogenic emissions. Republic Services considers these as a part of our Scope 1 emissions but reports them separately (per GHG Protocol) as they are biogenic in nature or not in the scope of US EPA reporting requirements for landfills. Republic Services follows guidance from US EPA on determining emissions of these sources of solid, gaseous, liquid and biomass fuels from: Federal Register (2009) EPA; 40 CFR Parts 86, 87, 89 et al; Mandatory Reporting of Greenhouse Gases; Final Rule, 30Oct09, 261 pp. Tables C1 and C2 at FR pp. 56409 56410. Revised emission factors for selected fuels: Federal Register (2010) EPA; 40 CFR Part 98; Mandatory Reporting of Greenhouse Gases; Final Rule, 17Dec10, 81 pp. Permanently biologically sequestered carbon is not included in the figure reported in CC 8.9a but is still relevant. It includes carbon from municipal solid waste (MSW) that is permanently biologically sequestered by the landfill which acts as a sink, and as such emissions from MSW are avoided. The annual MSW waste input figures reported by Republic have been used to calculate the carbon sequestered using a 2008 US EPA waste characterization study.

Republic reports landfill emissions to the US EPA of all sites that were owned, leased, or operated by Republic. This includes voluntary reporting of emissions from closed sites as well as sites that don't meet the reporting threshold of 25K tCO₂e. Our Landfill Gas Emissions are reported every year to the EPA, following a strict protocol according to the U.S. EPA Climate Leaders Greenhouse Gas Inventory Protocol and Guidance Documents. Republic calculates the Greenhouse Gas (GHG) emissions from landfills using the equations

and methods set forth in the federal regulations. See 40 CFR Part 98. The rule does not require control of GHGs, rather it only requires that sources above certain threshold levels are monitored and the emissions and other related data are reported.

The workflow for calculating landfill emissions involves data compilation by a third-party consultant and the Republic Services local engineering staff. Local environmental managers review the year-over-year reporting roll-up summary for each of their sites and upload their modified GHG Tools to the Central Desktop collaboration workspace. The Division/Area environmental managers approve and confirm data from each area by spot-checking site data, as necessary. The consultant then collates the data for reporting to the EPA. At a corporate level, a final validation of the data is done by Engineering to evaluate the data for consistency. This includes follow up questions regarding data consistency and responding to the EPA follow up communications. The consultants are responsible for compilation of the reporting information and supporting Republic teams.

Republic reports mobile sources and equipment emissions for fuel consumed in owned and leased vehicles and stationary/off-road equipment. The US EPAs GHG Inventory EFs are used as well as the IPCC GWPs. Refrigerant emissions from vehicle and building air conditioning are currently not calculated and are considered de minimis.

In summary:

- Landfill methane emissions are calculated by Republic using a third-party Landfill Gas Emission Model. This has been compared with emissions calculated using proprietary gas generation models developed by industry experts or other agencies.
- The data are ultimately checked by the EPA review.
- Landfill methane emissions calculated by gas collection system efficiency are compared to emissions estimated through gas modeling at every site within the site-specific database.
- Landfill gas sampling and third-party laboratory analysis is carried out using the applicable U.S. EPA test methods for determination of methane and total hydrocarbon content.
- Monitoring equipment is maintained, operated, and calibrated based on manufacturer's recommendation, with calibration and maintenance records kept for audit purposes.
- Quality assurance and quality control measures associated with equipment used for facility level LFG flow rate and composition measurements are maintained.

The results of this reporting forms the basis of our Scope 1 GHG emissions inventory.

G4-EN16 Energy indirect greenhouse gas (GHG) emissions (Scope 2)

Emission Category (tCO2e)	Emission Source	2015	2016	2017
LOC	Electricity	282,623	282,910	261,044

MKT	Electricity	295,127	281,791	283,882
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Republic follows the operational control consolidation approach.

G4-EN17 Other indirect greenhouse gas (GHG) emissions (Scope 3)

Sources of Scope 3 emissions (tCO₂e)	2015	2016	2017	Emissions calculation methodology
Purchased goods and services	595,598	454,947	490,203	Republic uses Environmentally Extended Economic Input Output (EEIO) analysis based on its annual supplier and procurement spend data. The spend data was mapped to corresponding industry sectors and is then multiplied by cradle-to-gate emission factors for the activity to provide estimated carbon emissions associated with the extraction, production and transport of purchased goods and services acquired or purchased by Republic in the reported year. Supplier spend activity that was already included in Scope 1 or 2 (such as electricity purchases from leased buildings) and other Scope 3 categories (such as upstream transportation and distribution) that could be further defined to a GHGP Scope 3 category or could be supplemented with actual data were removed from the Purchased Goods & Services category to prevent double counting. This may represent an under- or over-reporting of emissions in certain supplier categories and specific suppliers based on available spend data due to the nature of cost and accrual accounting. We anticipate improving the methodology and availability of data in the future which will impact our year-on-year reporting and trends over time.
Capital goods	549,955	395,255	447,868	Republic uses Environmentally Extended Economic Input Output (EEIO) analysis based on its annual supplier and procurement spend data. The spend data was mapped to corresponding industry sectors and is then multiplied by cradle-to-gate emission factors for the activity to provide estimated carbon emissions associated with the extraction, production and transport of capital goods acquired or purchased by Republic in the reported year. We have elected to use this

methodology over using a single generic emissions factor (EF) for 'all' capital goods as reported, to enable better visibility into specific capital good categories by spend and carbon impact. Supplier spend activity that was already included in Scope 1 or 2 (such as electricity purchases from leased buildings) and other Scope 3 categories (such as upstream transportation and distribution) that could be further defined to a GHGP Scope 3 category or could be supplemented with actual data were removed from the Capital Goods category to prevent double counting. This may represent an under- or over-reporting of emissions in certain supplier categories and specific suppliers based on available spend data due to the nature of cost and accrual accounting. We anticipate improving the methodology and availability of data in the future which will impact our year-on-year reporting and trends over time.

Fuel-and-energy-related activities (not included in Scope 1 or 2)	379,970	370,445	370,992	Emissions were calculated for fuel-and-energy-related activities (not included in Scope 1 or 2) by totaling activity data for each Scope 1 fuel type and electricity consumption by country. These totals were multiplied by their relevant specific emission factors from UK Defra / DECC 2017 Conversion Factors for Company Reporting.
Waste generated in operations	103,691	87,754	101,804	Republic uses Environmentally Extended Economic Input Output (EEIO) analysis based on its annual supplier and procurement spend data. The spend data was mapped to corresponding industry sectors and was then multiplied by cradle-to-gate emission factors for the activity to provide an estimate of carbon emissions associated with the extraction, production and transport of leachate waste generated in operations by Republic in the reported year. Supplier spend activity that was already included in Scope 1 or 2 (such as electricity purchases from leased buildings) and other Scope 3 categories (such as upstream transportation and distribution) that could be further defined to a GHGP Scope 3 category or could be supplemented with actual data were removed from the waste generated in operations category to prevent double counting. This may represent an under- or over-reporting of emissions in

certain supplier categories and specific suppliers based on available spend data due to the nature of cost and accrual accounting. We anticipate improving the methodology and availability of data in the future which will impact our year-on-year reporting and trends over time.

Upstream transportation and distribution	245,147	265,445	246,974	<p>Republic maintains detailed cost data for Third Party Hauler and Subcontract Collection services that it uses to support its Collection services. An assessment of spend on fuel as a percent of total spend on third party haulers has been made and is used to determine the quantity of fuel consumed by the third-party fleets using the 2017 DOE national average for Ultra Low Sulfur Diesel (ULSD). These total gallons of third party fuel used are then used for these upstream transportation and distribution emission calculations. Fuel used by Subcontract Collection vehicles is also calculated. The fuel spend estimate is similarly converted to gallons of diesel using the 2017 DOE national average for ULSD, which is then used to calculate GHG emissions. US EPA Climate Leaders: Emission Factors for Greenhouse Gas Inventories, 2017 were used to calculate the emissions.</p>
Business travel	6,782	8,305	10,093	<p>Annual data for air travel and rental cars are provided by Republic's travel agency. Air travel data is broken out by each flight leg and the distances, which is used to calculate total short, medium and long haul miles (Short flights (<300 mi), Med. flights (300-2300 mi), Long flights (>2300 mi)). UK DEFRA 2017 emissions factors are used to calculate the air travel GHG emissions. Rental car mileage was converted to gasoline gallons using an estimated 20 miles per gallon. US EPA Climate Leaders: Emission Factors for Greenhouse Gas Inventories, 2017 were used to calculate the emissions from the rental car gasoline.</p>
Employee commuting	19,309	19,096	13,912	<p>Republic uses Environmentally Extended Economic Input Output (EEIO) analysis based on its annual supplier and procurement spend data. The spend data was mapped to corresponding industry sectors and then multiplied by cradle-to-gate emission factors for the activity to provide estimated carbon emissions associated with the transportation of its employees for relocation during the reported year. This may represent an under- or over-reporting of emissions in certain</p>

				supplier categories and specific suppliers based on available spend data due to the nature of cost and accrual accounting. We anticipate improving the methodology and availability of data in the future which will impact our year-over-year reporting and trends over time.
Upstream leased assets	3,792	2,795	3,519	Republic uses Environmentally Extended Economic Input Output (E2IO) analysis based on its annual supplier and procurement spend data. The spend data was mapped to corresponding industry sectors and is then multiplied by cradle-to-gate emission factors for the activity to provide an estimate of carbon emissions associated with the extraction, production and transport of upstream leased assets purchased by Republic in the reported year. Supplier spend activity that was already included in Scope 3 categories (such as rental vehicles for business travel) that could be further defined to a GHGP Scope 3 category or could be supplemented with actual data were removed from the upstream leased assets category to prevent double counting. This may represent an under- or over-reporting of emissions in certain supplier categories and specific suppliers based on available spend data due to the nature of cost and accrual accounting. We anticipate improving the methodology and availability of data in the future which will impact our year-over-year reporting and trends over time.
Use of Sold Products	10	10	10	This figure represents a portion of the composted tonnage sold to downstream users, and the corresponding emissions from transporting and turning compost piles, but does not include the negative emissions savings associated with the carbon storage resulting from the compost application to soils. We have estimated the full lifecycle emissions impacts from our sold products, mainly recycled commodities (2.5M tons sold in 2017, including 165k tons of compost). The number reported represents the positive portion of the emissions associated with the use of sold compost. Total lifecycle emissions impacts, however, result in a negative 6.7M MTCO2e (avoided) emissions,

which we are not accounting for in our total scope 3 emissions figure.

Lifecycle emissions include upstream mining, processing and transportation of materials that enter the waste stream, transportation and recovery/processing of commodities/compost by companies like ourselves, as well as, downstream processing, transportation, and re-manufacturing where applicable. Emissions from recycled materials and compost sold are calculated using methodologies and emission factors from the EPA's Waste Reduction Model (WARM), version 14. Recycled materials sold is based on the percent of various commodities as sold by Republic in 2017. GWPs are from the IPCC (2007) Fourth Assessment Report. This model bases its emissions calculations on a life-cycle analysis, including emissions from the long-term decomposition of waste in a landfill and upstream sources/sinks. Further emissions savings are realized through the collection, processing and sale of recycled commodities. Data quality is considered consistent with inputs from our database on sustainability metrics.

Refer to our CDP Report for additional details on the standards, methodologies and assumptions used to calculate the data reported in this Indicator. Other categories not reported herein are considered not relevant to Republic.

G4-EN18 Greenhouse gas (GHG) emissions intensity

	2016	2017	Percent Change
Revenue (\$USD millions)	\$9,838	\$10,042	2.1%
Scope 1 Emissions (MTCO2e)	13,979,024	13,486,262	-3.5%
MTCO2e/\$M Sales	1,421	1,343	-5.5%
Scope 2 Emissions (MTCO2e)	281,791	283,882	1%
MTCO2e/\$M Sales	29	28	-1%
Scope 1&2 Emissions (MTCO2e)	14,260,815	13,770,144	-3%
MTCO2e/\$M Sales	1,450	1,371	-5%

The inventory includes CO₂, CH₄ and N₂O emissions from fuel consumption and landfill emissions. HFC emissions from refrigerant use, PFCs, NF₃ and SF₆ are not included as Republic does not use these compounds at a materially reportable level.

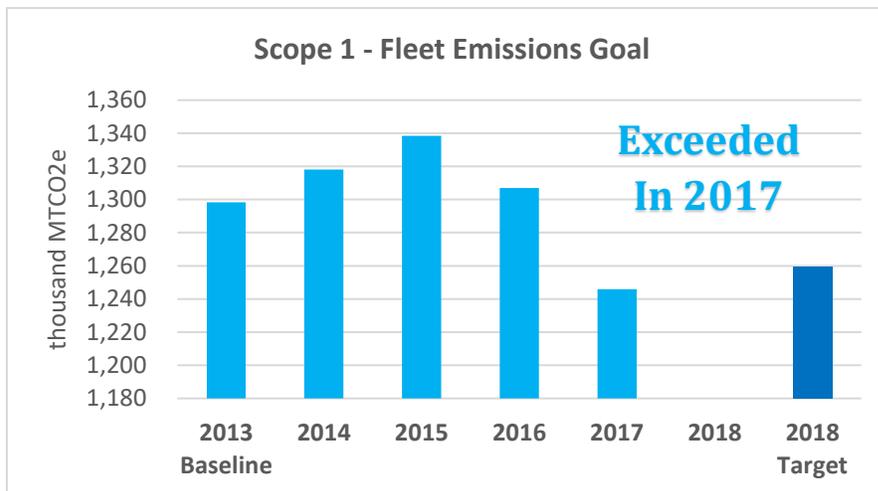
G4-EN19 Reduction of greenhouse gas (GHG) emissions

Republic has a number of initiatives in progress to reduce its overall GHG emissions, including programs focused on its two largest sources of emissions, landfills and fleet.

Fleet Operations

- *Reduce our Scope 1 Fleet absolute greenhouse gas emissions by 3% by 2018, from a 2013 baseline*

The greatest contribution to emissions from Republic’s energy use in our own operations (fleet, buildings and landfill day to day operations) is our fleet. We have close to 16,000 recycling and waste collection vehicles that serve our customers across the Country and our collection fleet comprises roughly 9% of our scope 1 emissions. Thus, our attention is focused on reducing the impact of our fleet.



Republic also has a number of initiatives in progress to reduce the amount of fuel that we use, and therefore, our GHG emissions from our fleet. Specific to our primary scope 1 fleet reduction goal, our diesel to CNG conversion program has, to date, converted 19% of our trucks to CNG from diesel, and we are continuing to do this at a rate of roughly 30% of replacement vehicle purchases per year. This has resulted in a decrease in the total gallons of diesel purchased and consumed by our fleet and yields a corresponding GHG emissions reduction, amongst other benefits. In 2017, we realized a 60,696 MTCO₂e emission reduction. In addition, in 2017 we increased our use of renewable natural gas in our fleet, which provided a total reduction of 67,645 MTCO₂e from our Scope 1 emissions. RNG is derived from biogenic methane that is generated by the decomposition of organic waste in landfills or anaerobic digesters. According to the California Air Resources Board, RNG has the lowest carbon intensity of all commercially available transportation fuels. Because of our previous investments in CNG vehicles and fueling stations, Republic will be able to use RNG to power our CNG fleet in 20 states, as RNG is a seamless replacement for CNG fuel. We believe

a gradual fleet conversion is most prudent to realize the full value of our previous fleet investment, while meeting the requirements of our customers, and that using CNG vehicles provides us a competitive advantage while reducing the amount of fuel required for our operations, improving air emissions, and significantly reducing vehicle noise profiles.

Materials Management

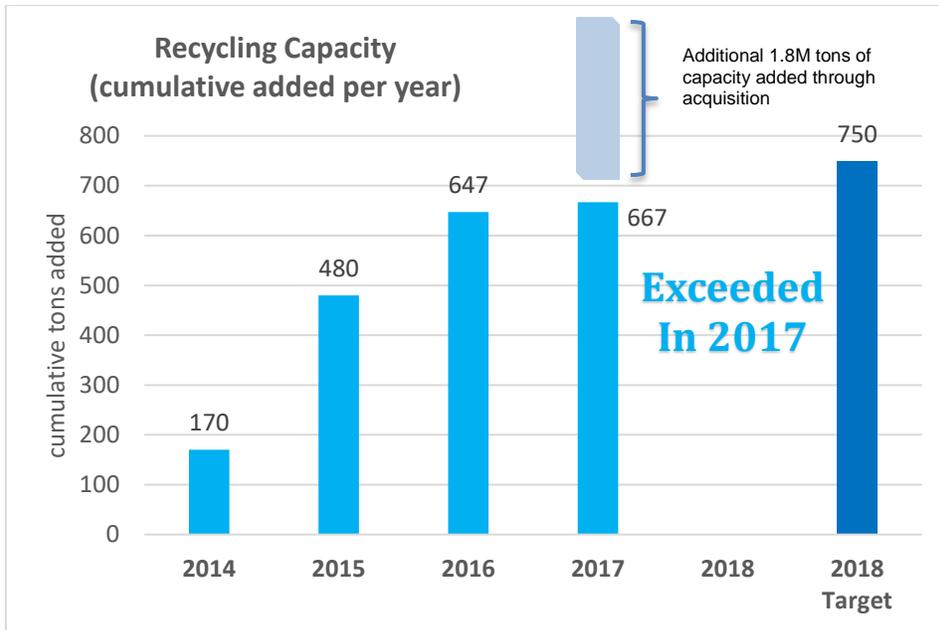
We recognize the opportunity we have to responsibly manage the diversity of materials in the waste stream. Not only to extract value from those materials in the form of commodities and energy, but to also reduce the greenhouse gas emissions associated with those materials. We are focused on two high impact areas to drive emissions reductions resulting from the materials we handle:

Commodities & Recycling

- *Add an additional 150,000 tons per year or more of recycling capacity by 2018 to enable growth of recycling and a net reduction of 480,000 MTCO₂e per year¹*

Recycling results in a significant reduction in greenhouse gases compared to growing or mining those same commodities for use as virgin raw materials. Republic's goal is to increase the ability to recycle by adding capacity each year to our recycling infrastructure. Through experience, we've learned that communities can only add or increase recycling when the infrastructure exists. We are on target to reach our goal by 2018, and this will result in a reduction of 2.4M tons of CO₂e emissions over this 5-year goal period. That's in addition to the nearly 15 million tons of avoided CO₂e emissions that we enable through our recycling network each year and the 6.6 million tons of avoided CO₂e emissions that we enable through our own recycling operations. In 2017, Republic acquired ReCommunity, the largest independent MRF operator in the country, which operated 26 MRFs in 14 states. This acquisition added another 1.8M tons of capacity to our capability. Also in 2017, we upgraded several recycling facilities to increase capacity and capability by 20,000 tons per year. Together, these actions helped us to exceed our recycling goal a year early.

¹ EPA Warm Version 13, 6/14, Mixed recyclables; includes lifecycle assessment (LCA) of materials. Every ton of material that is recycled instead of landfilled results in a reduction of 3.2 tons of CO₂e.

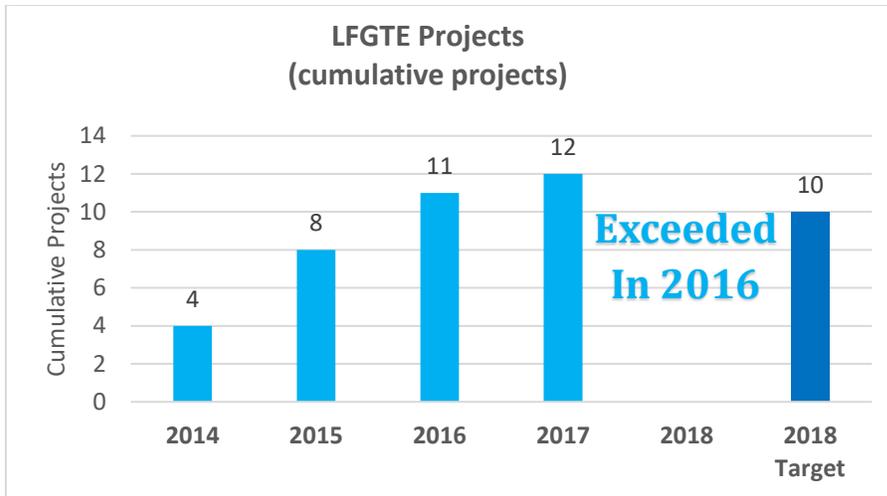


Energy

- Develop at least 2 LFGTE projects per year, resulting in roughly 20,000 tons per year of avoided CO₂, through 2018

Materials like paper, food and yard waste generate biogas containing methane when they break down in landfills. Harvesting the biogas prevents the methane from escaping into the atmosphere. Using biogas for energy projects, called landfill gas-to-energy (LFGTE), displaces the use of fossil fuels for energy generation. By managing these materials and creating an alternative energy source, we can significantly reduce greenhouse gas emissions through the avoided use of fossil fuels. We achieved our 5-year target in 2016, completing a total of 11 new LFGTE projects since 2013. In 2017, we completed one additional project (avoided emissions totaling 7,350 MTCO₂e^[2]). These savings are in addition to the existing LFGTE projects already in place across Republic's landfill operations.

^[2] Every LFGTE project captures roughly 1500 scfm of biogas. Avoided emissions calculated using the EPA LFG Energy Benefits calculator "avoided equivalent emissions" and EPA equivalency calculator.



G4-EN21 Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions

Landfill air emissions were calculated using measured landfill gas flows at individual open or enclosed flares as reported to the Environmental Protection Agency under the Greenhouse Gas Reporting Regulation (GHGRP), engineering calculations, and mass balance calculations. These same gas flows are used in Republic’s annual greenhouse gas reporting. It should be noted that the emissions factors and calculations used below are based on the aggregate gas flow across the company and we are not using individual site emission factors and calculations. Calculations were based only on device type (i.e. open flare or enclosed flare) and did not consider other site-specific information such as permit limits, source test results, or other factors.

Air Emissions	2017
NOx (excluding N ₂ O)	1304 metric tons
SOx	314 metric tons
Volatile organic compounds (VOCs)	31 metric tons
Hazardous Air Pollutants (HAPs)	49 metric tons

G4-EN22 Total water discharge by quality and destination

Refer to page 14 of our 2015 Sustainability Report for a discussion on how water impacts Republic Services, primarily at our landfills through the management of leachate. Our leachate collection systems collect and process water to ensure that landfills have a minimum impact on watershed regeneration. In 2017, 1.745 billion gallons of leachate was collected, processed and treated at Republic’s active and closed landfill sites through a comprehensive leachate treatment program.

G4-EN29 Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations

Refer to pages 25-26 of our 2017 10-K for a discussion on our environmental matters with potential monetary sanctions exceeding \$100,000.

G4-EN31 Total environmental protection expenditures and investments by type

Refer to pages 25-26, 30-31, 45, 61, 79 and 94-95 of our 2017 10-K for a discussion on our Environmental Remediation Liabilities and expenditures.

Labor Practices & Decent Work

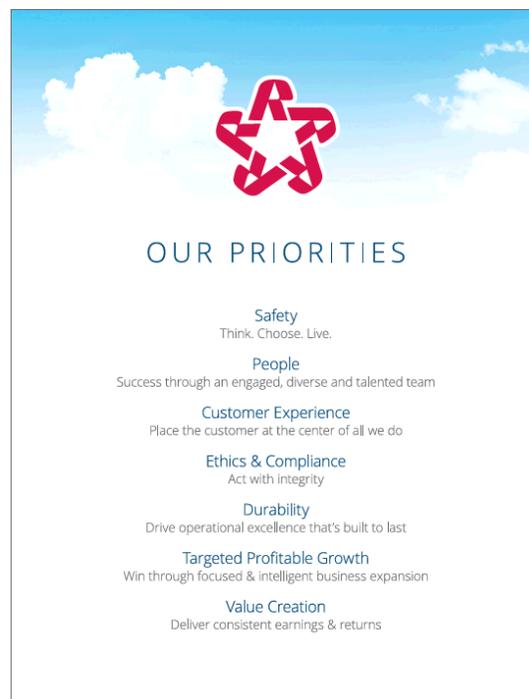
Disclosures on Management Approach

The goal of our people and talent agenda pillar is to create an environment to attract and retain the best talent. Our people continue to be the most critical component in successfully executing our strategy. We strive to make Republic a desirable place to work for our approximately 35,000 full-time employees by creating learning experiences, programs, compensation and benefits that attract, develop, train, engage, motivate, reward and retain the best workforce. We aspire to be a company where the best people want to work and are engaged every day. We accomplish this through our focus on safety, learning and talent development, and diversity and inclusion. Details on how we evaluate and manage these aspects, including our commitments and targets, is provided in Section G4-LA6. Additional information on how we have identified and prioritized these material aspects is provided in G4-2.

Coverage

Coverage of the company's publicly available social indicators is for 100% of our business operations where data is available, unless otherwise noted.

At Republic Services, safety is our #1 priority as evidenced by it being at the top of “Our Priorities” list (see below). These priorities are communicated to all employees and are used by Executive management to ensure that it is clear that Safety is a priority over everything else. Executive management is involved in leading safety throughout the organization and includes safety in Board meetings, Corporate Sr. Management meetings, Area Management meetings and Division Management meetings. Additionally, the Risk Management



Department meets quarterly with the Safety Department to discuss safety programs and initiatives.

Republic has a comprehensive safety management system. We spend roughly \$1,000,000 a year to create safety management materials, such as Focus 6, Defensive Driver Training and Special Topic Safety Videos. (This spend does not include driver wages incurred during training sessions or salaries for our Safety Staff.) Additionally, Republic Services has a staff of corporate and field safety professionals to administer the plan. The primary function of the staff is to improve overall safety performance, direct field safety activity, facilitate OSHA, Environmental and DOT matters, reduce losses, and provide statistics for performance standards to company goals. The safety team includes:

Field Safety Staff:

- 11 Area Safety Managers
- 8 Business Unit Level Safety Managers
- 6 Safety Representatives
- 22 Area Driver Training Managers

Corporate Safety Staff:

- Senior Vice President, Safety
- Director, Safety
- Sr. Manager, Safety
- Manager, Safety Programs
- 2 Sr. Safety Analysts

Republic has multiple policies, programs and procedures in place to incentivize, educate and prioritize safety for our front-line employees. Details of several of these components are as follows:

1. New Driver Training – Standardized training for all new drivers hired into Republic Services.

- All Driver Training Managers and Behind the Wheel Instructors are internally certified to perform the training.
- The program includes internal certification for each step of the training process. Each new driver must successfully complete both classroom and field skills training to move on to the next step of training.
- There are 22 training centers and approximately 2,300 drivers trained yearly.
- Core Content includes, but is not limited to:
 - ✓ Route Familiarity – New employees ride with an experienced employee, after the initial basic safety training, to ensure a clear understanding of the job, climate and requirements.
 - ✓ Classroom Training – Training on Republic Safety Programs and Defensive Driving Techniques, including Smith System 5 Keys to Safe Driving. The Smith System is a highly recognized 3rd party defensive driver training program. The 5 Keys are:

- Aim High in Steering – Improves following distance and awareness in front of the truck
- Get the Big Picture – 360-degree awareness around the truck at all times
- Keep Your Eyes Moving – Always scan your mirrors and avoid a fixed stare
- Make Sure They See You – Ensure 3rd parties recognize our truck
- Leave Yourself an Out – Have a backup plan to avoid a collision
- ✓ Line of Business (LOB) Specific Training – Training specific to the type of equipment the employee will operate, which includes, Commercial Frontload, Industrial Roll-off, Residential Sideload, etc.
- ✓ Skills Course Testing – All employees must demonstrate the ability to safely operate the equipment prior to being released to a route. Each Skills Course Test is pass/fail. If a trainee is ultimately not able to pass a test, they are terminated from the company.
- ✓ Behind the Wheel (BTW) Instructor Training – All employees ride with a BTW Instructor, for a period of 1 to 4 weeks, based on past experience, to apply the skills learned at the center to an actual route.
- ✓ Follow-up Certification – All employees receive a 30, 60 and 90-day follow-up meeting with their supervisor to ensure a clear understanding of the training.

2. Annual Defensive Driver Training – Interactive, internally developed, standardized training for all existing drivers.

- Training is typically provided by a 3rd party consultant, recognized as an expert in the area of driver training. Republic Services has maintained an agreement with Safety Research Consultants to provide the training since 2009. Each driver receives training at their respective division, yearly. The instructors consist primarily of active and retired police officers. All trainers are certified and all attendees receive certificates of training from the program. Content includes:
 - ✓ Safe Driver Training – Interactive training based on the games Pictionary, Password and Guesstures. The training includes:
 - Smith System Training – Review of the 5 keys to safe driving.
 - Focus 6 – Review of company Focus 6 defensive driving program.
 - Overall Safety – General topics covering all aspects of driver safety.

3. Focus 6 – Monthly training – The program addresses six specific accident/claim types. Backing up, Intersection Hazards, Push/Pull/Lift (Strain/Sprain Injuries), Rear Collisions, Rollover and Pedestrian Incidents. Historically, Focus 6 accidents have accounted for the largest number of high cost claims.

- Training is internally conducted by the Operations Manager and Supervisors for each Division. General Managers typically attend and Area Safety Managers train and coach employees who deliver the training.
- The program includes both classroom and skills based training. The classroom portion of the training includes a DVD facilitated by a field leader. The skills based portion of the training is held in the yard outside the training classroom or individually on route with drivers.
- Various methods are used to reinforce the training message, including:

- ✓ Monthly Poster
- ✓ Supervisor “talking points” to encourage interaction in training with employees
- ✓ Bi-weekly safety points
- ✓ Ride-a-long activity and skills training focus on one-on-one interaction
- Republic Safety staff spend considerable time in analyzing safety incidents. The areas mentioned above constituted approximately 20% of all claims.
- The Focus 6 also includes periodic special Safety programs – depending on the need, including:
 - ✓ 101 Days of Summer (Summer Safety) – Watch out for children, drink plenty of water
 - ✓ 90 Days of Winter (Winter Campaigns) – for areas with severe winter weather

4. Compliance Training – Monthly compliance topics (OSHA, DOT, etc.)

- Standardized training in a classroom atmosphere and/or videos. Topics include, but are not limited to:
 - ✓ Lockout/Tagout and Electrical Safety
 - ✓ Hazard Communication
 - ✓ Emergency Response Plan Procedures
 - ✓ Proper Personal Protective Equipment Training
 - ✓ Seat Belt Use
 - ✓ DOT Drug/Alcohol Substance Abuse

5. Republic Services Observation Program (ReSOP) – Employee observation program developed to improve the overall performance of front-line employees. Each supervisor is responsible for completing 2 ReSOP’s per week. Approximately 100,000 observations are completed each year.

- Create a culture where supervisors develop a relationship with and change the behavior of employees, focused on:
 - ✓ Safety
 - ✓ Customer Service
 - ✓ Operational Effectiveness
 - ✓ Performance Management
- Employees are scheduled for observation by Supervisors based on criteria including but not limited to; tenure, job changes, risk exposure, and route / work area concerns.

6. Truck Safety Devices – Trucks are more visible and have a variety of safety features.

- Rear Cameras, except Roll off trucks and pick-up trucks.
- In-cab backing alarm system (primarily in Front End Load and Residential trucks) in addition to back-up alarms.
- Enhanced strobe lights increase visibility of trucks (all route trucks)
- Enhanced Visibility Tape (all route trucks)
- Mirrors on trucks (all trucks)

7. SAFE Booklet – Safe Actions for Excellence – Step by step standardized safety procedures to be followed by employees when performing work. Includes procedures for all

job positions, including: Drivers, Helpers, Technicians, Heavy Equipment Operators, Laborers, Sorters, and Office Employees.

8. In Cab Event Recorder/Cameras (Currently on approx. 775 Trucks)

- Republic has deployed in-cab event recording systems to numerous routed front-line trucks and plans to expand use of the recording devices in 2018. The pace of the roll-out will depend upon the full impact of the system, which is currently under review. The system is utilized for:
 - Identify critical/unsafe driving behavior, including sudden stopping or starting, increased acceleration, and actual crashes;
 - Record any incident from multiple perspectives;
 - Use as a supervision and coaching tool for drivers to identify unsafe behaviors (e.g., distracted driving, lack of seatbelt) and promote safe choices (seatbelt usage, defensive driving techniques); and assist in addressing third-party claims, including those for property damage.

9. Serious Incident Notification Procedures

- All serious accidents, REGARDLESS OF FAULT, must be reported to Corporate Risk Management as quickly as possible. Serious accidents/serious injuries may include, but not be limited to, the following:
 - ✓ Fatality
 - ✓ Amputation
 - ✓ Individuals taken from the scene with serious/life threatening injury
 - ✓ Individuals taken from the scene via air-flight
 - ✓ Multiple injuries
 - ✓ Property damage (for example: fire, tornado, earthquake, etc.) over \$100,000
 - ✓ Incidents that have or could attract major media attention

In the event of a serious loss / fatality, Risk Management promptly holds a conference call with Safety, local operations and other interested company stakeholders to ensure proper response and enhance early intervention.

• **10. Red Cross First Aid/CPR Certification** – All field safety professionals are certified First Aid/CPR providers. Additionally, all operation supervisors are certified in First Aid/CPR response. In the event of an incident, our structure allows for quick emergency medical response.

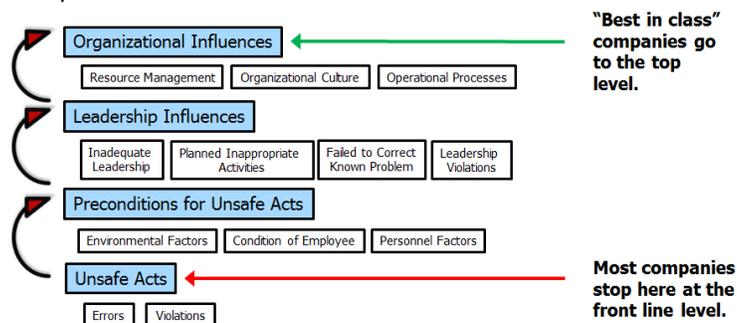
11. One Fleet – A program that provides a standard approach and tools to implement best practices and processes – for fleet management, truck care and maintenance. A maintenance program to drive the “Republic Way” – one, standard best-in-class fleet management system that makes fleet management foundational and the cornerstone of the “Republic Way”. A program that minimizes variability in Fleet operations through standardized procedures and consistent execution to improve reliability and fleet availability. A set of Republic standards that ensures program durability and where changes are sustained over the long term maximizing shareholder value.

- Fleet Management impacts everything we do as a company.

- We have enjoyed a significant level of success in maintenance; therefore, our aspirations are to move from “good” to “great” in the journey toward operations excellence.
- The key objective to continued improvement is ensuring consistent execution and durability across the network.
- We have engaged a cross-functional team from the field to guarantee that everyone has a voice and no stone is left unturned.
- We completed our multiyear program in the second quarter of 2017 that hits every site in the Republic network through a phased rollout approach.
- There are 6 Operating System Pillars in the program:
 1. Preventive Maintenance – A consistent preventive maintenance (PM) program in which properly trained techs perform all preventative maintenance repairs on time; quality is assured through regular spot checks.
 2. Planning and Scheduling – Improve shop capacity and productivity significantly by introducing maintenance planning, scheduling (P/S) and standard best practices across all sites.
 3. Workplace Organization – Ensure that each site optimizes its layout and organization based on its unique footprint to reduce waste and improve productivity using 5S standards.
 4. Repair Quality and Training – Establish standard work procedures and times for the most common repairs, with operating procedures, part needs, quality requirements, and safety focus.
 5. Driver Practices – Introduce standardized driver practices that build on the current Operations - Maintenance partnership with increased accountability from drivers.
 6. Parts Management – Leverage best-in-class practices across the company to manage inventory – including external vendor management – to improve parts availability, reduce waste and lower costs.

12. Human Factors Analysis and Classification System (HFACS) – Many incidents are evaluated to identify the root cause of accidents in all levels of the organization.

- Republic began to utilize the HFACS process to evaluate some Workers Compensation incidents in August of 2014. The goal of the program is to identify and correct issues that could lead to losses.
- The process includes:



- Our objective in implementing HFACS, is to increase accountability and prevent accident re-occurrence.

13. Republic Absolutes and Standards – In 2017, Republic enhanced a few specific programs to ensure management involvement and front-line employee compliance. The programs included:

- Seat Belt Use – Seat belts must be properly worn by operators and passengers of Company-owned, leased, or rented vehicles and equipment.
- Personal Protective Equipment – Personal Protective Equipment (PPE) must be properly worn by required personnel when appropriate. PPE includes but is not limited to: protective clothing; shields; and equipment for eyes, face, head, hands, feet and other extremities.
- Company Uniforms – Approved uniforms must be worn by required personnel at all times during working hours. Employees must be in their uniform and ready to work before clocking in for the day and remain in uniform for the duration of their shift.
- Fleet Security – Company vehicles must be secured while on route and while on site at Republic facilities. On route, whenever a vehicle is left unattended and will be outside the driver's line of sight, or if the driver will be more than approximately 100 feet away from the vehicle, it must be shut down and the key removed.
- Lock/out-Tag/out – Employees must adhere to the lock out tag out (energy control) procedures when servicing, maintaining, or cleaning out all Company-owned, leased, or rented vehicles and equipment.

14. Coalition Activity and Distracted Driving – Republic has joined several coalitions and committees to impact 3rd party distracted driving.

- Together for Safer Roads (TSR) – An innovative coalition that brings together global private sector companies to focus on improving road safety and reducing deaths and injuries by road traffic collisions. Its founding members are Anheuser-Busch InBev, AIG, AT&T, Chevron, Ericsson, Facebook, IBM, iHeartMedia, PepsiCo, and Ryder. TSR uses the knowledge, data and technology, and global networks of members to promote:
 - Safer road, vehicles and systems, Safer road users and Advocacy and thought leadership
- National Safety Council (NSC) – The organization saves lives by preventing injuries and deaths at work, in homes and communities, and on the roads through leadership, research, education and advocacy. The NSC has partnered with AAA and the University of Utah on a study showing the correlation between cognitive distraction and driving safety and they have developed awareness materials to educate the general public.
- Direct Delivery Leadership Council (DDL) – The mission of the DDL is to identify, establish and promote “best practices” for improving and integrating safety leadership, productivity and profitability for the direct delivery and service industries. The DDL was established by a group of companies who are committed to the improvement of direct delivery operations. These industry leaders believe that through cooperation, research, analysis and planning the members can achieve a better world for our drivers and for the public they serve.
- National Waste and Recycling Association (NW&RA) – Safety is both a core value and a priority from a strategic management perspective. Our work is focused on making trash collection, processing and disposal operations less dangerous by encouraging

safety training, compliance with regulations, ANSI standards and company safety rules and policies.

Safety is taken very seriously at Republic. All losses are reported to management and the safety team within 24 hours. Lag time reports are generated to ensure reporting compliance. Additionally, all serious losses are reported immediately to Corporate Risk Management to ensure quick, appropriate response.

Lastly, Republic has instituted a strict policy for discipline. Progressive disciplinary actions are taken, up to and including termination.

The National Waste and Recycling Association Driver of the Year Award is a means to achieve public recognition within the industry for safe driving. All Republic divisions participate in this program. The safest driver is awarded with the use of a new truck with their name and driver of the year sticker on the door. Additionally, they receive a cash prize and all-expense paid trip to Waste Expo with his/her spouse. Since 2009, Republic has had 15 Driver of the Year Winners in the Large Category of Waste Haulers. Since the industry only recognizes 3 Large Industry drivers each year, Republic has won 18 of the past 24 Driver of the Year Awards! Our most recent winners are:

- 2009 – Donny Lederer (Commercial)
- 2009 – John Thomas (Industrial)
- 2010 – Ken Aldrich (Commercial)
- 2010 – Anthony Lucious (Industrial)
- 2010 – Rodney Poe (Residential)
- 2011 – Keith Pilot (Residential)
- 2011 – Danny McIntyre (Commercial)
- 2012 - Brett Popke (Industrial)
- 2012 - Jesus Pena (Commercial)
- 2012 - Mike Buczkowski (Residential)
- 2013 - Daniel Parker (Industrial)
- 2013 - Terrance Johnson (Residential)
- 2014 - Quemene Perea (Commercial)
- 2014 - Florentino Castellon (Industrial)
- 2014 - Johnny Caine (Residential)
- 2015 – Todd Colarusso (Commercial)
- 2016 – Efren Lopez (Residential)
- 2016 – Dave Bedford (Industrial)
- 2017 – Javier Verduzco (Commercial)
- 2017 – Jesse Peña (Industrial)

G4-LA6 Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities, by region and by gender

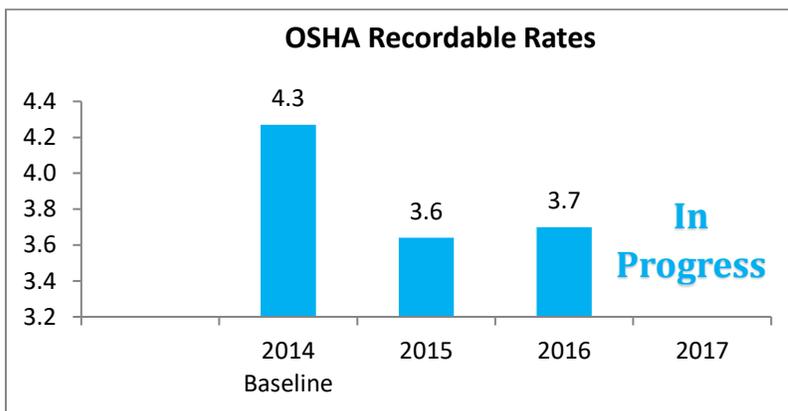
	2014	2015	2016	2017
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Lost-Time Injuries Frequency Rate (LTIFR)	8.82 (Per 1,000,000 hours worked)	7.29 (Per 1,000,000 hours worked)	6.74 (Per 1,000,000 hours worked)	4.94 (Per 1,000,000 hours worked)
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Safety

- Reduce our OSHA recordable rates by 7% on a year-over-year basis, from a 2014 baseline²

Republic is dedicated to the safety of our employees, customers and the communities we serve. Due to the nature of our industry, we prioritize safety above all else and we recognize and reward employees for outstanding safety records. Over the past 8 years, our safety performance (based on OSHA recordable rates) has been 41% better than the industry average.



We continue to pursue our safety goal. Although we did experience a slight increase in our 2016 OSHA recordable rate, we expect the number to come down again in 2017 and are still pursuing our stated goal.

In 2017, Republic had 2 OSHA reportable employee fatalities and 4 employee fatalities while operating collection vehicles. We deeply feel employee losses and endeavor to provide not only best in class safety programs, but also the training and know-how to leverage these programs. Because we are not satisfied until each and every one of our employees return home at the end of every day, we continue to intensify our efforts and commitment to safety.

According to the Bureau of Labor Statistics, work injuries involving transportation incidents remained the most common fatal event in 2016. At Republic, we're well aware that the nature of our business presents safety challenges to both our employees and our communities. That's why we prioritize safety above all else and work hard to design,

² Occupational Safety and Health Administration (OSHA) is the main federal agency charged with the enforcement of safety and health regulations. The OSHA Recordable rate shown is the Total Recordable Injury Rate (TRIR) and is a function of the number of recordable injuries and the total numbers of hours worked. Published OSHA data lag 1 calendar year.

implement and continuously improve safety programs for our employees. But that’s not enough. A disturbing trend that we’re seeing is the increase of distracted driving by non-Republic drivers, leading to vehicle accidents involving our drivers and members of the community. In some cases, these accidents lead to the fatality of a citizen, but not our driver. In fact, in 2017, roughly 50% of such fatal accidents were caused by distracted driving by a non-Republic driver. That’s why Republic has joined several coalitions and committees to impact 3rd party distracted driving. The most recent is Together for Safer Roads (TSR), an innovative coalition that brings together global private sector companies to focus on improving road safety and reducing deaths and injuries by road traffic collisions. It includes companies such as Anheuser-Busch InBev, AIG, AT&T, Chevron, Ericsson, Facebook, IBM, iHeartMedia, PepsiCo, and Ryder. It’s vitally important to us that other drivers understand the limitations in terms of maneuverability, stopping distance and visibility that a recycling or waste collection vehicle faces while working to keep our communities sanitary and clean. We believe that education and involvement of members of our communities can help to reduce these tragic accidents and make the roads safer for all.

(Source: <https://www.bls.gov/news.release/pdf/cfoi.pdf>, 12/19/17)

In addition to our safety management policies, practices, and procedures described above, Republic has multiple initiatives in progress to incentivize, educate and reinforce safety for our front-line employees.

G4-LA7 Workers with high incidence or high risk of diseases related to their occupation

None.

G4-LA9 Average hours of training per year per employee by gender, and by employee category

We are committed to developing our employees throughout their careers. Targeted onboarding experiences, including our Driver Training Center, Supervisor Onboarding and Sales Acceleration programs, focus on providing the fundamental skills each employee needs to succeed in his or her role. Our Leadership Trainee Program, an 18-month rotational experience for recent graduates, is another example of our commitment to providing opportunities for growth.

Developing our leaders is also a critical part of our people and talent agenda. From Leadership Fundamentals, a program for new front line supervisors, to our Republic Services Executive Institute, a program for our highest potential executives, we have developed programs and experiences to ensure that as our leaders progress, they are accumulating the skills necessary to be successful at each level. Over the last year, close to 50% of leaders have completed our Leadership Fundamentals program, creating a common language and toolkit for how we coach and develop employees.

	2015	2016	2017
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Average hours per FTE of training and development	16 hours	16 hours	16 hours
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The average amount spent per full time employee (FTE) is the cost for development of content at corporate/all FTEs. It does not include travel and living expenses, overhead and capital to staff and run our driver training centers, training materials, etc. These costs are carried by the local offices. For an example of our considerable investment in training and development, please refer to Section G4-LA DMA.

Social – Human Rights

Disclosures on Management Approach

The goal of our people and talent agenda pillar is to create an environment to attract and retain the best talent. Our people continue to be the most critical component in successfully executing our strategy. We strive to make Republic a desirable place to work for our approximately 35,000 full-time employees by creating learning experiences, programs, compensation and benefits that attract, develop, train, engage, motivate, reward and retain the best workforce. We aspire to be a company where the best people want to work and are engaged every day. We accomplish this through our focus on safety, learning and talent development, and diversity and inclusion.

We are actively and intentionally creating an environment in which all individuals are welcomed and valued. In 2013, we launched Mosaic as our renewed approach and commitment to diversity and inclusion. Through Mosaic, we have developed new strategies and activities to continue creating a more diverse workforce and inclusive work environment. In this way, we can leverage our best thinking to improve our culture and better serve our customers.

We believe there is no better way to protect our planet than to recruit and hire the heroes who have protected our country. We actively recruit and hire veterans - those transitioning from military life as well as those long discharged from active duty. We value the skills, experience and operational excellence they bring to our organization, as well as their commitment to a better tomorrow. Historically, we have had great success hiring veterans. In 2017, for example, 20% of general managers, 30% of operations managers, and 27% of maintenance managers that we hired self-identified as having served in the U.S. Army, Navy, Marines, Air Force or Coast Guard. Additional information on how we have identified and prioritized these material aspects is provided in G4-2.

Republic Services' Code of Business Ethics and Conduct makes compliance with high standards of business conduct mandatory for every Employee of the Company and independent contractors and covers aspects of Human Rights GRI indicators. The Republic Services' Ethics and Compliance Program ("Compliance Program") includes:

- 1) The Code of Business Ethics and Conduct (the "Code"), which establishes Republic Services' guiding ethical and legal principles for conducting its business; and

- 2) Corporate Policies and Procedures Manual (“Corporate Policies”), which make up the specific policies governing business ethics and expected behavior to which Employees and independent contractors must adhere; and
- 3) Human Rights Policy, which covers the categories of human rights that we respect.

While each of these sections has a specific purpose, together they provide an integrated approach to the way Republic Services will conduct business at every level of the Company.

Social – Society

Disclosures on Management Approach

We are dedicated to supporting our customers and being a good neighbor in the communities in which we live and work. This includes investing in our local communities through customer engagement, philanthropic giving, volunteerism, infrastructure investments, and operating in over 240 markets at the highest standards.

Additional information on how we have identified and prioritized these material aspects is provided in G4-2.

G4-SO1 Percentage of operations with implemented local community engagement

Republic Services gave approximately \$7.1 million back to the communities we serve last year. The newly created Republic Services Charitable Foundation is dedicated to supporting nonprofit, charitable organizations with a focus on neighborhood revitalization, disaster relief, safety and social services. Through the Foundation and our National Neighborhood Promise™ program, we are making a promise to help rebuild, revitalize and restore places and spaces in need to create stronger neighborhoods.

Cash Contributions	\$4,301,873
In-kind giving	\$2,782,073

G4-SO4 Communication and training on anti-corruption policies and procedures

We have a comprehensive training program for all employees on our Code of Business Ethics and Conduct. It covers elements of anti-corruption and bribery. Refer to our Code of Business Ethics and Conduct at <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-governance> for more information.

G4-SO5 Confirmed incidents of corruption and actions taken

For the reporting year 2017, we did not have any material violations or breaches of our Code of Business Ethics and Conduct. Refer to page 24 of our 2018 Proxy for more information.

G4-SO6 Total value of political contributions by country and recipient/beneficiary

We recognize the importance of transparency related to political contributions for our stakeholders. The company and its sponsored PAC follow all applicable federal, state and local campaign finance regulations regarding public disclosure. Reports are filed with applicable agencies which are then made available to company employees and the public at large via websites or via request as dictated by the agency. In addition, we have a publicly available policy regarding political contributions, which describes our protocols for political engagement, our PAC and our involvement with trade organizations. The policy can be found at: <http://phx.corporate-ir.net/phoenix.zhtml?c=82381&p=irol-govhighlights>.

Republic Service's national focus areas are related to solid waste, environment, energy, transportation, labor, and taxes. We work closely with our trade associations, lobbying teams and other partners to develop and maintain positions on these matters that are consistent with our corporate strategy and sustainability objectives, where possible. In 2017, Republic Services spent the following:

Federal lobbying	\$240,000
Local, regional, national political campaigns/organizations/candidates	\$892,303
Trade associations/Tax-exempt groups	\$368,225

Our largest lobbying contribution was to West Front Strategies, Inc, for \$240,000. We also contributed to an industry association, National Waste & Recycling Association (NW&RA) in the amount of \$368,225. The mission of the NW&RA is to provide leadership, advocacy, research, education and safety expertise to promote the North American waste and recycling industries, serve as their voice and create a climate where members prosper and provide safe, economically sustainable and environmentally sound services.

Social – Product Responsibility

Disclosures on Management Approach

Republic recognizes the responsibility and opportunity we have in managing the nation's waste stream to provide a source of renewable materials and energy to the economy. We are innovative and constantly exploring new options to capture value and energy from materials in the waste stream, while ensuring environmental responsibility and sustainability.

Additional information on how we have identified and prioritized these material aspects is provided in G4-2.

G4-PR3 Type of product and service information required by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements

Not applicable; none (0%) of Republic Services products and services require any product or service information and labeling.

G4-PR6 Sale of banned or disputed products

Not applicable; Republic Services does not sell any banned or disputed products.

APPENDIX - Assurance Statement related to Greenhouse Gas Emissions Inventory

**Assurance Statement related to
Greenhouse Gas Emissions Inventory for Calendar Year 2017
prepared for Republic Services, Inc.**

Terms of Engagement

This Assurance Statement has been prepared for Republic Services, Inc. (Republic).

Lloyd's Register Quality Assurance Inc. (LRQA) was commissioned by Republic to assure its GHG Emissions Inventory for the calendar year 2017 (hereafter referred to as "the Inventory").

The Inventory relates to direct (Scope 1) GHG emissions, energy indirect (Scope 2) GHG emissions, and other indirect (Scope 3) GHG emissions. The Scope 3 GHG emissions include Business Travel and Haulage contract services.

All emission scopes include only Carbon Dioxide (CO₂), Methane (CH₄), and Nitrous Oxide (N₂O).

Management Responsibility

Republic's management was responsible for preparing the Inventory and for maintaining effective internal controls over the data and information disclosed. LRQA's responsibility was to carry out an assurance engagement on the Inventory in accordance with our contract with Republic.

Ultimately, the Inventory has been approved by, and remains the responsibility of Republic.

LRQA's Approach

Our verification has been conducted in accordance with ISO 14064–3:2006 *Specification with guidance for validation and verification of greenhouse gas assertions* to provide limited assurance that GHG data as presented in the Inventory have been prepared in conformance with the World Resources Institute/World Business Council for Sustainable Development (WRI/WBCSD) GHG Protocol: *A Corporate Accounting and Reporting Standard* and Republic Services' Greenhouse Gas Inventory Management Plan.

To form our conclusions the assurance engagement was undertaken as a sampling exercise and covered the following activities:

- Reviewed processes related to the control of GHG emissions data and records;
- Interviewed relevant staff of the organization responsible for managing GHG emissions data and records; and
- Verified historical GHG emissions data and records at an aggregated level for the calendar year 2017.

Level of Assurance & Materiality

The opinion expressed in this Assurance Statement has been formed on the basis of a limited level of assurance and at a materiality of the professional judgment of the Verifier.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the total Scope 1, Scope 2 and Scope 3 GHG emissions disclosed in the Inventory, as summarized in Table 1 below, are not materially correct and that the Inventory has not been prepared in accordance with the WRI/WBCSD GHG Protocol and Republic's Greenhouse Gas Inventory Management Plan, except for the following qualifications:

- LRQA is unable to provide assurance of Republic's total Scope 1, Scope 2 and Scope 3 GHG emissions for CY2017 because we were only contracted to verify emissions of CO₂, CH₄, and N₂O.
- The 2016 emissions total applied in the calculation of the Scope 1 and Scope 2 year-on-year change metric in Table 1 below were different from the values verified for calendar year 16 due to discoveries that took place after the verification. The differences are not material.

Signed

Dated: May 24, 2018

Natali P. Garfer

LRQA Lead Verifier
On behalf of Lloyd's Quality Assurance, Inc.,
1330 Enclave Parkway, Suite 200,
Houston, TX 77077

LRQA reference number: UQA00000499

Table 1. Summary of Republic, GHG Emissions Inventory 2017

Scope	Value	Units
Scope 1 Emissions	13,486,262	Tonnes CO _{2e}
Scope 1 Biogenic Emissions	7,232,596	Tonnes CO _{2e}
Scope 2 Emissions (Electricity, Location based)	208,361	Tonnes CO _{2e}
Scope 2 Emissions (Electricity, Market based)	231,199	Tonnes CO _{2e}
Scope 2 Emissions (Other – Heat in leased buildings)	52,683	Tonnes CO _{2e}
Scope 3 Emissions (Business Travel and Haulage only)	257,066	Tonnes CO _{2e}
Total Scope 1 and Scope 2 Emissions (Location based)	13,747,306	Tonnes CO _{2e}
Scope 1 and Scope 2 Year-on-Year change	-3.6%	Percent

This Assurance Statement is subject to the provisions of this legal section:

This Assurance Statement is only valid when published with the Inventory to which it refers. It may only be reproduced in its entirety.

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Due to inherent limitations in any internal control, it is possible that fraud, error, or non-compliance with laws and regulations may occur and not be detected. Further, the verification was not designed to detect all weakness or errors in internal controls so far as they relate to the requirements set out above as the verification has not been performed continuously throughout the period and the verification carried out on the relevant internal controls were on a test basis. Any projection of the evaluation of control to future periods is subject to the risk that the processes may become inadequate because of changes in conditions, or that the degree of compliance with them may deteriorate.

The English version of this Assurance Statement is the only valid version. Lloyd's Register assumes no responsibility for versions translated into other languages.

In the case of any conflict between the English and other versions of this legal section, the English version shall prevail.