



As part of Alaska Air Group's commitment to disclose information about our sustainability performance, below is a compilation of environmental and social indicators including our greenhouse gas emissions, energy and water consumption, philanthropic activities, and employee numbers.

Data for McGee Air Services is not covered, as it represents less than 1% of AAG 2018 revenues.

For specific information regarding our complete 2018 operational or financial data and/or performance, please refer to our investor relations website at: [investor.alaskaair.com](http://investor.alaskaair.com)

# Greenhouse gas emissions

The statement of greenhouse gas emissions was prepared based on a calendar reporting year that is the same as the Alaska Air Group (AAG or the Company) financial reporting period.

Scope 1 and 2 GHG emissions information was prepared by an independent 3<sup>rd</sup> party in accordance with the World Resources Institute/World Business Council for Sustainable Development Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition.

## Total GHG emissions by source (metric tons)

	2018	2017	2016	2015	2014
Gross Global Emissions (Scope 1)	7,751,255	7,493,569	5,087,097	4,840,491	4,503,254
Aircraft (Scope 1)	7,733,609	7,453,560	5,061,825	4,816,259	4,476,725
Vehicle (Scope 1)	10,888	10,369	7,874	8,733	8,223
Facility Heating (Scope 1)	6,758	5,733	4,862	4,981	5,471
Facility Electricity (Scope 2)	10,744	9,906	12,536	10,518	12,836

\* GHG emissions intensity per unit of operation—revenue passenger miles (RPM), available seat miles (ASM), and revenue ton miles (RTM).

## Normalized emissions / emissions intensity

	INTENSITY METRIC	2018	2017	2016*	2015*	2014*
All sources	Metric tons CO <sub>2</sub> e per thousand RTM	1,457	1,458	1,456	1,485	1,495
All sources	kg CO <sub>2</sub> e per thousand RPM	148	148	148	151	152
All sources	kg CO <sub>2</sub> e per thousand ASM	124	125	125	126	128
Aircraft energy intensity per seat	Fuel gallons per ASM	0.0126	0.0124	0.0126	0.0129	0.0132
Aircraft energy intensity per passenger	Fuel gallons per RPM	0.0150	0.0146	0.0150	0.0152	0.0154

\* Years 2016 and earlier have been recalculated to take into account historic Virgin America emissions, to align with our intensity-based emission reduction goals.



## Other greenhouse gases

produced (metric tons)

	2018	2017	2016	2015	2014
<b>Methane (CH<sub>4</sub>) *</b>	27,422	28	24	47	44
<b>Nitrous Oxide (N<sub>2</sub>O)</b>	3,210,004	228	155	155	145
<b>Sulphur Oxide (SO<sub>x</sub>)</b>	370,767	355	265	225	211
<b>Nitrogen Oxide (NO<sub>x</sub>)</b>	3,210,004	3,166	2,336	1,991	1,850

\* It is understood by the industry that CH<sub>4</sub> emissions are not produced from cruising, but CH<sub>4</sub> emissions are produced during landing and takeoff.

## Avoided emissions (metric tons of CO<sub>2</sub>e)

estimated from improvements in emission intensity.

	UNIT	2018	2017	2016	2015
Total avoided emissions from 2009	Metric tons CO <sub>2</sub> e	3,444,996	2,498,401	1,917,434	1,302,055
Year over year avoided emissions	Metric tons CO <sub>2</sub> e	798,672	580,967	615,379	477,453

These figures are estimated from improvements in emission and energy intensity per available seat mile (ASM). For calculation and comparison purposes, Virgin America consumption and emissions data was not included.

# Energy

## Energy consumed and generated

by Alaska Air Group during normal operations.

	UNIT	2018	2017	2016	2015	2014
<b>Alaska Air and Horizon Aircraft Fuel (non-renewable)</b>	Gallons	786,837,000	757,056,000	514,100,000	488,769,000	454,306,000
<b>Alaska Air and Horizon Aircraft Fuel (non-renewable)</b>	GJ	111,888,221	107,653,363	73,105,020	69,502,952	64,602,313
<b>Alaska Air and Horizon Aircraft Fuel (renewable)</b>	GJ	0	0	356	0	0
<b>Vehicle Fuel (non-renewable)</b>	GJ	158,175	163,560	115,663	NR	NR
<b>Facility Energy (non-renewable)</b>	GJ	229,500	208,680	194,072	192,291	206,877
<b>Total Energy Consumed</b>	GJ	112,275,897	108,025,604	73,414,754	69,695,243	64,809,190
<b>Total Energy Consumed</b>	MWh	31,187,749	30,007,112	20,392,987	19,359,790	18,002,553



# Waste

## Total solid waste (tons) disposed of including the amount that was diverted from landfill (recycled).

	2018*	2017*	2016	2015	2014
<b>Solid Waste Disposed to Landfill (inflight)</b>	3,261	3,090	3,839	3,057	4,173
<b>Solid Waste Recycled** (inflight)</b>	1,928	1,963	1,851	1,772	1,796
<b>Hazardous Waste (RCRA) Disposed</b>	492	49.7	43.9	NR	NR
<b>Hazardous Waste (RCRA) Recycled</b>	46.5	129.0	44.6	NR	NR

\* Does not include operations from Airbus aircraft.

\*\* Inflight waste is a measure of the weight of all materials that are collected by flight attendants in garbage and recycling bags during inflight service on domestic flights. Total weight is estimated by sampling and weighing the contents of the garbage and recycling bags from a minimum of 30 flights per airline per year.

## Total volume of water (gallons) used by AAG

	2018	2017	2016	2015	2014
<b>Municipal Water Usage</b>	16,226,756	16,735,025	18,017,324	21,875,257	18,605,686

# Company compliance

with applicable environmental laws and regulations.

	2018	2017
<b>Reportable spills* (number)</b>	2	3
<b>Environmental penalties (\$)</b>	0	0
<b>Environmental penalties (number)</b>	0	0

\* Chemical spills subject to local and state reporting requirements.

# Employee snapshot

## Total employees at Alaska Air Group companies (2018)

including full-time, part-time, temporary, and contracted.

<b>Total number of employees</b>	21,571
U.S. employees	21,420
International employees	151
Self-employed or contract workers	0
Represented in trade union or collective bargaining agreement	18,581
Full-time employees	18,940
Part-time employees	2,631
number of McGee employees	1,804



# Philanthropic activities

## Total funds and in-kind donations

distributed by Alaska Air Group.

	2018	2017	2016	2015	2014
<b>Cash donations</b>	\$9,214,617	\$6,675,790	\$5,311,898	\$3,859,170	\$2,594,842
<b>Foundation Grants</b>	\$140,500	\$286,500	\$307,500	\$250,000	\$172,000
<b>In-kind giving (value)</b>	\$7,635,466	\$7,801,080	\$7,602,378	\$7,161,443	\$6,623,538
<b>Employee matching funds</b>	\$493,162	\$464,759	\$400,570	\$449,076	\$299,799
<b>Dollars for Doers</b>	\$180,221	\$236,163	\$196,667	\$212,536	\$140,535
<b>Charity miles (miles)</b>	53,815,841	52,311,670	53,821,104	50,113,883	53,727,227
<b>Charity miles (value)</b>	\$1,479,935	\$1,438,571	\$1,480,080	\$1,378,132	\$1,477,499
<b>Giving as a % of adjusted net income</b>	3.1%	1.87%	1.48%	1.39%	1.69%
<b>TOTAL</b>	<b>\$17,663,966</b>	<b>\$15,464,292</b>	<b>\$13,819,013</b>	<b>\$11,932,225</b>	<b>\$9,830,714</b>

## Number of tracked hours volunteered by employees

	2018	2017	2016	2015	2014
<b>Employee volunteer hours</b>	44,000	41,671	27,128	21,000	NR

# Employee safety

**Total number of injuries reported** by employees that occurred on the job, including those that resulted in personnel not being able to work as a result of their injury.

	Incidents per 200,000 hours worked (per 100 FTEs)		
	2018	2017	2016
<b>Alaska Airlines – On the Job Injuries</b>	4.53	5.14	5.81
<b>Alaska Airlines – Lost Time Injuries</b>	2.84	3.07	3.70
<b>Horizon Air – On the Job Injuries</b>	9.18	9.16	9.25
<b>Horizon Air – Lost Time Injuries</b>	4.08	4.28	2.65



# Glossary of terms

<b>ASM</b>	Available seat mile	Airline passenger carrying capacity. It is equal to the number of seats available multiplied by the number of miles flown
<b>CO<sub>2</sub>e</b>	Carbon dioxide equivalents	A standard unit for measuring a carbon footprint. It expresses the impact of each different greenhouse gas in terms of the amount of CO <sub>2</sub> that would create the same amount of warming.
<b>GHG</b>	Greenhouse gases	A greenhouse gas is a gas that absorbs infrared radiation (IR) and radiates heat in all directions. Examples include: carbon dioxide (CO <sub>2</sub> ), methane (CH <sub>4</sub> ), and nitrous oxide (NOX).
<b>GJ</b>	Gigajoules	A measurement of energy equal to one billion (10 <sup>9</sup> ) joules. 6 GJ is about the chemical energy of combusting 1 barrel (159 l) of crude oil.
<b>LTI</b>	Lost time injury	Accidents resulting in personnel not being able to work as a result of their injury.
<b>MWh</b>	Megawatt hours	A megawatt hour (Mwh) is equal to 1,000 Kilowatt hours (Kwh). It is equal to 1,000 kilowatts of electricity used continuously for one hour.
<b>NR</b>	Not reported	

<b>OJI</b>	On the job injury	Employee Injuries that occur while at work.
<b>RPM</b>	Revenue passenger mile	A measure of traffic for an airline flight calculated by multiplying the number of revenue-paying passengers aboard by the distance traveled.
<b>RTM</b>	Revenue ton mile	One ton of revenue traffic (passenger and/or cargo) transported one mile.
<b>RNP</b>	Required navigation performance	A type of performance-based navigation (PBN) that allows an aircraft to fly a specific path between two 3D-defined points in space using satellite technology. This safer, more reliable, and more direct navigation system saves fuel by reducing track miles.
<b>Scope 1</b>		Direct emissions from owned or controlled sources such as the combustion of jet fuel, natural gas, or motor vehicle fuel.
<b>Scope 2</b>		Indirect emissions from the generation of purchased energy.