

	2030 Target	2015	2019	2019 v. 2015
Energy (MWh)	-20%	2 323 287	2 408 751	3,7%
CO ₂ e (tonnes)	-40%	934 788	981 985	5,0%
Waste :				
Landfilled and incineration without energy recovery	0%	18%	26%	
Waste produced	-20%	67 115	68 997	2,8%
Air emissions				
VOC (tonnes)	0% increase	1 156	1 208	4,5%
NOX (tonnes)	0% increase	203	237	16,9%
SOX (tonnes)	0% increase	11,6	11,8	1,5%
Water				
Water purchase (m ³)	-50%	2 606 859	3 006 246	15,3%
Water consumption (m ³)	0% increase	2 944 677	3 454 085	17,3%

Perimeter : Airbus sites w/o subsidiaries. Airbus FAL in Mobile (US) & in Mirabel (Canada) were not operated in 2015 and therefore do not contribute to the baseline. 2017 data used as baseline for Airbus Tianjin & Oversize Transportation

The 2019 status shows a moderate increase compared to the 2015 baseline. This is expected and can be explained by the Company's significant industrial ramp-up over the same period combined with the introduction of the A220 FAL in Mirabel (Canada) in 2019. Compared to previous objectives that were calculated relative to revenue, the High5+ plan targets specific initiatives to achieve the absolute value reduction targets by 2030.

VOC emissions have been reduced by over 15 tonnes annually in Nantes by switching from liquid cleaning solutions to sprays and wipes.

The Company is also engaged on circular economy. Beyond waste reduction, the Company has been proactive in seeking ways to reuse and recycle materials beyond their initial life. Not only does the Company send nearly 60% of its waste to be recycled, but today, through the TARMAC Aerosave joint venture, more than 90% of an aircraft weight is recycled or reused through a selective dismantling (reverse manufacturing) process. As airplanes manufactured with large volumes of composites start retiring in the next few decades, Airbus is working in cooperation with several specialist companies involved in carbon fibre recycling, as part of an industry goal to determine the best processes and uses for recycled and reused carbon fibre materials.

Wherever its industrial activities have an impact on biodiversity, the Company is engaged with local partners on conservation and remediation projects to preserve the affected flora and fauna and ensure they are not adversely affected by the Company's activities.

In order to promote biodiversity and educate employees on environmental protection, a beehive has been installed on Airbus Helicopters' Marignane site with approximately 15,000 bees and a seedling nursery has produced 300 seedlings of gardening, fruits and native plants on the Itajuba site.

Noise around Airbus sites can also be an important topic for neighbouring communities. The Company is actively engaged with local authorities and the affected population to minimise its impact, by adapting operating times and actively seeking to reduce the noise at the source. In Toulouse, Airbus has launched the Median initiative regrouping actors in charge of flight activities around the airport to find the most effective solution to reduce noise levels.

Light pollution caused by Airbus activities has been deemed to be non-material to the Company's value chain.

The Company monitors and makes available data verified by external auditors, and publishes transparently its industrial performance. Environmental data has been externally audited since 2010. Below is a selection of externally reviewed environmental indicators.

ANNUAL REPORTING OF PERFORMANCE INDICATORS TABLE

Environmental performance	GRI	KPI	Unit	2019	2018
Energy	302-1	Total energy consumption (excluded electricity generated by CHP on site for own use) ✓	MWh	4,054,849	4,006,108
		Energy consumption from stationary sources ✓	MWh	1,359,018	1,304,338
		Energy consumption from mobile sources ✓	MWh	1,112,573	1,094,851
		Total electricity consumption, heat & steam consumption excluding CHP for own use ✓	MWh	1,583,258	1,606,919
		Of which purchased electricity from renewable sources (REC)	MWh	101,612	
		Generated electricity from CHP on-site for own use ✓	MWh	187,846	190,287
Air emissions	305-1	Total Scope 1 + Scope 2 CO ₂ emissions ✓	tonnes CO ₂	927,529	959,825
		Total direct CO ₂ emissions (Scope 1) ✓	tonnes CO ₂	569,838	553,887
	305-2	Total indirect CO ₂ emissions (Scope 2) ✓	tonnes CO ₂	357,691	405,938
	305-3	Indirect CO ₂ emissions Business Travel (Scope 3) ✓	tonnes CO ₂	109,403	111,666
		Indirect CO ₂ emissions Oversize Transportation ⁽¹⁾ (Scope 3)	tonnes CO ₂	198,526	185,500
	305-7	Total VOC emissions ⁽²⁾ ✓	tonnes	1,535	1,553
		Total SOx emissions	tonnes	15	17
		Total NOx emissions	tonnes	280	323
Water	303-5	Total water consumption ✓	m ³	3,987,289	3,647,950
	303-4	Total water discharge	m ³	3,740,566	3,338,712
Waste	306-2	Total waste production, excluding exceptional waste ✓	tonnes	99,280	98,631
		Material recovery rate ✓	%	54.0	57.8
		Energy recovery rate	%	21.2	20.7
EMS certification		Number of sites with ISO 14001 /EMAS certification ⁽³⁾ vs total number of covered by environmental reporting	Unit	62 / 80	60 / 71
		Workforce effectively covered by reporting over workforce subject to reporting according to the environmental guidelines ⁽⁴⁾	%	94	89

2018 baseline has been recalculated to integrate changes in accounting methodology (emission factors & exclusion of close loop water consumption in Donauworth). Electricity Emission factors updated according to IEA 2018 v1.01 for 2019 data and IEA 2017 v1.03 for 2018 data.

Sites A220 FAL in Mirabel, Canada, Satair Copenhagen, Ashburn & Miami, AH Oxford, ATR Francal, are included in 2019 according to reporting rules.

✓ 2019 data audited by Ernst & Young et Associés. 2019 data covers 92% of total group employees.

(1) Oversize emissions cover transport of large and non standards shipments. Values cover aircraft commercial activities and are estimated.

(2) 2019 VOC emissions data is estimated and 2018 data actualised. The accurate 2019 data will be consolidated and available during March 2019

(3) Number of sites covered by the environmental reporting which are certified ISO 14001.

(4) Airbus environmental reporting guidelines include sites worldwide with a workforce on-site higher or equal to 50 employees. Note that only 100% consolidated entities are taken into account to calculate this 50 employee threshold. Coverage varies from 92% to 93% for waste, water, heat & refrigerants indicators.

As part of its plan to tackle scope 3 emissions, the Company has decided to offset all emissions linked to air business travel. In 2019, the Company has also started compensating emissions of activities for which reduction and use of renewable energy are not sufficient to meet the targets, such as air and sea logistics means.

In 2019, Airbus undertook an initial assessment of its scope 3 “Purchased Goods and Services” impact using a methodology developed by IAEG. The results of this assessment will be used to understand where the main impacts are in the Airbus supply chain in terms of GHG emissions and engage with suppliers on targeted projects to address them in the most effective way.

As can be expected, GHG emissions linked to the operation of Airbus’ products are among the areas of particular focus as they represent the main part of the value chain’s emissions. Recent internal studies, aiming at understanding the spread of GHG emissions of a commercial aircraft product over its current complete lifecycle, have concluded that over 97% of GHG emissions occur during the flight operations phase. As this phase is influenced by several factors beyond Airbus’ direct control and needs to be calculated as a projection of an aircraft’s operation over its entire service life, Airbus calls for a sectoral alignment on a methodology providing consistency to the way such impacts are calculated and communicated throughout the air transport sector.