



Emanuel Fleuti, Zurich Airport August 2025



Introduction



WHAT is ACERT?

ACI's Airport Carbon and Emissions Reporting Tool (ACERT) is a self-contained Excel spreadsheet that enables an airport operator to calculate its own greenhouse gas (GHG) emissions inventory. The tool is available at no cost to airports and can be used without emissions or environmental expertise by inputting readily available operational data.

WHY do we need it?

In order to manage GHG emissions, an operator needs to understand the sources, quantities and ownership of emissions at the airport and along its value chain. An inventory can help the airport operator to set goals and target mitigation efforts.

WHERE did ACERT come from?

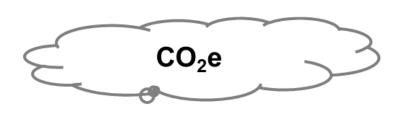
After ACI World published the Greenhouse Gas Management Manual in 2010, airports asked for support and tools to develop GHG inventories. Transport Canada, coincidentally developing an air quality tool for smaller Canadian Airports supported ACI World in the advancement of its tool towards ACERT.

The first version of ACERT was released in 2012 and it has since been further developed, responding to evolving science, rising expectations and industry knowledge.

The Scope of ACERT



ACERT covers all Scope 1, 2, and 3 emission sources with focus on airports as described in the GHG Protocol.



Scope 3 Indirect - Upstream

1] Goods and Services

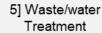














7] Staff Commuting



2] Capital Goods









6] Business Travel



8] Leased Assets



Scope 1 **Direct Emissions**

Mobile Sources





Fugitive Sources





Scope 2

Purchased

Electricity/ Heat

Scope 3 Indirect - Downstream

9] Transport

10] Processing



11] Use of Sold Product









Aircraft, APU, MRO

GSE, RFS, Catering, Cargo, Retail

Landside Access Traffic

12] Endof-Life

13] Leased Assets

14] Franchises

15] Investments

ACERT Governance



- ACERT is owned and managed by ACI World in Montreal (Canada).
- Support is provided by member airports for the further development and Q&A.
- The tool is available for free from ACI World.
- The use of ACERT is subject to a Software License Agreement:
 - The tool may not be used at charge.
 - The tool may not be reverse engineered, copied or decomposed and ACI World retains the full IPR.
 - ACI World may not be held liable for any potential errors and omission.

ACERT and Airport Carbon Accreditation (ACA)



Background

- When ACERT was developed, ACA only existed in Europe (with virtually no demand for a tool like ACERT).
- With the rollout of ACA globally, expectations from airports emerged to have ACERT made suitable for ACA (inventory requirements for Levels 1, 2, 3 in 2016).
- ACERT featured elements that were simplifying airports' efforts to compile Scope 3 emissions (e.g. LTO).

The way towards a tool for ACA

- Between 2013 and 2015, more and more inquiries reached ACI World, if ACERT could also be used to compile
 emission inventories that were compliant with ACA requirements.
- In 2015, the new version 3.0 was thus designed to be suitable for ACA Levels up to 3/3+.
- Any following updates always reflected the development of ACA (Levels 4/4+, 5).
- ACERT has been determined by the Indonesian Government to be the required tool for airport GHG reporting in the country.
- By 2025, approximately 200 airports use ACERT for ACA purposes.

Applying ACERT



What's needed?

- Excel[™] Version 2010 or higher
- Operational data, potentially procurement data.
- Individual contracts, certificates, etc.

Working with ACERT

- If on a shared platform, many people can work at the same time on the inventory.
- For most emission sources, default emission factors are offered; for all sources, individual factors can be used.
- Some drop-down menus allow selection from a list.
- Additional space allows to add individual information.
- If inconsistencies occur (e.g. percentages don't add up to 100%), warnings are displayed (but not always).
- Data should be saved regularly.

How does it work?

Data are entered into a self-explanatory Excel spreadsheet. For the calendar year of the inventory, activity and consumables information is needed. This information is multiplied by either default or individual emission factors and compiled to produce a detailed inventory.

General Airport and Inventory Information





ACERT Airport Carbon Emission Inventory ACI 2024

The use of ACERT is subject to a Software License Agreeme (read here)

Acronyms

General Airport and Inventory Information



Airport Name: ACI Test Airport

Airport Operator: Test Airport Authority

City: Airport City

Select Country/Region: Switzerland ACI Region: Europe

Region may also specify State, Province, Territory or Electricity Grid Region

Inventory compiled by: Richard Sample

Position: Top Floor

email: sample@mail.you

(3 letters) 09.07.2025 Date of Report: Year of Inventory: 2024 Starting month of inventory: January

Number of Airport Operator Staff 150 Full Time Equiv. Aircraft movements in inventory year 25'000 movements Passenger movements in inventory year 1'950'000 passengers 45'000 tonnes Cargo in inventory year Total of Tenant/concessionaire Staff 2'100 Employees

This information is only used for the "ACA Online"-sheet



ACA level you wish to use ACERT for:

ACA Level 4



Inventory	2020	2021	2022	2023	Unit
Scope 1	3'150.0	3'250.0	3'077.0	2'902.0	t CO _{2e}
Scope 2	178.0	168.5	150.0	152.0	t CO _{2e}
Scope 3	112'570.0	122'530.0	126'735.0	125'470.0	t CO _{2e}

(2) If you have previous carbon inventory information, you may enter it here (voluntary); this data will only be used to create a historic chart in the Output sheet. Check the correct years.



- 1. Enter the consumption, activity or quantity rate in the white cells (Level-dependent); make sure to use the correct unit (as there is not always a choice); a unit converter is available in a separate sheet. Consult the Airport Carbon Accreditation Application Manual to determine which sources are mandatory for which Level.
- 2. Insert 'your own emission factor' if available and preferred; if you don't know or if you want to use the default, leave this cell empty ('your own EF' always overrides 'default EF') Your own emission factor may be more accurate than a default value.
- 3. You can replace certain activity/consumption default units (select the unit); in this case, the default emission value shall no longer be used
- 4. For additional sources, you have to insert both the amount/activity and the emission factor (white cells only).
- 5. For any free lines, insert activity, amount and your own EF (no default provided). You cannot add extra lines combine if needed with weighted emission factors.
- If certain activities are not applicable, just skip them.
- Completness comes before high accuracy. Use surrogates or approximations if needed.
- Save your draft inventory regularly.

Note: with a few exceptions, this model calculates CO2e.

Select the liquid unit (litre or gallon) Select the volume unit (m3 or gallon) Select the weight unit (kg or lbs)

litre m3 kg

- The change of units applies where appropriate, but not everywhere (check).
- When changing the unit to imperial, the default emission factors cannot be used anymore; insert your own emission factor.

- While the Excel is in English, the instructions and the light orange information boxes available Instruction Manual Spanish and French as well.
- Only entry cells are available for input or selection, all other cells are not accessible.

Example of Scope 1



SCOPE 1: Process Sources of the Airport Operator

→ only complete applicable sources



1.4.A Fuel used for fire training (if service rendered by Airport Operator)

Burnable	Annual Consumption	Unit	Your own emission factor (voluntary)	Default emission factor	Emission factor unit
Kerosene	500.0	litre		2.5308	kg CO2e/litre
Butane		kg		3.0500	kg CO2e/kg
Propane	3'000.0	kg		3.0891	kg CO2e/kg
Diesel	1'000.0	litre		2.6141	kg CO2e/litre
Gasoline		litre		2.2890	kg CO2e/litre
LPG		litre		1.6120	kg CO2e/litre
Jet A		litre		2.5308	kg CO2e/litre
Jet B		litre		2.5308	kg CO2e/litre
Wood	4'000.0	kg		-	kg CO2e/kg
AF8		unit			kg CO2e/unit

Fuels for fire vehicles are included in section 1.1

The fuel unit (I or kg or any other) must match the EF unit used.



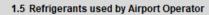
1.4.B CO2-extinguisher used for training or fire fighting systems

CO ₂ -ext.	25.0	kg	1.0000	kg CO2e/kg
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Your own notes:

Other fuels:







	Refrigerant (select from list)	Annaul Usage	Unit	Your own GWP factor (voluntary)	Default GWP factor	Emission factor unit
Select	HCFC-123	35.00	kg		90	kg CO2e/kg
Select	HFC-143	112.00	kg		364	kg CO2e/kg
Select	R-449A		kg		1'396	kg CO2e/kg
Select	R-410A		kg		2'088	kg CO2e/kg
Select	CFC-112		kg		4'620	kg CO2e/kg
Select	CFC-115		kg		9'600	kg CO2e/kg
	Own Refrigerant		kg			kg CO2e/kg
	Own Refrigerant		kg			kg CO2e/kg
	Own Refrigerant		kg			kg CO2e/kg

Your own notes:

- ② Refrigerants can be from chillers, air handling units, fire suppression systems. Enter the use (new, disposal, leakage) of refrigerant chosen from list for lines 1-3 or enter your own in line 4.
- ② Do not use your installed stock, but only refills and exchanges.
- GWP = Greenhouse Warming Potential

Example of Scope 2



SCOPE 2: Energy purchased by Airport Operator from External Supplier

⇒ Consult chart in "EF Grid" for further guidance



2.1 Electricity Purchased from 3rd Party (external supplier, can be on-site/off-site)

Electricity	Annual Amount	Unit	Your own EF (PA, GO, CO)	Default emission factor	Emission factor unit
Directly from external supplier	12'000'000	kWh			
resold from airport to 3rd parties	4'900'000	kWh			
Net electricity from external	7'100'000	kWh			
Your location based emission fac		34.8427	g CO₂e/kWh		
Your market-based emission fact	or (purchase agre	eement, GO, etc)	21.0		g CO₂e/kWh
- Select after which method you wa	ant to report (in th	e inventory):	Market-b	ased EF	
Share of renewable electricity 0.0% % Hydro, Solar, Wind, Biomass					
Your own notes:					





Heat/Steam	Airport Operator	Unit (select)	Your own emission factor (PA, GO, CO)	Default emission factor	Emission factor unit
Directly from external supplier		kWh			
resold from airport to 3rd parties		kWh			
Net heat/steam from external	0	kWh	145.000		kg CO2e/kWh
Share of renewable heat/steam		%	Biogas, wood, syn	thetic fuels	

OR Fuels used by external supplier (by %):

Coal	
Fuel Oil	
Natural Gas	
Nuclear	
Renewable	
Total	

Fuel Share	EF (unweighted)	EF unit
	0.515	kg CO2e/kWh
	0.322	kg CO2e/kWh
	0.229	kg CO2e/kWh
	0	kg CO2e/kWh
	0	kg CO2e/kWh
0%		

Your own notes:

- ① Data should be available from electricity bills. If you buy energy attributes, you have to report by the market-based method. This includes any self produced renewable electricity if looped back through the grid.
- ② Tenant usage should be metered and usually invoiced. If so, emissions become Scope 3, if not, they remain Scope 2.
- If you purchase renewable energy offsets (or credits) enter them in Annex 1 below (even if the cells are greyed out).
- ① The Emissions Factor (EF) is used to calculate CO2 from off-site electricity production. Check with your power company.
- The hierarchy in the use of the electricity EF is: "your own emission factor" and select whether this is "Market-based" or "Location-based". If not available (=leave blank) then "Default" is taken. This country/area default is used in any case for electric train emissions.
- PA=Purchase Agreement, GO=Guarantee of Origin, CO=Certificate of Origin.
- ① Data should be available from heating bills. Fuel purchased by the airport operator to produce heat itself is contained in Step 3 (do not include here).
- (i) If the airport purchases heat from an on-site tenant, then that counts as "external supplier".
- Else ask off-site heat provider for composition and use defaults.

Example of Scope 3



3.11.1A Aircraft full flight emissions

Option 1: Aircraft main engines and APU based on fuel uplift



Fuel Tpye	Total fuel	Unit	Your own emission factor	Default emission factor (TTW)	Emission factor unit
Aviation Gasoline	200	m ³		3.3395	kg CO2e/kg
Jet-A1 / Kerosene	45'000	m ³		3.1628	kg CO2e/kg
SAF 1, specify: HEFA	30	m ³			kg CO2e/kg
SAF 2, specify:		m ³			kg CO2e/kg
Enter discount for tankering	-3%	%]		

(1) If aircraft are tankering (uploading more fuel than they actually burn on average, e.g. for return flights), specify a percentage here that will be subtracted from uplift (hence a negative value). Will be universally applied to all fuel types.

② Any APU usage (ECS, MES) is automatically included, as aircraft use onboard fuel for

② Apply the one-way or the 50:50 route split

and enter directly the CO2e emissions. ① Default = leave empty (then Option 1 is ① Indicate, whether APU is also included in full

Option 2: Separately calculated flight emissions

Full flight emissions	Amount	Unit	APU included?	
CO ₂ emissions from full outbound flights		t CO₂e	No	selec

3.11.1B Aircraft APU (only in conjunction with Option 2 above)

Complete this section.

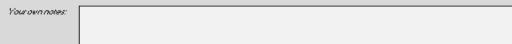
Aircraft Group	Number of LTO cycles	APU use percentage	APU operating time (min/LTO)	Default fuel factor	Factor unit
General/Business Aviation Aircraf	t			1.78	kg Fuel/min
NB, Small-Med. Aircraft				1.78	kg Fuel/min
WB, Large Aircraft				4.00	kg Fuel/min

If only part of the aircraft use APU and others not, determine overall weighted

flight or only the flight itself.

average. Include time at gate and taxiing (if

Check if fixed ground power/GPU or PCA is





3.11.1C Aircraft Maintenance

Is MRO fuel included in any aircraft flight option? select Complete this section.

Option 1: Fuel used (preferred)	Total fuel	Unit	Your own emission	Default emission	Emission factor unit
Aviation Gasoline		tonnes		3.3395	kg CO2e/kg
Jet-A1 / Kerosene		tonnes		3.1628	kg CO2e/kg
SAF-Type 1		tonnes			kg CO2e/kg
SAF-Type 2		tonnes			kg CO2e/kg

OR, alternatively: Estimated number of annual engine run-ups (Caution: any potential SAF use will not be considered)

Option 2: Aircraft Group (Example Aircraft)	# of Run-ups	Default fuel (kg/runup)	Default emission	Factor unit
Piston, Turboprop (Cessna 182): Av. Gasoline	360	1.5	3.33949	kg CO2e/kg
Single-Aisle Jet (e.b. B737, A320): Jet-A1, kerosen	600	392.4	3.16279	kg CO2e/kg
Double-Aisle Jet (e.g. A330, B777): Jet-A1, keroser	200	907.2	3.16279	kg CO2e/kg

Example of Result Table



ACI Test Airport Greenhouse Gas Emissions Inventory 2024



by: Richard Sample, Top Floor (Mail: sample@mail.you)			
ldentifier	ACI	Operational Data	2024
Airport	ACI Test Airport	Passenger Movements	1'950'000
Airport Operator	Test Airport Authority	Aircraft Movements	25'000
Country	Switzerland	Cargo (t)	45'000
ACI Region	Europe	Traffic Units (or WLU)	2'400'000
Report Date	9.7.2025	Airport Operator Staff (FTE)	150
A C A 11	ACA 4	Annual and a second annual ann	r r i o o o i o o o

2024

2'712.4
149.1
120'594.3
123'455.7
123'455 7

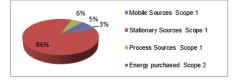
Greenhouse Gas Emissions

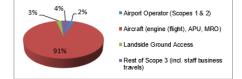
Airport Operator Source E	Break Down:		
Mobile Sources	Scope 1	(t CO2e)	93.2
Stationary Sources	Scope 1	(t CO2e)	2'453.5
Process Sources	Scope 1	(t CO2e)	165.6
Energy purchased	Scope 2	(t CO2e)	149.1
Gross Total Scopes 1+2		(t CO2e)	2'861.5

Source Group Break Down:		
Airport Operator (Scopes 1 & 2)	(t CO2e)	2'861.5
Aircraft (engine (flight), APU, MRO)	(t CO2e)	112'803.1
Landside Ground Access	(t CO2e)	3'078.7
Rest of Scope 3 (incl. staff business travels)	(t CO2e)	4'712.5

Airport Carbon Neutrality or Net Zero Path		
Total required offsets (Scopes 1&2, Bus. Travel)	(t CO2e)	2'863.6
Airport Operator Carbon Offsets purchased	(t CO2e)	-
Neutrality achieved	%	0.0%
Total required removals (Scopes 1&2)	(t CO2e)	2'861.5
Airport Operator Carbon Removals purchased	(t CO2e)	-
Net Zero (Scopes 1&2) achieved	%	No





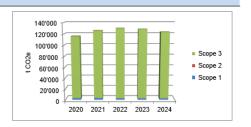


Key Performance Indicators		2024	
Airport Operator Carbon Intensity	(t CO2e/FTE)	19.1	(Scopes 1 and 2)
Airport Operator Carbon Intensity 2	(kg CO2e/pax)	1.47	(Scopes 1 and 2)
Airport Operator Carbon Intensity 3	(kg CO2e/TU)	1.19	(Scopes 1 and 2)
Airport Carbon Intensity (Scopes 1-3)	(kg CO2e/TU)	51.44	(Scopes 1, 2, 3)
Aircraft Traffic Carbon Intensity	(kg CO2e/TU)	46.45	(Aircraft engine & APU)
Share of Airport Operator on total Emissions	%	2.3%	(Scopes 1+2 on Total, before any off-setting)
Airport Intermodality Carbon Intensity	(kg CO2e/TU)	2.56	(airport emissions without landside access and air traffic, per TU)

Electricity Reporting		2024			
Airport Operator Electricity Use (incl renewables)	MWh	7'100	Location-based electricity emissions	t CO2e	247.4
Airport Tenant Electricity Use (incl renewables)	MWh	4'900	Market-based electricity emissions	t CO2e	149.1
Total Airport Electricity Consumption	MWh	12'000			
Total Airport Renewable Electricity	%	1.2%			

Historic Data

t CO _{2e}	2020	2021	2022	202
Scope 1	3'150	3'250	3'077	2'90
Scope 2	178	169	150	15
Scope 3	112'570	122'530	126'735	125'47
Total	115'898	125'949	129'962	128'52



Example of ACA Online Output



	① This report provides information	n for the ACA Online A	pplication for the "year 0" only. It does no	ot contain information on the historic
	average of the years "-1" to "-3"	'. It also does not acco	unt for investements/divestements.	
rt	2 GHG Emission Section			
	Standard Inventory Reporting			
	Scope 1 emissions for the year	2024	2'712 t CO ₂ e	
	Scope 2 emissions for the year	2024	149 t CO ₂ e	Market-based
	Total emissions of airport operator	2024	2'861 t CO ₂ e	non-adjusted
	Scope 3 emissions for the year	2024	120'594 t CO ₂ e	
	Additionally required (location-	pased) Reporting		
	Scope 1 emissions for the year	2024	2'712 t CO ₂ e	
	Scope 2 emissions for the year	2024	247 t CO ₂ e	Location based
	Total emissions of airport operator	2024	2'960 t CO ₂ e	non-adjusted
	Emission Source Breakdown for	Dashboard (uncorre	cted)	
	Mobile Sources	Scope 1	93 t CO ₂ e	⇒ ACA Online
	Stationary Sources	Scope 1	2'454 t CO ₂ e	⇒ ACA Online
	Process Sources	Scope 1	166 t CO ₂ e	⇒ ACA Online
	Electricity	Scope 2	149 t CO ₂ e	⇒ ACA Online
	Heat (Air Conditioning)	Scope 2	t CO₂e	⇒ ACA Online
rt	3 Emission Reduction Section	on	t CU ₂ e	
rt	3 Emission Reduction Section Climate Adjustments: this section	on	nder Airport Carbon Accreditation (=o	ptional section)
rt	3 Emission Reduction Section Climate Adjustments: this section Do you claim climate adjustment?	on n is not mandatory u	nder Airport Carbon Accreditation (=o Select → Heat and Cool degree days	ptional section) ③ Check all your
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t	3 Emission Reduction Section Climate Adjustments: this section Do you claim climate adjustment? Heat degree days for the year Heat degree days for reference year Scope 1 & 2 emissions to be corrected. Cool degree days for the year Cool degree days for reference year	n is not mandatory u 2024 ar cted for heat degree da f for heat degree days 2024	nder Airport Carbon Accreditation (=o Select → Heat and Cool degree days 3'025 HDD 3'000 HDD t CO ₂ e 171 t CO ₂ e 2'900 CDD 2'500 CDD	ptional section) ③ Check all your sources from the output page and ad up as needed. ③ Scopes 18.2: usuall 1.2, 2.1 and 2.2. ③ Scope 3: usually
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Annex





What is the current version?

The current version is 7.2532 of August 2025.

Where can I get it?

ACERT is available free of charge on our website.