

# Hilo International Airport Greenhouse Gas Emissions Inventory 2011

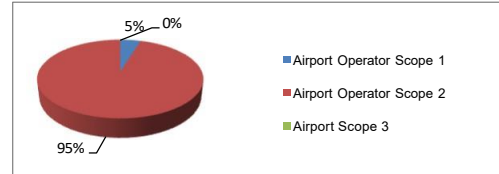
by: Ian Tierney, Sustainability Coordinator (Mail: itierney@kya.design)

Identifier		ITO	Operational Data		2011
Airport	Hilo International Airport		Passenger Movements		1,237,285
Airport Operator	Hawaii Department of Transportation		Aircraft Movements		46,540
Country	United States		Cargo (t)		33,766
ACI Region	North America		Traffic Units (or WLU)		1,574,949
Report Date	11/5/2026		Airport Operator Staff (FTE)		100
ACA-Level	ACA Level 2		Approximate total ground access	pers-km/a	-

## Greenhouse Gas Emissions 2011

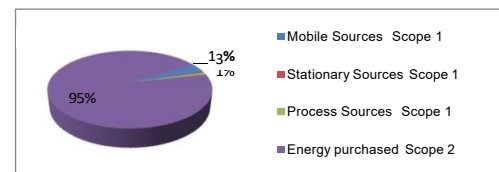
### Scope Break Down:

Airport Operator Scope 1	(t CO2e)	88.9
Airport Operator Scope 2	(t CO2e)	1,778.2
Airport Scope 3	(t CO2e)	-
<b>Total Gross Emissions</b>	<b>(t CO2e)</b>	<b>1,867.1</b>
minus Removals and Offsets	(t CO2e)	-
<b>Total Net Airport Emissions</b>	<b>(t CO2e)</b>	<b>1,867.1</b>



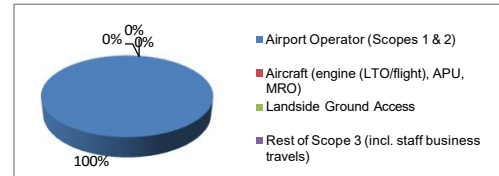
### Airport Operator Source Break Down:

Mobile Sources	Scope 1	(t CO2e)	62.7
Stationary Sources	Scope 1	(t CO2e)	9.3
Process Sources	Scope 1	(t CO2e)	16.9
Energy purchased	Scope 2	(t CO2e)	1,778.2
<b>Gross Total Scopes 1+2</b>	<b>(t CO2e)</b>	<b>1,867.1</b>	



### Source Group Break Down:

Airport Operator (Scopes 1 & 2)	(t CO2e)	1,867.1
Aircraft (engine (LTO/flight), APU, MRO)	(t CO2e)	-
Landside Ground Access	(t CO2e)	-
Rest of Scope 3 (incl. staff business travels)	(t CO2e)	-



### Airport Carbon Neutrality or Net Zero Path

Total required offsets (Scopes 1&2, Bus, Travel)	(t CO2e)	1,867.1
Airport Operator Carbon Offsets purchased	(t CO2e)	-
Neutrality achieved	%	0.0%
Total required removals (Scopes 1&2)	(t CO2e)	1,867.1
Airport Operator Carbon Removals purchased	(t CO2e)	-
Net Zero (Scopes 1&2) achieved	%	No

## Key Performance Indicators 2011

Airport Operator Carbon Intensity	(t CO2e/FTE)	18.7
Airport Operator Carbon Intensity 2	(kg CO2e/pax)	1.51
Airport Operator Carbon Intensity 3	(kg CO2e/TU)	1.19
Airport Carbon Intensity (Scopes 1-3)	(kg CO2e/TU)	1.19
Aircraft Traffic Carbon Intensity	(kg CO2e/TU)	-
Share of Airport Operator on total Emissions	%	99.9%
Airport Intermodality Carbon Intensity	(kg CO2e/TU)	n/a
Total airport operator staff commuting	km/a	-

(Scopes 1 and 2)  
 (Scopes 1 and 2)  
 (Scopes 1 and 2)  
 (Scopes 1, 2, 3)  
 (Aircraft engine & APU)  
 (Scopes 1+2 on Total, before any off-setting)  
 (airport emissions without landside access and air traffic, per TU)

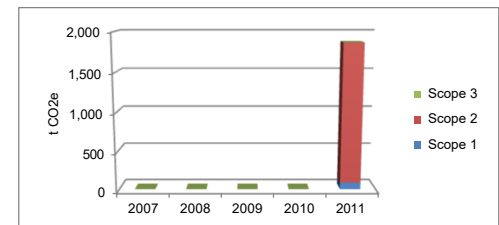
## Electricity Reporting 2011

Airport Operator Electricity Use (incl renewables)	MWh	3,252
Airport Tenant Electricity Use (incl renewables)	MWh	-
Total Airport Electricity Consumption	MWh	3,252
Total Airport Renewable Electricity	%	0.0%

Location-based electricity emissions	t CO2e	1,778.2
Market-based electricity emissions	t CO2e	-

## Historic Data

t CO2e	2007	2008	2009	2010	2011
Scope 1	-	-	-	-	-
Scope 2	-	-	-	-	-
Scope 3	-	-	-	-	-
<b>Total</b>	-	-	-	-	-



# Hilo International Airport Greenhouse Gas Emissions Inventory 2011

Airport:	<b>Hilo International Airport</b>	IATA:	ITO	Aircraft movements:	46,540
Operator:	Hawaii Department of Transportation	Report Date:	5/11/2026	Passengers:	1,237,285
Country/Region:	United States	Inventory:	ACA Level 2	Traffic units:	1,574,949

by: Ian Tierney, Sustainability Coordinator (Mail: itierney@kya.design)

Source	Group	Entity	t CO <sub>2</sub> e	% CO <sub>2</sub> e	
<b>Scope 1: Direct Emissions Airport Operator</b>					
1.1	Vehicles (incl. airside transport, machinery, GSE)	Mobile	Airport Operator	62.7	3.35%
1.2	Buildings (boilers, furnaces)	Stationary	Airport Operator	-	0.00%
1.3	Emergency Generator	Stationary	Airport Operator	9.3	0.50%
1.4	Fire Training	Process	Airport Operator	9.6	0.51%
1.5	Refrigerants	Process	Airport Operator	7.3	0.39%
1.6	Solid Waste	Process	Airport Operator	-	0.00%
1.7	Waste Water (on-site)	Process	Airport Operator	-	0.00%
1.8	De-icing chemicals	Process	Airport Operator	-	0.00%
1.9	Other emitting sources	Process	Airport Operator	-	0.00%
<b>Subtotal</b>	<b>Airport Operator Scope 1</b>			<b>89</b>	<b>4.75%</b>
<b>Scope 2: Airport Operator Net Energy from External Supplier</b>					
2.1	Electricity purchased, Location-based EF	Energy	Airport Operator	1,778.2	95.14%
2.2	Heat purchased	Energy	Airport Operator	-	0.00%
<b>Subtotal</b>	<b>Airport Operator Scope 2</b>			<b>1,778.2</b>	<b>95.14%</b>
<b>Airport Operator Gross Sub-total (Scopes 1 &amp; 2)</b>				<b>1,867.1</b>	<b>99.89%</b>
Airport Operator Carbon Offset Removals				-	
Airport Operator Carbon Offset Reductions				-	
<b>Net Airport Operator Total 2 (Scopes 1 &amp; 2, after offsets)</b>				<b>1,867.1</b>	
<b>Scope 3: Value Chain (Scope 3) Emission Sources</b>					
		GHG Scope 3			
3.1.1	Goods and Commodities	Cat. 1	Airport Operator	-	0.00%
3.1.2.A-E	Services	Cat. 1	Airport Operator	-	0.00%
3.2	Capital Goods	Cat. 2	Airport Operator	-	0.00%
3.3	Fuels and Energy	Cat. 3	Airport Operator	2.0	0.11%
3.5	Waste and Waste Water	Cat. 5	Airport Operator	-	0.00%
3.6	Airport Operator Staff Business Travel	Cat. 6	Airport Operator	-	0.00%
3.7	Airport Operator Staff Commuting & Home Office	Cat. 7	Airport Operator	-	0.00%
3.11.1	Aircraft; LTO emissions	Cat. 11	Tenant/3rd party	-	0.00%
3.11.1E	Aircraft APU	Cat. 11	Tenant/3rd party	-	0.00%
3.11.1F	Aircraft MRO	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.A	Fuel for vehicles, machinery, GSE	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.B	Fuel for electricity and heat generation	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.C	Fuel for Emergency Power Generation	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.D	De-icing chemicals for aircraft and surface de-icing	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.E	Refrigerants used by tenants/partners	Cat. 11	Tenant/3rd party	-	0.00%
3.11.2.F	Other relevant airport processes	Cat. 11	Tenant/3rd party	-	0.00%
3.11.3	Landside Ground Access	Cat. 11	Tenant/3rd party	-	0.00%
3.13	Energy bought from airport operator or third party	Cat. 13	Tenant/3rd party	-	0.00%
3.14	Franchises by airport operator	Cat. 14	Tenant/3rd party	-	0.00%
<b>Subtotal</b>	<b>Airport Scope 3</b>			<b>2</b>	<b>0.11%</b>
Airport Operator Carbon Offset Removals for Scope 3				-	
Airport Operator Carbon Offset Reductions for Scope 3				-	
<b>Net Airport Operator Total 2 (in Scope 3, after offsets)</b>				<b>2.0</b>	
<b>Total Net CO<sub>2</sub>e Airport Emissions (tonnes), after offsets</b>				<b>1,869</b>	<b>100%</b>