

Recommendations for Malta: A Preliminary Assessment



D-AIR is an EU funded project where local governments together with airport operators work on converting airports into ecological and sustainable transport hubs, helping to reduce CO2 emissions. D-AIR is founded in part by Interreg IVC through the European Regional Development Fund (ERDF).

Analysis of Carbon Emissions

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				
Use of:	Used by:	Used for:	kgCO2e/a	% of total
Fuel	Aviation	Ground Movement	12,908,182	32.6%
Fuel	Aviation	Auxiliary Power	4,249,495	10.7%
Electricity	MIA Tenants	HVAC	3,154,688	8.0%
Electricity	MIA	HVAC	2,772,270	7.0%
Fuel	Public Transport	Land Transport	2,770,445	7.0%
Electricity	MIA Tenants	Light and Operations	2,581,109	6.5%
Electricity	MIA	Light and Operations	2,268,221	5.7%
Fuel	Other employees	Land Transport	2,188,869	5.5%
Fuel	MIA Tenants	Heating	1,665,062	4.2%
Fuel	Visitors	Land Transport	1,223,597	3.1%
Fuel	Outbound tourists	Land Transport	1,132,312	2.9%
Fuel	Tourist Coaches	Land Transport	701,676	1.8%
Fuel	Tourist Taxis	Land Transport	522,373	1.3%
Fuel	Aviation	Engine Testing	414,141	1.0%
Electricity	Airline Catering	HVAC/Refrigeration	332,442	0.8%
Fuel	Airline Catering	Heating	235,954	0.6%
Fuel	MIA Employees	Land Transport	235,145	0.6%
Fuel	MIA	Passenger/Cargo	144,546	0.4%
Water	MIA Tenants	Potable/Grey	53,714	0.1%
Fuel	Airline Catering	Land Transport	49,743	0.1%
Water	MIA	Potable/Grey	21,557	0.1%
Water	Airline Catering	Potable	13,610	0.0%
Total			39,639,150	100.0%

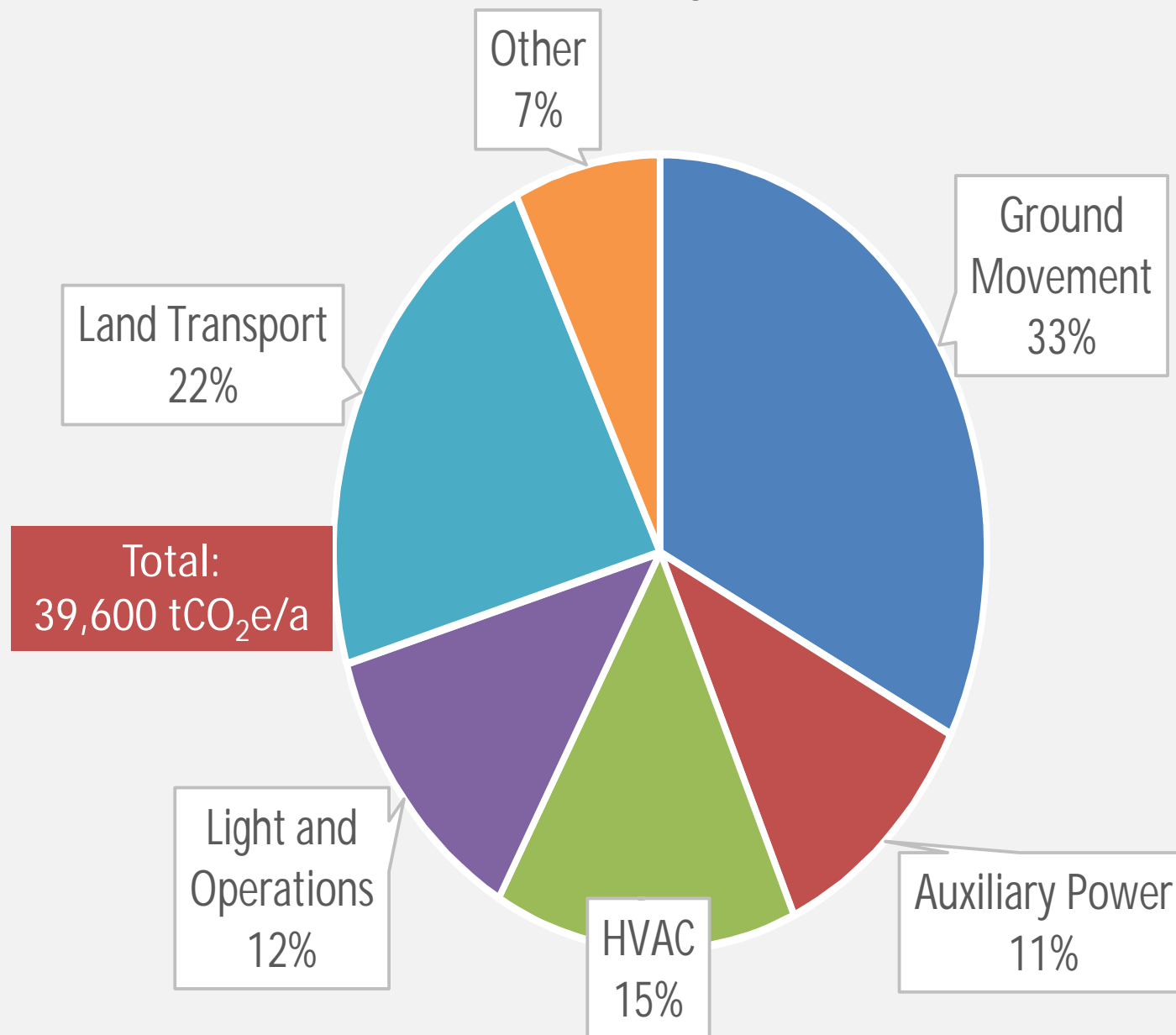
Analysis of Carbon Emissions

Analysis by Pollutant		
	kgCO2e/a	% of total
Fuel	28,441,540	71.8%
Electricity	11,108,730	28.0%
Water	88,881	0.2%
Total	39,639,150	100.0%

Analysis by Polluter		
	kgCO2e/a	% of total
Aviation	17,571,818	44.3%
MIA Tenants	7,454,573	18.8%
MIA	5,206,593	13.1%
Public Transport	2,770,445	7.0%
Other employees	2,188,869	5.5%
Outbound tourists	1,132,312	2.9%
Visitors	1,223,597	3.1%
Tourist Coaches	701,676	1.8%
Tourist Taxis	522,373	1.3%
Airline Catering	631,749	1.6%
MIA Employees	235,145	0.6%
Total	39,639,150	100.0%

Analysis by Purpose of Use		
	kgCO2e/a	% of total
Ground Movement	12,908,182	32.6%
Auxiliary Power	4,249,495	10.7%
HVAC	5,926,958	15.0%
Light and Operations	4,849,329	12.2%
Land Transport	8,824,159	22.3%
Engine Testing	414,141	1.0%
HVAC/Refrigeration	332,442	0.8%
Heating	1,901,016	4.8%
Passenger/Cargo	144,546	0.4%
Potable/Grey	75,271	0.2%
Potable	13,610	0.0%
Total	39,639,150	100.0%


Carbon Footprint by Purpose of Use



Assessment of Intervention Potential

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>			Potential to reduce/neutralise demand	Potential to increase energy efficiency	Justification
Used by:	Used for:	% of total			
Aviation	Ground Movement	32.6%			Short distances, optimised management
Aviation	Auxiliary Power	10.7%			Potential for fixed power investment (long run)
MIA Tenants	HVAC	8.0%			Potential for neutrality, behavioural change
MIA	HVAC	7.0%			Potential for neutrality, behavioural change
Public Transport	Land Transport	7.0%			Potential for improved management
MIA Tenants	Light and Operations	6.5%			Potential for neutrality, behavioural change
MIA	Light and Operations	5.7%			Potential for neutrality, behavioural change
Other employees	Land Transport	5.5%			Potential for behavioural change
MIA Tenants	Heating	4.2%			Potential for neutrality, behavioural change
Visitors	Land Transport	3.1%			Potential for behavioural change
Outbound tourists	Land Transport	2.9%			Potential for behavioural change
Tourist Coaches	Land Transport	1.8%			Potential for behavioural change
Tourist Taxis	Land Transport	1.3%			Potential for behavioural change
Aviation	Engine Testing	1.0%			Potential for neutrality
Airline Catering	HVAC/Refrigeration	0.8%			Potential for neutrality, behavioural change
Airline Catering	Heating	0.6%			Potential for neutrality, behavioural change
MIA Employees	Land Transport	0.6%			Potential for behavioural change
MIA	Passenger/Cargo	0.4%			Potential for neutrality
MIA Tenants	Potable/Grey	0.1%			Optimised management
Airline Catering	Land Transport	0.1%			Potential for equipment enhancement (long run)
MIA	Potable/Grey	0.1%			Potential for harvesting rainwater (long run)
Airline Catering	Potable	0.0%			Optimised management

Assessment of Intervention Potential

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>			Potential to reduce/neutralise demand	Potential to increase energy efficiency	Justification
Used by:	Used for:	% of total			
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Public Transport	Land Transport	7.0%			Potential for improved management
MIA Tenants	Light and Operations	6.5%			Potential for neutrality, behavioural change
MIA	Light and Operations	5.7%			Potential for neutrality, behavioural change
Other	 mainly Electricity use and Employee Transport mainly Passenger transport and Aviation auxiliary power				change
MIA Te					
Visitors					
Outbou					
Tourist					
Tourist Taxis	Land Transport	1.3%			Potential for behavioural change
Aviation	Engine Testing	1.0%			Potential for neutrality
Airline Catering	HVAC/Refrigeration	0.8%			Potential for neutrality, behavioural change
Airline Catering	Heating	0.6%			Potential for neutrality, behavioural change
MIA Employees	Land Transport	0.6%			Potential for behavioural change
MIA	Passenger/Cargo	0.4%			Potential for neutrality
MIA Tenants	Potable/Grey	0.1%			Optimised management
Airline Catering	Land Transport	0.1%			Potential for equipment enhacement (long run)
MIA	Potable/Grey	0.1%			Potential for harvesting rainwater (long run)
Airline Catering	Potable	0.0%			Optimised management

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				1. Installation of PV Units
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				1. Installation of PV Units
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA			√
Electricity	MIA			√
Fuel	Other			
Fuel	MIA			√
Fuel	Visitors			
Fuel	Outbound			
Fuel	Tourism			
Fuel	Tourism			
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Priority measure, feasible for rapid implementation, with potential to offset a significant amount of electricity consumption by means of installations in non-critical issues

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				2. Employee Incentive Schemes/Empower-ment/Motivation to reduce electricity consumption
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				2. Employee Incentive Schemes/Empower-ment/Motivation to reduce electricity consumption
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Priority measure, feasible for rapid implementation		√
Fuel	Other en			
Fuel	MIA Ten			
Fuel	Visitors			
Fuel	Outboun			
Fuel	Tourist C			
Fuel	Tourist T			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				3. More use of e- and tele-working
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	√
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

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Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				3. More use of e- and tele-working
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA			
Fuel	Other emp			√
Fuel	MIA Tenan			
Fuel	Visitors			
Fuel	Outbound			
Fuel	Tourist Co			
Fuel	Tourist Tax			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Useful, but needs to be aligned with business requirements

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				4. Install electricity saving devices in lighting/operations (motions sensors, LEDs, monitors, water heating, etc)
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				4. Install electricity saving devices in lighting/operations (motions sensors, LEDs, monitors, water heating, etc)
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Priority measure, feasible for rapid implementation		√
Fuel	Other en			
Fuel	MIA Ten			√
Fuel	Visitors			
Fuel	Outboun			
Fuel	Tourist C			
Fuel	Tourist T			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				5. Enhance consumption-sensitivity of electricity pricing
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	√
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				5. Enhance consumption-sensitivity of electricity pricing
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Necessary, but requires further study		
Fuel	Other en			
Fuel	MIA Ten			
Fuel	Visitors			
Fuel	Outboun			
Fuel	Tourist C			
Fuel	Tourist T			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	√
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				6. Develop corporate cultures toward energy efficiency
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	√
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	√
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	√
Water	Airline Catering	Potable	0.0%	√

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Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Priority measure, feasible for rapid implementation		√
Fuel	Other en			√
Fuel	MIA Ten			√
Fuel	Visitors			
Fuel	Outboun			
Fuel	Tourist C			
Fuel	Tourist T			
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	√
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	√
Water	Airline Catering	Potable	0.0%	√

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				7. Employee incentive schemes for car-sharing
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
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Fuel	Other employees	Land Transport	5.5%	√
Fuel	MIA Tenants	Heating	4.2%	
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Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
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Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				7. Employee incentive schemes for car-sharing
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Feasible for rapid implementation		
Fuel	Other			√
Fuel	MIA Tenants			
Fuel	Visitor			
Fuel	Outboard			
Fuel	Tourist			
Fuel	Tourist			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				8. Prioritise on energy efficiency of new buildings and insulation of MIA building
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

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Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				8. Prioritise on energy efficiency of new buildings and insulation of MIA building
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA			√
Fuel	Other			
Fuel	MIA Te			√
Fuel	Visitor			
Fuel	Outbo			
Fuel	Touris			
Fuel	Touris			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Feasible for rapid implementation

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				9. Replace old airconditioning equipment
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				9. Replace old airconditioning equipment
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Expected to occur as old equipment is decommissioned		
Fuel	Other e			
Fuel	MIA Te			
Fuel	Visitors			
Fuel	Outbou			
Fuel	Tourist			
Fuel	Tourist			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				10. Prioritise energy efficiency in acquisition of new equipment
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	√
Water	Airline Catering	Potable	0.0%	√

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				10. Prioritise energy efficiency in acquisition of new equipment
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA			√
Fuel	Other			
Fuel	MIA Te			√
Fuel	Visitor			
Fuel	Outbo			
Fuel	Touris			
Fuel	Touris			
Fuel	Aviation	Engine Testing	1.0%	√
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	√
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	√
Water	Airline Catering	Potable	0.0%	√

Expected to occur due to cost advantages and equipment availability

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				11. Introduce and maintain electricity use monitoring systems
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA	Light and Operations	5.7%	√
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				11. Introduce and maintain electricity use monitoring systems
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	√
Electricity	MIA	HVAC	7.0%	√
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	√
Electricity	MIA			√
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitor			
Fuel	Outboard			
Fuel	Tourist			
Fuel	Tourist			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	√
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Priority measure, feasible for rapid implementation, where it is not already in place

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				12. Rationalise frequency/extent of public transport service in redundant routes/times
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				12. Rationalise frequency/extent of public transport service in redundant routes/times
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Requires careful study of implications within national public transport network: national reforms would ideally be conducive to more efficient and effective use of public transport in airport activities		
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			
Fuel	Outbound			
Fuel	Tourists			
Fuel	Tourists			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				13. Car park facilities for long stays (e.g. while abroad) with Park and Ride
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	√
Fuel	Outbound tourists	Land Transport	2.9%	√
Fuel	Tourist Coaches	Land Transport	1.8%	√
Fuel	Tourist Taxis	Land Transport	1.3%	√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				13. Car park facilities for long stays (e.g. while abroad) with Park and Ride
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Priority measure, feasible for implementation especially within the context of rationalisation in public transport service		
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			√
Fuel	Outboard			√
Fuel	Tourists			√
Fuel	Tourists			√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				14. Promote use of biofuels
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	√
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

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Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				14. Promote use of biofuels
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Requires further study		
Fuel	Other			
Fuel	MIA Te			√
Fuel	Visitor			
Fuel	Outbo			
Fuel	Touris			
Fuel	Touris			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	√
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	√
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

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Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				15. Provide electricity charging points for vehicles
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	√
Fuel	Outbound tourists	Land Transport	2.9%	√
Fuel	Tourist Coaches	Land Transport	1.8%	√
Fuel	Tourist Taxis	Land Transport	1.3%	√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				15. Provide electricity charging points for vehicles
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Requires further study		
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			√
Fuel	Outboard			√
Fuel	Tourism			√
Fuel	Tourism			√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	√
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				16. Fixed Power Ground Units to replace APU
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	√
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				16. Fixed Power Ground Units to replace APU
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	√
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA			
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			
Fuel	Outboard			
Fuel	Tourism			
Fuel	Tourism			
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Addresses a significant issue, but
requires detailed technical and cost-
benefit assessments

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				17. Improve rainwater harvesting infrastructure
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
Fuel	Outbound tourists	Land Transport	2.9%	
Fuel	Tourist Coaches	Land Transport	1.8%	
Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	√
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Preliminary Proposals for 19 Measures

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Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA			
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			
Fuel	Outboard			
Fuel	Tourists			
Fuel	Tourists			
Fuel	Aviation	Engine Testing	1.0%	
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Water	Airline Catering	Potable	0.0%	

Requires detailed technical and cost-benefit assessments

Preliminary Proposals for 19 Measures

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				18. Use green vehicles to replace existing ones
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	√
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	
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Fuel	Tourist Taxis	Land Transport	1.3%	
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
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Water	MIA Tenants	Potable/Grey	0.1%	
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Preliminary Proposals for 19 Measures

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Electricity	MIA			
Fuel	Other e			
Fuel	MIA Te			
Fuel	Visitors			
Fuel	Outbou			
Fuel	Tourist			
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Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Possibly feasible for implementation,
subject to cost-benefit considerations

Carbon Emissions (2016 scenario, total emissions) <i>in order of size</i>				19. Incentivise use of green vehicles through priority access, pricing incl. car park charges
Use of:	Used by:	Used for:	% of total	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Light and Operations	5.7%	
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	
Fuel	Visitors	Land Transport	3.1%	√
Fuel	Outbound tourists	Land Transport	2.9%	√
Fuel	Tourist Coaches	Land Transport	1.8%	√
Fuel	Tourist Taxis	Land Transport	1.3%	√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Preliminary Proposals for 19 Measures

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Electricity	MIA Tenants	HVAC	8.0%	
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA	Feasible for implementation		
Fuel	Other			
Fuel	MIA Tenants			
Fuel	Visitors			√
Fuel	Outboard			√
Fuel	Tourists			√
Fuel	Tourists			√
Fuel	Aviation	Engine Testing	1.0%	
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline Catering	Heating	0.6%	
Fuel	MIA Employees	Land Transport	0.6%	
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Fuel	Airline Catering	Land Transport	0.1%	
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Measures to be assessed in greater detail to develop an implementation plan as part of D-AIR project

A high estimate level of costs and benefits will be undertaken to assess the most financially and economically feasible measures

Feedback by stakeholders on the suggested measures by 21st May 2014. Emails to be sent to alexandra.ellul@transport.gov.mt and svella@ecubed-consultants.com

Final stakeholder meeting in June 2014

Recommendations for Malta: A Preliminary Assessment



European Union
European Regional Development Fund

D-AIR is an EU funded project where local governments together with airport operators work on converting airports into ecological and sustainable transport hubs, helping to reduce CO2 emissions. D-AIR is founded in part by Interreg IVC through the European Regional Development Fund (ERDF).