Recommendations for Malta: A Preliminary Assessment



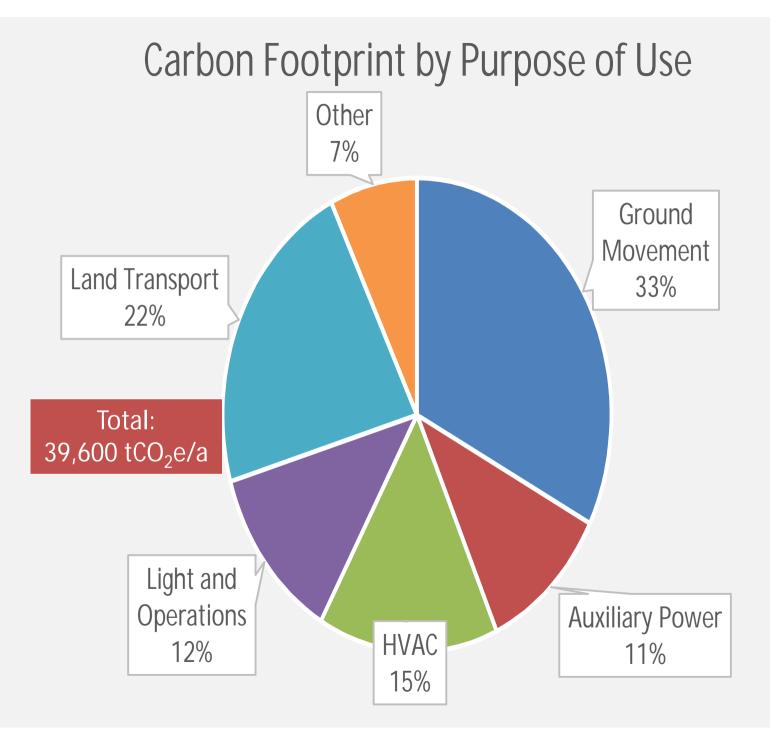
D-AIR is an EU funded project where local governments together with airport operators work on converting airports into ecological and sustainable transport hubs, helping to reduce CO2 emissions. D-AIR is founded in part by Interreg IVC through the European Regional Development Fund (ERDF).

Carbon Emissions (2016 scenario, total emissions) in order of size

	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%					
2	Fuel	Public Transport	Land Transport	2,770,445	7.0%					
っつ	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%					
ž	Fuel	Visitors	Land Transport	1,223,597	3.1%					
ā	Fuel	Outbound tourists	Land Transport	1,132,312	2.9%					
2	Fuel	Tourist Coaches	Land Transport	701,676	1.8%					
5	Fuel	Tourist Taxis	Land Transport	522,373	1.3%					
	Fuel	Aviation	Engine Testing	414,141	1.0%					
Siction	Electricity	Airline Catering	HVAC/Refrigeration	332,442	0.8%					
ס	Fuel	Airline Catering	Heating	235,954	0.6%					
Z	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								

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		Analysis by Purpose of Use			
	kgCO2e/a	% of total		kgCO2e/a	% of total	
Aviation	17,571,818	44.3%	Ground Movement	12,908,182	32.6%	
MIA Tenants	7,454,573	18.8%	Auxiliary Power	4,249,495	10.7%	
MIA	5,206,593	13.1%	HVAC	5,926,958	15.0%	
Public Transport	2,770,445	7.0%	Light and Operations	4,849,329	12.2%	
Other employees	2,188,869	5.5%	Land Transport	8,824,159	22.3%	
Outbound tourists	1,132,312	2.9%	Engine Testing	414,141	1.0%	
Visitors	1,223,597	3.1%	HVAC/Refrigeration	332,442	0.8%	
Tourist Coaches	701,676	1.8%	Heating	1,901,016	4.8%	
Tourist Taxis	522,373	1.3%	Passenger/Cargo	144,546	0.4%	
Airline Catering	631,749	1.6%	Potable/Grey	75,271	0.2%	
MIA Employees	235,145	0.6%	Potable	13,610	0.0%	
Total	39,639,150	100.0%	Total	39,639,150	100.0%	



Carbon Emissions	s (2016 scenario, total (<i>in order of size</i>	emissions)	Potential to reduce/neutralise	Potential to increase energy	Justification
Used by:	Used for:	% of total	demand	efficiency	
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 enhacement (long run)
MIA	Potable/Grey	0.1%			Potential for harvesting rainwater (long run)
Airline Catering	Potable	0.0%			Optimised management

	Carbon Emissions (2016 scenario, total emissions) in order of size			Potential to Potential to reduce/neutralise		Justification	
	Used by:	Used for:	% of total	demand	efficiency		
	Aviation	Ground Movement	32.6%			Short distances, optimised management	
3	Aviation	Auxiliary Power	10.7%			Potential for fixed power investment (long run)	
	MIA Tenants	HVAC	8.0%			Potential for neutrality, behavioural change	
5	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	
	Visitor: Outbou Tourist		5	tricity use and Emp senger transport and	y 1	power	
	Tourist Taxis	Land Transport	1.3%			Potential for behavioural change	
5	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	
5	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	

Car	bon Emissions (2010			
Use of:	in ora Used by:	1. Installation of PV Units		
Fuel	Aviation	Used for: Ground Movement	% of total 32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	V
Electricity	MIA	HVAC	7.0%	V
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	V
Electricity	MIA	Light and Operations	5.7%	V
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	\checkmark
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%	V
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	V
Fuel	Airline Catering	Heating	0.6%	V
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%	

Carl	1. Installation of PV Units				
Use of:	Use	ed by:	ler of size Used for:		
Fuel	Aviation		Ground Movement	32.6%	
Fuel	Aviation		Auxiliary Power	10.7%	
Electricity	MIA Ter	ants	HVAC	8.0%	٧
Electricity	MIA		HVAC	7.0%	٧
Fuel	Publi [^] [–]	ranchart	Land Transport	7 ∩0⁄	
Electricity	MIA ⁻	р· .			٧
Electricity	MIA	Priori	ty measure, fea	sible for	٧
Fuel	Othe	rapid	l implementatio	on, with	
Fuel	MIA ⁻	notent	ial to offset a si	gnificant	٧
Fuel	Visito	•		U	
Fuel	Outb a	mount	of electricity co	nsumptio	n
Fuel	Touri 🛔	by mea	ns of installatio	ns in non-	-
Fuel	Touri	•	critical issues		
Fuel	Aviation	l .		1.070	V
Electricity	Airline (Catering	HVAC/Refrigeration	0.8%	٧
Fuel	Airline (Catering	Heating	0.6%	٧
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%	

Car	bon Emissions (2010 <i>in ora</i>	2. Employee Incentive Schemes/Empower-ment/Motivation		
Use of:	Used by:	to reduce electricity consumption		
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	V
Electricity	MIA	HVAC	7.0%	V
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	V
Electricity	MIA	Light and Operations	5.7%	V
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%	V
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%	

Car	bon Emiss	2. Employee Incentive Schemes/Empower-ment/Motivation			
Use of:	Use	d by:	Used for:	% of total	to reduce electricity consumption
Fuel	Aviation		Ground Movement	32.6%	
Fuel	Aviation		Auxiliary Power	10.7%	
Electricity	MIA Ten	ants	HVAC	8.0%	V
Electricity	MIA		HVAC	7.0%	V
Fuel	Public Tr	ansport	Land Transport	7.0%	
Electricity	MIA Ten	ants	Light and Operations	6.5%	V
Electricity	MIA				V
Fuel	Other er				
Fuel	MIA Ten	Drior	ity maacura faacib	lo for ranic	4
Fuel	Visitors	PHU	ity measure, feasib		
Fuel	Outbour		implementatio	n	
Fuel	Tourist (
Fuel	Tourist 1				
Fuel	Aviation		Engine Testing	1.0%	
Electricity	Airline C	atering	HVAC/Refrigeration	0.8%	V
Fuel	Airline C	atering	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 C	atering	Potable	0.0%	

Car	bon Emissions (2016			
Use of:	in ora Used by:	3. More use of e- and tele-working		
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%	V
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%	٧
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%	

Car	bon Emissio	3 Mo	re use of e- and tele-working			
Use of:	Used		ler of size Used for:	% of total	0.100	
Fuel	Aviation		Ground Movement	32.6%		
Fuel	Aviation		Auxiliary Power	10.7%		
Electricity	MIA Tenan	its	HVAC	8.0%		
Electricity	MIA		HVAC	7.0%		
Fuel	Public Trar	nsport	Land Transport	7.0%		
Electricity	MIA Tenan	its	Light and Operations	6.5%		
Electricity	MIA		•			
Fuel	Other emp					V
Fuel	MIA Tenar		ful but poods to be	alianodu	/ith	
Fuel	Visitors	026	ful, but needs to be	U	/1111	
Fuel	Outbound		business require	ements		
Fuel	Tourist Co					
Fuel	Tourist Tax					
Fuel	Aviation		Engine Testing	1.0%		
Electricity	Airline Cat	ering	HVAC/Refrigeration	0.8%		
Fuel	Airline Cat	ering	Heating	0.6%		
Fuel	MIA Employees		Land Transport	0.6%		V
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 Cat	ering	Potable	0.0%		

Car	bon Emissions (2010 in ora	4. Install electricity saving devices in lighting/operations (motions sensors,		
Use of:	Used by:	LEDs, monitors, water heating, etc)		
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	٧
Electricity	MIA	HVAC	7.0%	٧
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	٧
Electricity	MIA	Light and Operations	5.7%	٧
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	٧
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%	٧
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) in order of size						tall electricity saving devices in ng/operations (motions sensors,
Use of:	Use	d by:	Used for:	% of total		, monitors, water heating, etc)
Fuel	Aviation		Ground Movement	32.6%		
Fuel	Aviation		Auxiliary Power	10.7%		
Electricity	MIA Ten	ants	HVAC	8.0%		٧
Electricity	MIA		HVAC	7.0%		V
Fuel	Public Tr	ansport	Land Transport	7.0%		
Electricity	MIA Tena	ants	Light and Operations	6.5%		V
Electricity	MIA					V
Fuel	Other er					
Fuel	MIA Ten	Drior	ity measure, feasib	lo for ranic	1	٧
Fuel	Visitors	FIIUI	3	-		
Fuel	Outbour		implementatio	n		
Fuel	Tourist (
Fuel	Tourist 1					
Fuel	Aviation		Engine Testing	1.0%		
Electricity	Airline C	atering	HVAC/Refrigeration	0.8%		V
Fuel	Airline C	atering	Heating	0.6%		
Fuel	MIA Emp	oloyees	Land Transport	0.6%		
Fuel	MIA		Passenger/Cargo	0.4%		
Water	MIA Ten	ants	Potable/Grey	0.1%		
Fuel	Airline C	atering	Land Transport	0.1%		
Water	MIA		Potable/Grey	0.1%		
Water	Airline C	atering	Potable	0.0%		

Car	bon Emissions (2010 in ora	5. Enhance consumption-sensitivity of		
Use of:	Used by: Used for: % of tota		% of total	electricity pricing
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	V
Electricity	MIA	HVAC	7.0%	
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	V
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%	V
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) in order of size					5. Enhance consumption-sensitivity of		
Use of:	Use	d by:	Used for:	% of total	electricity pricing		
Fuel	Aviation		Ground Movement	32.6%			
Fuel	Aviation		Auxiliary Power	10.7%			
Electricity	MIA Ten	ants	HVAC	8.0%	V		
Electricity	MIA		HVAC	7.0%			
Fuel	Public Tr	ansport	Land Transport	7.0%			
Electricity	MIA Ten	ants	Light and Operations	6.5%	V		
Electricity	MIA		1				
Fuel	Other er						
Fuel	MIA Ten						
Fuel	Visitors	Neces	sary, but requires f	urther stud	dy		
Fuel	Outbour						
Fuel	Tourist (
Fuel	Tourist 1						
Fuel	Aviation		Engine Testing	1.0%			
Electricity	Airline C	atering	HVAC/Refrigeration	0.8%			
Fuel	Airline C	atering	Heating	0.6%			
Fuel	MIA Emp	oloyees	Land Transport	0.6%			
Fuel	MIA		Passenger/Cargo	0.4%			
Water	MIA Ten	ants	Potable/Grey	0.1%	V		
Fuel	Airline Catering		Land Transport	0.1%			
Water	MIA		Potable/Grey	0.1%			
Water	Airline C	atering	Potable	0.0%			

Car	bon Emissions (2010 <i>in ora</i>	6. Develop corporate cultures toward		
Use of:	Used by:	Used for:	energy efficency	
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	V
Electricity	MIA	HVAC	7.0%	V
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	V
Electricity	MIA	Light and Operations	5.7%	V
Fuel	Other employees	Land Transport	5.5%	V
Fuel	MIA Tenants	Heating	4.2%	V
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%	٧
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	V
Fuel	Airline Catering	Heating	0.6%	٧
Fuel	MIA Employees	Land Transport	0.6%	V
Fuel	MIA	Passenger/Cargo	0.4%	V
Water	MIA Tenants	Potable/Grey	0.1%	V
Fuel	Airline Catering	Land Transport	0.1%	V
Water	MIA	Potable/Grey	0.1%	V
Water	Airline Catering	Potable	0.0%	V

Carbon Emissions (2016 scenario, total emissions) in order of size					6. Develop corporate cultures toward
Use of:	Use	d by:	Used for:	% of total	energy efficency
Fuel	Aviation		Ground Movement	32.6%	
Fuel	Aviation		Auxiliary Power	10.7%	
Electricity	MIA Ten	ants	HVAC	8.0%	V
Electricity	MIA		HVAC	7.0%	V
Fuel	Public Tr	ansport	Land Transport	7.0%	
Electricity	MIA Ten	ants	Light and Operations	6.5%	V
Electricity	MIA				V
Fuel	Other er				V
Fuel	MIA Ten	Drior	ity measure, feasib	lo for ranic	۷ V
Fuel	Visitors	FIIU	5		
Fuel	Outbour		implementatio	Π	
Fuel	Tourist (
Fuel	Tourist 1		· · · · · · · · · · · · · · · · · · ·		
Fuel	Aviation		Engine Testing	1.0%	٧
Electricity	Airline C	atering	HVAC/Refrigeration	0.8%	٧
Fuel	Airline C	atering	Heating	0.6%	٧
Fuel	MIA Emp	oloyees	Land Transport	0.6%	٧
Fuel	MIA		Passenger/Cargo	0.4%	٧
Water	MIA Ten	ants	Potable/Grey	0.1%	٧
Fuel	Airline C	atering	Land Transport	0.1%	٧
Water	MIA		Potable/Grey	0.1%	٧
Water	Airline C	atering	Potable	0.0%	V

Car	bon Emissions (201) in ord	7. Employee incentive schemes for car-			
Use of:	Used by: Used for: % of total		% of total	sharing	
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%	V	
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%	V	
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%		

Car	bon Emi	issions (201 <i>in orc</i>	7. Employee incentive schemes for car-			
Use of:	U	sed by:	Used for:	% of total	sharing	
Fuel	Aviatio	on	Ground Movement	32.6%		
Fuel	Aviatio	on	Auxiliary Power	10.7%		
Electricity	MIA Te	enants	HVAC	8.0%		
Electricity	MIA		HVAC	7.0%		
Fuel	Public	Transport	Land Transport	7.0%		
Electricity	MIA Te	enants	Light and Operations	6.5%		
Electricity	MIA					
Fuel	Other				V	
Fuel	MIA Te					
Fuel	Visitor	Feasi	ble for rapid impler	mentation		
Fuel	Outbo					
Fuel	Touris					
Fuel	Touris					
Fuel	Aviatio	on	Engine Testing	1.0%		
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%		
Fuel	Airline	Catering	Heating	0.6%		
Fuel	MIA Er	mployees	Land Transport	0.6%	V	
Fuel	MIA		Passenger/Cargo	0.4%		
Water	MIA Te	enants	Potable/Grey	0.1%		
Fuel	Airline	Catering	Land Transport	0.1%		
Water	MIA		Potable/Grey	0.1%		
Water	Airline	Catering	Potable	0.0%		

Car	bon Emissions (2010 in ora	8. Prioritise on energy efficiency of new buildings and insulation of MIA		
Use of:	Used by:	Used for:	building	
Fuel	Aviation	Ground Movement	32.6%	J
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	V
Electricity	MIA	HVAC	7.0%	V
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	V
Electricity	MIA	Light and Operations	5.7%	V
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	V
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>						8. Prioritise on energy efficiency of new buildings and insulation of MIA		
Use of:	Use	ed by:	Used for:	% of total		building		
Fuel	Aviation	l	Ground Movement	32.6%		v		
Fuel	Aviation	I	Auxiliary Power	10.7%				
Electricity	MIA Ter	nants	HVAC	8.0%		V		
Electricity	MIA		HVAC	7.0%		V		
Fuel	Public T	ransport	Land Transport	7.0%				
Electricity	MIA T <u>er</u>	nants	Light and Operations	6.5%		٧		
Electricity	MIA					V		
Fuel	Other							
Fuel	MIA Te					V		
Fuel	Visitor	Feasi	ble for rapid impler	mentation				
Fuel	Outbo							
Fuel	Touris							
Fuel	Touris							
Fuel	Aviation	۱	Engine Testing	1.0%				
Electricity	Airline (Catering	HVAC/Refrigeration	0.8%				
Fuel	Airline (Catering	Heating	0.6%				
Fuel	MIA Em	ployees	Land Transport	0.6%				
Fuel	MIA		Passenger/Cargo	0.4%				
Water	MIA Ter	nants	Potable/Grey	0.1%				
Fuel	Airline (Catering	Land Transport	0.1%				
Water	MIA		Potable/Grey	0.1%				
Water	Airline (Catering	Potable	0.0%				

Car	bon Emissions (201) <i>in ora</i>	9. Replace old airconditioning		
Use of:	Used by:	equipment		
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	٧
Electricity	MIA	HVAC	7.0%	٧
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%	

Car	bon Emis	9. Replace old airconditioning			
Use of:	Us	ed by:	Used for:	equipment	
Fuel	Aviatio	n	Ground Movement	32.6%	
Fuel	Aviatio	n	Auxiliary Power	10.7%	
Electricity	MIA Te	nants	HVAC	8.0%	٧
Electricity	MIA		HVAC	7.0%	٧
Fuel	Public 1	Fransport	Land Transport	7.0%	
Electricity	MIA Te	nants	Light and Operations	6.5%	
Electricity	MIA				
Fuel	Other (
Fuel	MIA Te	Expecte	ed to occur as old e	auinment	is
Fuel	Visitors	LAPOOL	decommissione	• •	
Fuel	Outbou			u	
Fuel	Tourist				
Fuel	Tourist		· ·		
Fuel	Aviatio	n	Engine Testing	1.0%	
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%	
Fuel	Airline	Catering	Heating	0.6%	
Fuel	MIA Em	nployees	Land Transport	0.6%	
Fuel	MIA		Passenger/Cargo	0.4%	
Water	MIA Te	nants	Potable/Grey	0.1%	
Fuel	Airline Catering		Land Transport	0.1%	
Water	MIA		Potable/Grey	0.1%	
Water	Airline	Catering	Potable	0.0%	

Car	bon Emissions (201) in ora	10. Prioritise energy efficiency in		
Use of:	Used by:	acquisition of new equipment		
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	٧
Electricity	MIA	HVAC	7.0%	V
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	٧
Electricity	MIA	Light and Operations	5.7%	V
Fuel	Other employees	Land Transport	5.5%	
Fuel	MIA Tenants	Heating	4.2%	٧
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%	٧
Electricity	Airline Catering	HVAC/Refrigeration	0.8%	٧
Fuel	Airline Catering	Heating	0.6%	V
Fuel	MIA Employees	Land Transport	0.6%	
Fuel	MIA	Passenger/Cargo	0.4%	V
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	V
Water	MIA	Potable/Grey	0.1%	V
Water	Airline Catering	Potable	0.0%	V

Carbon Emissions (2016 scenario, total emissions) in order of size					10. Prioritise energy efficiency in acquisition of new equipment
Use of:	U	sed by:	Used for:	% of total	acquisition of new equipment
Fuel	Aviatio	n	Ground Movement	32.6%	
Fuel	Aviatio	n	Auxiliary Power	10.7%	
Electricity	MIA Te	enants	HVAC	8.0%	V
Electricity	MIA		HVAC	7.0%	V
Fuel	Public	Transport	Land Transport	7.0%	
Electricity	MIA Te	enants	Light and Operations	6.5%	√
Electricity	MIA				V
Fuel	Other				
Fuel	MIA Te	Fxr	ected to occur due	to cost	V
Fuel	Visitor	•	ges and equipmen		ity
Fuel	Outbo	auvania	yes and equipment	l avallabil	ity
Fuel	Touris				
Fuel	Touris				
Fuel	Aviatio	n	Engine Testing	1.0%	V
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%	\checkmark
Fuel	Airline	Catering	Heating	0.6%	\checkmark
Fuel	MIA Er	nployees	Land Transport	0.6%	
Fuel	MIA		Passenger/Cargo	0.4%	V
Water	MIA Tenants		Potable/Grey	0.1%	
Fuel	Airline	Catering	Land Transport	0.1%	V
Water	MIA		Potable/Grey	0.1%	V
Water	Airline	Catering	Potable	0.0%	٧

Car	bon Emissions (201) <i>in ora</i>	11. Introduce and maintain electricity		
Use of:	Used by:	Used for:	% of total	use monitoring systems
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	
Electricity	MIA Tenants	HVAC	8.0%	٧
Electricity	MIA	HVAC	7.0%	٧
Fuel	Public Transport	Land Transport	7.0%	
Electricity	MIA Tenants	Light and Operations	6.5%	٧
Electricity	MIA	Light and Operations	5.7%	V
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%	V
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 of:	U	sed by:	Used for:	% of total	use monitoring systems
Fuel	Aviatio	n	Ground Movement	32.6%	
Fuel	Aviatio	n	Auxiliary Power	10.7%	
Electricity	MIA Te	enants	HVAC	8.0%	V
Electricity	MIA		HVAC	7.0%	V
Fuel	Public	Transport	Land Transport	7.0%	
Electricity	MIA Te	enants	Light and Operations	6.5%	٧
Electricity	MIA				V
Fuel	Other	.		c 1	
Fuel	MIA Te	Priorit	y measure, feasibl		
Fuel	Visitor	impleme	entation, where it is	s not alrea	ldy
Fuel	Outbo		in place		
Fuel	Touris		·		
Fuel	Touris				
Fuel	Aviatio	n	Engine Testing	1.0%	
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%	V
Fuel	Airline	Catering	Heating	0.6%	
Fuel	MIA Er	nployees	Land Transport	0.6%	
Fuel	MIA		Passenger/Cargo	0.4%	
Water	MIA Te	enants	Potable/Grey	0.1%	
Fuel	Airline	Catering	Land Transport	0.1%	
Water	MIA		Potable/Grey	0.1%	
Water	Airline	Catering	Potable	0.0%	

Car	bon Emissions (2010 in ora	12. Rationalise frequency/extent of public transport service in redundant		
Use of:	Used by:	Used for:	% of total	routes/times
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%	V
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%	

Car	bon Emi	•	6 scenario, total emiss der of size	ions)	12. Rationalise frequency/extent of public transport service in redundant	
Use of:	U	sed by:	Used for:	% of total	routes/times	
Fuel	Aviatio)n	Ground Movement	32.6%		
Fuel	Aviatio	on	Auxiliary Power	10.7%		
Electricity	MIA Te	enants	HVAC	8.0%		
Electricity	MIA		HVAC	7.0%		
Fuel	Public	Transport	Land Transport	7.0%	V	
Electricity	MIA Te	enants	Light and Operations	6.5%		
Electricity	MIA	Require	es careful study of	f implicati	ons	
Fuel	Other	within n	ational public tran	sport net	work:	
Fuel	MIA Te		national reforms would ideally be			
Fuel	Visitor					
Fuel	Outbo		e to more efficien			
Fuel	Touris	use	of public transpor	t in airpor	t	
Fuel	Touris		activities			
Fuel	Aviatio	on	Engine Testing	1.0%		
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%		
Fuel	Airline	Catering	Heating	0.6%		
Fuel	MIA Er	mployees	Land Transport	0.6%		
Fuel	MIA		Passenger/Cargo	0.4%		
Water	MIA Te	enants	Potable/Grey	0.1%		
Fuel	Airline	Catering	Land Transport	0.1%		
Water	MIA		Potable/Grey	0.1%		
Water	Airline	Catering	Potable	0.0%		

Car	bon Emissions (2010 in ora	13. Car park facilities for long stays		
Use of:	Used by:	Used for:	% of total	(e.g. while abroad) with Park and Ride
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%	٧
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%	٧
Fuel	Outbound tourists	Land Transport	2.9%	٧
Fuel	Tourist Coaches	Land Transport	1.8%	٧
Fuel	Tourist Taxis	Land Transport	1.3%	٧
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%	٧
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) in order of size						13. Car park facilities for long stays (e.g. while abroad) with Park and Ride
Use of:	U	sed by:	Used for:	% of total	(e.y.	while abload) with Palk and Ride
Fuel	Aviatio	n	Ground Movement	32.6%		
Fuel	Aviatio	n	Auxiliary Power	10.7%		
Electricity	MIA Te	enants	HVAC	8.0%		
Electricity	MIA		HVAC	7.0%		
Fuel	Public	Transport	Land Transport	7.0%		V
Electricity	MIA Te	enants	Light and Operations	6.5%		
Electricity	MIA					
Fuel	Other	Prio	ority measure, feas	ible for		
Fuel	MIA Te		nentation especially		1 e	
Fuel	Visitor	•	xt of rationalisation			V
Fuel	Outbo	COME		•	,	V
Fuel	Touris		transport serivo	e		V
Fuel	Touris					V
Fuel	Aviatio	n	Engine Testing	1.0%		
Electricity	Airline	Catering	HVAC/Refrigeration	0.8%		
Fuel	Airline	Catering	Heating	0.6%		
Fuel	MIA Er	nployees	Land Transport	0.6%		V
Fuel	MIA		Passenger/Cargo	0.4%		
Water	MIA Te	enants	Potable/Grey	0.1%		
Fuel	Airline	Catering	Land Transport	0.1%		
Water	MIA		Potable/Grey	0.1%		
Water	Airline	Catering	Potable	0.0%		

Car	bon Emissions (2010 <i>in or</i> a	14. Promote use of biofuels		
Use of:	Used by:	Used for:		
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%	V
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%	V
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%	V
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	\checkmark
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Car	bon Emissions (20 [°] in or	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%	٧
Electricity	MIA Tenants	Light and Operations	6.5%	
Electricity	MIA			
Fuel	Other			
Fuel	MIA Te			V
Fuel	Visitor	Requires further s	study	
Fuel	Outbo		J	
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%	٧
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	V
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Car	bon Emissions (201) <i>in ora</i>	15. Provide electricity charging points		
Use of:	Used by:	Used for:	% of total	for vehicles
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%	٧
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%	٧
Fuel	Outbound tourists	Land Transport	2.9%	٧
Fuel	Tourist Coaches	Land Transport	1.8%	٧
Fuel	Tourist Taxis	Land Transport	1.3%	٧
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%	٧
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%	

Car	bon Emissions (20 <i>in o</i> i	15. Provide electricity charging points			
Use of:	Used by:	Used for:	% of total	for vehicles	
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%	V	
Electricity	MIA Tenants	Light and Operations	6.5%		
Electricity	MIA				
Fuel	Other				
Fuel	MIA Te				
Fuel	Visitor	Requires further	study	V	
Fuel	Outbo		-	V	
Fuel	Touris			V	
Fuel	Touris			V	
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%	V	
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%		

Car	bon Emissions (2010 in ora	16. Fixed Power Ground Units to		
Use of:	Used by:	Used for:	% of total	replace APU
Fuel	Aviation	Ground Movement	32.6%	
Fuel	Aviation	Auxiliary Power	10.7%	V
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) in order of size					16. Fixed Power Ground Units to
Use of:	U	sed by:	Used for:	% of total	replace APU
Fuel	Aviatio	n	Ground Movement	32.6%	
Fuel	Aviatio	n	Auxiliary Power	10.7%	V
Electricity	MIA Te	enants	HVAC	8.0%	
Electricity	MIA		HVAC	7.0%	
Fuel	Public	Transport	Land Transport	7.0%	
Electricity	MIA Te	enants	Light and Operations	6.5%	
Electricity	MIA				
Fuel	Other				
Fuel	MIA Te	Addre	esses a significant	it	
Fuel	Visitor				
Fuel	Outbo				
Fuel	Touris				
Fuel	Touris				
Fuel	Aviatio	n	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%	

Car	bon Emissions (2010 in ora	17. Improve rainwater harvesting		
Use of:	Used by:	Used for:	% of total	infrastructure
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%	V
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) in order of size					17. Improve rainwater harvesting infrastructure		
Use of:	U	sed by:	Used for:	% of total	וווו מכוו עבנעו פ		
Fuel	Aviation		Ground Movement	32.6%			
Fuel	Aviatio	n	Auxiliary Power	10.7%			
Electricity	MIA Te	enants	HVAC	8.0%			
Electricity	MIA		HVAC	7.0%			
Fuel	Public	Transport	Land Transport	7.0%			
Electricity	MIA Te	enants	Light and Operations	6.5%			
Electricity	MIA						
Fuel	Other						
Fuel	MIA Te	Doquiros dotailod tochnical and cost					
Fuel	Visitor	Nequin	Requires detailed technical and cost-				
Fuel	Outbo	benefit assessments					
Fuel	Touris						
Fuel	Touris						
Fuel	Aviatio	n	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%	V		
Water	Airline Catering		Potable	0.0%			

Car	bon Emissions (2010 in ora	18. Use green vehicles to replace		
Use of:	Used by:	Used for:	% of total	existing ones
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%	٧
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%	٧
Water	MIA Tenants	Potable/Grey	0.1%	
Fuel	Airline Catering	Land Transport	0.1%	V
Water	MIA	Potable/Grey	0.1%	
Water	Airline Catering	Potable	0.0%	

Carbon Emissions (2016 scenario, total emissions) in order of size					18. Use green vehicles to replace existing ones		
Use of:	Us	ed by:	Used for:	% of total	existing ones		
Fuel	Aviation	n	Ground Movement	32.6%			
Fuel	Aviation	n	Auxiliary Power	10.7%			
Electricity	MIA Te	nants	HVAC	8.0%			
Electricity	MIA		HVAC	7.0%			
Fuel	Public 1	Fransport	Land Transport	7.0%	٧		
Electricity	MIA Te	nants	Light and Operations	6.5%			
Electricity	MIA						
Fuel	Other (
Fuel	MIA Te	Possibl	Possibly feasible for implementation, subject to cost-benefit considerations				
Fuel	Visitors						
Fuel	Outbou	Subject					
Fuel	Tourist						
Fuel	Tourist		· · · · · · · · · · · · · · · · · · ·				
Fuel	Aviation	n	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%	V		
Water	MIA Tenants		Potable/Grey	0.1%			
Fuel	Airline Catering		Land Transport	0.1%	٧		
Water	MIA		Potable/Grey	0.1%			
Water	Airline	Catering	Potable	0.0%			

Car	bon Emissions (201) in ord	19. Incentivise use of green vehicles through priority access, pricing incl.		
Use of:	Used by:	Used for:	% of total	car park charges
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%	٧
Fuel	Outbound tourists	Land Transport	2.9%	٧
Fuel	Tourist Coaches	Land Transport	1.8%	٧
Fuel	Tourist Taxis	Land Transport	1.3%	٧
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%	

Car	bon Em	19. Incentivise use of green vehicles through priority access, pricing incl.			
Use of:	U	sed by:	Used for:	% of total	car park charges
Fuel	Aviatio	on	Ground Movement	32.6%	
Fuel	Aviatio	on	Auxiliary Power	10.7%	
Electricity	MIA Te	enants	HVAC	8.0%	
Electricity	MIA		HVAC	7.0%	
Fuel	Public	Transport	Land Transport	7.0%	
Electricity	MIA Te	enants	Light and Operations	6.5%	
Electricity	MIA				
Fuel	Other				
Fuel	MIA Te				
Fuel	Visitor	Feasible for implementation			V
Fuel	Outbo			V	
Fuel	Touris			V	
Fuel	Touris				V
Fuel	Aviatio	on	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%	

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 <u>alexandra.ellul@transport.gov.mt</u> and <u>svella@ecubed-consultants.com</u>

Final stakeholder meeting in June 2014

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).