

Table B: Energy savings (including duration of measures)

Individual Measure Reference No.	Short Description	Implementation Period	Expected Savings (kWh)								Duration of Obligation Period / Lifetime of Measure
			2014	2015	2016	2017	2018	2019	2020	Total over the 7-year-period	
Sector: Obligation on Enemalta Corporation											
EMC-1a	To instruct consumers in wise energy use in the home through appropriate messages (both general and specific) via smart meters. Smart meters will also detect fraud and hence control excessive use of energy which usually accompanies fraud.	The roll-out of smart meters started in 2009 and shall be completed by end 2014	0	0	31,882,151	31,882,151	15,474	15,474	15,474	63,810,724	past 2020
EMC-1b	To use the smart meter innovatively as a tool to overcome consumer complacency towards energy efficiency in the long term	as from 2018	0	0	0	0	6,376,430	6,376,430	6,376,430	19,129,290	past 2020
EMC-2	The Progressiveness of the Domestic Residential Household Tariff System	New tariff to be introduced in 2014	2,356,000	2,356,000	2,356,000	2,356,000	2,356,000	2,356,000	2,356,000	16,492,000	to be determined
EMC-3	The Incentive towards Energy Efficiency in the Tariff Structure (Eco-reduction)	New tariff to be introduced in 2014	1,732,000	1,732,000	1,732,000	1,732,000	1,732,000	1,732,000	1,732,000	12,124,000	to be determined
			4,088,000	4,088,000	35,970,151	35,970,151	10,479,904	10,479,904	10,479,904	111,556,014	
Sector: Public Services											
P-1	Street Lighting Retrofitting (Gozo)	By end 2015 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2014.	848,652	3,394,607	3,394,607	3,394,607	3,394,607	3,394,607	3,394,607	21,216,294	15 years
P-2	Street Lighting Retrofitting (All Malta)	Implementation will start in 2016	0	0	4,260,256	8,520,512	8,520,512	8,520,512	8,520,512	38,342,304	15 years
			848,652	3,394,607	7,654,863	11,915,119	11,915,119	11,915,119	11,915,119	59,558,598	
Sector: Public Buildings											
PB-1	Retrofitting of Energy Efficient Measures in Public Schools	By end 2016 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2015.	0	32,021	160,107	192,128	192,128	192,128	192,128	960,640	Variable as multiple measures being implemented
PB-2	Retrofitting of Energy Efficient Measures at St. Vincent De Paul – Rehabilitation Centre & Old Peoples' Home	By end 2015 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2014.	80,000	400,000	7,395,000	7,395,000	7,395,000	7,395,000	7,395,000	37,455,000	Variable as multiple measures being implemented
PB-3	Retrofitting of Energy Efficient Measures at Armed Forces of Malta Barracks	By end 2017 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2016.	0	0	50,494	252,469	302,963	302,963	302,963	1,211,852	more than 10

PB-4	Retrofitting of Energy Efficient Measures at Civil Abattoir	By end 2017 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2016.	0	0	3,965	19,827	23,792	23,792	23,792	23,792	95,168	Variable as multiple measures being implemented
PB-5	Retrofitting of Energy Efficient Measures at Auberge D'Aragon	By end 2017 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2016.	0	0	396	1,978	2,373	2,373	2,373	2,373	9,493	more than 10
PB-6	Retrofitting of Energy Efficient Measures at Malta Police Force Buildings	By end 2017 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2016.	0	0	19,629	98,146	117,775	117,775	117,775	117,775	471,100	Variable as multiple measures being implemented
PB-7	Retrofitting of Energy Efficient Measures at Project House, Blocks A and B	By end 2017 all proposed changes will be implemented. Staggered in progressive tranches, starting in 2016.	0	0	8,542	42,710	51,253	51,253	51,253	51,253	205,011	Variable as multiple measures being implemented
PB-8	Installation of Cogeneration Plant at Gozo General Hospital	to be operational by 2nd quarter 2015	0	1,280,693	2,561,386	2,561,386	2,561,386	2,561,386	2,561,386	2,561,386	14,087,623	15 years
PB-9	Installation of Cogeneration Plant at a Hospital with High Heat-to-power Ratio	to be operational by 2020	0	0	0	0	0	0	1,135,590	1,135,590	1,135,590	15 years
			80,000	1,712,714	10,199,519	10,563,644	10,646,670	10,646,670	11,782,260	55,631,477		

Sector: Government-Owned Industries

WSC-1	Reduction of Power Requirements in the Transfer and Distribution of Water through Various Pipelines	September 2013 – June 2015	0	678,146	1,356,292	1,356,292	1,356,292	1,356,292	1,356,292	1,356,292	7,459,606	estimated lifetime of pipelines 40 years
WSC-2	Reduction of Power Requirements through the Use of Variable Speed Drives for Groundwater Abstraction Pumps	September 2013 – Dec 2014	0	463,137	463,137	463,137	463,137	463,137	463,137	463,137	2,778,822	estimated lifetime of drives 12 years
WSC-3	Upgrading of RO High Pressure Pumps and Energy Recovery Systems	Sept 2013 – Dec 2014	0	5,189,817	5,189,817	5,189,817	5,189,817	5,189,817	5,189,817	5,189,817	31,138,902	estimated lifetime of systems 12 years
WSC-4	Reduction of Power Requirements through Replacement of RO Auxiliary Pumps	by end 2014	0	522,876	522,876	522,876	522,876	522,876	522,876	522,876	3,137,256	estimated lifetime of pumps 20 years
WSC-5	Replacing Desalinated RO Water by Groundwater	by end 2014	0	317,412	317,412	317,412	317,412	317,412	317,412	317,412	1,904,472	estimated lifetime of systems 20 years
WSC-6	Reducing Electricity Consumption through the Elimination of Seawater Infiltration in the Sewage Collection Network	by end 2014	0	4,548,693	4,548,693	4,548,693	4,548,693	4,548,693	4,548,693	4,548,693	27,292,158	estimated lifetime of systems 40 years
WSC-7	Upgrading the Quality of Treated Sewage Effluent to Replace Desalinated RO Water for Non-potable Uses	Installed by end 2015	0	0	14,105,790	14,105,790	14,105,790	14,105,790	14,105,790	14,105,790	70,528,950	estimated lifetime of UF system 20 years
WS-1	Rendering Plant (Autoclave) for Animal Waste in the Civil Abattoir	Project to be finalised by 2015	0	0	7,698,000	7,698,000	7,698,000	7,698,000	7,698,000	7,698,000	38,490,000	past 2020
			0	11,720,081	34,202,017	34,202,017	34,202,017	34,202,017	34,202,017	34,202,017	182,730,166	

Sector: Residential - Buildings

RSB-1a	Incentive Scheme for Building Envelope Improvement (Double Glazing)	2014-2020	43,010	89,930	136,850	183,770	230,690	277,610	324,530	1,286,390	30 years
RSB-1b	Incentive Scheme for Building Envelope Improvement (Roof Insulation)	2014-2020	49,500	103,500	157,500	211,500	265,500	319,500	373,500	1,480,500	25 years
RSB-1c	Solar Water Heater Incentive Scheme	2014 - 2020	275,000	575,000	875,000	1,175,000	1,475,000	1,775,000	2,075,000	8,225,000	20 years
RSB-2	Energy Efficiency in Low Income Houses in MED Grant Scheme (following already-completed Energy Audits)	2014-2020	0	33,500	33,500	33,500	33,500	33,500	33,500	201,000	Solar water heater: 20 years Double Glazing: 30 years Roof Insulation: 25 years
RSB-3	Scheme for the Installation of Heat Pumps (Domestic)	2014-2020	0	201,337	402,674	604,011	604,011	604,011	604,011	3,020,055	10 years
			367,510	1,003,267	1,605,524	2,207,781	2,608,701	3,009,621	3,410,541	14,212,945	

Sector: Transport

TR-1	Grant Scheme to Improve Vehicle Fleet Efficiency	2014 - Scrappage scheme announced in Budget for 2014	1,785,693	3,296,665	3,296,665	3,296,665	3,296,665	3,296,665	3,296,665	21,565,683	measure ongoing till 2020
TR-2	Grant Scheme to Improve Vehicle Fleet Efficiency	2015-2020 More aggressive scrappage schemes		5,576,409	16,090,648	27,009,801	38,333,869	50,062,852	62,196,750	199,270,329	measure ongoing till 2020
			1,785,693	8,873,074	19,387,313	30,306,466	41,630,534	53,359,517	65,493,415	220,836,012	

Sector: Private

PS-1	Cogeneration Plant at Neptunes Aquatic Sports Association Malta, St. Julian's	to be operational by 2nd quarter 2015	0	61,675	123,350	123,350	123,350	123,350	123,350	678,425	15 years
PS-2	Cogeneration Plants in the Hospitality Sector	2015 - 2020	0	0	3,884,573	7,769,147	11,653,720	15,538,293	15,538,293	54,384,027	15 years
PS-3	Cogeneration Plants in the Hospitality Sector	2015 - 2020	0	0	4,662,420	9,324,840	13,987,260	18,649,680	18,649,680	65,273,880	15 years
PS-4	Installation of 37 Solar Thermal Water Heaters	From 2015	0	37,000	37,000	37,000	37,000	37,000	37,000	222,000	20 years
PS-5	Scheme for the installation of heat pumps for industrial use	2014-2020	0	260,100	520,200	780,300	780,300	780,300	780,300	3,901,500	10 years
PS-6	Tax Incentive Scheme for Industry for the Improvement of its Energy Consumption for Air Conditioning (Climate Control - Cooling)	to be operational by mid-2016	0	0	96,000	192,000	288,000	384,000	480,000	1,440,000	10 years
PS-7	Tax Credit Scheme to Shift to More Energy Efficient Lighting	to be operational by 2015	0	772,803	772,803	772,803	772,803	772,803	772,803	4,636,818	more than 10 years
			0	1,131,578	10,096,346	18,999,440	27,642,433	36,285,426	36,381,426	130,536,650	

7,169,855	31,923,321	119,115,733	144,164,618	139,125,378	159,898,274	173,664,682	775,061,861
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