

White Certificates Trading
ITALY

ITALIAN MEASURES

MEASURE (installation of)	Reference Physical Unit	A	B	C	D	E	F
		Yearly Primary Energy Saving	Imple- mentation Cost	Yearly Energy Cost Saving	Lifetime of the measure	Specific yearly net Benefit	Lifetime cumulated Final Energy Savings
		[RPU]	[toe/yr/RPU]	[€/PRU]	[€/yr/RPU]	[Years]	[€/toe]
Discount rate= 6,00%							
Freezer class A	1 Freezer	0,0290	146	26,10	10	216,40	970
Refrigerator class A	1 Refrigerator	0,0260	133	23,40	10	206,32	870
Washing machine class A	1 Washing machine	0,0079	174	7,11	10	-2 090,41	264
Dish washer class A	1 Dish washer	0,0092	126	8,28	10	-965,15	308
CFL for Residential	1 Lamp	0,0146	10	14,14	6	829,20	326
Wall insulation Residential - Zone A & B (k=1,1-1,3)	1 m ² of insulated wall	0,0006	22	0,48	30	-1 804,05	96
Wall insulation Residential - Zone C (k=1,1-1,3)	1 m ² of insulated wall	0,0012	22	0,96	30	-501,42	192
Wall insulation Residential - Zone D (k=1,1-1,3)	1 m ² of insulated wall	0,0023	26	1,84	30	-7,88	368
Wall insulation Residential - Zone E (k=1,1-1,3)	1 m ² of insulated wall	0,0039	26	3,12	30	324,06	624
Wall insulation Residential - Zone F (k=1,1-1,3)	1 m ² of insulated wall	0,0062	26	4,97	30	501,07	992
Wall insulation Hospitals - Zone A & B (k=1,1-1,3)	1 m ² of insulated wall	0,0011	22	0,48	30	-985,90	176
Wall insulation Hospitals - Zone C (k=1,1-1,3)	1 m ² of insulated wall	0,0018	22	0,78	30	-433,27	288
Wall insulation Hospitals - Zone D (k=1,1-1,3)	1 m ² of insulated wall	0,0030	26	1,31	30	-185,15	480
Wall insulation Hospitals - Zone E (k=1,1-1,3)	1 m ² of insulated wall	0,0046	26	2,00	30	30,61	736
Wall insulation Hospitals - Zone F (k=1,1-1,3)	1 m ² of insulated wall	0,0067	26	2,92	30	157,40	1 072
Wall insulation Office Bldgs - Zone A & B (k=1,1-1,3)	1 m ² of insulated wall	0,0005	22	0,22	30	-2 691,16	80
Wall insulation Office Bldgs - Zone C (k=1,1-1,3)	1 m ² of insulated wall	0,0010	22	0,44	30	-1 128,01	160
Wall insulation Office Bldgs - Zone D (k=1,1-1,3)	1 m ² of insulated wall	0,0020	26	0,87	30	-495,30	320
Wall insulation Office Bldgs - Zone E (k=1,1-1,3)	1 m ² of insulated wall	0,0033	26	1,44	30	-128,76	528
Wall insulation Office Bldgs - Zone F (k=1,1-1,3)	1 m ² of insulated wall	0,0049	26	2,13	30	55,38	784

		Primary	Final
Energy Conversion Factors	for electricity:	1 toe=	4 545 kWh _e

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Energy Conversion Factors	for heat:	1 toe=	11 628 kWh _t	
Energy Rates (average 2003, tax included)	Electricity residential:	1 toe=	900 €	(yearly consumption: 3500 kWh)
	Nat. Gas residential.:	1 toe=	801 €	(yearly consumption: 2199 m ³)
	Nat. Gas non resid.:	1 toe=	435 €	(yearly consumption: 109958 m ³)